

UNCLASSIFIED

AD NUMBER

AD815683

LIMITATION CHANGES

TO:

Approved for public release; distribution is unlimited.

FROM:

Distribution authorized to U.S. Gov't. agencies and their contractors;
Administrative/Operational Use; APR 1967. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.

AUTHORITY

ASD ltr 29 Nov 1971

THIS PAGE IS UNCLASSIFIED

ASD-TR-67-1

STRUCTURAL LOADS DATA FROM C-141A AIRCRAFT

ROBERT B. SCHWARTZ

**UNIVERSITY OF DAYTON
RESEARCH INSTITUTE**

TECHNICAL REPORT No. ASD-TR-67-1

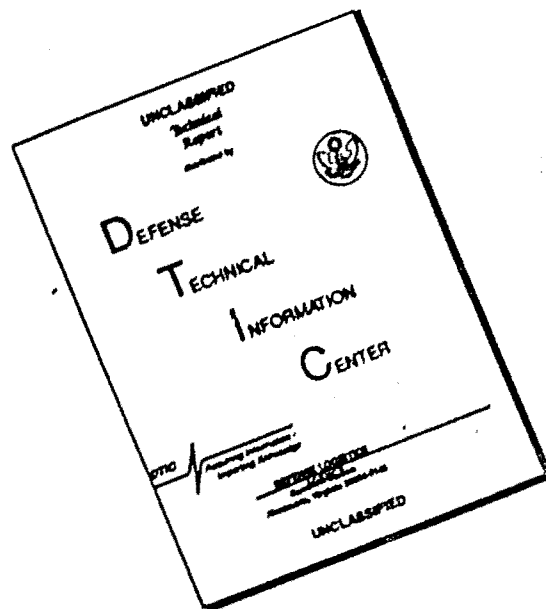
APRIL 1967

**C-141 SYSTEM PROGRAM OFFICE
AERONAUTICAL SYSTEMS DIVISION
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, OHIO**

This document is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with the prior approval of the C-141 Systems Program Office.

AD 81 5683

DISCLAIMER NOTICE



THIS DOCUMENT IS BEST QUALITY AVAILABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

NOTICES

When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

Copies of this report should not be returned to the Aeronautical Systems Division unless return is required by security considerations, contractual obligations, or notice on a specific document.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AERONAUTICAL SYSTEMS DIVISION (AFSC)
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433



REPLY TO
ATTN OF

ASZL/SELA/R&D 7-7

25 Aug 67

SUBJECT

ASD TR 67-1, Structural Loads Data from C-141A Aircraft

TO Recipient of ASD TR 67-1

AD 815683

In April 1967 the subject report presenting structural information on operational C-141 aircraft was distributed. Shortly thereafter, it was discovered that certain tabulations in this report were not complete. As a result, a revised copy of ASD TR 67-1 is hereby submitted for your information. It is respectfully requested that the original be destroyed.

FOR THE COMMANDER

Howard E. Kugel
HOWARD E. KUGEL
Chief, Airframe Division
C-141/Materials Handling
Engineering Office

Atch
ASD TR 67-1

STRUCTURAL LOADS DATA FROM C-141A AIRCRAFT

ROBERT B. SCHWARTZ

This document is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with the prior approval of the C-141 Systems Program Office.

FOREWORD

This final report on the C-141A Aircraft Flight Loads Data Program was prepared by the Aerospace Mechanics Research group of the University of Dayton Research Institute, Dayton, Ohio under Air Force Contract AF 33(657)-14424. This program was initiated by Mr. Leo A. Wack and Lt. R. S. Szacik of the C-141 System Program Office, Aeronautical Systems Division, Air Force Systems Command at Wright-Patterson Air Force Base, Ohio. In April 1965 Lt. Raymond J. Veldman of the C-141 System Program Office was appointed project monitor and was also responsible for the initiation of the Ground Loads Study phase of the program.

The work described herein was accomplished during the period of 19 July 1965 through 31 December 1966. This program was conducted by UDRI under the general supervision of Mr. Dale H. Whitford, Project Supervisor, with the author assigned as the project engineer.

The author gratefully acknowledges the cooperation and assistance provided by personnel of the C-141 System Program Office, MAC Air Weather Service, Charleston Air Force Base, Dover Air Force Base, Tinker Air Force Base, Travis Air Force Base, and the 22nd Joint Test Force at Travis Air Force Base.

This technical report has been reviewed and is approved.

Howard E. Kugel
HOWARD E. KUGEL
Chief, Airframe Division
C-141/Materials Handling
Engineering Office

ABSTRACT

The primary purpose of this report is to present the structural load history information and the atmospheric turbulence data acquired and reduced for the C-141A Aircraft Flight Loads Data Program. Also included in this report are descriptions and discussions of the methods employed in the acquisition and processing of the data. The C-141A Aircraft Flight Loads Data Program was a single project which incorporated four separate concepts: an Interim Flight Loads Program, a Ground Loads Study, a Lead-the-Force Flight Loads Program, and an Atmospheric Turbulence Study. A total of from 28 to 35 aircraft at four Air Force Bases were employed at various periods during this effort to obtain structural load history and atmospheric turbulence data. Eight aircraft were instrumented for the acquisition of ground load experience data. A total data sample of 12,430 flight hours of flight loads data, 2,786 hours of atmospheric turbulence data, and 174.5 hours of ground load experience data was acquired and reduced during this program and is presented in this report. The structural load history data presented in this report is presently being employed in fatigue evaluations of the C-141A aircraft by the C-141 System Program Office. (This Abstract is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with prior approval of the C-141 System Program Office.)

TABLE OF CONTENTS

SECTION	PAGE
I INTRODUCTION	1
1.1 OBJECTIVES	1
1.1.1 Interim Flight Loads Program	1
1.1.2 Ground Loads Study	1
1.1.3 Lead-the-Force Flight Loads Program	2
1.1.4 Atmospheric Turbulence Study	2
1.2 PROGRAM SUMMARY.	2
1.3 DESCRIPTION OF THE AIRCRAFT	4
II INSTRUMENTATION AND RECORDING SYSTEMS	9
2.1 FLIGHT LOADS INSTRUMENTATION	9
2.2 GROUND LOADS INSTRUMENTATION	9
2.3 TURBULENCE INDICATOR SWITCH	11
2.4 RECORDING SYSTEM	11
III DATA PROCESSING TECHNIQUES AND CRITERIA	13
3.1 DATA PROCESSING TECHNIQUES.	13
3.1.1 Editing Section	13
3.1.2 Manual Data Reduction Section	14
3.1.3 Semi-Automatic Data Reading Section.	14
3.1.4 Computer	15
3.1.5 Quality Control	15
3.2 FLIGHT LOADS CRITERIA	15
3.2.1 Peak Criteria	16
3.2.2 Flight Parameters	16
3.2.3 Mission Parameters	17
3.2.4 Derived Vertical Gust Velocity	18
3.3 GROUND LOADS CRITERIA	19
3.3.1 Peak Criteria	19
3.3.2 Ground Operations Parameters	19
3.3.3 Mission Parameters	20
3.4 ATMOSPHERIC TURBULENCE CRITERIA	20

TABLE OF CONTENTS concluded

SECTION	PAGE
IV RESULTS	22
4.1 INTERIM FLIGHT LOADS DATA	26
4.2 LEAD-THE-FORCE FLIGHT LOADS DATA	32
4.3 GROUNDS LOADS STUDY DATA	33
4.4 ATMOSPHERIC TURBULENCE STUDY DATA	35
4.5 DATA ACCURACY	38
V CONCLUSIONS	39
APPENDIX A INTERIM FLIGHT LOADS DATA	41
APPENDIX B LEAD-THE-FORCE FLIGHT LOADS DATA	125
APPENDIX C GROUND LOADS STUDY DATA	199
APPENDIX D ATMOSPHERIC TURBULENCE STUDY DATA	283
REFERENCES	461

ILLUSTRATIONS

FIGURE		PAGE
1	Photograph of C-141A Aircraft	6
2	Schematic Drawing of C-141A Aircraft	7
3	Schematic Illustrating Instrumentation and Recording System Locations	10
A1	Positive Maneuver Spectrum Obtained from 6,354 Flight-Hours of Interim Flight Loads Data	42
A2	Positive Gust Spectrum by Altitude Obtained from 6,354 Flight-Hours of Interim Flight Loads Data	43
A3	Gust Spectrum by Altitude Obtained from 1,200 Flight- Hours of IFL Data Acquired at Charleston Air Force Base (Refer to Table A1)	44
A4	Gust Spectrum by Altitude Obtained from 1,221 Flight- Hours of IFL Data Acquired at Dover Air Force Base (Refer to Table A2)	46
A5	Gust Spectrum by Altitude Obtained from 1,792 Flight- Hours of IFL Data Acquired at Tinker Air Force Base (Refer to Table A3)	48
A6	Gust Spectrum by Altitude Obtained from 2,141 Flight- Hours of IFL Data Acquired at Travis Air Force Base (Refer to Table A4)	50
A7	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Medium Range Missions	54
A8	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Medium Range Missions	54
A9	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Long Range Missions	55

ILLUSTRATIONS continued

FIGURE		PAGE
A10	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Long Range Missions	55
A11	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Training Missions . . .	56
A12	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Training Missions	56
A13	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Drop Short Range Missions	57
A14	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Drop Short Range Missions	57
A15	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Miscellaneous Missions .	58
A16	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Miscellaneous Missions .	58
A17	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Flight Test Missions . .	59
A18	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Flight Test Missions . . .	59
A19	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Airborne Training Missions	60
A20	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Airborne Training Missions	60
B1	Positive Maneuver Spectrum Obtained from 6,076 Flight-Hours of Lead-the-Force Flight Loads Data	126

ILLUSTRATIONS continued

FIGURE		PAGE
B2	Positive Gust Spectrum by Altitude Obtained from 6,076 Flight-Hours of Lead-the-Force Flight Loads Data	127
B3	Gust Spectrum by Altitude Obtained from 646 Flight-Hours of LTF Data Acquired at Charleston Air Force Base (Refer to Table B1)	128
B4	Gust Spectrum by Altitude Obtained from 960 Flight-Hours of LTF Data Acquired at Dover Air Force Base (Refer to Table B2)	130
B5	Gust Spectrum by Altitude Obtained from 1,949 Flight-Hours of LTF Data Acquired at Tinker Air Force Base (Refer to Table B3)	132
B6	Gust Spectrum by Altitude Obtained from 2,521 Flight-Hours of LTF Data Acquired at Travis Air Force Base (Refer to Table B4).	134
B7	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Medium Range Missions	138
B8	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Medium Range Missions	138
B9	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Long Range Missions	139
B10	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Long Range Missions	139
B11	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Training Missions	140
B12	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Training Missions	140

ILLUSTRATIONS concluded

FIGURE		PAGE
B13	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Miscellaneous Missions .	141
B14	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Miscellaneous Missions .	141
B15	Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Flight Test Missions . .	142
B16	Percentages of the Total Flight Time Spent in the Various Altitude Bands for Flight Test Missions . . .	142
C1	Cumulative Frequency of Positive Incremental Ground Load Factor Peaks for the Mission Phases of Taxi, Take-off Run, Landing Roll-out, and Touch-and-Go Roll	200
C2	Cumulative Frequency of Positive Incremental Ground Load Factor Peaks per Landing for the Landing Impact Mission Phase	201
D1	Comparison of the Positive Derived Vertical Gust Velocity Spectra by Season for Altitudes Greater than 30,000 feet	291
D2	Comparison of the Positive Derived Vertical Gust Velocity Spectra of Two Routes Encountered in the Atmospheric Turbulence Study	292

TABLES

TABLE		PAGE
1	Distribution of Instrumentation Installations	4
2	C-141A Aircraft Design Criteria	8
3	Distribution of Reducible Data Samples (Hours) by Air Force Base and Program Phase	23
4	Distribution of Reduced Data Samples (Hours) by Air Force Base and Program Phase	23
5	Comparison by Mission Type of the Percentage of the Number of Flights Flown with the Percentage of the Number of Flights in the Reduced Flight Loads Data Samples at Each Base . . .	25
6	Distribution of the Reduced Flight Loads Data Samples (Number and Hours) by Air Force Base and Mission	28
7	Description of the Weight, Altitude, and Airspeed Band Codes	30
8	Description of the Load Factor and Derived Gust Velocity Bands	31
9	Ground Loads Study Weight and Load Factor Band Descriptions	34
10	Distribution of the Reduced Ground Loads Data Sample by Mission Phase	33
11	List of Bases at Which Data was Acquired and Reduced for the Ground Loads Study	36
12	Comparison of the Load Factor Two-Standard Deviation Errors with the Specified Limits	38
A1	Distribution of Derived Vertical Gust Velocity by Altitude for the Charleston Air Force Base Data Sample	52
A2	Distribution of Derived Vertical Gust Velocity by Altitude for the Dover Air Force Base Data Sample	52
A3	Distribution of Derived Vertical Gust Velocity by Altitude for the Tinker Air Force Base Data Sample	53

TABLES continued

TABLE	PAGE
A4 Distribution of Derived Vertical Gust Velocity by Altitude for the Travis Air Force Base Data Sample	53
A5 Distribution of Time (Hours) by Altitude and Airspeed Increments for the Logistics, Medium Range Mission	61
A6 Distribution of Time (Hours) by Altitude and Airspeed Increments for the Logistics, Long Range Mission	61
A7 Distribution of Time (Hours) by Altitude and Airspeed Increments for the Training Mission	61
A8 Distribution of Time (Hours) by Altitude and Airspeed Increments for the Logistics Drop, Short Range Mission	62
A9 Distribution of Time (Hours) by Altitude and Airspeed Increments for the Miscellaneous Mission	62
A10 Distribution of Time (Hours) by Altitude and Airspeed Increments for the Flight Test Mission	63
A11 Distribution of Time (Hours) by Altitude and Airspeed Increments for the Airborne Training Mission	63
A12 Distribution of Maneuver Load Factors for the Charleston Air Force Base Logistics, Medium Range Mission Data Sample	64
A13 Distribution of Maneuver Load Factors for the Charleston Air Force Base Logistics, Long Range Mission Data Sample	66
A14 Distribution of Maneuver Load Factors for the Charleston Air Force Base Training Mission Data Sample	67
A15 Distribution of Maneuver Load Factors for the Charleston Air Force Base Miscellaneous Mission Data Sample	68
A16 Distribution of Maneuver Load Factors for the Charleston Air Force Base Flight Test Mission Data Sample	69

TABLES continued

TABLE		PAGE
A17	Distribution of Maneuver Load Factors for the Charleston Air Force Base Airborne Training Mission Data Sample	69
A18	Distribution of Maneuver Load Factors for the Dover Air Force Base Logistics, Medium Range Mission Data Sample	70
A19	Distribution of Maneuver Load Factors for the Dover Air Force Base Training Mission Data Sample	72
A20	Distribution of Maneuver Load Factors for the Dover Air Force Base Logistics Drop, Short Range Mission Data Sample	73
A21	Distribution of Maneuver Load Factors for the Dover Air Force Base Miscellaneous Mission Data Sample	74
A22	Distribution of Maneuver Load Factors for the Dover Air Force Base Flight Test Mission Data Sample	74
A23	Distribution of Maneuver Load Factors for the Tinker Air Force Base Logistics, Medium Range Mission Data Sample	75
A24	Distribution of Maneuver Load Factors for the Tinker Air Force Base Training Mission Data Sample	76
A25	Distribution of Maneuver Load Factors for the Tinker Air Force Base Flight Test Mission Data Sample	78
A26	Distribution of Maneuver Load Factors for the Travis Air Force Base Logistics, Medium Range Mission Data Sample	79
A27	Distribution of Maneuver Load Factors for the Travis Air Force Base Logistics, Long Range Mission Data Sample	81
A28	Distribution of Maneuver Load Factors for the Travis Air Force Base Training Mission Data Sample	82

TABLES continued

TABLE		PAGE
A29	Distribution of Maneuver Load Factors for the Travis Air Force Base Flight Test Mission Data Sample	83
A30	Distribution of Gust Load Factors for the Charleston Air Force Base Logistics, Medium Range Mission Data Sample	84
A31	Distribution of Gust Load Factors for the Charleston Air Force Base Logistics, Long Range Mission Data Sample	86
A32	Distribution of Gust Load Factors for the Charleston Air Force Base Training Mission Data Sample	87
A33	Distribution of Gust Load Factors for the Charleston Air Force Base Miscellaneous Mission Data Sample	88
A34	Distribution of Gust Load Factors for the Charleston Air Force Base Flight Test Mission Data Sample	89
A35	Distribution of Gust Load Factors for the Charleston Air Force Base Airborne Training Mission Data Sample	89
A36	Distribution of Gust Load Factors for the Dover Air Force Base Logistics, Medium Range Mission Data Sample	90
A37	Distribution of Gust Load Factors for the Dover Air Force Base Training Mission Data Sample	92
A38	Distribution of Gust Load Factors for the Dover Air Force Base Logistics Drop, Short Range Mission Data Sample	93
A39	Distribution of Gust Load Factors for the Dover Air Force Base Miscellaneous Mission Data Sample	94
A40	Distribution of Gust Load Factors for the Dover Air Force Base Flight Test Mission Data Sample	94
A41	Distribution of Gust Load Factors for the Tinker Air Force Base Logistics, Medium Range Mission Data Sample	95

TABLES continued

TABLE		PAGE
A42	Distribution of Gust Load Factors for the Tinker Air Force Base Training Mission Data Sample	96
A43	Distribution of Gust Load Factors for the Tinker Air Force Base Flight Test Mission Data Sample	98
A44	Distribution of Gust Load Factors for the Travis Air Force Base Logistics, Medium Range Mission Data Sample	99
A45	Distribution of Gust Load Factors for the Travis Air Force Base Logistics, Long Range Mission Data Sample .	101
A46	Distribution of Gust Load Factors for the Travis Air Force Base Training Mission Data Sample	102
A47	Distribution of Gust Load Factors for the Travis Air Force Base Flight Test Mission Data Sample	103
A48	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Logistics, Medium Range Mission Data Sample	104
A49	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Logistics, Long Range Mission Data Sample	106
A50	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Training Mission Data Sample	107
A51	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Miscellaneous Mission Data Sample	108
A52	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Flight Test Mission Data Sample	109
A53	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Airborne Training Mission Data Sample	109

TABLES continued

TABLE		PAGE
A54	Distribution of Derived Vertical Gust Velocity for the Dover Air Force Base Logistics, Medium Range Mission Data Sample	110
A55	Distribution of Derived Vertical Gust Velocity for the Dover Air Force Base Training Mission Data Sample . . .	112
A56	Distribution of Derived Vertical Gust Velocity for the Dover Air Force Base Logistics Drop, Short Range Mission Data Sample	113
A57	Distribution of Derived Vertical Gust Velocity for the Dover Air Force Base Miscellaneous Mission Data Sample	114
A58	Distribution of Derived Vertical Gust Velocity for the Dover Air Force Base Flight Test Mission Data Sample . .	114
A59	Distribution of Derived Vertical Gust Velocity for the Tinker Air Force Base Logistics, Medium Range Mission Data Sample	115
A60	Distribution of Derived Vertical Gust Velocity for the Tinker Air Force Base Training Mission Data Sample . . .	116
A61	Distribution of Derived Vertical Gust Velocity for the Tinker Air Force Base Flight Test Mission Data Sample . .	118
A62	Distribution of Derived Vertical Gust Velocity for the Travis Air Force Base Logistics, Medium Range Mission Data Sample	119
A63	Distribution of Derived Vertical Gust Velocity for the Travis Air Force Base Logistics, Long Range Mission Data Sample	121
A64	Distribution of Derived Vertical Gust Velocity for the Travis Air Force Base Training Mission Data Sample . . .	122
A65	Distribution of Derived Vertical Gust Velocity for the Travis Air Force Base Flight Test Mission Data Sample . .	123

TABLES continued

TABLE		PAGE
B1	Distribution of Derived Vertical Gust Velocity by Altitude for the Charleston Air Force Base Data Sample	136
B2	Distribution of Derived Vertical Gust Velocity by Altitude for the Dover Air Force Base Data Sample	136
B3	Distribution of Derived Vertical Gust Velocity by Altitude for the Tinker Air Force Base Data Sample	137
B4	Distribution of Derived Vertical Gust Velocity by Altitude for the Travis Air Force Base Data Sample	137
B5	Distribution of Time (Hours) by Altitude and Airspeed Increments for the Logistics, Medium Range Mission	143
B6	Distribution of Time (Hours) by Altitude and Airspeed Increments for the Logistics, Long Range Mission	143
B7	Distribution of Time (Hours) by Altitude and Airspeed Increments for the Training Mission	143
B8	Distribution of Time (Hours) by Altitude and Airspeed Increments for the Miscellaneous Mission	144
B9	Distribution of Time (Hours) by Altitude and Airspeed Increments for the Flight Test Mission	144
B10	Distribution of Maneuver Load Factors for the Charleston Air Force Base Logistics, Medium Range Mission Data Sample	145
B11	Distribution of Maneuver Load Factors for the Charleston Air Force Base Training Mission Data Sample	147
B12	Distribution of Maneuver Load Factors for the Charleston Air Force Base Miscellaneous Mission Data Sample	148
B13	Distribution of Maneuver Load Factors for the Charleston Air Force Base Flight Test Mission Data Sample	148

TABLES continued

TABLE		PAGE
B14	Distribution of Maneuver Load Factors for the Dover Air Force Base Logistics, Medium Range Mission Data Sample	149
B15	Distribution of Maneuver Load Factors for the Dover Air Force Base Logistics, Long Range Mission Data Sample	151
B16	Distribution of Maneuver Load Factors for the Dover Air Force Base Training Mission Data Sample	152
B17	Distribution of Maneuver Load Factors for the Dover Air Force Base Flight Test Mission Data Sample	153
B18	Distribution of Maneuver Load Factors for the Tinker Air Force Base Logistics, Medium Range Mission Data Sample	154
B19	Distribution of Maneuver Load Factors for the Tinker Air Force Base Training Mission Data Sample	155
B20	Distribution of Maneuver Load Factors for the Tinker Air Force Base Flight Test Mission Data Sample	157
B21	Distribution of Maneuver Load Factors for the Travis Air Force Base Logistics, Medium Range Mission Data Sample	158
B22	Distribution of Maneuver Load Factors for the Travis Air Force Base Logistics, Long Range Mission Data Sample	160
B23	Distribution of Maneuver Load Factors for the Travis Air Force Base Training Mission Data Sample	161
B24	Distribution of Maneuver Load Factors for the Travis Air Force Base Flight Test Mission Data Sample	162
B25	Distribution of Gust Load Factors for the Charleston Air Force Base Logistics, Medium Range Mission Data Sample	163

TABLES continued

TABLE	PAGE
B26	Distribution of Gust Load Factors for the Charleston Air Force Base Training Mission Data Sample 165
B27	Distribution of Gust Load Factors for the Charleston Air Force Base Miscellaneous Mission Data Sample 166
B28	Distribution of Gust Load Factors for the Charleston Air Force Base Flight Test Mission Data Sample 166
B29	Distribution of Gust Load Factors for the Dover Air Force Base Logistics, Medium Range Mission Data Sample . . . 167
B30	Distribution of Gust Load Factors for the Dover Air Force Base Logistics, Long Range Mission Data Sample . . . 169
B31	Distribution of Gust Load Factors for the Dover Air Force Base Training Mission Data Sample 170
B32	Distribution of Gust Load Factors for the Dover Air Force Base Flight Test Mission Data Sample 171
B33	Distribution of Gust Load Factors for the Tinker Air Force Base Logistics, Medium Range Mission Data Sample 172
B34	Distribution of Gust Load Factors for the Tinker Air Force Base Training Mission Data Sample 173
B35	Distribution of Gust Load Factors for the Tinker Air Force Base Flight Test Mission Data Sample 175
B36	Distribution of Gust Load Factors for the Travis Air Force Base Logistics, Medium Range Mission Data Sample 176
B37	Distribution of Gust Load Factors for the Travis Air Force Base Logistics, Long Range Mission Data Sample 178
B38	Distribution of Gust Load Factors for the Travis Air Force Base Training Mission Data Sample 179

TABLES continued

TABLE		PAGE
B39	Distribution of Gust Load Factors for the Travis Air Force Base Flight Test Mission Data Sample	180
B40	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Logistics, Medium Range Mission Data Sample	181
B41	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Training Mission Data Sample	183
B42	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Miscellaneous Mission Data Sample	184
B43	Distribution of Derived Vertical Gust Velocity for the Charleston Air Force Base Flight Test Mission Data Sample	184
B44	Distribution of Derived Vertical Gust Velocity for the Dover Air Force Base Logistics, Medium Range Mission Data Sample	185
B45	Distribution of Derived Vertical Gust Velocity for the Dover Air Force Base Logistics, Long Range Mission Data Sample	187
B46	Distribution of Derived Vertical Gust Velocity for the Dover Air Force Base Training Mission Data Sample . .	188
B47	Distribution of Derived Vertical Gust Velocity for the Dover Air Force Base Flight Test Mission Data Sample	189
B48	Distribution of Derived Vertical Gust Velocity for the Tinker Air Force Base Logistics, Medium Range Mission Data Sample	190
B49	Distribution of Derived Vertical Gust Velocity for the Tinker Air Force Base Training Mission Data Sample	191
B50	Distribution of Derived Vertical Gust Velocity for the Tinker Air Force Base Flight Test Mission Data Sample	193

TABLES continued

TABLE		PAGE
B51	Distribution of Derived Vertical Gust Velocity for the Travis Air Force Base Logistics, Medium Range Mission Data Sample . . . . .	.194
B52	Distribution of Derived Vertical Gust Velocity for the Travis Air Force Base Logistics, Long Range Mission Data Sample . . . . .	.196
B53	Distribution of Derived Vertical Gust Velocity for the Travis Air Force Base Training Mission Data Sample . . . . .	.197
B54	Distribution of Derived Vertical Gust Velocity for the Travis Air Force Base Flight Test Mission Data Sample . . . . .	.198
C1	Distribution of Ground Load Factors for the Taxi Mission Phase . . . . .	.202
C2	Distribution of Ground Load Factors for the Take-Off Run Mission Phase . . . . .	.202
C3	Distribution of Ground Load Factors for the Landing Roll-Out Mission Phase . . . . .	.203
C4	Distribution of Ground Load Factors for the Touch-and-Go Roll Mission Phase . . . . .	.203
C5	Distribution of Ground Load Factors for the Landing Impact Mission Phase . . . . .	.204
C6	Distribution of Ground Load Factors by Mission Phase for Aircraft Assigned to Dover Air Force Base, Delaware . . . . .	.205
C7	Distribution of Ground Load Factors by Mission Phase for Aircraft Assigned to Tinker Air Force Base, Oklahoma . . . . .	.207
C8	Distribution of Ground Load Factors by Mission Phase for Aircraft Assigned to Travis Air Force Base, California . . . . .	.209
C9	Distribution of Ground Load Factor by Mission Phase for Data Acquired at Altus Air Force Base, Oklahoma. . . . .	.211

TABLES continued

TABLE		PAGE
C10	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Amarillo Air Force Base/Municipal, Texas	212
C11	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Anderson Air Base, Guam	213
C12	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Andrews Air Force Base, Washington D. C.	214
C13	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Antiqua, West Indies	215
C14	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Ascension Islands, South Atlantic	216
C15	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Beale Air Force Base, California	217
C16	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Bien Hoa Air/Depot, Vietnam	218
C17	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Cannon Air Force Base, New Mexico	219
C18	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Carswell Air Force Base, Texas	220
C19	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Chambley Air Base, France	221
C20	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Charleston Air Force Base/Municipal, South Carolina	222
C21	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Clark Air Base, Philippines	223
C22	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Classified	224

TABLES continued

TABLE	PAGE
C23	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Clinton-Sherman Air Force Base, Oklahoma 225
C24	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Dallas Love Field, Texas 226
C25	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Danang Air Base, Vietnam 227
C26	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Dobbins Air Force Base/Naval Air Station, Georgia 228
C27	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Don Muang Air Depot, Bangkok, Thailand 229
C28	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Dover Air Force Base, Delaware . . . 230
C29	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Edwards Air Force Base, California . . 232
C30	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Elmendorf Air Force Base, Alaska . . 233
C31	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Forbes Air Force Base, Kansas 234
C32	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Ft. Smith Municipal, Arkansas 235
C33	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Goose Bay, Labrador 236
C34	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Greater Southwest International, Texas . 237
C35	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Hickam Air Force Base, Hawaii 238

TABLES continued

TABLE	PAGE
C36	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Hill Air Force Base, Utah 239
C37	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Hunter Air Force Base, Georgia 240
C38	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Kadena Air Base, Okinawa 241
C39	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Kelly Air Force Base, Texas 242
C40	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Kimpo International Airport, Seoul, Korea 243
C41	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Kindley Air Force Base, Bermuda 244
C42	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Lajes Air/Depot, Azores 245
C43	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Lakehurst Naval Air Station, New Jersey 246
C44	Distribution of Ground Load Factors by Mission Phase for Data Acquired at March Air Force Base, California 247
C45	Distribution of Ground Load Factors by Mission Phase for Data Acquired at McChord Air Force Base, Washington . 248
C46	Distribution of Ground Load Factors by Mission Phase for Data Acquired at McClellan Air Force Base, California . 249
C47	Distribution of Ground Load Factors by Mission Phase for Data Acquired at McConnell Air Force Base, Kansas . . . 250
C48	Distribution of Ground Load Factors by Mission Phase for Data Acquired at McCoy Air Force Base, Florida 251
C49	Distribution of Ground Load Factors by Mission Phase for Data Acquired at McGuire Air Force Base, New Jersey . 252

TABLES continued

TABLE	PAGE
C50	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Minneapolis-St. Paul International, Minnesota 253
C51	Distribution of Ground Load Factors by Mission Phase for Data Acquired at New Orleans Naval Air Station, Louisiana 254
C52	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Niagara Falls Municipal, New York . . . 255
C53	Distribution of Ground Load Factors by Mission Phase for Data Acquired at North Island Naval Air Station, California 256
C54	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Patrick Air Force Base, Florida. . . . 256
C55	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Pittsburgh-Monroeville, Pennsylvania . 257
C56	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Pleiku Air/Depot, Vietnam 258
C57	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Point Mugu Naval Air Station, California 259
C58	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Randolph Air Force Base, Texas. . . . 260
C59	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Rhein Main Air/Depot, Germany. . . . 261
C60	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Richards-Gebaur Air Force Base, Missouri 262
C61	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Robins Air Force Base, Georgia. . . . 263
C62	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Saigon, Tan Son Nhut Air Depot, Vietnam 264

TABLES continued

TABLE	PAGE
C63	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Scott Air Force Base, Illinois 265
C64	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Sheppard Air Force Base, Texas 266
C65	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Tainan Air/Depot, Taiwan, Formosa 267
C66	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Takhli Air/Depot, Thailand 268
C67	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Tinker Air Force Base, Oklahoma 269
C68	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Travis Air Force Base, California 271
C69	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Tulsa International, Oklahoma 273
C70	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Ubon Air/Depot, Thailand 274
C71	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Wake Airport, Wake Island 275
C72	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Wheelus Air Base, Libya 276
C73	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Whiteman Air Force Base, Missouri 276
C74	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Wilkes-Barre-Scranton, Pennsylvania 277
C75	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Wright-Patterson Air Force Base, Ohio 278
C76	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Yokota Air Base, Japan 279

TABLES continued

TABLE		PAGE
C77	Distribution of Ground Load Factors by Mission Phase for Data Acquired at Youngstown Municipal, Ohio	281
D1	List of Routes Over Which Atmospheric Turbulence Study Data was Acquired	284
D2	Distributions of Derived Vertical Gust Velocity for All Routes Combined	293
D3	Distributions of Derived Vertical Gust Velocity for the Route Between Tinker Air Force Base, Oklahoma and Travis Air Force Base, California	302
D4	Distributions of Derived Vertical Gust Velocity for the Route Between Travis Air Force Base, California and Kelly Air Force Base, Texas	305
D5	Distributions of Derived Vertical Gust Velocity for the Route Between Travis Air Force Base, California and Dover Air Force Base, Delaware	309
D6	Distributions of Derived Vertical Gust Velocity for the Route Between Travis Air Force Base, California and Charleston Air Force Base/Municipal, South Carolina	313
D7	Distributions of Derived Vertical Gust Velocity for the Route Between Travis Air Force Base, California and McGuire Air Force Base, New Jersey	317
D8	Distributions of Derived Vertical Gust Velocity for the Route Between Travis Air Force Base, California and Hickam Air Force Base, Hawaii	320
D9	Distributions of Derived Vertical Gust Velocity for the Route Between Travis Air Force Base, California and Wake Airport, Wake Island	329
D10	Distributions of Derived Vertical Gust Velocity for the Route Between Travis Air Force Base, California and Yokota Air Base, Japan	338

TABLES continued

TABLE		PAGE
D11	Distributions of Derived Vertical Gust Velocity for the Route Between Kelly Air Force Base, Texas and Elmendorf Air Force Base, Alaska	345
D12	Distributions of Derived Vertical Gust Velocity for the Route Between Kelly Air Force Base, Texas and Dover Air Force Base, Delaware	350
D13	Distributions of Derived Vertical Gust Velocity for the Route Between Elmendorf Air Force Base, Alaska and Dover Air Force Base, Delaware	352
D14	Distributions of Derived Vertical Gust Velocity for the Route Between Elmendorf Air Force Base, Alaska and Charleston Air Force Base/Municipal, South Carolina	357
D15	Distributions of Derived Vertical Gust Velocity for the Route Between Elmendorf Air Force Base, Alaska and McGuire Air Force Base, New Jersey	361
D16	Distributions of Derived Vertical Gust Velocity for the Route Between Elmendorf Air Force Base, Alaska and Laurence G. Hanscom Field, Massachusetts	363
D17	Distributions of Derived Vertical Gust Velocity for the Route Between Elmendorf Air Force Base, Alaska and Yokota Air Base, Japan	365
D18	Distributions of Derived Vertical Gust Velocity for the Route Between Dover Air Force Base, Delaware and Charleston Air Force Base/Municipal, South Carolina	372
D19	Distributions of Derived Vertical Gust Velocity for the Route Between Dover Air Force Base, Delaware and Chateauroux Air Base, France	377
D20	Distributions of Derived Vertical Gust Velocity for the Route Between Charleston Air Force Base/Municipal and Torrejon De Ardoz Air Base, Spain	379

TABLES continued

TABLE		PAGE
D21	Distributions of Derived Vertical Gust Velocity for the Route Between McGuire Air Force Base, New Jersey and Rhein Main Air/Depot, Germany	382
D22	Distributions of Derived Vertical Gust Velocity for the Route Between Hickam Air Force Base, Hawaii and Wake Airport, Wake Island	387
D23	Distributions of Derived Vertical Gust Velocity for the Route Between Hickam Air Force Base, Hawaii and Clark Air Base, Philippines	393
D24	Distributions of Derived Vertical Gust Velocity for the Route Between Hickam Air Force Base, Hawaii and Anderson Air Base, Guam	399
D25	Distributions of Derived Vertical Gust Velocity for the Route Between Hickam Air Force Base, Hawaii and Yokota Air Base, Japan	405
D26	Distributions of Derived Vertical Gust Velocity for the Route Between Wake Airport, Wake Island and Clark Air Base, Philippines	408
D27	Distributions of Derived Vertical Gust Velocity for the Route Between Wake Airport, Wake Island and Saigon Tan Son Nhut Air/Depot, Vietnam	416
D28	Distributions of Derived Vertical Gust Velocity for the Route Between Clark Air Base, Philippines and Anderson Air Base, Guam	419
D29	Distributions of Derived Vertical Gust Velocity for the Route Between Clark Air Base, Philippines and Yokota Air Base, Japan	424
D30	Distributions of Derived Vertical Gust Velocity for the Route Between Clark Air Base, Philippines and Saigon, Tan Son Nhut Air/Depot, Vietnam	433

TABLES concluded

TABLE		PAGE
D31	Distributions of Derived Vertical Gust Velocity for the Route Between Yokota Air Base, Japan and Saigon, Tan Son Nhut Air/Depot, Vietnam	441
D32	Distributions of Derived Vertical Gust Velocity for the Route Between Kadena Air Base, Okinawa and Saigon, Tan Son Nhut Air/Depot, Vietnam	449
D33	Distributions of Derived Vertical Gust Velocity for the Route Between Torrejon De Ardoz Air Base, Spain and Dhahran Air/Depot, Saudi Arabia	454
D34	Distributions of Derived Vertical Gust Velocity for the Route Between Don Muang Air/Depot, Bangkok, Thailand and New Delhi/Palam Air/Depot, India	457

SECTION I

INTRODUCTION

This is the final report for the C-141A Aircraft Flight Loads Data Program. Included in this report are descriptions of the various aspects and phases of the program and a presentation and discussion of the resulting data. The various aspects include: design, fabrication, and installation of the instrumentation and recording systems; the acquisition of data; and the reduction and analysis of C-141A aircraft structural load history and atmospheric turbulence data.

1.1 OBJECTIVES

The basic objective of the C-141A Aircraft Flight Loads Data Program was to obtain structural load history information for the C-141A force at an early date in the life of these aircraft and to investigate the atmospheric turbulence environment along worldwide Military Airlift Command, MAC, routes. This program was a single project which incorporated four separate phases: an Interim Flight Loads Program, a Ground Loads Study, a Lead-the-Force Flight Loads Program, and an Atmospheric Turbulence Study.

1.1.1 Interim Flight Loads Program

The Interim Flight Loads Program (IFL) was designed to obtain information used to determine cyclic loads and stresses applied to the aircraft structure during operational usage. This phase of the C-141A Flight Loads Data Program was conducted primarily to obtain data which would assist fatigue analysis personnel in the validation of the predicted flight loads spectra for the C-141A cyclic tests and in prediction of the structural service life expectancy of C-141A fleet aircraft. Further, these data may be used in the establishment of inspection and retrofit schedules, in aircraft rotation planning, and for technical guidance in the planning of new mission concepts.

1.1.2 Ground Loads Study

The C-141A aircraft Ground Loads Study (GLS) was designed to provide the Air Force with a sample of ground load experience data obtained during operational use of the C-141A aircraft. This information will be utilized for the verification of ground loads spectra employed in the aircraft fatigue analysis and cyclic test.

1.1.3 Lead-the-Force Flight Loads Program

The C-141A Lead-the-Force Program, sponsored by Headquarters Military Airlift Command, MAC, is utilizing six C-141A aircraft which are flying at an accelerated rate compared to the remainder of the C-141A fleet. The primary purpose of this program is the early authentication of logistic planning elements and the identification of problem areas before the remaining fleet experiences them. It will verify and validate the results of the functional simulator test efforts, investigate sonic fatigue, and expedite fixes and necessary modifications.

The Lead-the-Force phase of this flight loads program (LTF) was designed to acquire operational flight load history information on the LTF aircraft. This information was acquired for the purpose of determining if the LTF aircraft have experienced an operational load history similar to the remainder of the fleet but at an accelerated rate. This will be accomplished by correlating LTF data with IFL data.

1.1.4 Atmospheric Turbulence Study

The Atmospheric Turbulence Study, sponsored by Headquarters MAC Air Weather Service, was conducted as a companion effort with the Interim Flight Loads Program. This study was designed to obtain data which will contribute to the climatology of turbulence over MAC routes and also provide information which will enable meteorologists to study the association of turbulence with weather patterns. In general, this investigation was conducted to assist AWS in improving weather forecasting capabilities.

1.2 PROGRAM SUMMARY

The aircraft employed in the C-141A Aircraft Flight Loads Data Program were located at Charleston, Dover, Tinker and Travis Air Force Bases. A total of from 28 to 35 were utilized at various periods during this program to obtain flight load history data. Eight aircraft were employed for the acquisition of ground load experience data.

The primary instrumentation in those aircraft employed to obtain flight load history data was an oscillograph recording system, two pressure transducers, and an accelerometer mounted at the nominal center of gravity of the aircraft. These transducers were used to obtain time history measurements for the determination of airspeed (V), center of gravity normal load factor (G), and pressure altitude (H). The six LTF aircraft were instrumented for the acquisition of VGH data. From 22 to 29 additional C-141A aircraft

were employed for VGH data recording for the IFL phase of this program. In addition to the VGH instrumentation, all of the IFL aircraft, except those at Tinker Air Force Base, had turbulence indicator switches installed to provide a means for correlating the derived vertical gust velocity data with the atmospheric conditions encountered during flight.

The eight aircraft utilized to acquire ground load experience data, the GLS aircraft, were instrumented with an oscillograph recording system and an accelerometer to obtain a time history measurement of center of gravity load factor (G).

All of the aircraft employed in this program had additional electrical circuits installed for recording system control, to provide indications of the occurrence of various mission events, and for monitoring the performance of the recording system.

A total of 7,602 hours of VGH data was acquired on the Lead-the-Force aircraft over the data acquisition period. During this same period, 6,781 hours of VGH data was obtained in the Interim Flight Loads phase. Concurrently with the acquisition of IFL flight loads data, a total of 4,932 hours of Atmospheric Turbulence Study data was recorded. A total of 196.5 hours of ground load factor experience data was obtained in the Ground Loads Study.

Samples of 6,076 and 6,354 flight hours of VGH data were reduced and analyzed for the LTF and IFL efforts, respectively. A total of 4,561 hours of turbulence study data was reduced for the Atmospheric Turbulence Study. A total of 175 hours of ground load factor experience data was reduced and analyzed on the GLS phase of this program.

Work on the C-141A Aircraft Flight Loads Data Program contract was initiated by UDRI on the 19th of July 1965. Instrumentation installation for the IFL, Atmospheric Turbulence Study, and LTF recording efforts began in August of 1965 at Tinker and Travis Air Force Bases. By mid-September, 1965, the instrumentation of the aircraft at these bases was completed, and the recording effort was initiated. In mid-November instrumentation installation began at Charleston and Dover Air Force Bases for the IFL, turbulence study, and LTF phases of this program. Recording of data at these two bases began in January, 1966. The data acquisition efforts for the flight loads phases of this program were terminated on the 15th of September 1966. Thus, at Tinker and Travis Air Force Bases the duration of the flight loads data acquisition period was 12 months, while at Charleston and Dover Air Force Bases the duration was 8 months.

In February, 1966, the C-141 SPO initiated a request for the measurement of ground load factor experience data on eight C-141A aircraft.

Instrumentation in six of the IFL aircraft was modified and two additional aircraft were instrumented for the acquisition of ground loads data. The Ground Loads Study instrumentation installation began in late March, 1966 and was completed in mid-April at which time the recording of data began. The data acquisition requirements for the Ground Loads Study were completed by the 4th of August 1966. Thus the duration of the data acquisition period for the GLS phase of this program was 3 1/2 months.

The distribution of the instrumentation installations for the C-141A program by phase and Air Force Base is presented in Table 1.

TABLE 1
Distribution of Instrumentation Installations

	Prior to April 1966		After April 1966		
	LTF	IFL*	LTF	IFL*	GLS
Charleston AFB	1	7	1	7	-
Dover AFB	1	8	1	7	4
Tinker AFB	2	6	2	4	2
Travis AFB	2	8	2	4	2
Totals	6	29	6	22	8

* All of the IFL aircraft except those at Tinker Air Force Base had turbulence indicator switches installed for the AWS turbulence study.

The first phases of the overall data reduction effort were initiated in late September 1965. The final data tabulations were composited on 8 December 1966.

1.3 DESCRIPTION OF THE AIRCRAFT

The C-141A aircraft, manufactured by the Lockheed-Georgia Company, is a long-range, high-speed, high-altitude aircraft designed for use as a heavy logistic transport. This high sweptwing aircraft is designed to carry

various types of cargo as well as fully assembled missiles in the cargo compartment. It also has an aerial delivery system capability. The C-141A aircraft is powered by four Pratt and Whitney turbofan jet engines that are equipped with target-type thrust reverser doors which are used to assist in decelerating the aircraft on the ground. Aircraft deceleration, both in flight and on the ground, is augmented by upper and lower wing surface spoilers.

In Figure 1 is presented a photograph of a C-141A aircraft. A schematic drawing of the aircraft which includes some of the overall airframe dimensions is shown in Figure 2. In Table 2 is presented some of the design criteria for the C-141A aircraft. The maximum symmetrical flight maneuver load factor for this aircraft is 2.5g, 2.0g under 80 percent restrictions.

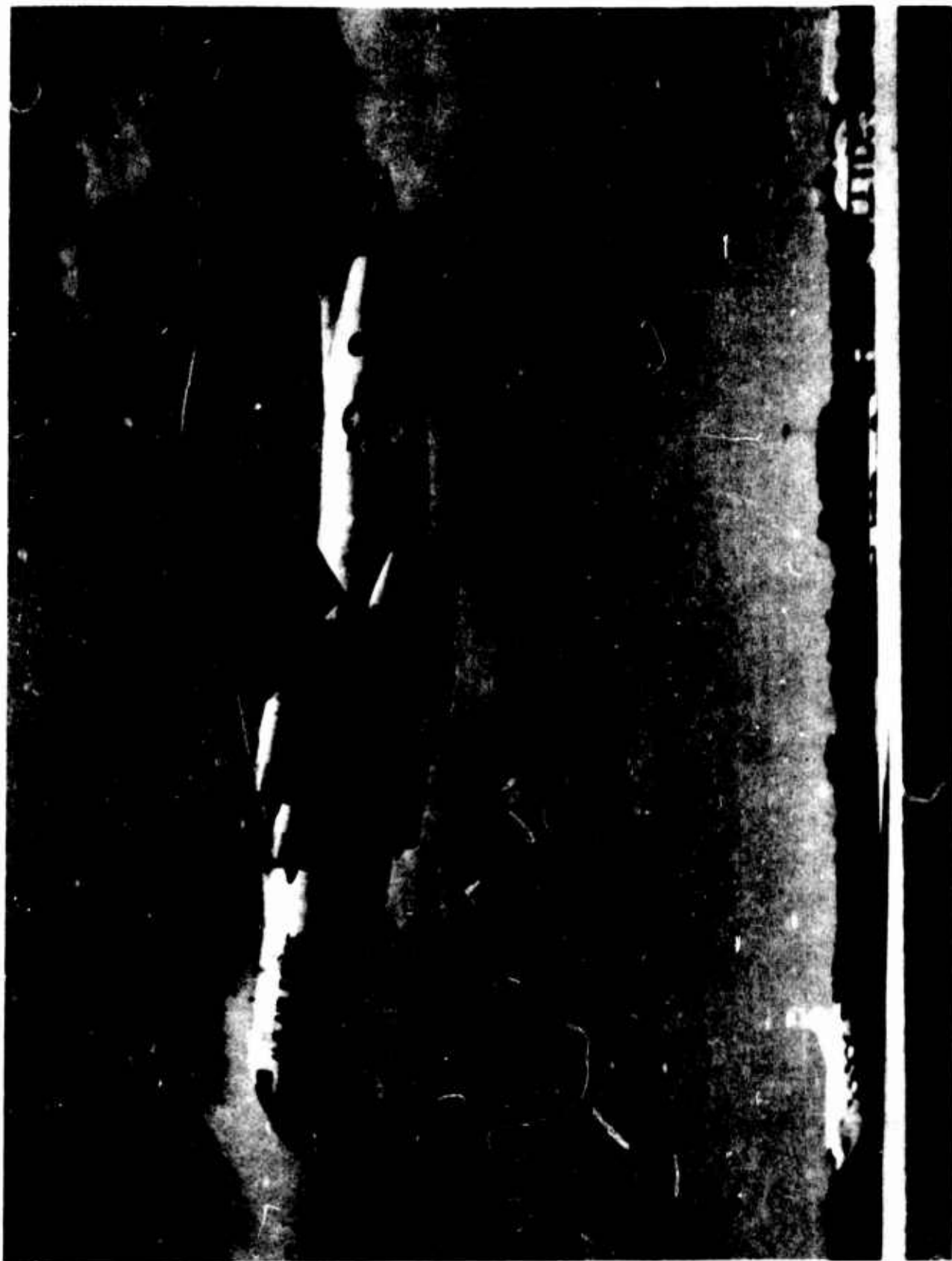
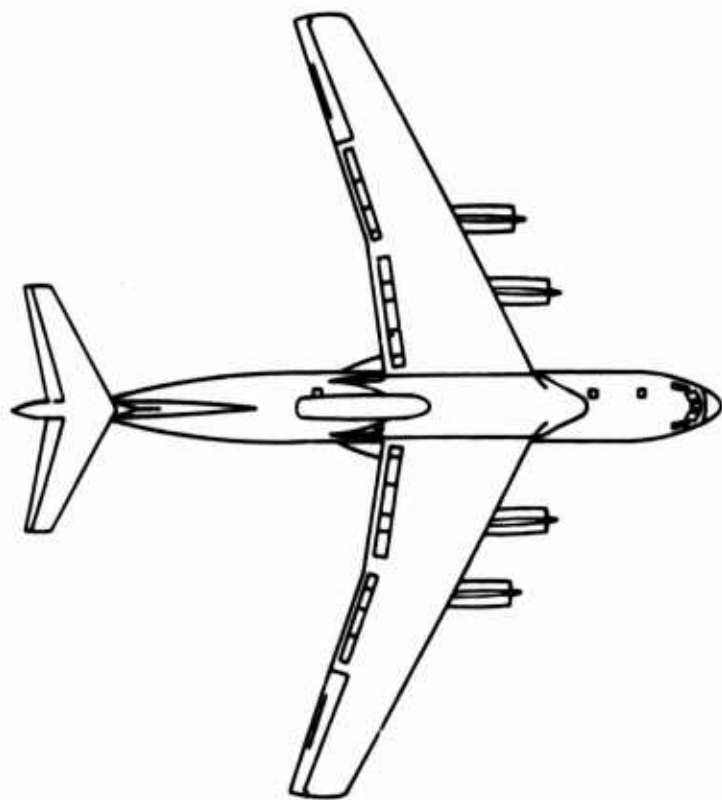


Figure 1. Photograph of C-141A Aircraft



WING AREA - 3228 FT²
WING SWEEP AT .25 CHORD - 25 DEGREES
MAC - 266.47 INCHES
ENGINES : FOUR P&W TF33-P-7, RATED
AT 21,000 LB. THRUST EACH

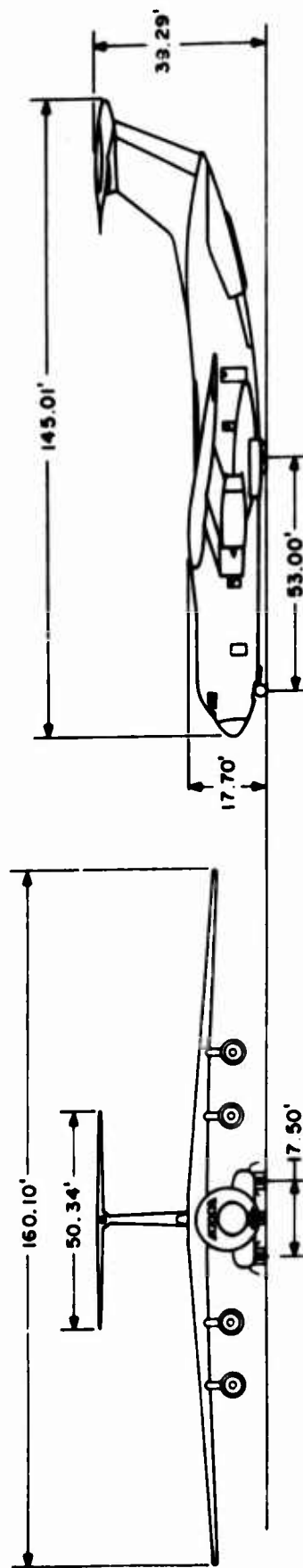


Figure 2. Schematic Drawing of C-141A Aircraft

TABLE 2
C-141A Aircraft Design Criteria

Design Weights

Maximum Ramp Weight -----	318,000 lb.
Maximum Ramp Fuel Weight -----	150,020 lb.
Maximum Flight Weight -----	316,000 lb.
Maximum Flight Fuel Weight -----	148,120 lb.
Maximum Landing Weight -----	316,100 lb.
(6 ft. /sec. Sink Speed)	
Normal Landing Weight -----	257,000 lb.
(10 ft. /sec. Sink Speed)	
Maximum Zero Fuel Weight -----	204,620 lb.
Maximum Design Cargo Weight -----	70,000 lb.

Design Speeds

Limit -----	410 KCAS to 21,000 ft or M = .89
Maximum Level Flight -----	350 KCAS to 25,000 ft or M = .825
Rough Air Penetration Speed -----	270 KCAS to 36,800 ft or M = .825
Spoiler Placard - (Rough Air) ---	270 KCAS to 32,300 ft or M = .750
Spoiler Placard -----	350 KCAS to 19,800 ft or M = .750
Landing Gear Operation -----	200 KCAS to 24,200 ft or M = 0.480
Landing Gear Extended -----	235 KCAS to 23,200 ft or M = 0.550
T. O. Flap -----	200 KCAS to 24,200 ft or M = 0.480
Landing Flap -----	185 KCAS to 24,700 ft or M = 0.450

Speeds Under 80% Placards

Limit -----	410 KCAS to 21,000 ft or M = .890
Maximum Level Flight -----	290 KCAS to 33,700 ft or M = .825
Rough Air Penetration -----	225 KCAS to 44,500 ft or M = .825
Spoilers (Rough Air) -----	225 KCAS to 40,000 ft or M = .750
Spoilers -----	290 KCAS to 29,000 ft or M = .750
T. O. & Landing Flap -----	185 KCAS

SECTION II

INSTRUMENTATION AND RECORDING SYSTEMS

A complete and detailed description of the instrumentation and recording systems employed in this program is described in Reference 1. A brief discussion of the pertinent features of these systems is presented here in order to assist the reader in evaluating the resulting data. The instrumentation and recording system installation locations are schematically shown in Figure 3.

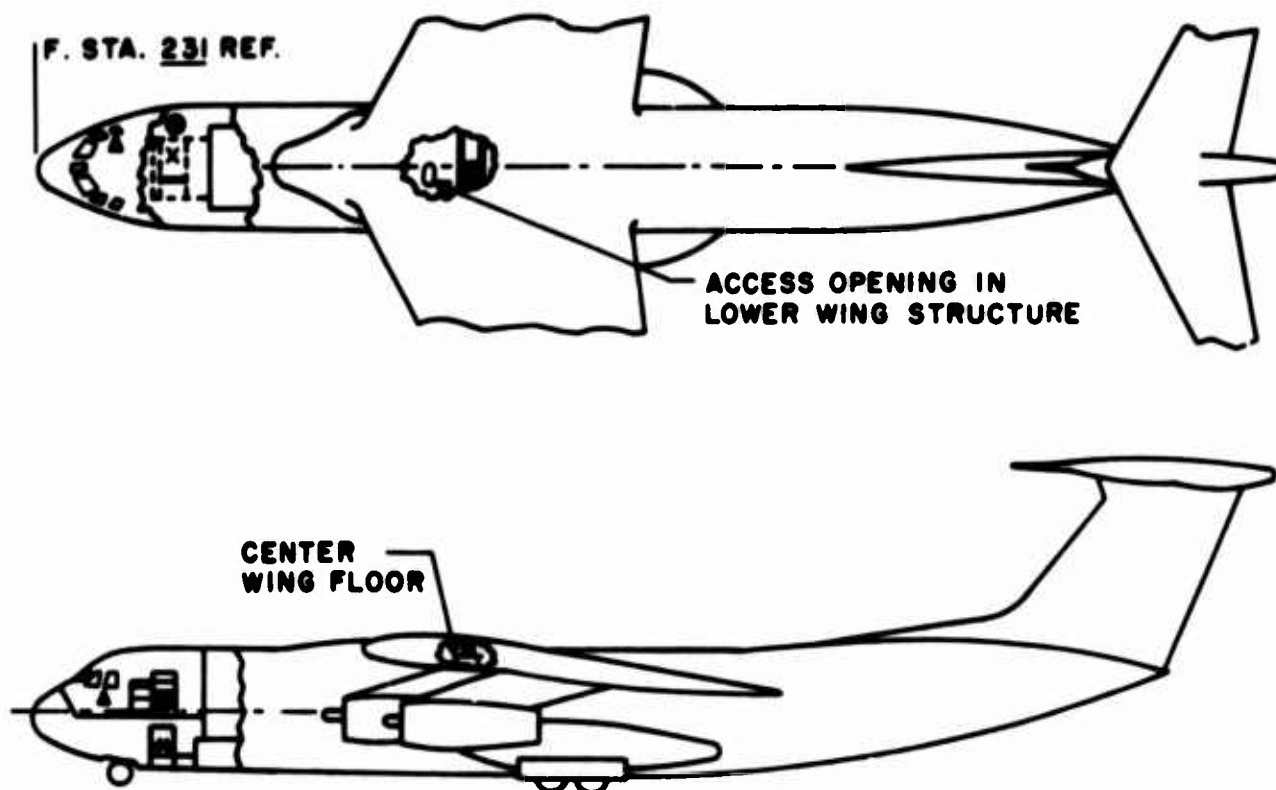
2.1 FLIGHT LOADS INSTRUMENTATION

The VGH instrumentation and recording systems installed in the LTF and IFL aircraft were identical. To determine aircraft airspeed (V) and altitude (H), the dynamic and static pressure histories of each flight were recorded by use of a differential pressure transducer and an absolute pressure transducer, respectively. Both of these units were unbonded-strain-gage, diaphragm-type transducers which received pressure inputs from the co-pilot instrument pressure system. The differential pressure transducer yielded an electrical output proportional to the difference between the pitot and static pressures, i. e., the dynamic pressure, and the absolute pressure transducer yielded an electrical output proportional to the static pressure. The pressure transducers were mounted in the avionics compartment immediately aft of the FAA flight data recorder.

An accelerometer having a bonded strain-gage-type sensing element was employed to obtain a time history of normal load factor (G) at the nominal center of gravity of the aircraft. The accelerometer was installed near the fuselage centerline in the center wing box at Fuselage Station 925.

2.2 GROUND LOADS INSTRUMENTATION

Each GLS aircraft was instrumented with an accelerometer at the nominal center of gravity of the aircraft. The accelerometer was employed to obtain a time history of normal load factor during taxi, take-off, and landing of the aircraft. The accelerometers employed in the GLS phase were of the same type and installed in the same manner as those used in the acquisition of VGH data. The response characteristics of these accelerometers were sufficient to accurately record load factor data at all frequencies encountered during aircraft ground operations as well as during flight.



INSTRUMENT DESIGNATION	APPROXIMATE FUSELAGE STATION
■ ACCELEROMETER	925
X AIRSPEED AND ALTITUDE TRANSDUCERS	410
▲ TURBULENCE INDICATOR SWITCH	300
- RECORDER	410
● VGH CIRCUIT BREAKER	406

Figure 3. Schematic Illustrating Instrumentation and Recording System Locations

In order to assist in the interpretation and reduction of the GLS data, the position of one of the aircraft touch-down relays and the output of one of the anti-skid detectors were recorded. The data from the anti-skid detector provided a continuous history of aircraft ground speed which was monitored to determine the times at which the aircraft was standing still, taxiing, or taking-off. For this program, those durations during which the ground speed was less than 20 knots were defined as the Taxi mission phase. The position of the aircraft touch-down relay was monitored to facilitate the determination of the time of lift-off or touch-down during data reduction.

2.3 TURBULENCE INDICATOR SWITCH

In order to accomplish the objectives of the AWS Atmospheric Turbulence Study, turbulence indicator switches were installed on the co-pilots side console in those aircraft instrumented for the Interim Flight Loads Program at Charleston, Dover, and Travis Air Force Bases. This switch provided for an electrical signal, which identified the switch position, to be recorded. The VGH data acquired was thus identified by the position of the switch (Storm or Non-Storm) which indicated the nature of turbulence being encountered. The switch was monitored during flight by the aircraft co-pilot according to criteria established by MAC Air Weather Service. These criteria are discussed in Section 3.4

2.4 RECORDING SYSTEM

The recording systems employed throughout the course of this program were comprised of three-channel bridge balance units and oscillograph recorders.

The functions of the bridge balance units were to provide a means for: adjusting input voltage and balancing the various bridge circuits; obtaining resistance calibration; obtaining event indications; and for providing power for the recorder and the various electrical bridges.

Century Electronics, Inc. Model 409H, oscillograph recorders were employed in this program. This recorder is a fourteen-channel instrument which utilizes light beam galva. meters to record on 3-5/8-inch-wide photo-sensitive paper film. The recorders employed in the VGH phases of this program were operated at a film speed of 6 inches per minute. A film speed of 24 inches per minute was used for the Ground Loads Study phase of this effort. The higher film speed was employed for the GLS phase to facilitate the visual resolution of the higher frequency load factor data encountered during aircraft ground operations.

The drive systems of the oscillograph recorders employed in the IFL and LTF programs were actuated by one of the aircraft's touch-down relays. Thus, data was acquired from lift-off to touch-down. The recorders used in the GLS phase were actuated by relays of the pressure door and landing gear position indicator circuits. The recorder operated from closing of pressure doors until the main landing gear was retracted and locked. During training missions, the entire touch-and-go segment of the mission was conducted with the landing gear extended. To conserve oscillograph film at Tinker AFB where a majority of the flights were training missions, a manual switch to turn on and off the recorder was installed on the flight engineer's console.

In all aircraft the recording system was mounted in the avionics compartment on the center equipment rack aft of the FAA flight data recorder.

Both 100-foot and 400-foot oscillograph magazines were employed during this effort. At a film speed of 6 inches per minute the 100-foot magazines, utilizing 150-foot rolls of thin base oscillograph paper, provided a continuous recording capability of approximately 5 hours. At this film speed the 400-foot magazines provided approximately 13 hours of continuous recording capability.

SECTION III

DATA PROCESSING TECHNIQUES AND CRITERIA

This C-141A flight loads program required the reduction of the recorded data into frequency distributions of peak normal load factor, N_z , and peak derived vertical gust velocity, U_{d_0} . It was required that these data be coded in such a manner that they could be sorted and presented by any combination of a number of flight or mission parameters.

3.1 DATA PROCESSING TECHNIQUES

The data reduction system employed for this program was one which has been developed and proven by the University of Dayton Research Institute over the course of many years on a number of similar flight loads programs. This system utilizes an editing section, a manual data reduction section, a semi-automatic data reading section, a digital computer, and a quality control section. The overall objective of the manual and semi-automatic efforts was the preparation of the data into the form in which it was automatically reduced and analyzed. The actual reduction, classification, sorting, and storage of the data was accomplished by the computer.

3.1.1 Editing Section

The function of the data editing section was to monitor the quality of the instrumentation systems, evaluate the quality and completeness of the raw data, scan all oscillograph records for evidence of unusual flight conditions or of the effects of changes in aircraft utilization, and to specify which portions of the data were to be processed.

All oscillograph records were first reviewed to insure that the instrumentation system was functioning properly and that the traces were of the proper intensity and sensitivity for data reduction. If a need for instrumentation corrective action was suspected, the necessary data was immediately supplied to the instrumentation engineers.

After the quality of the oscillograph data was assured and the completeness of the supplementary data was checked the general nature of the flight was evaluated and the presence of unusual occurrences were noted and recorded. This supplementary data, generated on various forms by the flight crew and UDRI field representatives, included the fuel utilization history, a brief description of the mission, and identification of the instrumentation employed. The final stage in the editing of the data was to establish which portions of the recorded data were to be processed.

3. 1. 2 Manual Data Reduction Section

The functions of the manual data reduction section were: to prepare the oscillograph data for semi-automatic reading; to prepare the data for computation; and to check the results of both of these efforts.

The initial preparation of the oscillograph chart included a number of manual operations prior to the digitizing of the data. The mean position of the normal load factor trace was established throughout the oscillograph record, and load factor peaks were marked. The times at which the aircraft changed from one mission phase to another and the times at which the turbulence switch position changed were recorded. All of the above operations were checked independently by a data processing technician other than the technician who initially performed the operation.

During the second phase of the manual data reduction operation, the data reduction control information was assembled and transcribed onto punched cards. This control information included calibration data, aircraft weight and fuel expenditure information, historical parameters as a function of time, and other control information. This information was merged and tabulated with the digitized time history data for the flight. The tabulated data was checked against the raw data for completeness, accuracy, and proper format.

Following computation and reduction of the data in an IBM 7094 computer, the reduced data in the form of computer output tabs were returned to the manual data reduction section for final inspection. The purpose of this inspection was to locate any errors in format which might have occurred, to check unusual trends, to verify the magnitudes and distributions of the parameters, and to compare the computed airspeed, altitude, and weight histories with the flight log data. All acceptable and approved data was then permanently stored on magnetic tape.

3. 1. 3 Semi-Automatic Data Reading Section

The oscillograph records were read and digitized using Benson Lehner OSCAR's equipped with an IBM 024 keypunch. The OSCAR was utilized to measure the displacement of an oscillograph trace from a reference line. In reading the data, the machine operator manually aligns two hair lines on the point to be measured and presses a button. The machine then automatically digitizes the displacement value and punches the value into a card. The operator also used the keypunch to punch identifying information into the cards for use in computing and sorting. For this C-141A flight loads program, the OSCAR's were set to read the oscillograph trace displacements to a resolution of 1/200 inch.

3.1.4 Computer

The IBM 7094 electronic digital computer, located at Wright-Patterson Air Force Base, was used on this program for the reduction, analysis, and compilation of the data. In addition to performing the specified calculations and coding of the data, the computer programs provided for checks of the data by comparing computer values with the normal operating ranges and the performance limitations of the C-141A aircraft. Values or combinations of parameters such as gross weight, altitude, and Mach number which were near the limits or exceeded the normal operating range of the aircraft were noted on the computer output. This data was manually checked to insure accuracy. High or low values of load factor or derived vertical gust velocity also were noted and later were compared manually with the oscillograph trace.

3.1.5 Quality Control

In the interpretation and processing of the data from the oscillograph traces, significant errors can be introduced at three stages: during measurement of pre-flight calibration data, during establishment of the position of the 1.0 g mean line throughout the record, and during the digitizing of the load factor trace. The first two of these operations were accomplished manually and then were independently checked and verified. Thus, errors introduced during these operations were within an individual's capability to read a scale accurately.

The third major source of error was in the reading and digitizing of the oscillograph data on the Benson-Lehner OSCAR's. In order to maintain these reading errors within acceptable limits, statistically determined samples of the data were selected for checking, and the mean and standard deviation of the errors was determined. If either the mean or the standard deviation of the reading errors for a given sample exceeded specified limits, the flight record was returned to be reread. Before a record was reread, an explanation of the reason for rejection was also given to the reader who had read the record initially. The quality control section maintained a continuous record of the progress of each OSCAR operator in order to monitor his performance and accuracy.

3.2 FLIGHT LOADS CRITERIA

The data reduction and analysis techniques employed in the Interim Flight Loads and Lead-the-Force Flight Loads phases of this program were identical. These techniques are discussed in this section.

3.2.1 Peak Criteria

The aircraft nominal center of gravity load factor history was reduced into peak count form. A peak was defined as the maximum excursion of the load factor trace between successive trace crossings of either of the threshold limits. Peak values of load factor within the threshold interval were considered to be insignificant and were not to be reduced. The threshold interval for those peaks which were the result of loads induced by atmospheric turbulence was $0.9 < N_z < 1.1$. The threshold interval for load factor peaks resulting from pilot induced, maneuver, loads was $0.8 < N_z < 1.2$.

The load factor peaks caused by atmospheric gusts were identified by the following criteria:

- (a) airspeed trace was rough,
- (b) load factor trace was rough, and peaks were sharp and irregular
- (c) peak exhibited a rapid rise and exponential decay, and
- (d) duration of peak was less than two seconds.

A load factor peak was identified as a maneuver peak when the peak:

- (a) did not meet gust peak criteria,
- (b) exhibited smooth, long-duration shape,
- (c) corresponded with a change in altitude or airspeed, and
- (d) duration exceeded two seconds.

3.2.2 Flight Parameters

Each reduced load factor peak and the corresponding discrete value of derived vertical gust velocity was categorized by data block and mission phase. A data block is a flight condition defined by the combination of one class interval each of gross weight (W), pressure altitude (H), and equivalent airspeed (A). The time and air distance traveled during each data block was also computed and coded. Pressure altitude and equivalent airspeed were calculated utilizing the dynamic and static pressure trace readings taken at sufficiently short time intervals to reasonably satisfy the assumption of constant airspeed and altitude over the interval.

The aircraft gross weight was determined at the same times as altitude and airspeed. The gross weight was calculated utilizing initial aircraft weight data and actual fuel expenditure information obtained from logs prepared by the flight engineers during each flight. The time durations between gross weight determinations were sufficiently short to insure that weight changes during the interval were small.

The mission phases used to segment the various aspects of each flight were:

- (1) First Climb
- (2) Second Climb
- (3) First Cruise
- (4) Second Cruise
- (5) First Descent
- (6) Second Descent
- (7) Low Level - Prior to Air Drop
- (8) Low Level - Subsequent to Air Drop
- (9) Air Drop

The Second Climb, Second Cruise, and Second Descent mission phases applied to the climb, cruise, and descent segments which followed the air drop phase of a logistics drop mission. Low level as applied to mission phases (7) and (8) referred to altitudes of 1,500 feet and below.

3.2.3 Mission Parameters

The mission parameters by which the reduced data distributions were coded are listed below.

- (a) Aircraft tail number
- (b) Date of flight
- (c) Season of the year:
 - (1) Winter - December through February
 - (2) Spring - March through May
 - (3) Summer - June through August
 - (4) Fall - September through November
- (d) Air Force Base (Base to which aircraft was assigned):
 - (1) Tinker Air Force Base, Oklahoma
 - (2) Travis Air Force Base, California
 - (3) Dover Air Force Base, Delaware
 - (4) Charleston Air Force Base, South Carolina
- (e) Route Flown
- (f) Type of Mission:
 - (1) Logistics, Medium Range
 - (2) Logistics, Long Range
 - (3) Training
 - (4) Logistics Drop, Short Range
 - (5) Miscellaneous Air Drop
 - (6) Flight Test
 - (7) Airborne Training

The coding of the reduced data sample by route flown was accomplished using major route segments. For example, a flight from Travis Air Force Base to Wake Island which stopped at Hickam Air Force Base would constitute two major route segments: Travis to Hickam and Hickam to Wake. The data acquired over each segment was identified by the route flown code for that segment.

The profiles of the types of mission listed above correspond to mission profiles employed by Lockheed-Georgia Company in fatigue analyses of the C-141A aircraft (See Reference 2). A total of eleven mission profiles were utilized in the fatigue analyses and were coded for data reduction. However, the seven types of mission listed above were the only ones encountered during this effort. The determination of the type of mission for each recorded flight was based upon the comparison of each flight's mission profile with those presented in Reference 2.

The data samples to be reduced and analyzed were selected from the recorded data sample in order to provide a representative sample of service usage, particularly with respect to mission mix. Insofar as was practical, the amount of reduced data for each month of the year was equal.

3.2.4 Derived Vertical Gust Velocity

The derivation of the equation for derived vertical gust velocity, U_{de} , in terms of various aircraft flight and performance parameters, aircraft geometry, and gust factor is presented in Reference 3. This equation is also presented in Reference 4. The form of the U_{de} equation employed after substitution of the C-141A aircraft geometric constants, substitution of the subsonic gust factor, and upon rearrangement was

$$U_{de} = \frac{\Delta n}{V_t} \left[4279.138 \sqrt{\sigma} + 0.0051698 \frac{W}{m \sqrt{\sigma}} \right]$$

where

U_{de} = derived vertical gust velocity, ft/sec,

V_t = true airspeed, ft/sec,

W = aircraft gross weight, lb,

σ = ratio of local air density to standard or sea level air density,

Δn = incremental normal load factor, g's, and

m = slope of lift curve, per degree.

The slope-of-the-lift curve data employed in this program was based on the clean configuration of the C-141A aircraft. This data was obtained

as a function of Mach number from data generated by the Lockheed-Georgia Company. The slope-of-the-lift curve for 35 percent flaps is as much as 15% greater than that for the clean configuration. However, since the flap and spoiler positions were not recorded, the University was directed to use the clean configuration lift data throughout this effort.

3.3 GROUND LOADS CRITERIA

The data reduction and analysis techniques employed in the Ground Loads Study phase of the C-141A aircraft Flight Loads Data Program are presented in this section.

3.3.1 Peak Criteria

The aircraft center of gravity normal load factor history during ground operations was reduced into peak count form. A peak was defined as the maximum excursion of the load factor trace between successive trace crossing of either threshold limit. This is the same peak criteria which was used for the IFL and LTF phases of this program. Peak values of load factor within the threshold interval, $0.95 < N_z < 1.05$, were considered to be insignificant and were not to be reduced.

No attempt was made in the GLS phase to classify load factor peaks in terms of gust, maneuver, or runway roughness. All peaks were classified as ground loads data.

3.3.2 Ground Operations Parameters

Each reduced ground operations load factor peak and the associated time data was categorized by data block and mission phase.

A GLS data block is a ground operation condition defined by a class interval of cargo weight and a class interval of fuel weight. The cargo and fuel weight histories for each flight were determined from initial aircraft weight information and from actual fuel expenditure data obtained from logs prepared by the flight engineers during each flight. Only data recorded while the aircraft was in motion on the ground was included in the GLS data sample.

The mission phases utilized to segment the different aspects of the ground experience of each aircraft were:

- (1) Taxi,
- (2) Take-off Run,
- (3) Landing Roll-out,
- (4) Touch-and-Go Roll, and
- (5) Landing Impact.

The Landing Impact mission phase included both full stop and touch-and-go landings. The duration of this segment was defined as the first three seconds following initial runway contact by the landing gear.

The duration of the Landing Roll-out mission phase was defined as the period of time from the end of the Landing Impact mission phase until the time at which the aircraft's ground speed decelerated to 20 knots. The end of the Touch-and-Go Roll mission phase was defined as the time of lift-off.

3.3.3 Mission Parameters

The mission parameters by which the reduced ground loads data were coded included all of those listed in Section 3.2.3. In addition, the ground loads data were identified by the Air Force Base or air terminal at which the data was acquired.

3.4 ATMOSPHERIC TURBULENCE CRITERIA

The turbulence indicator switch (refer to Section 2.2) provided the means by which the recorded data was identified as having been obtained under either storm or non-storm conditions. The turbulence indicator switch was monitored by the aircraft co-pilot, and he used his best judgment to determine the proper position of the switch, i. e. , Storm or Non-Storm.

All data acquired when the aircraft was in the immediate vicinity of convective activity was identified as having been obtained under storm conditions. Convective activity included cumuliform cloud structures (non-stratus), thunderstorms, squalls, hail, tornadoes, etc. An aircraft was considered in the "immediate vicinity" of a storm when it was within a 25-mile horizontal and a 5,000-foot vertical distance from a storm. Data acquired at altitudes below 15,000 feet was not pertinent to the Air Weather Service studies. This data, by AWS direction, was classified as Storm data. For all other conditions not specified above including flight in clear air, stratus clouds, haze, and cirrus clouds, the data was identified as having been acquired under non-storm conditions.

Insofar as data reduction was concerned, the turbulence study condition (storm or non-storm) was an additional flight parameter by which the appropriate Interim Flight Loads U_{d_e} distributions were coded.

CAUTION - Because of the storm and non-storm criteria employed for this study, this data should not be used for structural calculations. The use of the terms storm condition and non-storm condition in the Atmospheric Turbulence Study were utilized for the sake of brevity and, unfortunately,

may be misleading. The data for this study was coded with regard to the existence or non-existence of atmospheric convective activity in the vicinity of the aircraft at the time at which the data was recorded. The data was coded in this fashion for meteorological studies, and the definitions of the storm and non-storm conditions differ from those normally employed in the generation of gust input spectra used for aircraft structural design and analysis. Thus, it is recommended that the Atmospheric Turbulence Study Data not be used for structural calculations.

SECTION IV

RESULTS

During the data acquisition phase of this program a total of 7,602 hours of reducible VGH data was acquired on the C-141A Lead-the-Force aircraft. This sample represents approximately 80 percent of the flight time logged by the LTF aircraft during this period. A reducible VGH data sample of 6,781 flight hours was collected on C-141A aircraft instrumented for the Interim Flight Loads phase. Concurrently with the collection of the IFL data sample, 4,932 hours of usable data was acquired for the Atmospheric Turbulence Study phase of this effort. About 98 percent of all the flight loads data recorded during this effort was reducible.

The reducible data yield for the Ground Loads Study was 196.5 hours of ground load experience data. This sample represents 99 percent of all of the ground loads history data collected during the 3 1/2 month GLS data acquisition period. In Table 3 are presented the distributions by Air Force Base and program phase of the recorded reducible data samples acquired during this program.

Of this usable data, a total sample of 12,430 hours of flight loads data was completely reduced into peak count distributions of center of gravity normal load factor and derived vertical gust velocity. This sample includes 6,076 hours of VGH data acquired on the C-141A Lead-the-Force aircraft, and 6,354 hours of VGH data obtained from those C-141A aircraft employed in the Interim Flight Loads phase. Concurrently with the reduction and compilation of the IFL data, 4,562 hours of the IFL derived vertical gust velocity data was coded by atmospheric condition and sorted for the Atmospheric Turbulence Study. For the GLS effort a sample of 174.5 hours of ground load experience data was completely reduced into peak count distributions of ground load factor. The distributions of these reduced data samples is presented in Table 4 by Air Force Base and program phase.

To justify the use of the VGH data acquired during the Interim Flight Loads phase of this program in fatigue analyses of the C-141A airframe, the reduced data must be representative of the total C-141A fleet load history. The load history of a fleet of aircraft depends upon the manner in which the aircraft are utilized and upon the environment in which the aircraft are flown. A study was conducted to determine whether or not the flights included in the reduced data sample would be representative of the usage and the environment experienced by the entire fleet.

Not all of the aircraft in the fleet were instrumented. Early in the program approximately seventy percent of the fleet was instrumented, but as new aircraft were delivered during the course of the program, the ratio of

TABLE 3

**Distribution of Recorded Data Samples (Hours)
by Air Force Base and Program Phase**

Program Phase \ Air Force Base	Charleston	Dover	Tinker	Travis	Totals
Interim Flight Loads	1,295	1,362	1,849	2,275	6,781
Lead-the-Force Flight Loads	742	1,103	2,537	3,220	7,602
Ground Loads Study	----	95.0	69.5	32.0	196.5
Atmospheric Turbulence Study	1,295	1,362	----	2,275	4,932

TABLE 4

**Distribution of Reduced Data Samples (Hours)
by Air Force Base and Program Phase**

Program Phase \ Air Force Base	Charleston	Dover	Tinker	Travis	Totals
Interim Flight Loads	1,200	1,221	1,792	2,141	6,354
Lead-the-Force Flight Loads	646	960	1,949	2,521	6,076
Ground Loads Study	-----	84.5	69.5	32.0	174.5
Atmospheric Turbulence Study	1,200	1,221	-----	2,141	4,562

instrumented aircraft to the total fleet dropped to about twenty-five percent. However, since a large number of aircraft were instrumented, it was assumed that the instrumented fleet usage was representative of the total fleet usage.

Not every flight of the instrumented aircraft was recorded; however, historical flight information records were maintained for each flight of every instrumented aircraft during the entire recording period. Therefore, a complete record was kept of the activities of the instrumented aircraft in addition to that portion of the instrumented fleet's activity represented by the reduced data sample.

The degree to which the reduced Interim Flight Loads data sample reflected fleet usage was determined by comparing the mission mix of all flights of the IFL instrumented aircraft at each base with the mission mix at each base in the reduced IFL data sample. The results of this comparison is presented in Table 5, which indicates that the reduced IFL data sample is in general quite representative of the C-141A aircraft fleet usage during the data acquisition period. At all of the bases except Dover Air Force Base the percentage of the flights flown for a given type of mission differs by less than five percent from the corresponding percentage in the reduced data. At Dover Air Force Base the percentages of the total number of flights of training and logistics missions for which data was reduced are approximately 10 percent greater and less, respectively, than the percentages flown.

The determination of the similarity of environment experienced by the fleet as compared to that experienced by the Interim Flight Loads aircraft was beyond the scope of this program. Data are available to make this evaluation if the Air Force should decide to do so. The atmospheric turbulence is a function of geographical area, season, and climatological parameters. Inasmuch as the data in the reduced data sample were acquired over a 12-month period, and since the month by month IFL samples were appropriately selected to reflect fleet activity, it is believed that the effects of season and climate are adequately represented in the data sample. Further, since no scheduling preference was given to instrumented aircraft, there is no reason to believe that the average environment encountered by the instrumented aircraft is different from that experienced by the fleet.

From this analysis, it was concluded that the Interim Flight Loads reduced data sample does adequately represent the service load experience of the C-141A fleet in terms of mission mix and of flight environment.

The reduced Lead-the-Force data sample was acquired during approximately sixty percent of the total mission time of the LTF aircraft during the data acquisition period. Historical flight information records were maintained, however, for each flight of every LTF aircraft during the entire recording period. A comparison was made of the mission mix of all flights

TABLE 5

Comparison by Mission Type of the Percentage of the Number of Flights Flown with the Percentage of the Number of Flights in the Reduced Flight Loads Data Samples at Each Base

	Charleston AFB		Dover AFB		Tinker AFB		Travis AFB		Totals	
	Flown	Reduced	Flown	Reduced	Flown	Reduced	Flown	Reduced	Flown	Reduced
<u>LEAD - THE - FORCE</u>										
Logistics	94.0	94.2	83.8	73.6	5.9	4.6	87.1	87.3	59.1	54.8
Training	3.3	2.9	14.6	23.8	91.9	94.8	11.7	11.9	39.1	44.0
Flight Test	1.6	1.0	1.6	2.6	2.2	0.6	0.8	0.8	1.5	1.0
Air Drop	1.1	1.9	-----	-----	-----	-----	-----	-----	0.1	0.2
Airborne Training	---	---	---	---	---	---	0.4	0.0	0.2	0.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<u>INTERIM FLIGHT LOADS</u>										
Logistics	68.9	70.9	72.1	62.4	6.3	4.3	75.0	72.0	56.5	48.4
Training	22.7	23.6	25.9	34.3	92.0	95.3	23.2	27.8	40.1	49.7
Flight Test	3.9	0.7	0.3	0.4	1.6	0.4	0.2	0.2	1.4	0.4
Air Drop	4.4	4.4	1.4	2.9	0.1	0.0	0.3	0.0	1.5	1.4
Airborne Training	0.1	0.4	0.3	0.0	---	---	1.3	0.0	0.5	0.1
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

of the LTF aircraft at each base with the mission mix at each base in the reduced LTF data sample. The results of this comparison are presented in Table 5, which indicates that the LTF reduced data sample is in general quite representative of the Lead-the-Force aircraft utilization during the data acquisition period.

The reduced data samples are presented in the Appendixes of this report in the form of tabular distributions and cumulative frequency graphs of peak maneuver and gust load factors and of peak derived vertical gust velocity. The tables are reproductions of the computer output tabulations. The total times and distances shown may not agree in the last significant figure with the sum of the values given by data block categories because of rounding. Histograms representing the airspeed and altitude usage of the C-141A aircraft for the various missions flown are also included in the Appendixes.

This data was previously presented in the final periodic data reports which were submitted to the C-141 System Program Office (References 5, 6, and 7). These periodic data reports contain historical flight information for every flight for which data was recorded as well as listings of unusual experience that were encountered during the flights for which the data was reduced. The load factor and U_{dg} data distributions in the final periodic data reports for the VGH phases of this program are presented by gross weight, altitude, airspeed, base, mission, and mission phase. Also contained in these reports are tabulations of maneuver load factor exceedence data by mission phase and tabulations of derived vertical gust velocity exceedence data by base and mission phase. Inquiries concerning data presented in the final periodic data reports must be directed to the C-141 SPO. The final reduced data samples are presently being employed in fatigue evaluations of the C-141A aircraft.

The data contained herein is described in the following paragraphs.

4.1 INTERIM FLIGHT LOADS DATA

The final data presentations for the Interim Flight Loads phase of the "C-141A Aircraft Flight Loads Data Program" are included in Appendix A of this report. This structural load experience data sample is summarized in the maneuver and gust spectra presented in Figures A1 and A2. Figure A1 is the cumulative frequency (exceedence curve) for the total positive maneuver load experience without regard to any mission parameter or flight condition, and Figure A2 presents the positive derived vertical gust velocity spectrum by altitude obtained during the IFL phase of this program.

The distribution of the reduced Interim Flight Loads data by Air Force Base and mission type is presented in Table 6. It should be noted that the number of hours of reduced data shown in Table 6 does not necessarily equal the total number of flight hours associated with the number of missions indicated in Table 6. In some cases the oscillograph film was completely exposed before the end of the flight and thus the data associated with the end of the flight was not recorded or consequently, reduced. In a few cases, data from only portions of a recorded flight could be reduced because the lack of sufficient fuel utilization information prevented the processing of the later portions of the record. Therefore it is possible that, at a given base and for a given type of mission, the number of flight hours experienced by the aircraft for the number of missions indicated in Table 6 could be greater than the number of hours of reduced data. Thus, the reader should use caution in using the information in Table 6 to determine average mission durations.

The U_{de} spectra by altitude for each Air Force Base are presented for positive and negative gusts separately in Figures A3 through A6. These spectra of derived vertical gust velocity generally show the usual decrease in the severity of atmospheric turbulence with increasing altitude. However, the data acquired from aircraft stationed at Charleston Air Force Base indicate that the severity of turbulence is greater in the range of altitudes of from 20,000 to 25,000 feet than in the range of 15,000 to 20,000 feet. Further the data acquired at Tinker Air Force Base indicate that the severity of turbulence for altitudes above 25,000 feet is about the same as for the altitude range of 15,000 to 25,000 feet. In as much as the missions flown from Tinker Air Force Base were primarily of a training nature, less than 8 percent of the data yield from Tinker was acquired at altitudes above 25,000 feet. Therefore, the data sample acquired above 25,000 feet from aircraft stationed at Tinker Air Force Base is not believed to be an all inclusive sample of high altitude gust load experience.

Comparisons of the gust spectra of Figures A3 through A6 by Air Force Base reveal expected variations in the severity of turbulence with geographical location. The low altitude gust experience acquired at Tinker Air Force Base is significantly more turbulent than that acquired at the other three bases. For altitudes between 25,000 and 35,000 feet the turbulence experienced by aircraft stationed at Charleston Air Force Base was more severe than that experienced by aircraft assigned to Dover and Travis Air Force Bases.

As the result of the magnitude of the gust load factor threshold limits established for the reduction of the load factor time histories, all of the derived vertical gust velocity data for the first U_{de} bands ($5 \leq |U_{de}| < 7.5$) was not obtained. The U_{de} data not included in these bands was that obtained during flight conditions of combined high gross weight and low airspeeds.

TABLE 6

Distribution of the Reduced Flight Loads Data
 Samples (Number and Hours) by Air Force Base and Mission

INTERIM FLIGHT LOADS PHASE

Air Force Base		Charleston	Dover	Tinker	Travis	Totals
Mission						
Logistics, Medium Range	No. Hrs.	189 882.8	173 881.3	20 44.5	288 1,245.6	670 3,054.2
Logistics, Long Range	No. Hrs.	3 30.7	--- ---	--- ---	43 424.4	46 455.1
Training	No. Hrs.	64 238.8	95 313.8	449 1,744.0	128 470.4	736 2,767.0
Logistics Drop, Short Range	No. Hrs.	--- ---	3 9.4	--- ---	--- ---	3 9.4
Miscellaneous	No. Hrs.	12 44.7	5 16.3	--- ---	--- ---	17 61.0
Flight Test	No. Hrs.	2 1.2	1 0.6	2 3.5	1 0.6	6 5.9
Airborne Training	No. Hrs.	1 1.5	--- ---	--- ---	--- ---	1 1.5

LEAD-THE-FORCE FLIGHT LOADS PHASE

Air Force Base		Charleston	Dover	Tinker	Travis	Totals
Mission						
Logistics, Medium Range	No. Hrs.	98 613.2	137 766.7	22 82.7	400 1,903.1	657 3,365.7
Logistics, Long Range	No. Hrs.	--- ---	2 23.1	--- ---	42 430.9	44 454.0
Training	No. Hrs.	3 23.5	45 166.0	455 1,862.0	60 191.4	563 2,232.9
Miscellaneous	No. Hrs.	2 8.6	--- ---	--- ---	--- ---	2 8.6
Flight Test	No. Hrs.	1 1.4	5 4.4	3 4.2	4 5.4	13 15.4

This combination is normally only prevalent at take-off and thus only the low altitude data of Figures A2 through A6 is significantly affected. The affect of the load factor threshold limits on these U_{de} exceedence curves is demonstrated by the change in slope of the curves above -7.5 feet per second and below $+7.5$ feet per second for the lower three altitude ranges. Thus, the data reduction limitation imposed by the load factor threshold limits affects only the first U_{de} band on both sides of threshold for the low altitude curves. All of the data in the derived vertical gust velocity data bands above $+7.5$ and below -7.5 feet per second is complete and unbiased.

Tabular distributions of peak derived vertical gust velocity versus altitude for each of the four Air Force Bases involved in this effort are presented in Tables A1 through A4.

In Figures A7 through A20 is presented histograms which show separately the percentages of flight time in selected airspeed and altitude ranges. These histograms for airspeed and altitude are presented in pairs for each of the seven types of missions encountered during this effort. Comparisons by mission of the histograms presented in terms of the percentage of flight time in the various altitude ranges provide an indication of the differences in the mission profiles of the different types of missions. Tables A5 through A11 present the distribution of flight time in the various combined altitude and airspeed increments for each type of mission.

Tabular peak distributions of maneuver load factors, gust load factors, and derived vertical gust velocity versus data block by Air Force Base and mission type are presented in Tables A12 through A65 in Appendix A. A data block is a flight condition defined by one class interval each of gross weight (W), pressure altitude (HH), and equivalent airspeed (A). In order to limit the physical size of this report, the data blocks are given in coded form. The codes employed are identified in Table 7.

The load factor and derived vertical gust velocity class intervals are also presented in coded form as shown in Table 8. For load factor class intervals, the distribution headings represent:

- (1) The lower load factor boundary of the class interval for load factors greater than 1.0, and
- (2) The upper load factor boundary of the class interval for load factors less than 1.0.

For example, load factor, class interval codes of 1.8 and 0.6 refer, respectively, to the class intervals $1.8 \leq N_z < 2.0$ and $0.5 < N_z \leq 0.6$. Thus, it can be seen that the value of load factor presented in the headings corresponds to the absolute lower incremental load factor limit of the class interval. For the U_{de} distributions the absolute lower limit of the data band is presented in

TABLE 7

Description of the
Weight, Altitude, and Airspeed Band Codes

<u>WEIGHT</u>		<u>AIRSPEED</u>	
<u>Weight Ranges</u> <u>(1000 lbs.)</u>	<u>W</u> <u>Code</u>	<u>Airspeed Ranges</u> <u>(KEAS)</u>	<u>A</u> <u>Code</u>
$W < 130$	1	$0 \leq V_e < 100$	1
$130 \leq W < 170$	2	$100 \leq V_e < 150$	2
$170 \leq W < 210$	3	$150 \leq V_e < 200$	3
$210 \leq W < 250$	4	$200 \leq V_e < 250$	4
$250 \leq W < 290$	5	$250 \leq V_e < 300$	5
$290 \leq W$	6	$300 \leq V_e < 350$	6
		$350 \leq V_e < 400$	7
		$400 \leq V_e$	8

ALTITUDE

<u>Altitude Ranges</u> <u>(1000 ft.)</u>	<u>HH</u> <u>Code</u>
$h < 1$	1
$1 \leq h < 2$	2
$2 \leq h < 5$	3
$5 \leq h < 10$	4
$10 \leq h < 15$	5
$15 \leq h < 20$	6
$20 \leq h < 25$	7
$25 \leq h < 30$	8
$30 \leq h < 35$	9
$35 \leq h$	10

TABLE 8

Description of the
Load Factor and Derived Gust Velocity Bands

<u>N_z Band</u>		<u>Load Factor Range (g's)</u>	<u>Incremental Acceleration Range (g's)</u>
Gust	Maneuver		
-0.5	-0.5	$N_z \leq -0.5$	$\Delta n \leq -1.5$
0	0	$-0.5 < N_z \leq 0$	$-1.5 < \Delta n \leq -1.0$
0.5	0.5	$0 < N_z \leq 0.5$	$-1.0 < \Delta n \leq -0.5$
0.6	0.6	$0.5 < N_z \leq 0.6$	$-0.5 < \Delta n \leq -0.4$
0.7	0.7	$0.6 < N_z \leq 0.7$	$-0.4 < \Delta n \leq -0.3$
0.8	0.8	$0.7 < N_z \leq 0.8$	$-0.3 < \Delta n \leq -0.2$
0.9		$0.8 < N_z \leq 0.9$	$-0.2 < \Delta n \leq -0.1$
1.1		$1.1 \leq N_z < 1.2$	$0.1 \leq \Delta n < 0.2$
1.2	1.2	$1.2 \leq N_z < 1.3$	$0.2 \leq \Delta n < 0.3$
1.3	1.3	$1.3 \leq N_z < 1.4$	$0.3 \leq \Delta n < 0.4$
1.4	1.4	$1.4 \leq N_z < 1.6$	$0.4 \leq \Delta n < 0.6$
1.6	1.6	$1.6 \leq N_z < 1.8$	$0.6 \leq \Delta n < 0.8$
1.8	1.8	$1.8 \leq N_z < 2.0$	$0.8 \leq \Delta n < 1.0$
2.0	2.0	$2.0 \leq N_z < 2.5$	$1.0 \leq \Delta n < 1.5$
2.5	2.5	$2.5 \leq N_z < 3.0$	$1.5 \leq \Delta n < 2.0$
3.0	3.0	$3.0 \leq N_z$	$2.0 \leq \Delta n$

<u>U_{de} Band</u>	<u>U_{de} Range (ft/sec)</u>
-35.0	$U_{de} \leq -35.0$
-30.0	$-35.0 < U_{de} \leq -30.0$
-25.0	$-30.0 < U_{de} \leq -25.0$
-20.0	$-25.0 < U_{de} \leq -20.0$
-17.5	$-20.0 < U_{de} \leq -17.5$
-15.0	$-17.5 < U_{de} \leq -15.0$
-12.5	$-15.0 < U_{de} \leq -12.5$
-10.0	$-12.5 < U_{de} \leq -10.0$
- 7.5	$-10.0 < U_{de} \leq - 7.5$
- 5.0	$- 7.5 < U_{de} \leq - 5.0$
+ 5.0	$+ 5.0 \leq U_{de} < + 7.5$
+ 7.5	$+ 7.5 \leq U_{de} < +10.0$
+10.0	$+10.0 \leq U_{de} < +12.5$
+12.5	$+12.5 \leq U_{de} < +15.0$
+15.0	$+15.0 \leq U_{de} < +17.5$
+17.5	$17.5 \leq U_{de} < +20.0$
+20.0	$+20.0 \leq U_{de} < +25.0$
+25.0	$+25.0 \leq U_{de} < +30.0$
+30.0	$+30.0 \leq U_{de} < +35.0$
+35.0	$+35.0 \leq U_{de}$

the distribution headings. Thus, the U_{d_e} distribution headings 10 and -15 represent, respectively, the class intervals $+10 \leq U_{d_e} < 12.5$ and $-17.5 \leq U_{d_e} < -15.0$.

4.2 LEAD-THE-FORCE FLIGHT LOADS DATA

The final data presentations for the Lead-the-Force flight loads phase of this program are included in Appendix B. The structural load experience data acquired during this effort is summarized in the exceedence curves of Figures B1 and B2. In Figure B1 is presented the total positive maneuver load factor spectrum. The positive gust load spectrum is presented by altitude in Figure B2. Comparisons of these LTF spectra with those obtained in the Interim Flight Loads effort (Figures A1 and A2) indicate that the overall maneuver load experience of the LTF aircraft and the IFL aircraft were essentially identical and that the gust load experiences of the two sets of data were very similar. The turbulence encountered by the LTF aircraft at lower altitudes is slightly more severe than that encountered by the aircraft instrumented for the Interim Flight Loads effort. The opposite trend is observed for higher altitudes. The distribution of Lead-the-Force Flight Loads data by Air Force Base and mission type is presented in Table 6.

Lead-the-Force aircraft U_{d_e} spectra by altitude for each Air Force Base are presented for positive and negative gusts separately in Figures B3 through B6. These curves are comparable with the same data obtained for the IFL phase of this program. The same data trends noted in section 4.1 apply to the LTF gust spectra. The turbulence experienced below 10,000 feet by the aircraft assigned to Tinker Air Force Base was more severe than that encountered by the LTF aircraft at the other three bases. For altitudes between 25,000 and 35,000 feet the gust load experience of the aircraft assigned to Charleston Air Force Base was more severe than that experienced by aircraft from Dover and Travis Air Force Bases.

The Lead-the-Force flight loads data was reduced according to the same criteria employed in the reduction of the IFL flight loads data. Thus, the U_{d_e} data reduced during the LTF phase is also incomplete in the first bands ($5 \leq |U_{d_e}| < 7.5$) for the high gross weight and low airspeed flight conditions. All of the data in the derived vertical gust velocity data bands above +7.5 and below -7.5 feet per second is complete.

Tabulations of the peak distributions of derived vertical gust velocity sorted by altitude for each Base are presented in Tables B1 through B4.

The histograms of Figures B7 through B16 illustrate the percentages of flight time in the various airspeed and in the various altitudes ranges. These bar graphs for airspeed and altitude are presented in pairs for each

of the five types of mission encountered during the Lead-the-Force flight loads effort. As would be expected, the Lead-the-Force aircraft mission profiles, as indicated by the bar graphs of the percentage of flight time in the various altitude ranges, agree well with those obtained for the same type of mission for the IFL phase of this program. Tables B5 through B9 present the distribution of flight time in the various combined altitude and airspeed increments for each type of mission.

Tabulations of the peak distributions of maneuver load factors, gust load factors, and derived vertical gust velocity versus data block by Air Force Base and mission are presented in Tables B10 through B54 in Appendix B. The data block codes utilized in the presentation of this data are identified in Table 7. The data bands headings are precisely defined in Table 8.

4.3 GROUND LOADS STUDY DATA

The data acquired and reduced for the Ground Loads Study phase of this program is presented in Appendix C of this report. This data is presented in the form of tabular distributions by mission phase of incremental ground load factors versus data block. For this phase of the program a data block is an aircraft condition defined by one class interval each of cargo weight (CW) and fuel weight (FW). As in the case for all load factor distributions presented in this report, in the table heading is presented the value of load factor corresponding to the absolute lower incremental load factor limit of the data band, see Table 9. Table 9 also contains the codes for the cargo weight and fuel weight bands utilized in presenting the data.

A total reduced data sample of 174.5 hours of ground load experience data is presented in Appendix C. The number of occurrences and the number of hours in this data sample for each of the five mission phases are presented in Table 10.

TABLE 10

Distribution of the Reduced Ground Loads Data Sample by Mission Phase

<u>Mission Phase</u>	<u>Number of Occurrences</u>	<u>Number of Hours</u>
Taxi	1,218	155.1
Take-off Run	725	5.8
Landing Roll-out	679	8.8
Touch-and-Go Roll	682	3.7
Landing Impact	1,360	1.1

TABLE 9

Ground Loads Study
Weight and Load Factor Band Descriptions

<u>CARGO WEIGHT</u>		<u>FUEL WEIGHT</u>	
<u>Cargo Wt. Range</u> (1000 lbs)	<u>Code</u>	<u>Fuel Wt. Range</u> (1000 lbs)	<u>Code</u>
$C \leq 10$	1	$F \leq 10$	1
$10 < C \leq 20$	2	$10 < F \leq 20$	2
$20 < C \leq 30$	3	$20 < F \leq 35$	3
$30 < C \leq 40$	4	$35 < F \leq 50$	4
$40 < C \leq 50$	5	$50 < F \leq 65$	5
$50 < C \leq 60$	6	$65 < F \leq 80$	6
$60 < C \leq 70$	7	$80 < F \leq 95$	7
$70 < C$	8	$95 < F \leq 110$	8
		$110 < F \leq 125$	9
		$125 < F$	10

<u>LOAD FACTOR</u>		
<u>N_z Band</u>	<u>Load Factor Range (g's)</u>	<u>Incremental Load Factor Range (g's)</u>
0.0	$N_z \leq 0$	$\Delta n \leq -1.0$
0.30	$0 < N_z \leq .30$	$-1.0 < \Delta n \leq -0.70$
0.50	$.30 < N_z \leq .50$	$-0.70 < \Delta n \leq -0.50$
0.60	$.50 < N_z \leq .60$	$-0.50 < \Delta n \leq -0.40$
0.70	$.60 < N_z \leq .70$	$-0.40 < \Delta n \leq -0.30$
0.75	$.70 < N_z \leq .75$	$-0.30 < \Delta n \leq -0.25$
0.80	$.75 < N_z \leq .80$	$-0.25 < \Delta n \leq -0.20$
0.85	$.80 < N_z \leq .85$	$-0.20 < \Delta n \leq -0.15$
0.90	$.85 < N_z \leq .90$	$-0.15 < \Delta n \leq -0.10$
0.95	$.90 < N_z \leq .95$	$-0.10 < \Delta n \leq -0.05$
1.05	$1.05 \leq N_z < 1.10$	$0.05 \leq \Delta n < 0.10$
1.10	$1.10 \leq N_z < 1.15$	$0.10 \leq \Delta n < 0.15$
1.15	$1.15 \leq N_z < 1.20$	$0.15 \leq \Delta n < 0.20$
1.20	$1.20 \leq N_z < 1.25$	$0.20 \leq \Delta n < 0.25$
1.25	$1.25 \leq N_z < 1.30$	$0.25 \leq \Delta n < 0.30$
1.30	$1.30 \leq N_z < 1.40$	$0.30 \leq \Delta n < 0.40$
1.40	$1.40 \leq N_z < 1.50$	$0.40 \leq \Delta n < 0.50$
1.50	$1.50 \leq N_z < 1.70$	$0.50 \leq \Delta n < 0.70$
1.70	$1.70 \leq N_z < 2.00$	$0.70 \leq \Delta n < 1.00$
2.00	$2.00 \leq N_z$	$1.00 \leq \Delta n$

The data reduced in the GLS phase is summarized in the incremental load factor exceedence curves presented in Figures C1 and C2. In Figure C1 is presented the cumulative number of positive Δn peaks per hour equal to or greater than Δn versus incremental load factor for each of the mission phases of Taxi, Take-off Run, Landing Roll-out, and Touch-and-Go Roll. The cumulative frequency of positive Δn peaks versus Δn for the Landing Impact mission phase is presented in Figure C2. This curve is presented on a per landing basis. Because of the shape of the curve in Figure C2 below Δn equal to 0.1g, it appears that a number of the peaks in the first data band were "lost" in data reduction. Because of the high frequency of the normal load factor time history in this mission phase, it is extremely difficult and sometimes impossible to resolve and reduce the low-magnitude peaks from the oscillograph trace. Thus, an exponential extrapolation of the remainder of the curve into this range ($0.05 \leq \Delta n < 0.1$) would seem to provide a more realistic representation of the aircraft load experience in the Landing Impact mission phase.

The distribution of ground load factors by data block and by mission phase are presented in Tables C1 through C5 in Appendix C. This same data sample was further sorted by the base to which the aircraft were assigned when the data was acquired and by the Air Force Base or airport at which the data was acquired. The data distributions by mission phase for these sorts is presented in Tables C6 through C8 and in Tables C9 through C77, respectively. These latter tables are presented in alphabetical order by the name of the base. A list of the bases at which data was acquired during this effort are presented in Table 11.

4.4 ATMOSPHERIC TURBULENCE STUDY DATA

In Table D1 of Appendix D is presented a list of routes for which Atmospheric Turbulence Study data was acquired and reduced. Included in this table is the total accumulated flight time and distance traveled over each of these routes. The peak derived vertical gust velocity data for each of these routes was coded by altitude band, by the atmospheric conditions under which the data was obtained, and the season and month during which the data was acquired.

According to specifications by MAC Air Weather Service, data acquired over routes for which the total reduced data sample was less than 20 flight hours and data obtained during local flights was eliminated in the composited data sample. The routes for which the data is presented in Appendix D are identified in table D1 by an asterisk.

In Table D2a is presented tabular distributions of peak U_{de} by altitude for storm conditions, non-storm conditions, and for the sum of the storm and

TABLE 11

List of Bases at Which Data was Acquired and
Reduced for the Ground Loads Study

Altus AFB, Oklahoma	Pittsburgh-Monroeville, Pennsylvania
Amarillo AFB, Municipal, Texas	Pleiku A/D, Vietnam
Anderson AB, Guam	Point Mugu NAS, California
Andrews AFB, Washington	Randolph AFB, Texas
Antigua, West Indies	Rhein Main A/D, Germany
Ascension Island, South Atlantic	Richards-Gebaur AFB, Missouri
Beale AFB, California	Robins AFB, Georgia
Bien Hoa A/D, Vietnam	Saigon, Tan Son Nhut A/D, Vietnam
Cannon AFB, New Mexico	Scott AFB, Illinois
Carwell AFB, Texas	Sheppard AFB, Texas
Chambley AB, France	Tainan A/D, Taiwan, Formosa
Charleston AFB/Municipal, South Carolina	Takhli A. D., Thailand
Clark AB, Philippines	Tinker AFB, Oklahoma
Classified	Travis AFB, California
Clinton-Sherman AFB, Oklahoma	Tulsa International, Oklahoma
Dallas Love Field, Texas	Ubon A/D, Thailand
Danang AB, Vietnam	Wake Airport, Wake Is. and
Dobbins AFB/NAS, Georgia	Wheeler AB, Libya
Don Muang A/D, Bangkok, Thailand	Whiteman AFB, Missouri
Dover AFB, Delaware	Wilkes-Barre-Scranton, Pennsylvania
Edwards AFB, California	Wright-Patterson AFB, Ohio
Elmendorf AFB, Alaska	Yokota AB, Japan
Forbes AFB, Kansas	Youngstown Municipal, Ohio
Ft. Smith Municipal, Arkansas	
Goose Bay, Labrador	
Greater Southwest International, Texas	
Hickam AFB, Hawaii	
Hill AFB, Utah	
Hunter AFB, Georgia	
Kadena AB, Okinawa	
Kelly AFB, Texas	
Kimpo International Airport, Seoul, Korea	
Kindley AFB, Bermuda	
Lajes A/D, Azores	
Lakehurst NAS, New Jersey	
March AFB, California	
McChord AFB, Washington	
McClellan AFB, California	
McConnell AFB, Kansas	
McCoy AFB, Florida	
McGuire AFB, New Jersey	
Minnesota-St. Paul International, Minnesota	
New Orleans NAS, Louisiana	
Niagara Falls Municipal, New York	
North Island NAS, California	
Patrick AFB, Florida	

non-storm conditions for all of the routes included in the composited data sample. The total composited sample, which includes 2,786 flight hours of data was sorted by season and by month. The tabular distributions of U_{de} by season are presented in Table D2b through Table D2e, and by month in Tables D2f through D2q. This same method of presentation was employed for reporting the data for each of the 32 routes being studied. The data for each of these routes is presented in Tables D3 through D34.

Since the U_{de} data for the turbulence study is also a part of the IFL data sample, the same comments made in section 4.1, regarding the completeness of the first U_{de} bands for the lower altitude ranges apply to the Atmospheric Turbulence Study.

The investigator should be continuously aware of the means employed to identify the data with the atmospheric conditions surrounding the aircraft. The derived vertical gust velocity data for altitudes above 15,000 feet was identified as having been acquired under storm or non-storm conditions according to the position of a manual switch monitored by the aircraft's co-pilot. The first and primary responsibility of the co-pilot is to assist in the flying of the aircraft and not that of monitoring the turbulence switch. Analyses of the data have led the author to believe that under some situations the co-pilot's first responsibility required his undivided attention, and thus it was not always possible for him to continuously monitor the position of the turbulence switch. Since there was no way during data reduction to evaluate the conditions of the environment at the time and location at which the data was recorded, no attempt was made to correct or modify the recorded data in any way.

The results of the Atmospheric Turbulence Study are briefly summarized in the exceedence curves in Figures D1 and D2. In Figure D1 is presented a comparison of the positive U_{de} gust data acquired during each of the four seasons at altitudes of 30,000 feet and above. The altitude range of 30,000 feet and above was selected for this comparison since this range represents the cruising altitudes for logistic flights and does not include much data acquired in ascent and descent near given localities. The curves of Figure D1 indicate that the turbulence during the Winter season is more severe than during the remainder of the year. These curves further indicate that for the larger values of U_{de} the Spring season is the least severe of the four seasons.

In Figure D2 is shown a comparison of the total positive gust data for two routes: for the route between Hickam Air Force Base, Hawaii and Clark Air Force Base, Philippines; and for the route between Clark Air Force Base and Saigon, Tan Son Nhut Air Depot, Vietnam. The routes were selected for this comparison because they are representative of the less turbulent and more turbulent routes, respectively, included in the composite

data sample. Also, the data sample for each of these two routes included data acquired during each of the four seasons of the year. The route between Clark Air Force Base and Saigon is about three times more turbulent than that between Hickam and Clark Air Force Bases.

4.5 DATA ACCURACY

A thorough investigation of the errors in the entire instrumentation and data reduction systems was conducted. All possible sources of error were either empirically determined or liberally estimated. Then, these errors were combined by standard statistical techniques to obtain total error. The results of this investigation indicated that the total two-standard deviation error for a 2.0g full scale incremental load factor reading was 0.0924g. Comparison of the estimated full scale two-standard deviation errors incurred by the data acquisition and data reduction systems with the program's requirements is presented in Table 12. The errors in 95% of the load factor data were less than or equal to the limits defined by the two-standard deviation values.

TABLE 12

Comparison of the Load Factor Two-Standard Deviation Errors
With the Specified Limits
(Based on Full Scale Reading of 2.0g)

	Errors Incurred	Specified Limits
Instrumentation	±4.2%	±5%
Data Reduction	±0.0386g	±0.05g
Overall	±0.0924g	±0.112g

Thus, it is apparent that the accuracy of the data was well within the limits specified for this program.

SECTION V

CONCLUSIONS

The pertinent conclusions from this study are as follows:

1. The data presented in this report is representative of the gust, maneuver, and ground load histories experienced by the C-141A aircraft fleet during the period from September 1965 through September 1966. During this period the C-141A fleet operations were conducted under 80% restriction.
2. All of the objectives of this program have been fulfilled, and the total two-standard deviation error of the data is $\pm 0.09g$. Thus the error in 95% of the data, based upon a 2.0g full scale reading, is $\pm 0.09g$ or less.
3. cursory comparisons of the Lead-the-Force data sample with that obtained during the Interim Flight Loads phase indicated that the Lead-the-Force aircraft load experiences are similar to those of the remainder of the fleet.
4. The derived vertical gust velocity data in the first data band on each side of threshold ($5 \leq U_{d_0} < 7.5$ fps and $-7.5 < U_{d_0} \leq -5$ fps) is incomplete for some data blocks because of limitations imposed in data reduction caused by the selection of the gust load factor reading threshold limits. This limitation affects U_{d_0} data acquired in the low airspeed and high gross weight flight conditions.
5. The atmospheric turbulence data was identified with atmospheric conditions by requesting the aircraft's co-pilot to monitor a manual switch. The co-pilot's primary responsibilities may not have allowed him in all cases to monitor this switch as closely as would be desired.
6. The Atmospheric Turbulence Study data was acquired and reduced for use in meteorological studies. Because of the storm and non-storm criteria employed for this study - this data should not be employed for structural analysis calculations.

PROCESSED PAGE BLANK - NOT TYPED

APPENDIX A

INTERIM FLIGHT LOADS DATA

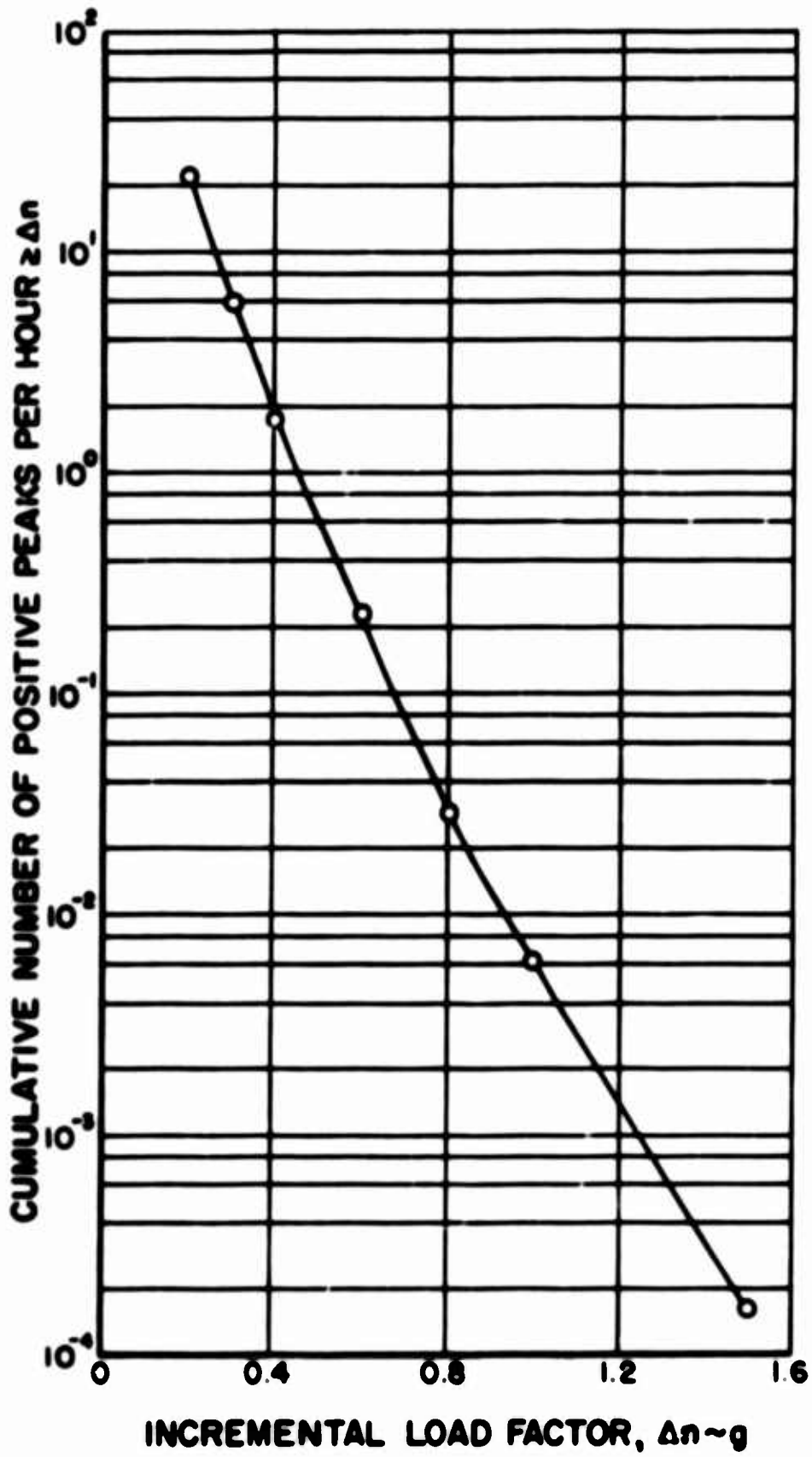


Figure A1. Positive Maneuver Spectrum Obtained from 6,354 Flight-Hours of Interim Flight Loads Data

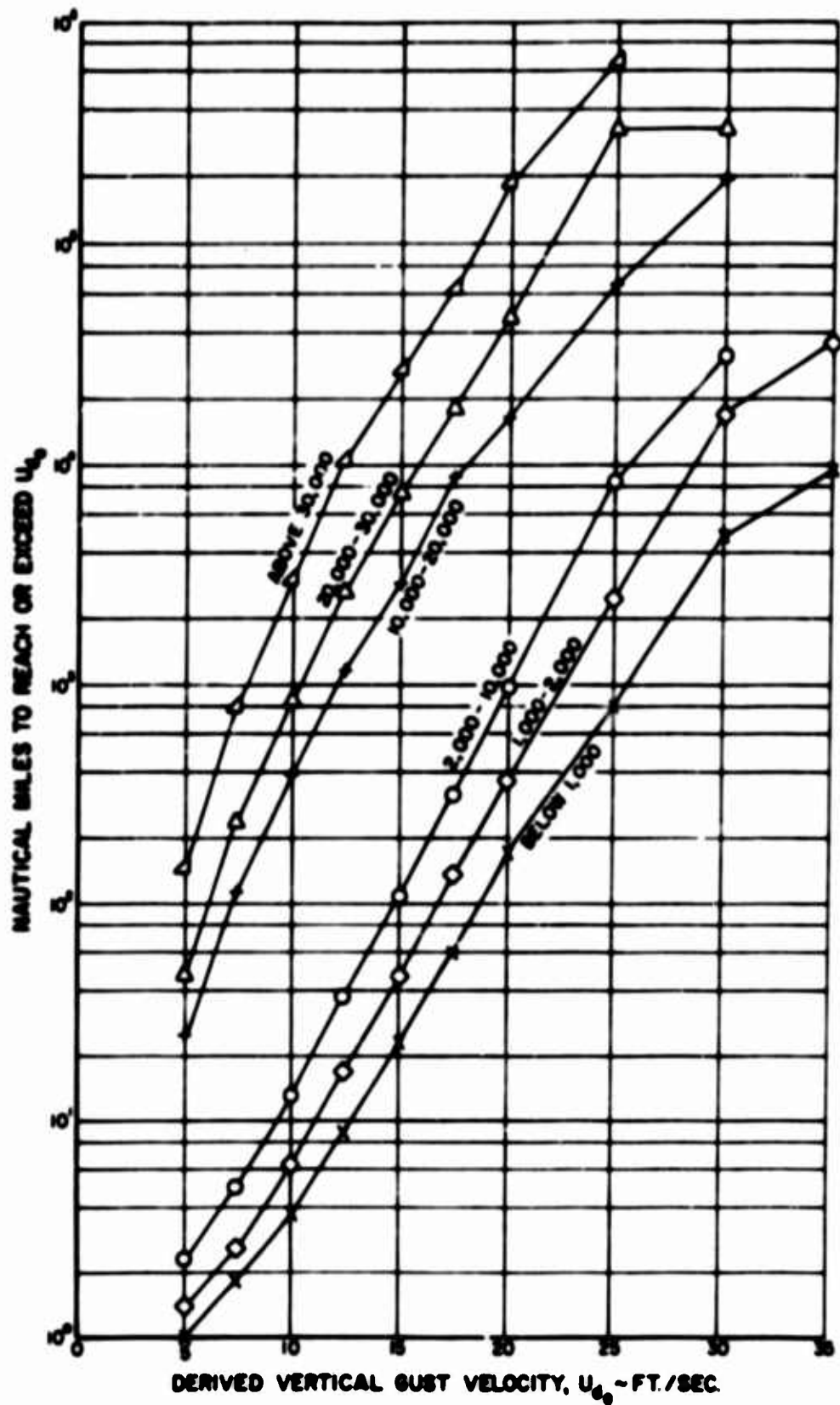


Figure A2. Positive Gust Spectrum by Altitude
 Obtained from 6,354 Flight-Hours of
 Interim Flight Loads Data

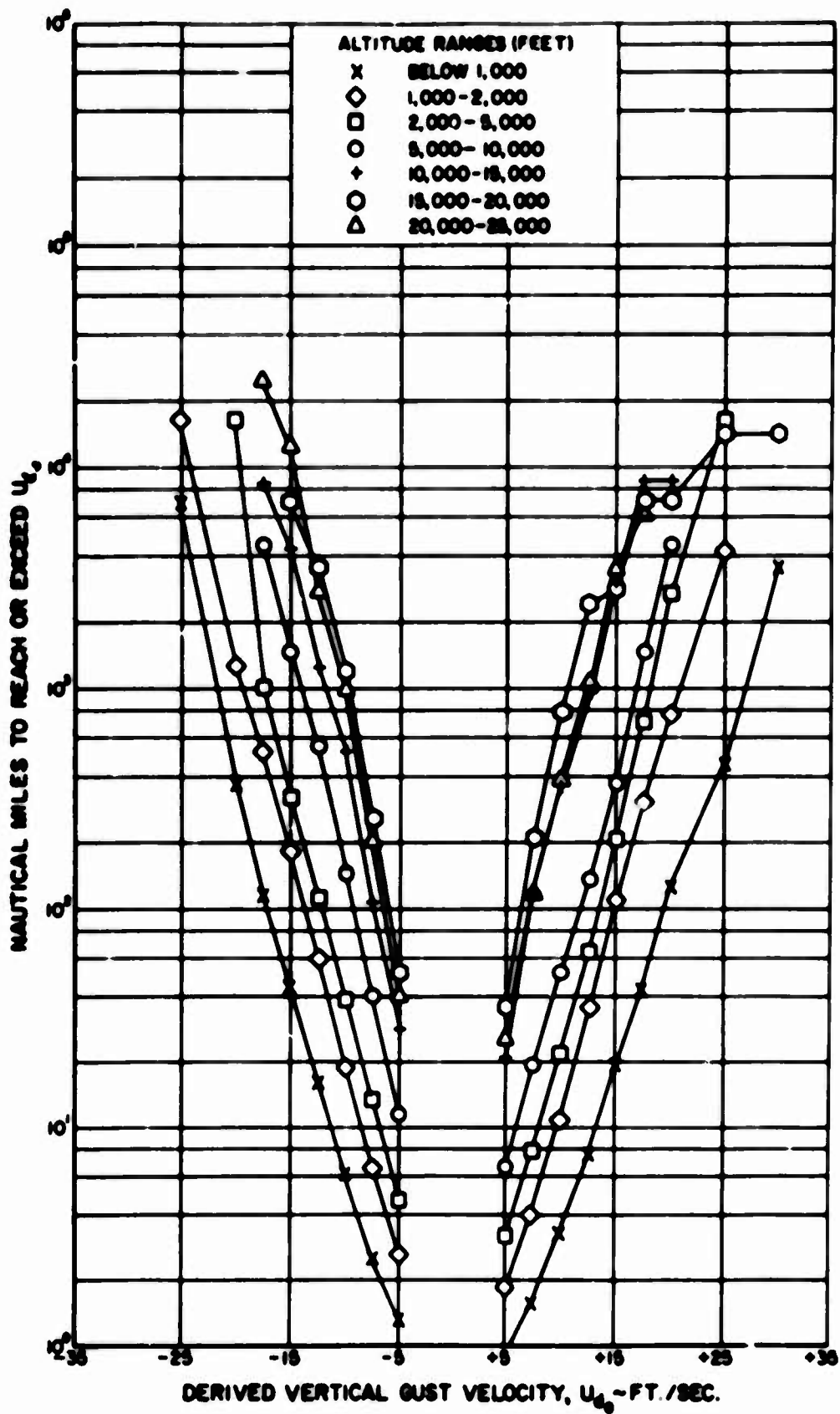


Figure A3. Gust Spectrum by Altitude Obtained from 1,200 Flight-Hours of IFL Data Acquired at Charleston Air Force Base (Refer to Table A1)

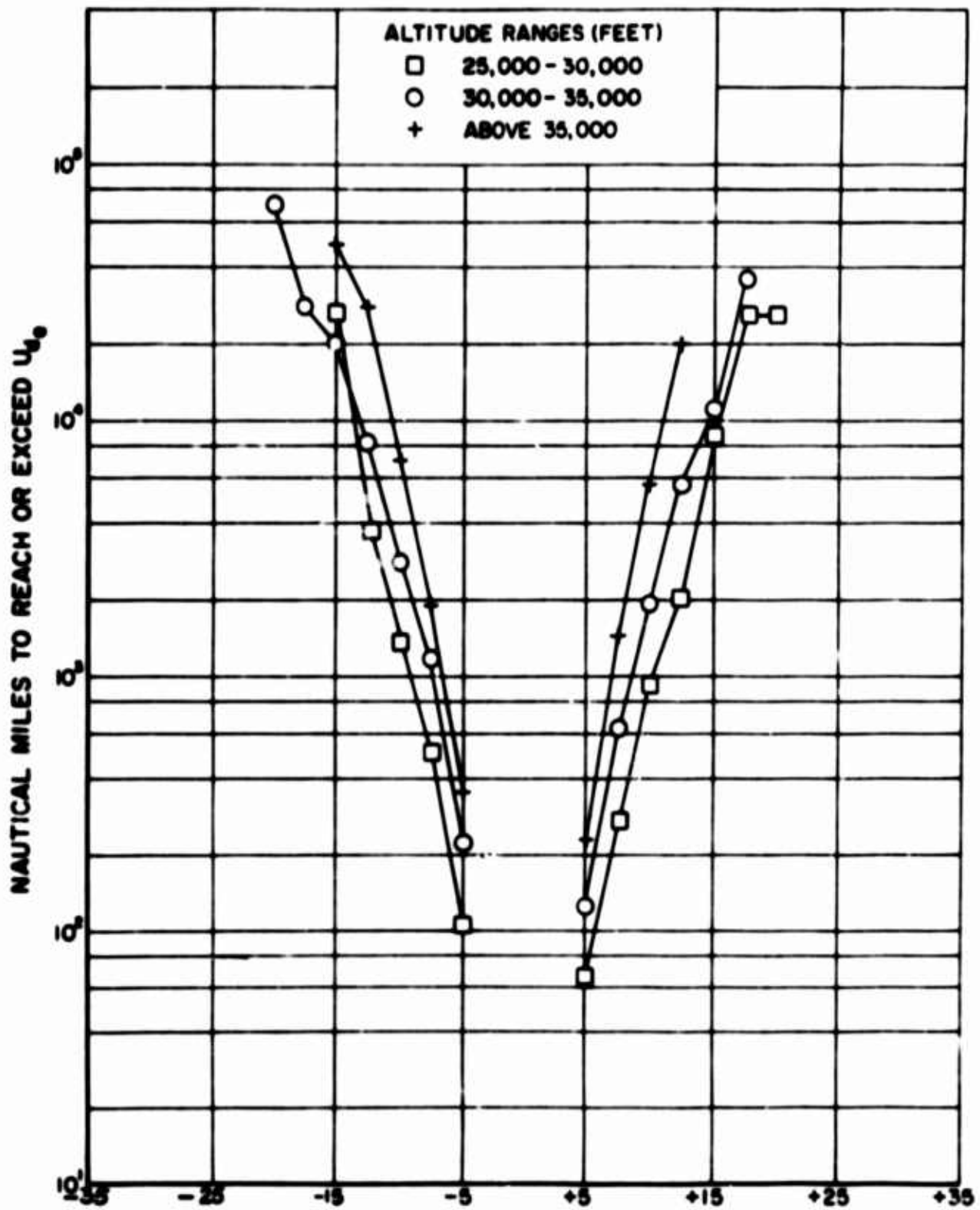


Figure A3 --- concluded

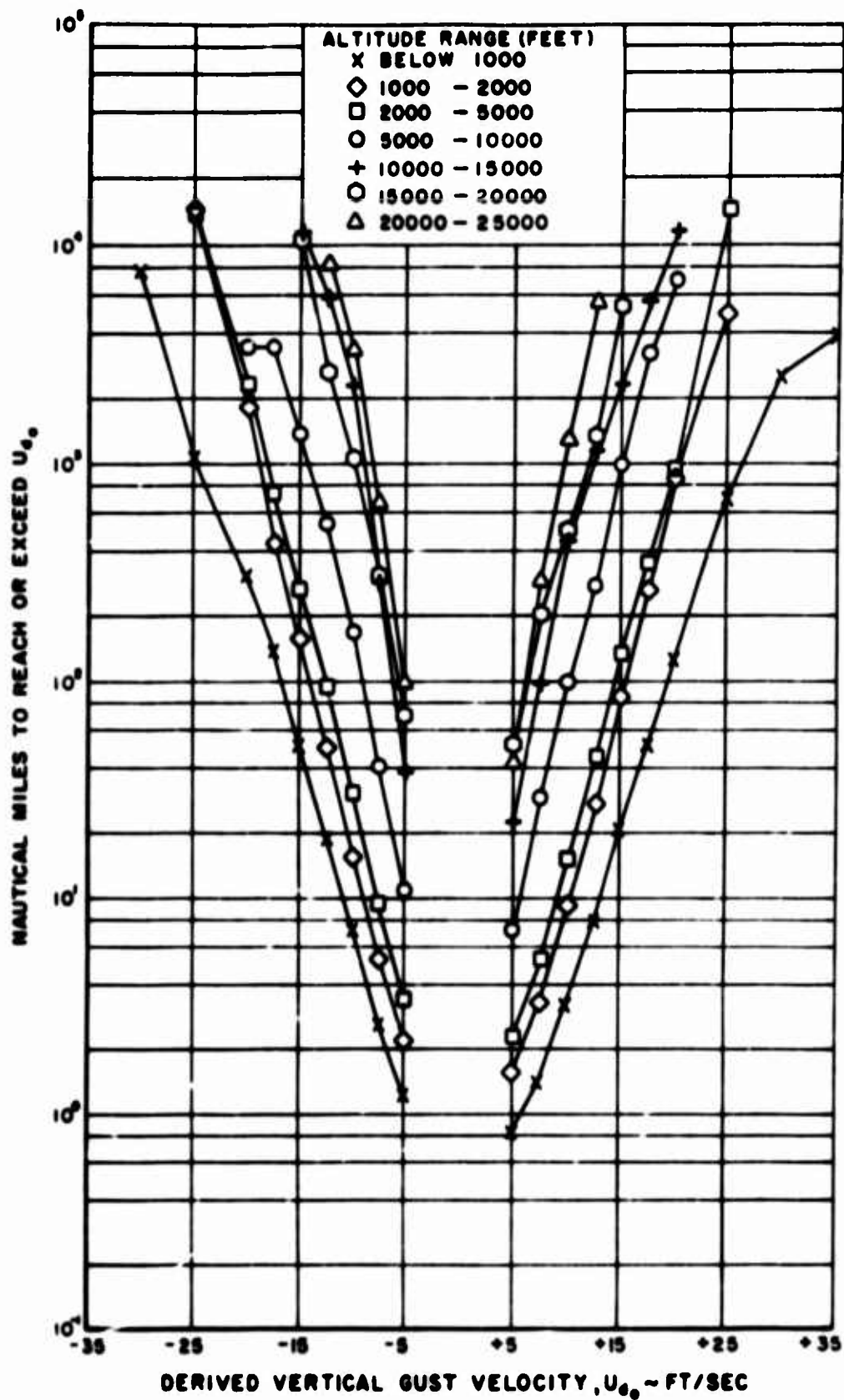


Figure A4. Gust Spectrum by Altitude Obtained from 1,221 Flight-Hours of IFL Data Acquired at Dover Air Force Base (Refer to Table A2)

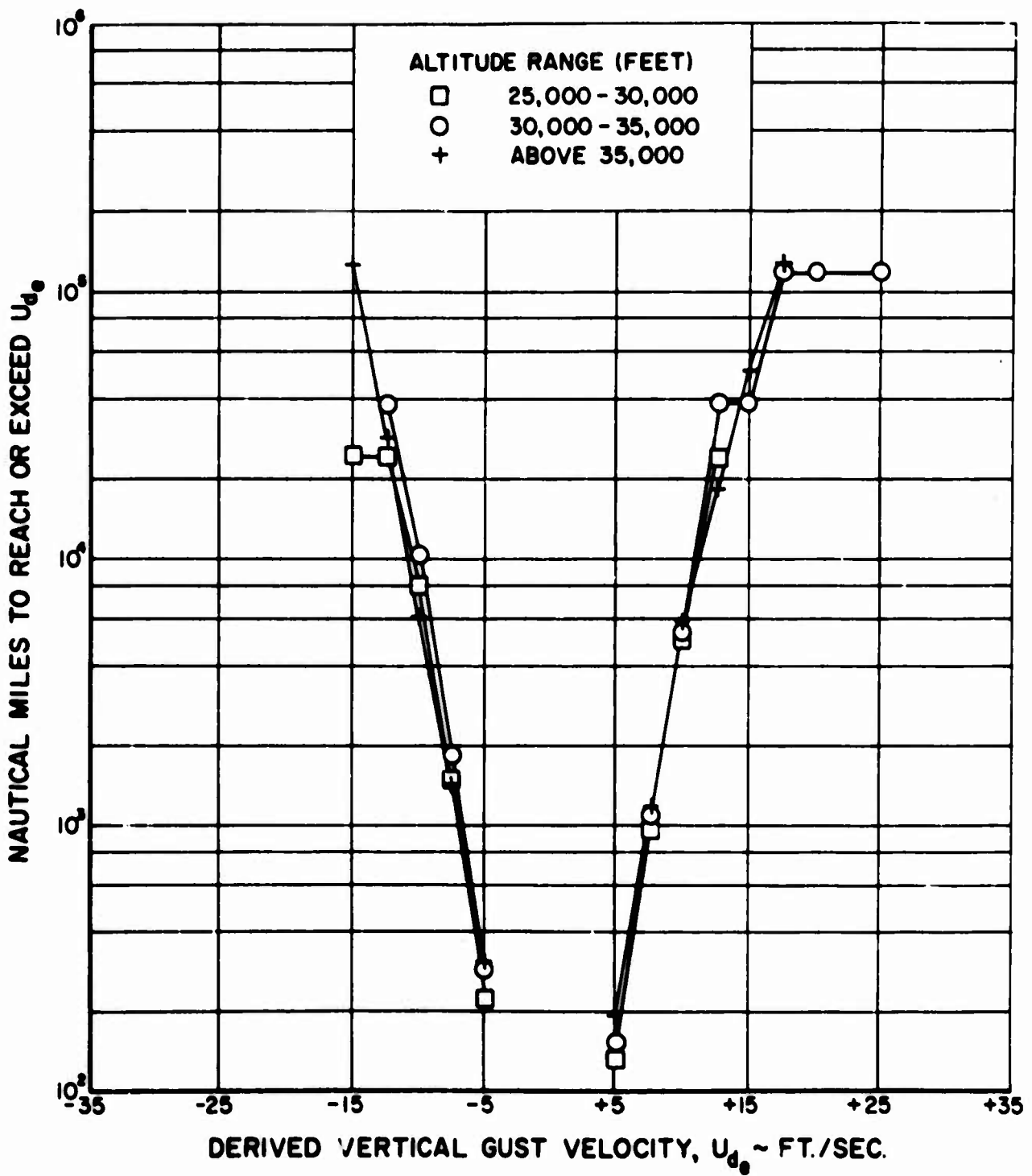


Figure A4 --- Concluded

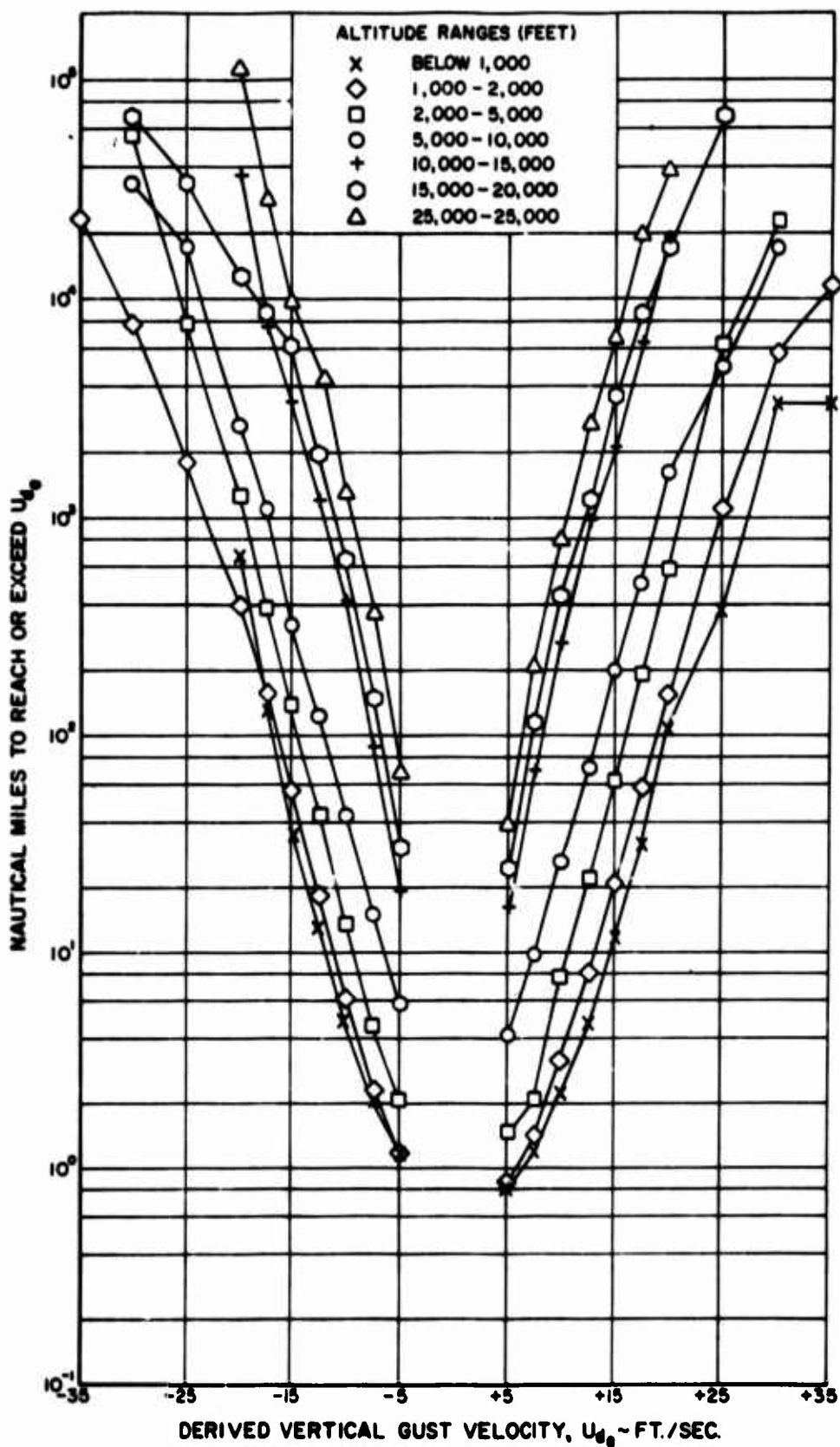


Figure A5. Gust Spectrum by Altitude Obtained from 1,792 Flight-Hours of IFL Data Acquired at Tinker Air Force Base (Refer to Table A3)

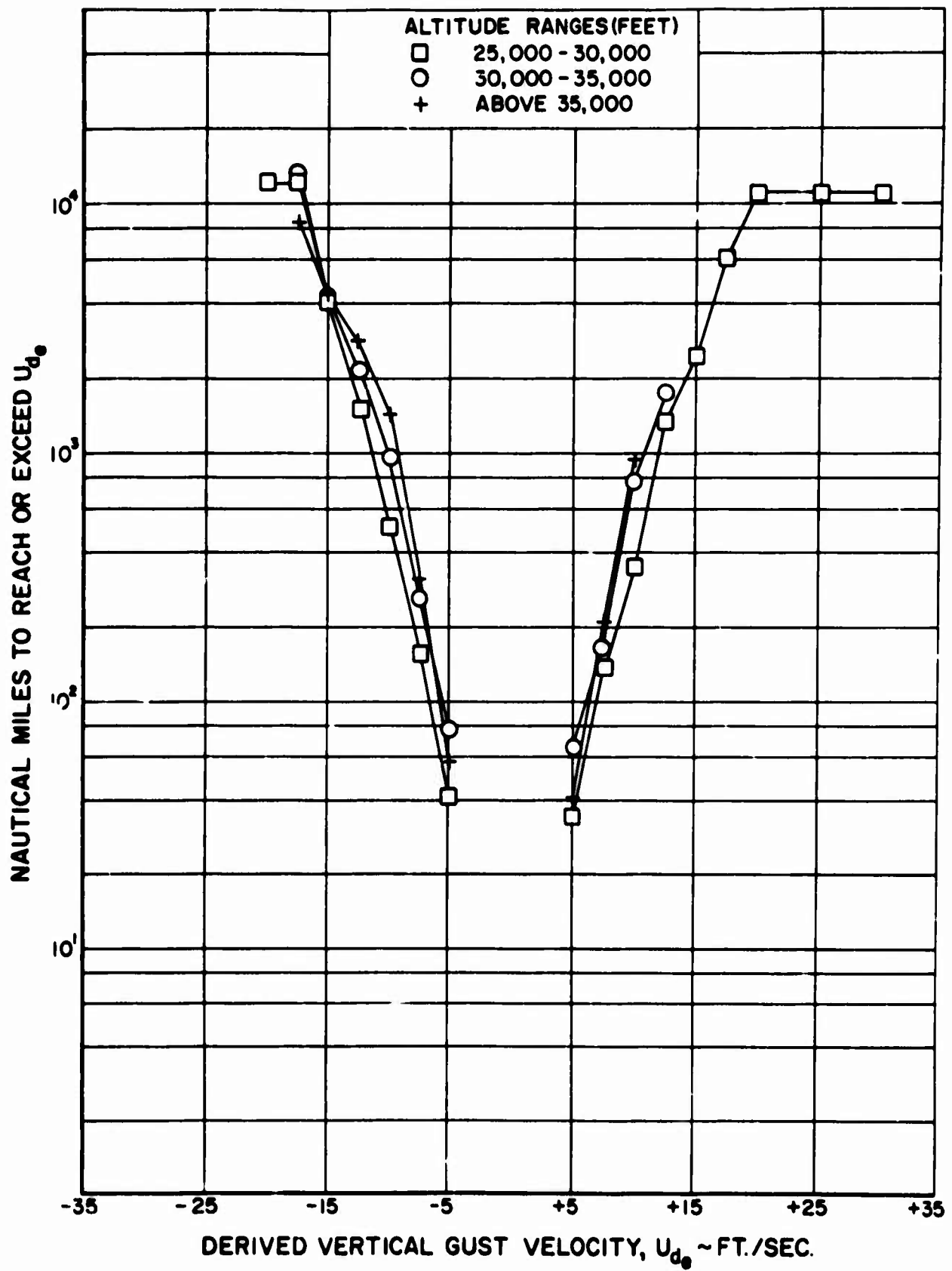


Figure A5 --- concluded

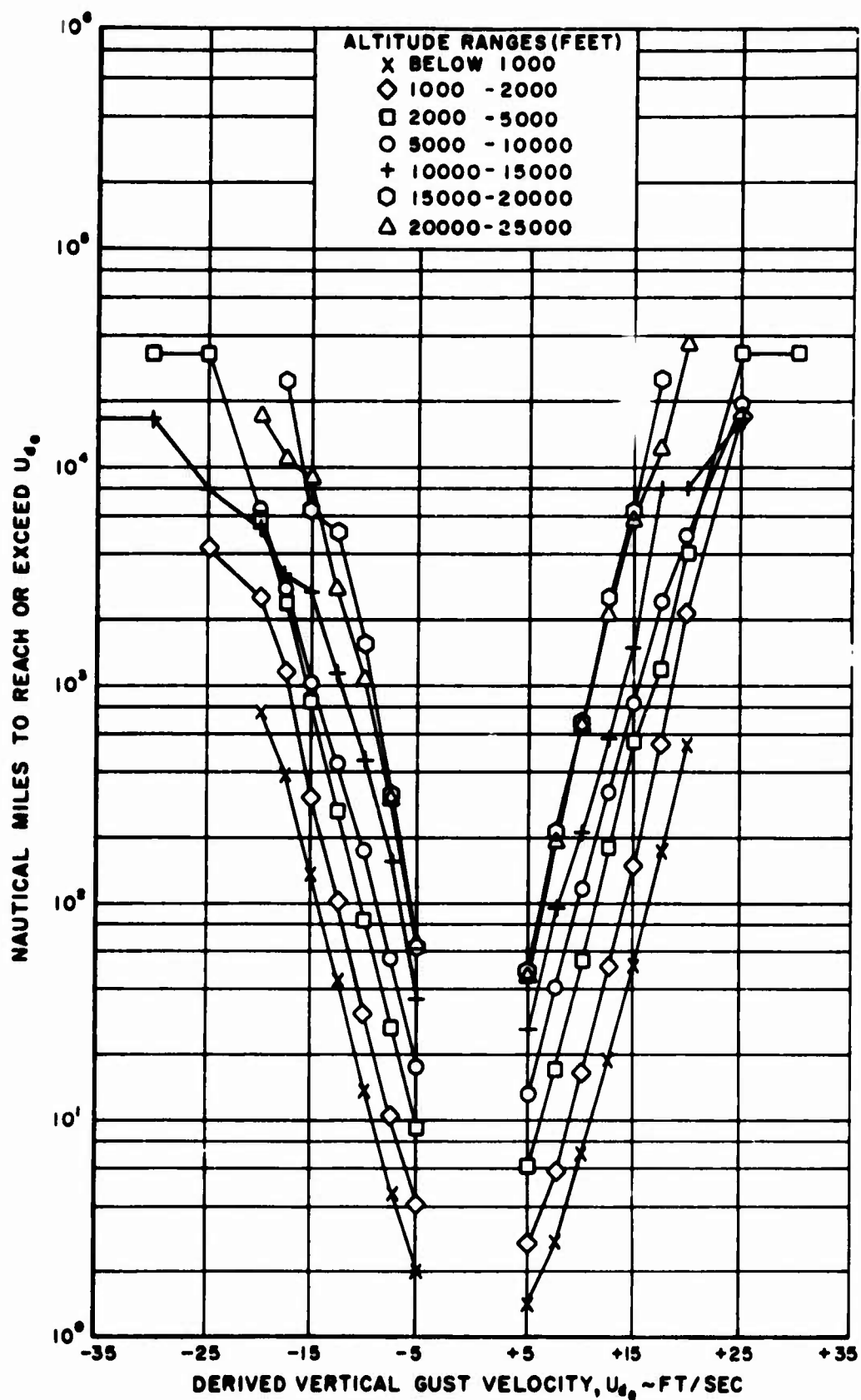


Figure A6. Gust Spectrum by Altitude Obtained from 2,141 Flight-Hours of IFL Data Acquired at Travis Air Force Base (Refer to Table A4)

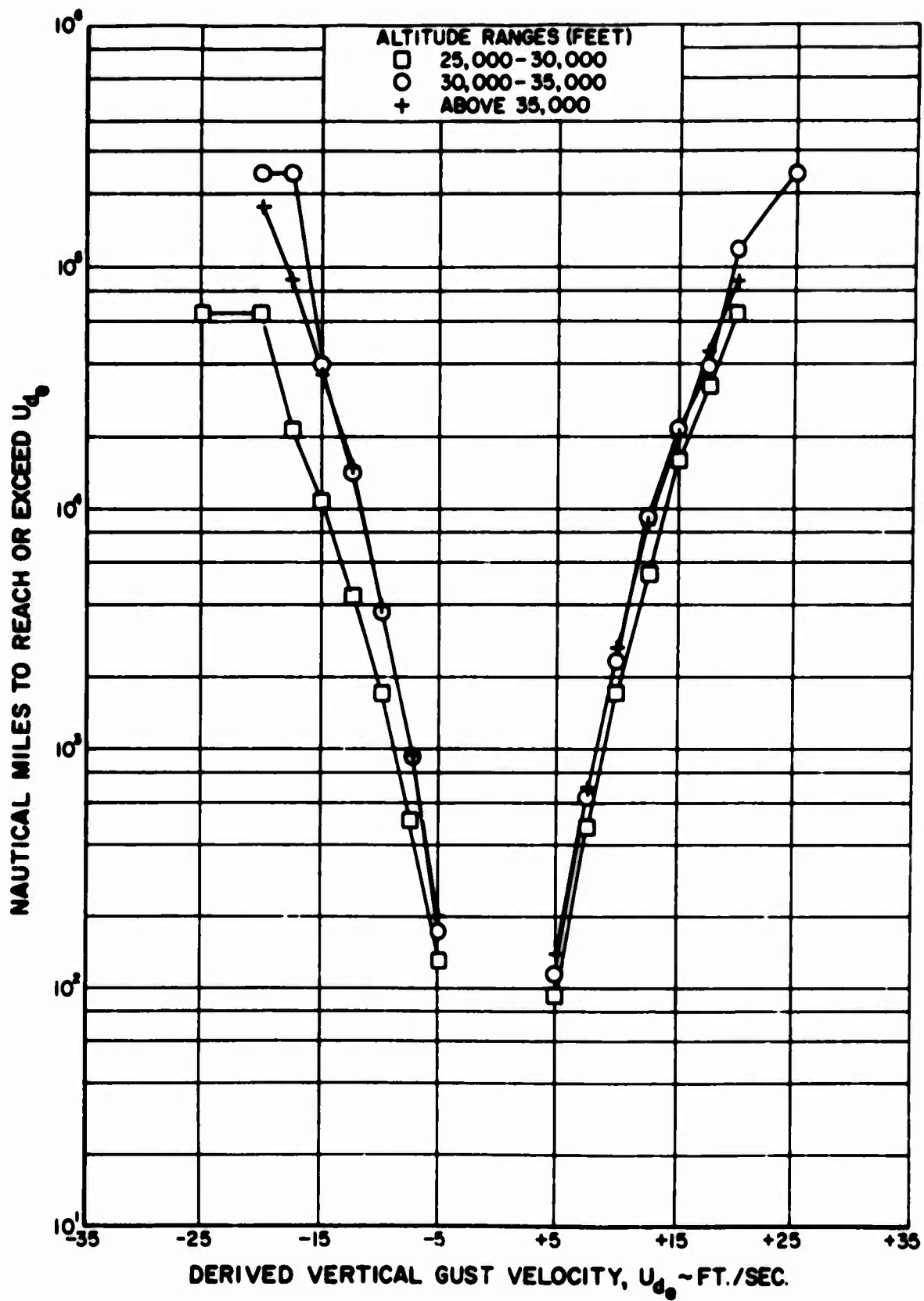


Figure A6 --- concluded

TABLE A1
DISTRIBUTION OF OBSERVED VERTICAL WIND VELOCITY
BY ALTITUDE
FOR THE
CHARLOTTE AIR FORCE BASE
7476 SAMPLES

ALTITUDE (1000 FT)	DISTANCE (MILES)	TOTAL SAMPLES	WIND DISTRIBUTION (FT./SEC.)																		
			-25	-20	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35		
0 TO 1	6879.3	12000			1	10	42	133	204	712	1645	2900	2900	2000	1000	500	100	137	43	10	2
1 TO 2	16661.0	10000			1	17	10	60	193	600	1700	1000	4000	2000	1000	500	00	00	00	10	0
2 TO 5	16777.1	8047			1	10	34	96	270	807	2000	2000	1000	607	170	00	17	0	1		
5 TO 10	8090.0	2120			2	0	13	00	100	500	000	000	000	170	01	10	0	2			
10 TO 15	8630.0	710			1	1	0	10	00	207	307	00	00	10	0	2		1			
15 TO 20	14641.0	600			2	2	0	00	40	200	307	00	00	10	1	0		1			1
20 TO 25	24917.3	1972			1	1	7	10	07	400	700	100	00	10	10	0	0				
25 TO 30	26795.0	697			1	0	10	00	00	200	100	00	10	10	2			1			
30 TO 35	16727.7	1700			2	0	2	10	00	71	510	000	100	00	10	0	0				
ABOVE 35	192011.0	1412			0	0	0	21	75	000	700	100	00	10							
TOTAL	654973.4	40020			2	30	00	200	610	1700	6072	11070	10000	7100	3017	1100	000	100	00	10	2

TABLE A2
DISTRIBUTION OF OBSERVED VERTICAL WIND VELOCITY
BY ALTITUDE
FOR THE
DAVIESS AIR FORCE BASE
7476 SAMPLES

ALTITUDE (1000 FT)	DISTANCE (MILES)	TOTAL SAMPLES	WIND DISTRIBUTION (FT./SEC.)																				
			-25	-20	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35				
0 TO 1	7692.3	12001			1	0	10	20	90	200	600	1000	2000	2000	1000	500	200	02	00	0	1	2	
1 TO 2	14436.7	10070			1	7	20	90	200	600	1000	1700	4700	2007	1000	500	117	00	10	0			
2 TO 5	14172.1	17371			1	0	10	30	90	300	1000	2000	2007	1700	612	210	00	20	10	1			
5 TO 10	6000.7	1000			2	0	0	20	100	400	717	170	00	10	0	1	1						
10 TO 15	11036.3	800			1	1	0	00	00	200	300	01	10	0	0	1	1						
15 TO 20	10045.2	300			1	0	0	20	117	100	10	10	0	0	2								
20 TO 25	16607.0	970			2	0	1	20	100	300	00	10	0										
25 TO 30	29001.2	300			1		2	10	00	107	20	0	1										
30 TO 35	110002.0	1100			0	0	0	00	000	600	00	10		2							1		
ABOVE 35	292012.0	2000			2	7	00	100	700	1100	170	00	0	0	2								
TOTAL	472100.4	40000			1	0	37	60	100	600	1600	9100	11000	10000	8100	3000	1000	611	100	70	10	1	2

TABLE A3
 DISTRIBUTION OF MEASURED VERTICAL GUST VELOCITY
 BY ALTITUDE
 FOR THE
 11400 AIR FORCE DATA
 DATA SAMPLE

ALTITUDE (1000 FT)	DISTANCE (MILES)	TOTAL POINTS	GUST DISTRIBUTION (FT./SEC.)																				
			-30	-20	-10	-5	0	5	10	15	20	25	30	35	40	45	50						
0000 1	1076.4	7071				5	21	71	156	400	600	1000	1000	1000	700	400	100	20	0	1			
1 70 2	21091.1	40073	1	2	10	44	90	272	671	1006	1004	1470	1001	1004	4400	1701	600	240	127	17	2	2	
2 70 3	111001.1	100007	2	13	76	200	420	1016	2016	10000	11000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
3 70 13	34470.4	10000	1	1	11	10	77	171	317	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
13 70 10	17013.0	4000				1	0	0	23	61	301	1000	1700	110	00	21	12	0	2				
10 70 23	60007.2	9070	1	1	1	2	0	24	70	100	1707	2001	600	100	10	11	0	1	1				
20 70 23	110000.2	4000				1	0	0	10	60	200	1000	2001	610	100	20	12	0	2				
20 70 13	12007.2	600				1		2	0	10	00	210	201	00	20	0	0	1					
20 70 10	12001.2	200				1		2	0	7	00	110	100	01	0	0	0	1					
40000 10	6000.0	207				1	1	1	0	21	101	100	10	0									
TOTAL	611002.0	210000	1	0	20	100	200	670	2000	6410	20070	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000

TABLE A4
 DISTRIBUTION OF MEASURED VERTICAL GUST VELOCITY
 BY ALTITUDE
 FOR THE
 11400 AIR FORCE DATA
 DATA SAMPLE

ALTITUDE (1000 FT)	DISTANCE (MILES)	TOTAL POINTS	GUST DISTRIBUTION (FT./SEC.)																				
			-30	-20	-10	-5	0	5	10	15	20	25	30	35	40	45	50						
0000 1	9076.0	11700				10	12	67	156	302	1007	2000	2077	2100	600	107	100	20	10				
1 70 7	17000.0	10000				0	0	0	42	113	207	1110	2770	2001	1011	700	200	00	20	7	1		
2 70 0	10000.7	6000	1			0	0	20	07	270	000	2000	2010	1010	100	120	00	10	7				
3 70 13	1017.2	2000				0	0	12	20	04	240	720	007	100	100	10	10	0	1	1			
10 70 10	10107.4	1000	1			1	1	2	1	0	21	00	100	000	01	00	17	0	1	1			
10 70 23	20010.2	600				1	0	1	11	00	117	031	70	27	0	0	1						
20 70 23	10002.4	1000				2	1	1	0	20	00	400	001	100	10	11	0	2	1				
20 70 13	60007.2	1100				1		2	0	0	20	00	170	001	00	20	0	2	1	1			
20 70 10	20012.2	2070				1		0	11	00	100	1100	1710	270	77	10	0	0	1	1			
40000 10	10000.1	6000				2	2	0	10	00	201	1010	2702	100	00	20	0	0	0				
TOTAL	611112.4	66107	1	1	0	10	40	100	420	1000	4401	10000	10000	1700	2000	100	100	00	40	0	1		

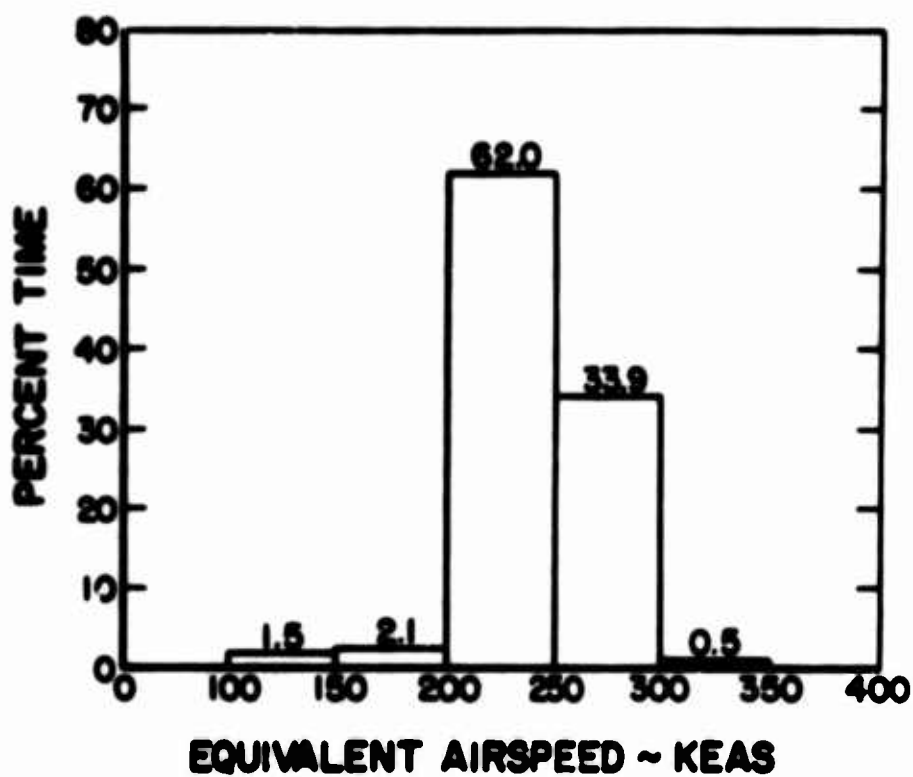


Figure A7 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Medium Range Missions

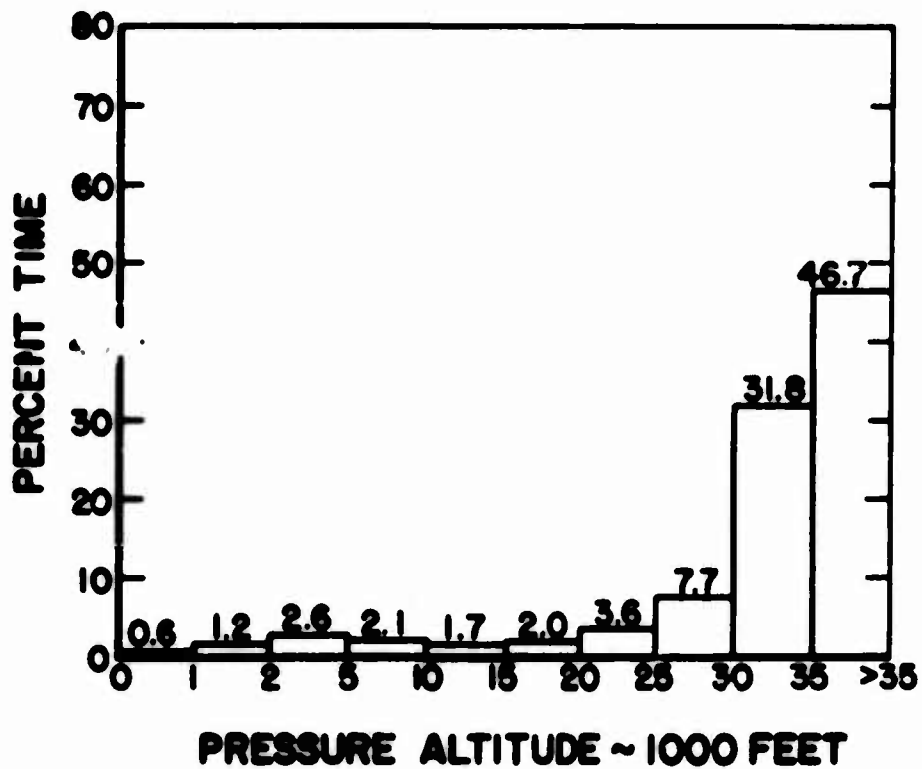


Figure A8 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Medium Range Missions

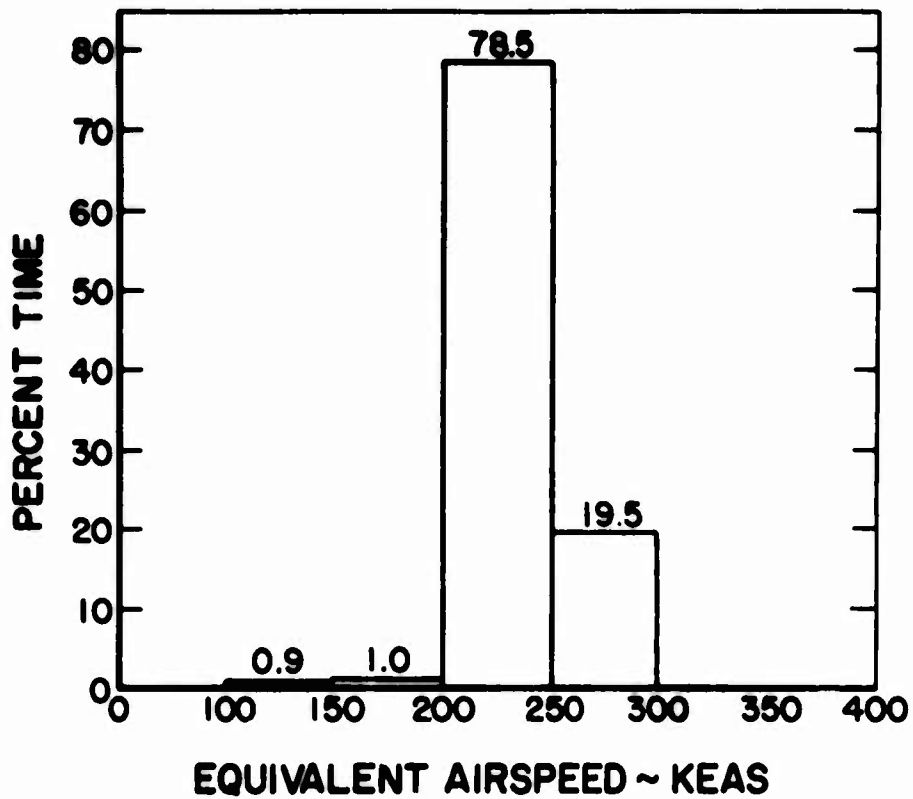


Figure A9 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Long Range Missions

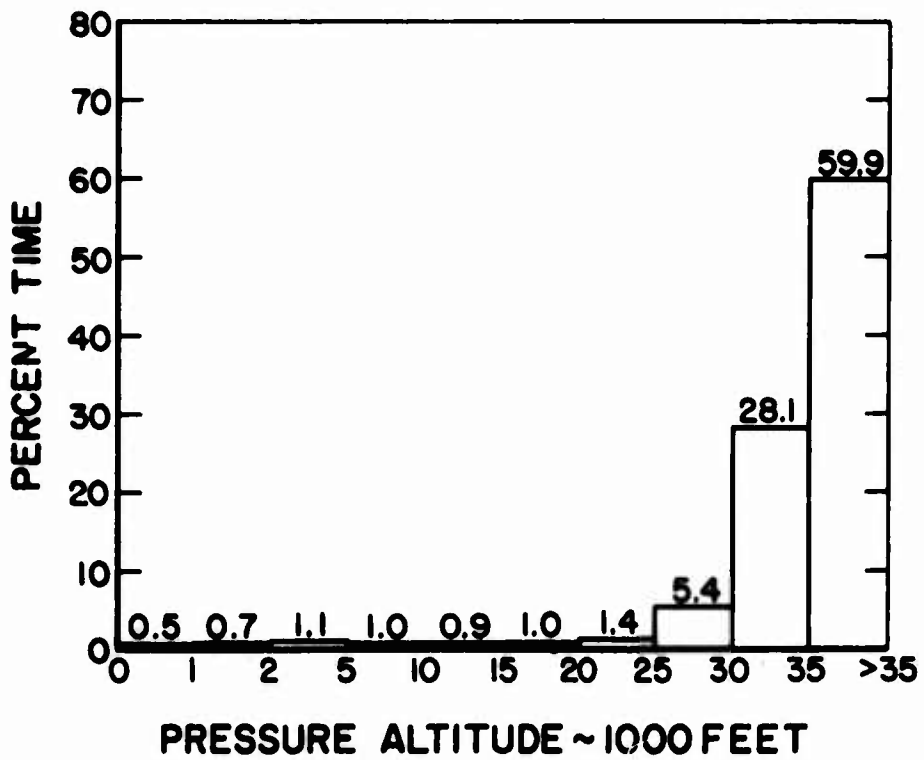


Figure A10 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Long Range Missions

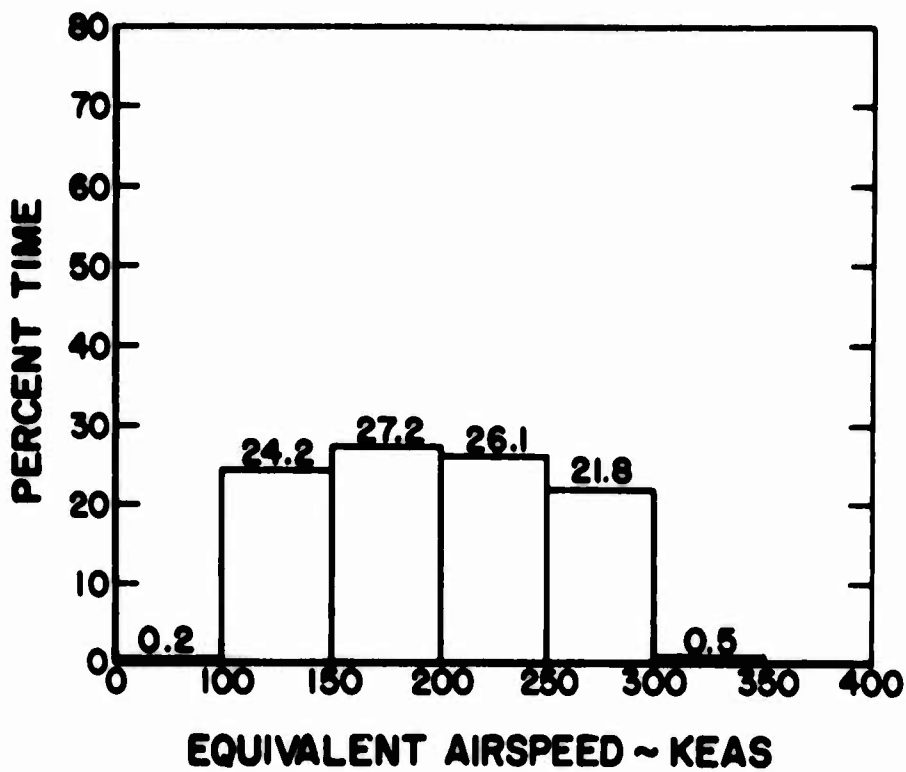


Figure A11 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Training Missions

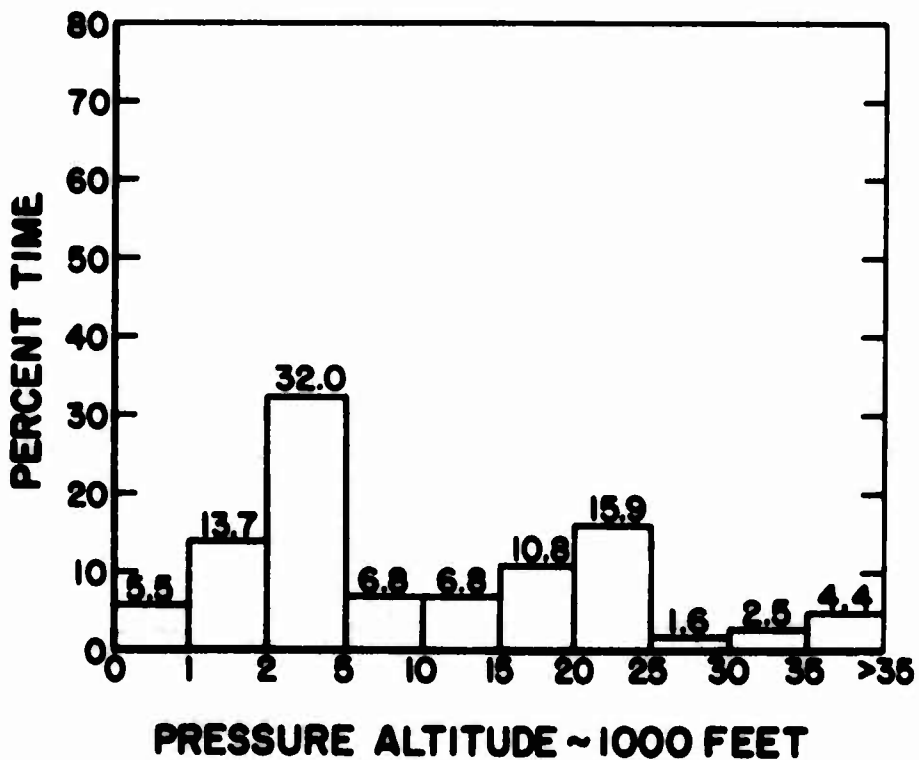


Figure A12 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Training Missions

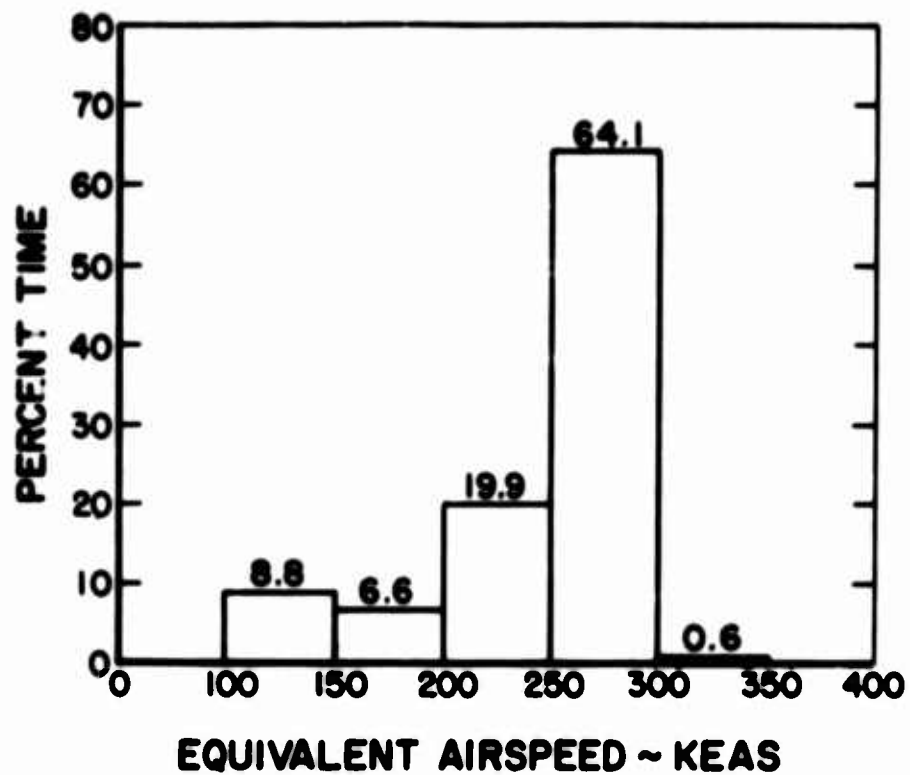


Figure A13 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Drop Short Range Missions

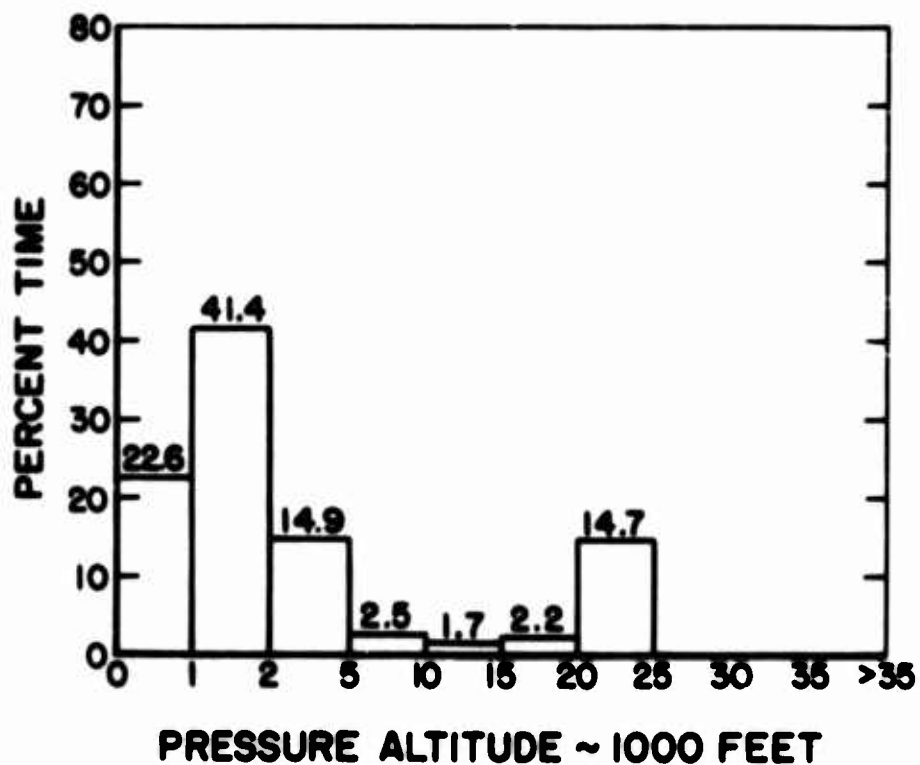


Figure A14 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Drop Short Range Missions

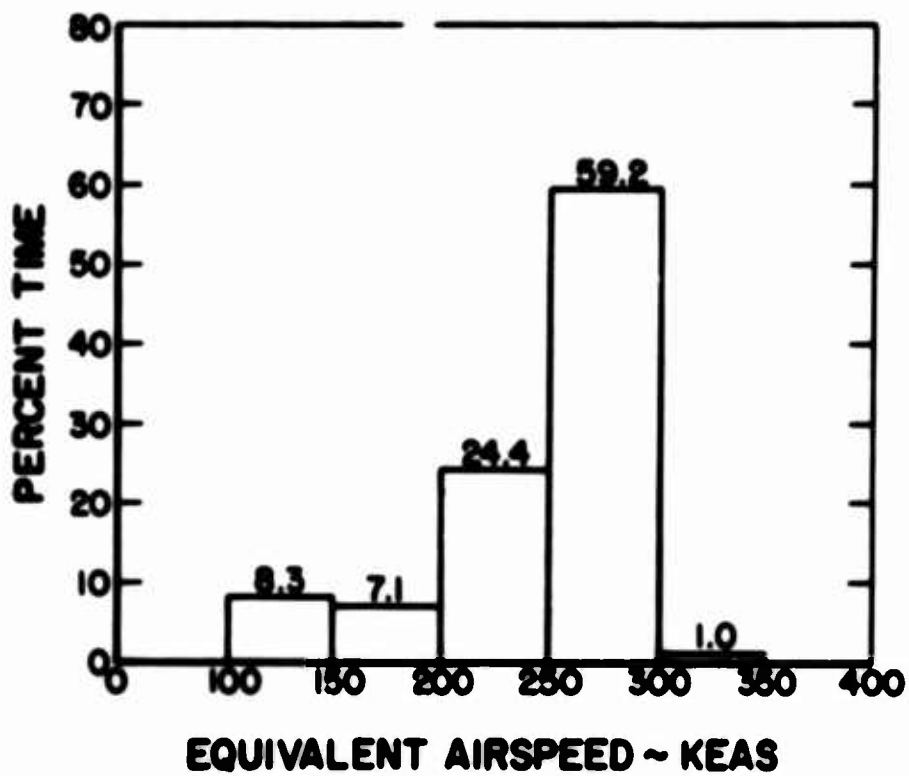


Figure A15 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Miscellaneous Missions

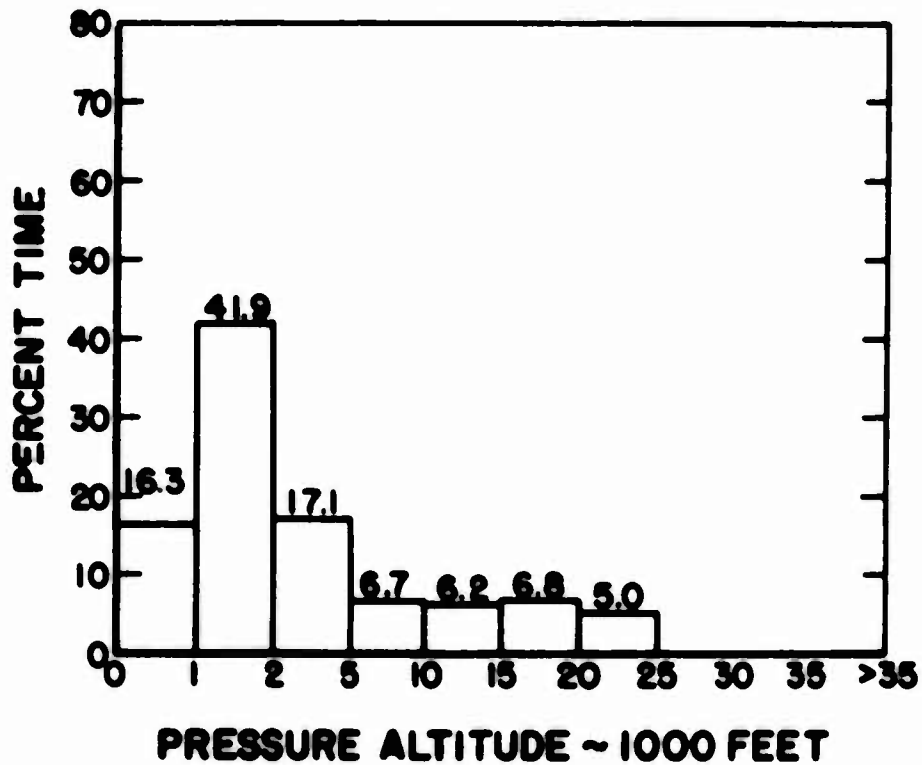


Figure A16 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Miscellaneous Missions

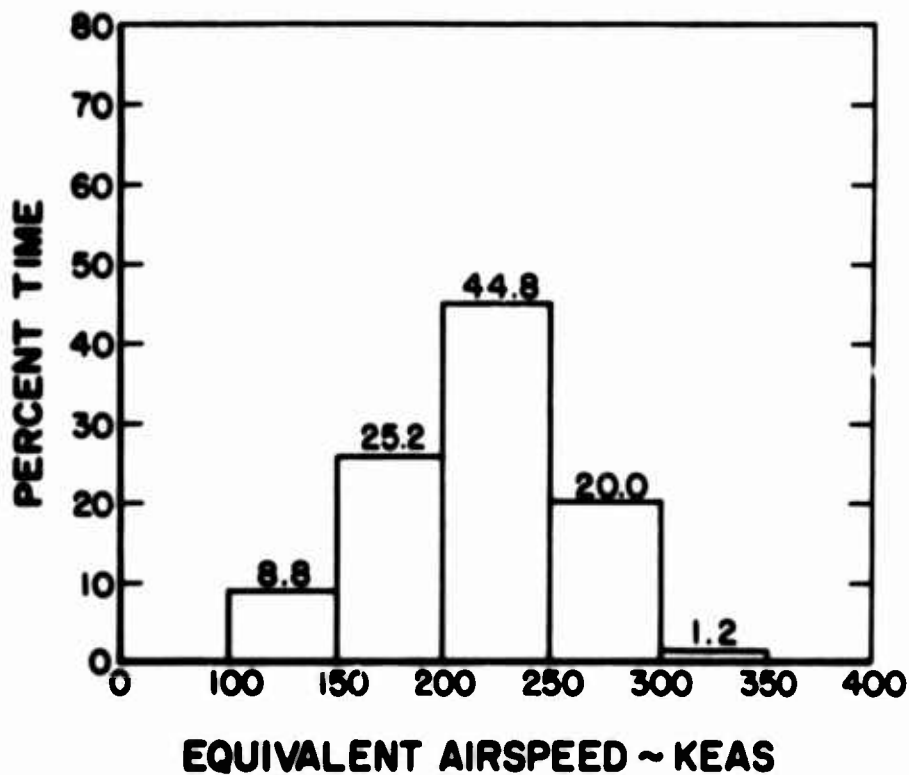


Figure A17 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Flight Test Missions

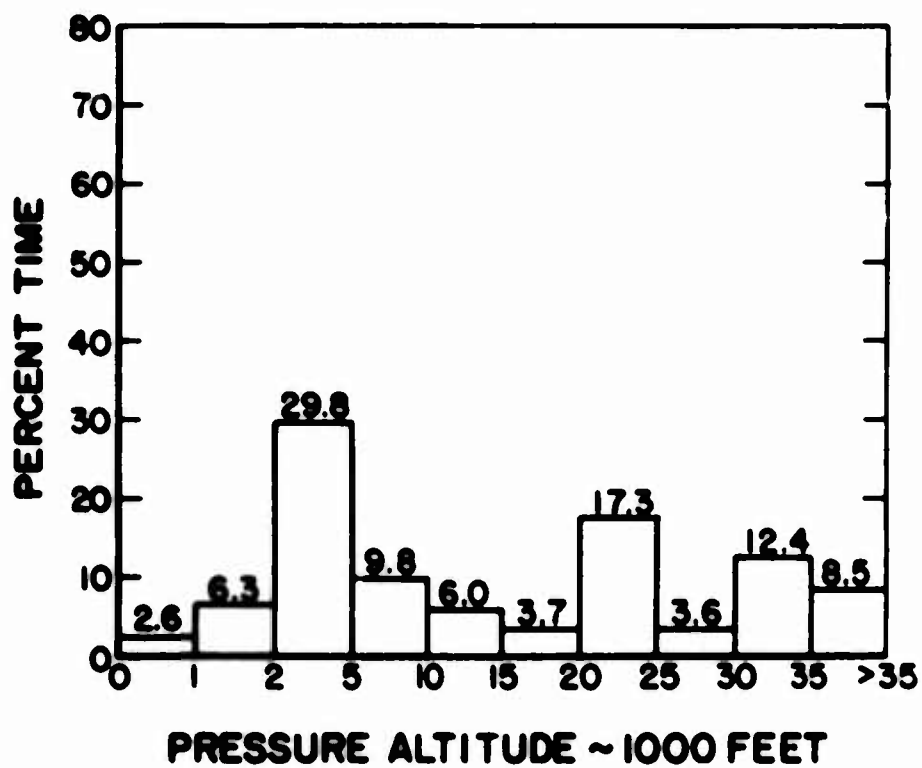


Figure A18 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Flight Test Missions

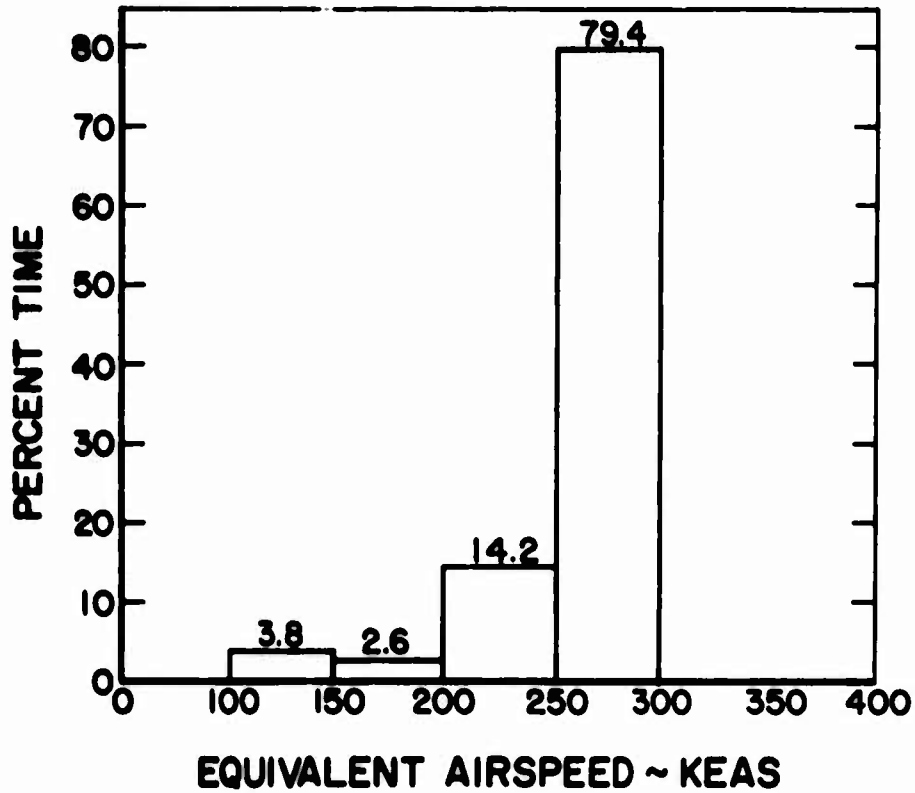


Figure A19 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Airborne Training Missions

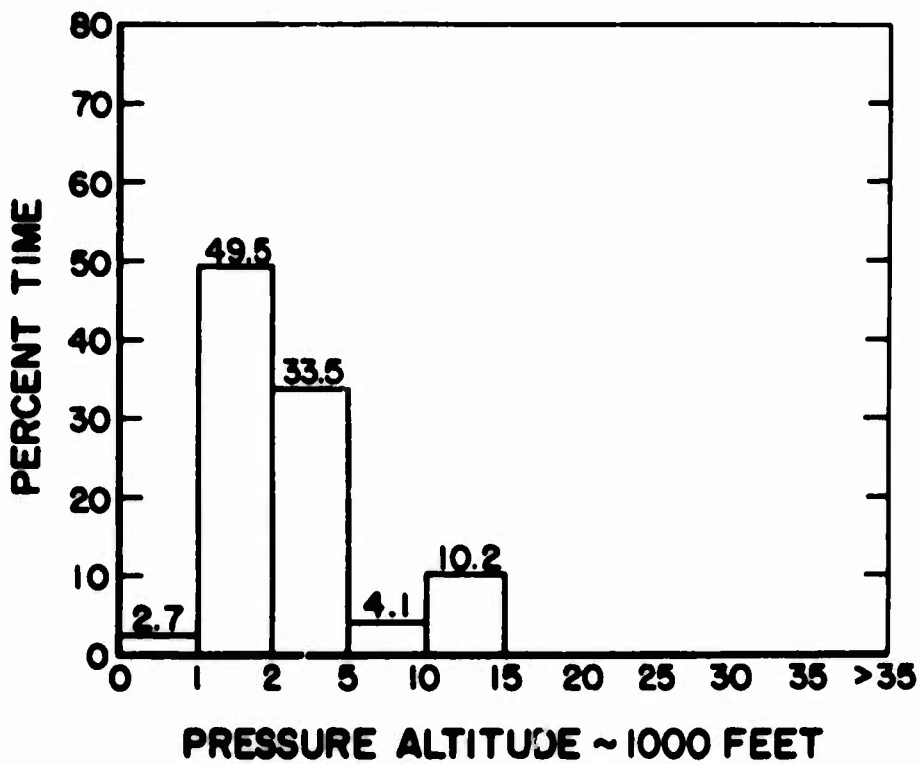


Figure A20 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Airborne Training Missions

TABLE A5
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
LOGISTICS, MEDIUM RANGE MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)										TOTAL TIME	PERCENT TIME
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35		
BELOW 100	0.06	0.01	0.	0.	0.	0.	0.	0.	0.	0.	0.07	0.33
100 TO 150	11.70	17.07	14.14	1.10	0.01	0.01	0.	0.02	0.07	0.	44.90	1.47
150 TO 200	6.19	13.73	29.05	7.60	1.15	0.55	0.04	0.00	4.02	0.02	64.02	2.12
200 TO 250	0.77	2.70	17.91	15.00	3.03	3.24	3.73	32.34	443.00	1369.02	1094.39	62.02
250 TO 300	0.10	1.27	16.91	39.84	44.05	56.54	90.04	203.03	320.42	56.79	1036.42	33.93
300 TO 350	0.	0.04	1.25	1.25	0.05	1.19	0.76	0.23	0.02	0.	13.50	0.44
350 TO 400	0.	0.	0.00	0.	0.00	0.	0.	0.	0.	0.	0.01	0.00
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	10.01	39.71	79.27	64.00	50.69	61.63	110.20	236.42	969.55	1427.24	3054.20	
PERCENT	0.62	1.17	2.60	2.12	1.60	2.02	3.61	7.74	31.76	46.73		100.00

TABLE A6
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
LOGISTICS, LONG RANGE MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)										TOTAL TIME	PERCENT TIME
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35		
BELOW 100	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
100 TO 150	1.00	1.54	0.04	0.03	0.	0.	0.	0.	0.	0.	4.01	0.08
150 TO 200	0.43	1.12	1.44	0.40	0.15	0.	0.	0.	0.21	0.05	4.60	1.03
200 TO 250	0.10	0.30	1.47	0.90	0.40	0.10	2.32	17.06	69.72	209.00	397.21	70.40
250 TO 300	0.	0.15	1.35	2.01	3.46	4.31	5.70	6.90	50.19	0.16	80.02	19.52
300 TO 350	0.	0.	0.10	0.13	0.07	0.02	0.09	0.	0.	0.	0.41	0.09
350 TO 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	2.13	3.19	3.21	4.43	6.03	4.32	6.15	24.77	120.11	272.01	459.14	
PERCENT	0.47	0.70	1.14	0.97	0.80	0.95	1.35	5.44	26.15	59.96		100.00

TABLE A7
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
TRAINING MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)										TOTAL TIME	PERCENT TIME
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35		
BELOW 100	1.64	2.23	9.95	0.01	0.00	0.	0.	0.	0.	0.	4.43	0.16
100 TO 150	100.00	219.70	312.72	2.00	6.05	0.17	5.10	0.	0.13	0.03	649.90	24.20
150 TO 200	32.25	130.24	304.05	30.93	33.31	44.61	70.20	2.40	10.00	0.00	793.37	27.23
200 TO 250	3.95	10.02	142.54	50.19	37.05	120.70	109.05	3.60	25.17	110.54	721.79	26.00
250 TO 300	5.12	9.10	44.20	70.93	07.07	125.03	170.36	36.34	33.14	6.22	602.40	21.77
300 TO 350	0.01	0.10	1.60	3.47	2.01	3.27	3.30	0.36	0.	0.	15.11	0.55
350 TO 400	0.	0.	0.	0.00	0.00	0.02	0.14	0.17	0.	0.	0.35	0.01
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	151.95	370.40	685.74	107.32	100.12	200.07	430.05	43.05	69.24	123.21	2766.96	
PERCENT	5.49	13.71	32.01	6.77	6.00	10.00	15.07	1.56	2.50	4.45		100.00

TABLE AA
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
LOGISTICS DROP, SHORT RANGE MISSION

AIRSPEED (KNOTS)	ALTITUDE (1000 FT.)										TOTAL TIME	PERCENT TIME	
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35			
BELOW 100	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
100 TO 150	0.15	0.60	0.	0.	0.	0.	0.	0.	0.	0.	0.03	0.01	0.01
150 TO 200	0.11	0.40	0.03	0.	0.	0.	0.	0.	0.	0.	0.02	0.02	0.02
200 TO 250	0.20	0.91	0.07	0.	0.	0.01	0.	0.	0.	0.	1.00	19.07	19.07
250 TO 300	1.59	1.01	0.06	0.23	0.10	0.00	1.39	0.	0.	0.	6.05	64.06	64.06
300 TO 350	0.	0.02	0.00	0.	0.	0.	0.	0.	0.	0.	0.00	0.00	0.00
350 TO 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	2.13	3.91	1.41	0.23	0.10	0.00	1.39	0.	0.	0.	9.44		
PERCENT	22.60	41.40	14.91	2.47	1.00	0.00	14.77	0.	0.	0.		100.00	

TABLE AA
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
WACCELLANDER MISSION

AIRSPEED (KNOTS)	ALTITUDE (1000 FT.)										TOTAL TIME	PERCENT TIME	
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35			
BELOW 100	0.01	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.01	0.01	0.01
100 TO 150	1.06	3.73	0.25	0.	0.	0.	0.	0.	0.	0.	5.04	8.25	8.25
150 TO 200	0.40	3.31	0.04	0.	0.	0.	0.	0.	0.	0.	4.36	7.13	7.13
200 TO 250	1.34	6.02	3.37	1.02	0.78	0.01	0.10	0.	0.	0.	14.91	24.40	24.40
250 TO 300	7.11	10.33	0.01	2.93	3.00	3.00	2.00	0.	0.	0.	30.14	50.13	50.13
300 TO 350	0.	0.21	0.13	0.13	0.10	0.07	0.01	0.	0.	0.	0.64	1.03	1.03
350 TO 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	9.95	29.61	10.41	4.00	3.00	4.17	3.07	0.	0.	0.	61.10		
PERCENT	16.20	48.41	17.00	6.50	4.90	6.80	5.00	0.	0.	0.		100.00	

TABLE A10
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
FLIGHT TEST MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)										TOTAL TIME	PERCENT TIME	
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35			
BELOW 100	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
100 TO 150	0.12	0.16	0.25	0.	0.	0.	0.	0.	0.	0.	0.53	0.60	
150 TO 200	0.02	0.15	0.60	0.25	0.10	0.	0.00	0.	0.00	0.14	1.51	25.17	
200 TO 250	0.01	0.05	0.65	0.09	0.13	0.10	0.74	0.12	0.45	0.35	2.69	44.84	
250 TO 300	0.	0.01	0.20	0.21	0.10	0.12	0.21	0.10	0.22	0.02	1.20	19.90	
300 TO 350	0.	0.	0.01	0.03	0.03	0.	0.	0.	0.	0.	0.07	1.22	
350 TO 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
TOTAL	0.15	0.30	1.79	0.59	0.36	0.22	1.04	0.21	0.75	0.51	6.01		
PERCENT	2.50	5.33	29.66	9.77	5.97	3.69	17.29	3.50	12.43	8.52		100.00	

TABLE A11
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
AIRBORNE TRAINING MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)										TOTAL TIME	PERCENT TIME
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35		
BELOW 100	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
100 TO 150	0.03	0.02	0.	0.	0.	0.	0.	0.	0.	0.	0.05	3.75
150 TO 200	0.00	0.03	0.	0.	0.	0.	0.	0.	0.	0.	0.04	2.62
200 TO 250	0.00	0.09	0.11	0.	0.	0.	0.	0.	0.	0.	0.21	14.22
250 TO 300	0.	0.57	0.30	0.06	0.15	0.	0.	0.	0.	0.	1.16	79.41
300 TO 350	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
350 TO 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	0.04	0.72	0.49	0.06	0.15	0.	0.	0.	0.	0.	1.46	
PERCENT	2.73	49.49	33.45	4.10	10.20	0.	0.	0.	0.	0.		100.00

TABLE A11
DISTRIBUTION OF MANHOUR LOAD FACTORS
FOR THE
CHARLESTON AIR FORCE BASE
LOGISTICS, RESERVE BRANCH MISSION
DATA SAMPLE

U-NO-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
2 1 2	1.0	0															
2 2 2	4.0	0															
2 2 3	1.0	0															
2 3 2	10.2	1															
2 3 3	9.0	0															
2 3 4	1.0	1															
2 3 5	0.4	2															
2 4 4	2.4	2															
2 4 5	2.2	1															
2 5 5	3.0	2															
2 6 5	4.7	0															
2 7 5	4.0	0															
2 8 5	4.5	0															
2 9 4	1.0	0															
2 9 5	2.0	0															
2 10 4	16.5	0															
2 10 5	20.5	0															
3 1 2	95.5	22															
3 1 3	19.7	3															
3 1 4	3.5	2															
3 2 2	213.0	30															
3 2 3	126.2	32															
3 2 4	20.0	14															
3 2 5	2.4	6															
3 3 2	140.3	28															
3 3 3	263.9	107															
3 3 4	146.1	95															
3 3 5	64.5	31															
3 3 6	7.5	5															
3 4 2	14.2	14															
3 4 3	31.4	20															
3 4 4	87.5	47															
3 4 5	103.0	60															
3 4 6	3.9	1															
3 5 3	2.5	0															
3 5 4	14.3	12															
3 5 5	209.5	45															
3 6 4	3.5	0															
3 6 5	254.3	51															
3 6 6	4.1	0															
3 7 3	2.0	0															
3 7 4	26.4	41															
3 7 5	425.1	124															
3 7 6	4.0	2															
3 8 4	16.7	11															
3 8 5	349.4	40															
3 8 6	1.0	1															
3 9 3	1.0	0															
3 9 4	651.0	10															
3 9 5	1220.4	49															
3 10 3	21.2	0															
3 10 4	3310.4	34															
3 10 5	196.4	4															
4 1 2	64.6	26															
4 1 3	37.0	22															
4 1 4	2.1	3															
4 1 5	0.1	0															
4 2 2	88.0	13															
4 2 3	133.4	51															
4 2 4	19.1	24															
4 2 5	4.6	21															
4 2 6	1.2	0															
4 3 2	43.4	12															
4 3 3	220.1	79															
4 3 4	140.5	69															
4 3 5	73.0	137															
4 3 6	3.2	11															
4 4 2	3.8	1															
4 4 3	41.9	14															
4 4 4	161.3	72															
4 4 5	239.4	167															
4 4 6	11.2	10															
4 5 3	0.5	0															
4 5 4	31.2	12															
4 5 5	254.0	31															
4 6 4	3.1	3															
4 6 5	13.1	2															
4 6 6	307.1	29															
4 6 8	14.3	15															
4 7 3	2.0	0															
4 7 4	39.5	13															
4 7 5	394.7	37															
4 7 6	23.0	0															
4 8 3	4.0	3															
4 8 4	20.4	23															
4 8 5	1347.0	66															
4 9 3	110.3	27															
4 9 6	2039.5	91															
4 9 8	4447.2	68															
4 10 3	7.5	0															
4 10 4	11040.2	124															
4 10 5	275.0	1															
5 1 2	20.2	11															
5 1 3	41.0	23															
5 1 4	0.9	0															
5 2 2	1.1	2															
5 2 3	33.7	10															
5 2 4	7.0	3															
5 2 5	1.4	2															

TABLE A11 continued
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 CHALLENGER AND FORCE ARMS
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

U-NO-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.3	0.0	0.3	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
5 1 3	31.5	29					2	0	10	1							
5 3 4	34.6	21						2	15	3	1						
5 3 8	57.7	48					2	0	34	3							
5 3 6	2.2	1							1								
5 4 0	0.5	2						1	1								
5 4 8	122.7	94					2	7	35	11	1						
5 4 6	7.5	17						2	13	2							
5 5 0	2.5	0															
5 5 5	142.0	0						4	5								
5 5 6	7.6	4							3	1							
5 6 4	1.3	0															
5 6 3	191.3	0						2	6								
5 6 6	3.5	2						1	1								
5 7 4	1.0	0															
5 7 5	207.4	0							7								
5 7 6	1.0	0															
5 8 4	10.0	1							1								
5 8 5	954.5	17						3	12	2							
5 9 4	4470.9	64						11	44	0	1						
5 9 5	2927.3	77						9	56	7	0						
5 10 4	7031.5	100			1	3	3	14	63	9	7						
5 10 5	457.0	3						1	2								
6 1 2	15.1	5							5								
6 1 3	40.8	25						6	18	1							
6 1 4	3.0	7							2								
6 1 9	0.2	0															
6 2 2	2.0	0															
6 2 3	21.6	10						7	3								
6 2 4	11.9	21						2	12	7							
6 2 5	5.2	5							2	3							
6 3 2	1.4	0															
6 3 3	17.1	10						4	4	2							
6 3 4	32.8	17						1	14	2							
6 3 5	74.6	82					3	15	56	7	1						
6 3 6	3.5	3						2	1								
6 4 3	3.0	1							1								
6 4 5	133.3	32					1	9	22								
6 4 6	8.7	4							3	1							
6 5 3	0.5	0															
6 5 4	2.0	0															
6 5 5	154.7	16						4	12								
6 5 6	1.3	1							1								
6 6 3	184.9	8						1	7								
6 7 4	1.5	0							7								
6 7 5	205.4	10						2	7	1							
6 8 4	17.8	1							1								
6 8 5	476.2	21						7	11	3							
6 9 4	904.1	11					1	3	7								
6 9 5	1105.7	7						2	4	1							
6 10 4	395.3	3							2	1							
6 10 5	15.0	0															
TOTAL	52969.0	3008	0	0	5	16	91	362	1935	392	84	3	0	0	0	0	0

TABLE A13
DISTRIBUTION OF NUMBER LOAD FACTORS
PER THE
CHARLESTON AIR FORCE BASE
LOGISTICS, LONG RANGE MISSION
DATA SAMPLE

U-20-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)															
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.5	3.0			
3 1 2	2.2	0																
3 2 2	2.0	2						1	1									
3 3 2	4.2	2						1	1									
3 3 3	3.9	0																
3 3 4	4.9	0																
3 4 0	2.0	0																
3 4 3	4.5	0																
3 5 3	4.5	0																
3 6 3	3.0	0																
3 7 3	6.5	0																
3 8 3	4.0	0																
3 9 4	3.0	0																
3 9 5	1.5	0																
3 10 4	371.0	2						1	1									
4 10 3	3.0	0																
4 10 4	427.0	0																
5 9 4	41.0	0																
5 9 5	209.0	0																
5 10 4	340.2	0																
5 10 5	0.0	0																
6 1 3	0.5	0																
6 2 2	1.0	0																
6 2 3	2.0	2						2										
6 2 4	0.2	0																
6 3 3	1.2	0																
6 3 4	1.9	0																
6 3 5	2.7	3							3									
6 4 1	7.0	0																
6 5 1	0.3	0																
6 5 3	0.2	1							1									
6 5 0	1.0	0																
6 6 1	2.0	0																
6 6 3	0.0	0																
6 7 4	1.0	0																
6 7 5	12.0	0																
6 8 3	15.0	3							1				2					
6 9 4	20.0	5																
6 9 5	70.0	0																
6 10 4	20.0	0																
TOTAL	1042.1	15	0	0	0	0	0	7	0	0	0	2	0	0	0	0	0	0

TABLE A14 concluded
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

U-OW-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)													
			-0.9	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
4 5 0	3.9	7							4		3					
4 6 3	27.9	16					2	2	4	10						
4 6 4	157.0	217					2	9	22	100	42	34	4	2		
4 6 5	229.9	200					1	6	22	130	69	30	4	2		
4 6 6	1.7	3									1	1				
4 7 2	3.0	1							1							
4 7 3	106.4	130						2	8	94	13	1				
4 7 4	252.0	261						3	24	174	90	29	1			
4 7 5	340.7	293						2	30	163	60	34	4			
4 7 6	0.5	0														
4 8 3	19.0	5								5						
4 8 4	13.0	5								5						
4 8 5	110.1	7							1	4	2					
4 8 6	0.5	0														
4 9 4	24.3	4							3		1					
4 9 5	63.7	3								3						
4 10 4	30.0	14						1	7	9	1					
4 10 5	1.0	2								2						
TOTAL	14320.9	11060	0	0	6	40	340	1955	6003	2012	610	63	9	1	0	0

TABLE A15
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 MISCELLANEOUS MISSION
 DATA SAMPLE

U-OW-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)													
			-0.9	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 1	0.7	0														
2 1 2	20.1	10							1	12	5					
2 1 3	5.0	6							3	3						
2 1 4	2.5	3								3						
2 1 5	0.5	1							1							
2 2 2	12.7	3							1		2					
2 2 3	21.0	31							3	19	6	2	1			
2 2 4	151.1	94						3	8	92	23	7	1			
2 2 5	22.0	33						2	9	10	3	1				
2 2 6	5.9	15							2	9	3	9				
2 3 4	5.5	2								2						
2 3 5	20.3	24								25		1				
2 3 6	2.7	4							2	2						
3 1 2	10.0	2								2						
3 1 3	5.0	1							1							
3 1 4	35.0	0							3	4	1					
3 1 5	250.4	43						2	10	17	10	4				
3 2 3	115.0	6							2	4						
3 2 4	123.0	23							8	11	4					
3 2 5	194.4	67							2	30	15	3				
3 2 6	339.9	90					1	4	10	34	7	3				
3 2 6	2.9	1							1							
3 3 2	10.7	0														
3 3 3	20.1	2								1	1					
3 3 4	81.4	34						1	8	26	1					
3 3 5	100.0	61							10	31	10	2				
3 3 6	2.5	1								1						
3 4 4	50.3	9							3	6						
3 4 5	93.1	20							9	13	6					
3 4 6	1.0	3							1	2						
3 5 4	24.0	20							5	10	3	2				
3 5 5	70.0	64					1	4	9	34	19	3				
3 5 6	1.1	1								1						
3 6 4	13.0	12							8	3	1					
3 6 5	110.3	61						3	23	29	8	2				
3 6 6	2.0	1								1						
3 7 4	11.0	4						1	1	3						
3 7 5	75.5	7					1	1	4	1						
3 7 6	0.5	0														
4 1 2	5.5	5								5						
4 1 3	5.3	4							2	1	1					
4 1 4	9.1	10								4	6					
4 1 5	41.3	22							6	9	6	1				
4 2 2	4.2	0														
4 2 3	4.0	0														
4 2 4	10.7	4							3	1						
4 2 5	39.1	30							1	3	10	7				
4 2 6	2.5	5							1	2	1	1				
4 3 4	54.0	10							1	14	2	1				
4 3 5	75.1	16							4	9	3	1				
4 3 6	1.3	3								3						
4 4 4	11.0	7								6	1					
4 4 5	94.0	6							2	4						
4 4 6	4.0	2							1	1						
4 5 4	17.5	10								13	3	2				
4 5 5	89.4	16							1	9	3	2				
4 5 6	4.7	1								9	2	1				
4 6 4	0.0	3							1	1						
4 6 5	88.4	16						1	1	4	3	1				
4 6 6	1.0	0								0						
4 7 5	29.0	0								2						
TOTAL	2605.7	991	0	0	0	3	32	204	546	160	43	3	0	0	0	0

TABLE A16
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

U-2M-A BLOCK	BLOCK TIME (MIN)	TOTAL POINTS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.5	1.6	2.0	2.5	3.0	
3 1 2	1.0	0															
3 2 2	1.0	0															
3 2 3	3.0	1							1								
3 2 4	2.0	3							2	1							
3 3 4	16.0	0															
4 1 2	7.0	14							12	2							
4 1 3	0.7	1							1								
4 1 4	0.2	0															
4 2 2	3.4	11							2	9							
4 2 3	0.2	3							2								
4 2 4	0.3	0															
4 2 5	0.0	1								1							
4 3 3	14.0	13							1	9	3						
4 3 4	0.0	10							1	6	3						
4 3 5	9.0	9							2	1	1	1	1				
4 3 6	0.1	2									1	1					
4 4 3	0.3	1								1							
4 4 4	1.1	0															
4 4 5	0.0	0							2	0	2						
4 4 6	0.0	0								1	0			1			
4 5 0	1.2	2									2						
4 5 6	0.2	2								1	2						
4 6 0	0.0	2								1	2						
4 6 3	7.7	16							2	1	2						
4 6 5	0.0	1							7	3	3						
TOTAL	74.0	102	0	0	0	0	0	4	10	33	24	2	1	0	0	0	0

TABLE A17
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 AIRCRAFT TRAINING MISSION
 DATA SAMPLE

U-2M-A BLOCK	BLOCK TIME (MIN)	TOTAL POINTS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.5	1.6	2.0	2.5	3.0	
3 1 2	1.0	0															
3 2 2	1.0	0															
3 2 3	2.0	0															
3 2 4	5.0	7								6	1						
3 3 0	19.0	0															
3 3 4	0.7	7															
3 3 5	7.7	7															
3 4 3	3.0	4								2	1	1					
3 5 3	9.0	4								1	1						
4 1 2	0.0	1								1							
4 1 3	0.0	0															
4 1 4	0.3	0															
4 2 4	0.0	0															
4 2 5	19.5	0															
4 3 3	19.0	0															
TOTAL	87.0	20	0	0	0	0	0	0	2	12	9	1	0	0	0	0	0

TABLE A20 continued
 DISTRIBUTION OF RECOVERY LOAD FACTORS
 FOR THE
 COMBAT AND FORCE DATA
 LOGISTICS, DESIGN AND RESEARCH
 DATA SAMPLE

D-FY-8 BLOCK	BLOCK TIME (HRS)	TOTAL PIKES	LOAD FACTOR DISTRIBUTION (%)													
			-0.3	0.0	0.0	0.0	0.7	0.0	1.7	1.0	1.0	1.0	1.0	2.0	2.0	3.0
0 10 4	10700.3	200					7	94	130	30	7					
0 10 5	600.2	5							0	1						
0 1 1 2	20.0	20						3	27	9						
0 1 1 3	22.3	10				1			12	1						
0 1 1 4	1.0	0														
0 1 1 5	0.0	0														
0 1 1 6	10.0	3							3							
0 1 2 3	64.9	47					2	0	20	7	3					
0 1 2 4	2.0	0							0	0						
0 1 2 5	0.0	13							1	10	2					
0 1 2 6	0.0	1								1						
0 1 2 7	0.0	0														
0 1 3 3	70.0	20							12	10						
0 1 3 4	10.0	20							0	30	0					
0 1 3 5	61.9	110						0	13	77	10	7				
0 1 3 6	3.0	11							3	2	0	1				
0 1 4 3	3.0	0														
0 1 4 4	0.0	0														
0 1 4 5	113.2	01						1	11	00	0	1				
0 1 4 6	0.1	10						1	0	0	3	1				
0 1 5 3	7.0	0														
0 1 5 4	0.0	0														
0 1 5 5	123.1	0							2	0						
0 1 5 6	1.7	1														
0 1 6 3	2.5	1														
0 1 6 4	1.4	0														
0 1 6 5	101.0	10						1	0	10	0	3				
0 1 6 6	1.0	1								1						
0 1 7 3	1.0	1														
0 1 7 4	1.0	1								1						
0 1 7 5	270.1	10							3	10	2	1				
0 1 7 6	110.3	5														
0 1 8 3	750.3	20							12	10	2					
0 1 8 4	0.0	0														
0 1 8 5	3277.7	00							2	11	00	0	1			
0 1 8 6	1000.0	70							1	14	10	0				
0 10 3	1.0	0														
0 10 4	9100.7	1.1								20	07	10	2			
0 10 5	771.0	0								1	0	1				
0 1 1 2	15.0	0														
0 1 1 3	50.3	31								3	20					
0 1 1 4	0.0	0								1	0					
0 1 1 5	0.0	0														
0 1 2 2	1.0	0														
0 1 2 3	20.0	0								0	1					
0 1 2 4	10.0	11								1	0	1				
0 1 2 5	0.0	0									7	1				
0 1 2 6	10.7	0								2	3					
0 1 3 4	30.1	17								3	12	2				
0 1 3 5	100.0	07								2	17	00	12			
0 1 3 6	20.0	13								3	0					
0 1 4 3	0.0	0														
0 1 4 4	0.0	0														
0 1 4 5	100.0	17								3	22	1				
0 1 4 6	0.2	0								1	7					
0 1 5 3	1.0	0														
0 1 5 4	200.0	20								2	20	1				
0 1 5 5	0.0	0														
0 1 5 6	1.0	0														
0 1 6 3	203.1	11								2	0					
0 1 6 4	3.0	0														
0 1 7 3	202.2	11								1	0	2				
0 1 7 4	1.0	0														
0 1 7 5	7.0	0														
0 1 8 3	200.7	10								1	2	10	1			
0 1 8 4	327.3	0														
0 1 8 5	030.3	30								0	27	1				
0 10 0	1111.0	24								2	1	10	2			
0 10 0	70.0	0														
TOTAL	92000.0	1470	0	0	2	0	70	077	2711	000	77	0	0	0	0	0

TABLE A19 concluded
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

W-MH-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)													
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
4 10 4	2275.4	52						10	30	3	1					
4 10 5	21.0	0														
5 1 2	5.8	3							3							
5 1 3	7.2	7						1	6							
5 2 3	6.2	7						5	2							
5 2 4	1.6	6							5	1						
5 3 4	1.2	8						2	3	2	1					
5 3 5	1.7	3						1	1	1						
5 3 6	5.0	10						1	8	1						
5 3 7	26.0	29						3	7	17	2					
5 3 8	1.5	3							1	1						
5 4 5	36.3	25						2	4	15						
5 4 6	2.5	4								3	1					
5 5 5	11.0	1								1						
5 5 6	6.8	0														
5 6 5	80.3	12							3	4	1					
5 7 5	50.7	0														
5 8 4	1.0	0														
5 8 5	4.2	7							1	2	3	1				
5 9 4	155.0	8							1	3	3					
5 9 5	393.4	22							2	6	8	5	1			
5 10 4	932.9	27							1	4	20	1	1			
5 10 5	246.4	7									5	2				
6 1 2	0.5	0														
6 1 3	0.1	0														
6 2 3	0.6	0														
6 3 3	0.2	0														
6 3 4	0.8	0														
6 3 5	0.6	0														
6 3 6	1.0	0														
TOTAL	18825.4	15301	0	0	11	49	155	2140	4683	2751	660	46	6	0	0	0

TABLE A20
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 LOGISTICS DROP, SHORT RANGE MISSION
 DATA SAMPLE

W-MH-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)													
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 1 2	0.4	4							2	3		1				
3 1 3	0.7	5								4	1					
3 1 4	1.0	3							1	1						
3 1 5	95.1	16							1	4	7	3	1			
3 2 2	40.8	7								1	1					
3 2 3	27.0	4									3	1				
3 2 4	56.9	14									12	2				
3 2 5	107.0	7								1	5					
3 2 6	1.0	1									1					
3 3 3	2.0	0														
3 3 4	38.2	18								1	16	1				
3 3 5	22.3	13								1	9	2	1			
3 3 6	1.7	0														
3 4 5	1.5	0														
3 5 5	1.5	0														
3 6 5	1.5	1								1						
3 7 5	9.0	2									1					
4 1 2	0.7	1									1					
4 1 3	1.5	1									1	1				
4 1 4	1.2	1									1					
4 1 5	0.6	2										2				
4 2 4	1.9	2										1	1			
4 3 4	2.0	1														
4 3 5	17.3	17								1	1	14	1			
4 3 6	1.0	0														
4 4 5	12.5	3									1	2				
4 5 5	8.0	1										1				
4 6 4	0.5	0														
4 6 5	10.3	6									1	4	1			
4 7 5	76.7	5									1	2				
TOTAL	566.7	131	0	0	0	1	4	18	91	14	3	0	0	0	0	0

TABLE A21
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 MISCELLANEOUS MISSION
 DATA SAMPLE

W-MH-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
2 1 2	1.5	4								4							
2 1 3	0.6	10					1	7	2								
2 1 4	0.3	2							2								
2 2 2	1.9	4							3	1							
2 2 3	4.0	4							3								
2 2 4	6.4	20						5	14	6	3						
2 2 5	2.5	16						1	9	4	2						
2 3 3	3.1	21						1	17	2	1						
2 3 4	15.5	70					1	13	41	11	3	1					
2 3 5	6.5	0															
3 1 2	17.4	3						1	2								
3 1 3	6.1	0															
3 1 4	32.0	29					1	6	12	9	1						
3 1 5	128.3	69					2	18	41	6	2						
3 2 2	49.0	20						2	15	3							
3 2 3	45.6	38						11	27								
3 2 4	112.2	114			1	3	6	24	60	10	10						
3 2 5	212.9	123					10	26	64	17	6						
3 2 6	1.0	0															
3 3 2	4.4	3							3								
3 3 3	15.4	4						1	3								
3 3 4	31.2	32					2	5	20	4	1						
3 3 5	43.6	42				2	3	10	20	6	1						
3 3 6	0.5	5						2	2	1							
3 4 5	4.2	5						2	2	1							
3 5 5	3.5	1						1									
3 6 5	4.0	4						2	2								
3 7 5	17.5	12					1	6	3	2							
4 1 2	0.4	2							2								
4 1 3	1.4	3					1		2								
4 1 4	1.2	2						2									
4 1 5	0.4	0															
4 2 2	0.3	0															
4 2 3	0.2	0															
4 2 4	0.7	3					1	1	1								
4 2 5	5.0	14							9	2	2	1					
4 3 4	12.5	1							1								
4 3 5	33.4	63						16	34	10	1						
4 3 6	1.0	1							1								
4 4 5	18.6	5						3	2								
4 4 6	1.0	0															
4 5 5	11.0	3						1	2								
4 6 5	31.1	6						2	6								
4 7 5	50.9	3						1									
TOTAL	980.3	771	0	0	1	5	31	171	433	95	33	2	0	0	0	0	0

TABLE A22
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

W-MH-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
3 1 2	1.4	0															
3 2 2	2.0	2							2								
3 2 3	2.0	0															
3 3 3	4.1	2						1	1								
3 3 4	0.5	3							2	1							
3 3 5	0.6	2							1		1						
3 4 5	0.8	4							3	1							
3 5 5	1.0	3							3	2	1						
3 6 5	2.1	5							3	2							
3 7 5	3.0	3							3								
3 8 5	4.7	3							1								
3 9 5	17.0	31				1	1		10	7	6						
4 1 2	0.5	3							2	1							
4 1 3	0.3	0															
4 2 3	0.2	0															
4 3 3	0.3	2							2								
4 3 4	0.3	1							1								
4 3 5	0.4	3								1							
4 4 5	1.2	1								2	1						
4 5 5	1.4	0															
4 6 5	0.4	0															
TOTAL	30.6	68	0	0	0	1	1	6	37	19	8	0	0	0	0	0	0

TABLE A34 continued
 DISTRIBUTION OF AIRBORNE LEAD FACTORS
 PER THE
 TUNING AND PULSE DATA
 THROUGHOUT THE
 DATA SAMPLE

W-10-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LEAD FACTOR DISTRIBUTION (%)													
			-0.0	0.0	0.0	0.0	0.7	0.0	1.2	1.3	1.4	1.0	1.0	2.0	2.5	3.0
4 1 4	0.4	2									1	1				
4 2 1	0.3	0														
4 2 2	240.0	440						0	113	441	85	2				
4 2 3	497.1	895						0	195	510	150	22	2			
4 2 4	74.9	185						2	17	120	33	4				
4 2 5	0.2	5						3		4						
4 3 2	890.0	424						2	10	147	340	55	5			
4 3 3	2021.0	3036						11	64	632	2424	426	70	1		
4 3 4	991.3	1616						9	32	177	1037	274	80	1		
4 3 5	143.0	345						5	11	41	180	64	36	6		
4 3 6	0.1	7								2	3					
4 4 2	20.0	11								10	1					
4 4 3	431.1	340							9	44	240	59	9		1	
4 4 4	207.4	262							1	4	30	155	53	16	2	
4 4 5	543.4	540							2	22	112	292	95	37	6	
4 4 6	0.5	14								1	11	1	1			
4 4 7	13.3	2									1					
4 4 8	151.0	33								2	5	5	2			
4 4 9	243.0	244							1	11	32	136	41	43	10	
4 4 10	692.0	430							2	4	13	85	334	125	54	
4 4 11	10.0	24									2	0	6	7	1	
4 4 12	20.0	87								1	1	2	2			
4 4 13	130.2	87								1	4	12	57	11	2	
4 4 14	300.5	610								1	9	13	71	209	127	
4 4 15	1000.0	827								2	1	23	121	422	147	
4 4 16	10.0	27									1	1	4	2	2	
4 7 2	5.0	2														
4 7 3	104.0	172								2	1	6	13	22	3	
4 7 4	844.3	640								4	5	10	75	406	200	
4 7 5	1914.0	1049								1	4	21	140	534	191	
4 7 6	20.0	20										1	6	4		
4 8 3	12.4	3														
4 8 4	19.4	11														
4 8 5	134.5	19														
4 8 6	1.0	0														
4 9 3	32.0	11														
4 9 4	14.0	24														
4 9 5	100.0	14														
4 10 4	34.8	6														
5 1 2	20.4	8														
5 1 3	10.7	6														
5 2 2	40.0	53														
5 2 3	92.2	71														
5 2 4	14.0	10														
5 3 2	85.1	32														
5 3 3	497.0	340														
5 3 4	170.0	247														
5 3 5	40.0	83														
5 4 3	30.0	20														
5 4 4	72.2	66														
5 4 5	166.5	133														
5 4 6	3.0	6														
5 5 3	20.3	14														
5 5 4	71.4	94														
5 5 5	100.0	130														
5 5 6	4.1	11														
5 6 2	2.0	4														
5 6 3	79.0	39														
5 6 4	204.0	293														
5 6 5	310.0	304														
5 6 6	0.0	24														
5 7 3	222.1	110														
5 7 4	617.2	612														
5 7 5	701.1	423														
5 7 6	10.0	6														
5 8 4	15.4	5														
5 8 5	23.0	30														
5 8 6	0.2	0														
5 9 3	8.1	2														
5 9 4	40.4	30														
5 9 5	18.2	11														
5 10 4	39.7	20														
5 10 5	14.5	2														
TOTAL	104662.4	105720	0	1	166	570	3004	15002	41302	17136	6500	936	120	30	1	0

TABLE A25
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 TINKER AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

B-MH-A BLUCA	BLUCA TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
3 2 2	1.6	0															
3 3 2	11.7	4						1	3								
3 3 3	14.0	3						2	2								
3 1 4	4.0	6						2	3	1							
3 1 5	0.5	1							1								
3 3 6	0.5	1							1								
3 4 3	0.5	1							1								
3 4 4	1.7	1							1								
3 4 5	0.5	0															
3 4 6	1.5	4						1	1	1	1						
3 5 4	1.5	0															
3 5 5	0.2	0															
3 5 6	1.5	2						1	1								
3 6 4	3.5	0															
3 6 5	2.3	1							1								
3 7 3	3.8	0															
3 7 4	19.1	26						0	0	9	1						
3 7 5	9.9	12							9	1	2						
3 8 4	0.5	0															
3 8 5	2.2	4							2		1						
3 9 3	5.0	1				1			1								
3 9 4	20.8	17						1	15	1							
3 9 5	1.0	0															
3 10 3	0.5	6							6								
3 10 4	21.2	6							1	5							
3 10 5	1.0	0															
4 2 2	0.8	2						1	1								
4 2 3	0.4	1							1								
4 2 4	0.3	2							2								
4 3 3	0.9	3						3									
4 3 4	1.4	0															
4 4 1	2.0	0															
4 4 4	1.2	0															
4 4 5	1.4	7															
4 5 3	4.0	0				1	1	1	2	1	1						
4 5 4	0.5	4							1	2							
4 5 5	2.0	0															
4 6 4	2.0	0															
4 7 3	1.0	0															
4 7 4	20.9	19						3	15	1							
4 8 4	0.5	0															
TOTAL	211.3	136	0	0	0	2	1	24	79	22	6	0	0	0	0	0	0

TABLE A36 continued
 DISTRIBUTION OF PARADOX LOAD FACTORS
 FOR THE
 TRAVIS AIR FORCE BASE
 LOGISTICS, BROWN BARRIE REGION
 DATA SAMPLE

U-NN-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0			
4 7 3	9.0	0																	
4 7 4	31.4	2																	
4 7 5	724.8	93																	
4 7 6	270.0	12																	
4 8 2	1.5	0																	
4 8 3	4.5	0																	
4 8 4	639.6	12																	
4 8 5	2791.7	94																	
4 8 6	2.0	0																	
4 9 4	9404.9	159																	
4 9 5	9021.1	45																	
4 10 3	6.0	0																	
4 10 4	14970.4	80																	
4 10 5	202.7	2																	
5 1 1	0.4	0																	
5 1 2	49.4	13																	
5 1 3	52.1	33																	
5 1 4	0.9	12																	
5 1 5	0.9	4																	
5 2 2	11.9	1																	
5 2 3	37.9	29																	
5 2 4	23.9	40																	
5 2 5	21.9	48																	
5 2 6	0.5	0																	
5 3 2	14.4	7																	
5 3 3	63.4	42																	
5 3 4	42.1	48																	
5 3 5	134.3	179																	
5 3 6	3.4	1																	
5 4 2	1.2	4																	
5 4 3	63.7	10																	
5 4 4	25.1	9																	
5 4 5	203.3	132																	
5 4 6	4.7	5																	
5 5 4	0.5	10																	
5 5 5	337.1	54																	
5 5 6	3.8	4																	
5 6 4	12.0	5																	
5 6 5	460.2	17																	
5 6 6	1.7	0																	
5 7 4	14.5	11																	
5 7 5	736.8	23																	
5 7 6	0.5	0																	
5 8 3	1.0	0																	
5 8 4	937.0	47																	
5 8 5	1514.9	43																	
5 9 4	3714.0	41																	
5 9 5	4936.1	37																	
5 10 4	9931.5	80																	
5 10 5	252.0	0																	
6 1 2	30.4	4																	
6 1 3	41.7	16																	
6 1 4	9.0	3																	
6 1 5	1.1	1																	
6 2 2	2.4	1																	
6 2 3	25.7	15																	
6 2 4	15.3	5																	
6 2 5	11.2	15																	
6 3 2	2.8	0																	
6 3 3	17.9	6																	
6 3 4	27.7	16																	
6 3 5	100.4	92																	
6 3 6	4.2	1																	
6 4 3	20.3	0																	
6 4 4	40.9	5																	
6 4 5	185.8	42																	
6 4 6	2.3	1																	
6 5 4	3.3	0																	
6 5 5	202.2	10																	
6 5 6	4.0	0																	
6 6 4	4.5	0																	
6 6 5	256.0	3																	
6 6 6	2.0	0																	
6 7 4	8.0	0																	
6 7 5	392.8	2																	
6 7 6	1.0	0																	
6 8 4	95.5	0																	
6 8 5	490.0	3																	
6 9 4	213.2	2																	
6 9 5	973.3	7																	
6 10 4	741.9	4																	
6 10 5	37.5	0																	
TOTAL	74737.2	3370	0	0	10	17	73	648	2074	432	107	6	3	0	0	0	0	0	0

TABLE 220 continued
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 TRAINING AND PERCE BASE
 TRAINING MISSION
 DATA SAMPLE

U-100-A BLUCK	BLUCK TIME (MIN)	TOTAL PERMS	LOAD FACTOR DISTRIBUTION (%)													
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.5	1.6	2.0	2.5	3.0
4 3 3	105.2	62					1	3	8	29	15	6				
4 3 6	2.4	11							1	4	3	3				
4 3 2	16.3	1								1						
4 3 3	24.6	10					1		6		1					
4 3 4	66.6	158						3	28	20	23	7				
4 3 5	171.0	92					2		12	24	29	18	1			
4 3 6	3.0	0														
4 7 3	10.0	13								12	1					
4 7 4	79.3	107								24	20	39	13			
4 7 5	262.3	66					1	7	12	24	9	4				
4 2 6	2.0	0								1						
4 3 3	7.0	1									1					
4 3 4	7.0	3								3						
4 3 5	40.3	11						2		7	2					
4 3 6	294.3	0														
4 3 5	133.0	1								1						
4 10 4	920.0	16					1		2	7						
4 10 5	3.0	0														
3 1 1	0.3	0														
3 1 2	34.9	2								2						
3 1 3	41.2	7							3	4						
3 1 4	2.3	3								4	1					
3 1 2	10.3	1								1						
3 2 3	7.9	1								1						
3 2 4	0.1	0								4	2					
3 2 5	0.0	0														
3 2 2	6.5	0														
3 3 3	13.1	3								3						
3 3 4	19.2	0								7	1					
3 3 5	3.6	2							1	1						
3 3 6	0.3	2								1	1					
3 4 3	1.0	7														
3 4 4	7.9	1							1							
3 4 5	11.9	4							2		2					
3 4 6	0.3	2									2					
3 5 4	2.3	0														
3 5 3	13.3	3							2	2	1					
3 6 3	0.2	1														
3 6 4	10.0	3							2	1	2					
3 6 5	16.2	3							1	4	1					
3 7 3	31.4	2							1	1						
3 8 3	22.0	0							1	1						
3 8 6	0.2	1									1					
3 9 3	10.0	0														
3 9 4	216.7	0														
3 9 5	127.0	3							1	2						
3 10 4	100.0	0														
3 10 5	2.0	0														
3 1 2	3.1	0														
3 1 3	3.4	0														
3 1 4	1.2	0														
3 1 5	0.2	0														
3 2 2	1.0	0														
3 2 3	3.4	0														
3 2 4	0.3	0														
3 2 5	0.6	0														
3 3 3	3.3	0														
3 3 4	7.3	2								2						
3 3 5	0.3	3								3						
3 4 4	4.5	0														
3 4 5	4.5	4								4						
3 5 3	3.3	0														
3 6 3	0.3	0														
3 7 3	0.3	0														
3 8 3	12.3	0														
3 9 4	6.2	0														
3 9 5	63.0	0														
TOTAL	26222.6	17273	0	0	21	56	300	2206	10637	2740	900	122	13	1	0	0

TABLE 221
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 TRAINING AND PERCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

U-100-A BLUCK	BLUCK TIME (MIN)	TOTAL PERMS	LOAD FACTOR DISTRIBUTION (%)													
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.5	3.0
4 1 2	1.4	1									1					
4 1 3	0.3	0														
4 1 4	0.3	2									2					
4 2 2	1.0	0														
4 2 3	1.3	3								1	4					
4 2 4	0.3	0														
4 3 2	3.1	0														
4 3 3	7.9	12								2	10					
4 3 4	14.7	4									4					
4 3 5	1.0	3									3					
4 4 4	2.0	0														
TOTAL	33.9	29	0	0	0	0	0	0	3	26	0	0	0	0	0	0

TABLE A30 concluded
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

W-M-A BLOCK	BLUCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
5 3 3	31.5	32						2	10	19	1							
5 3 4	36.6	61					1	3	21	36								
5 3 5	57.7	100					1	2	30	50	6							
5 3 6	2.2	14							7	6	1							
5 4 4	4.5	5							3	1	1							
5 4 5	122.7	175					1	6	60	93	14	1						
5 4 6	7.5	15							6	7	2							
5 5 4	7.5	0																
5 5 5	147.0	135						13	42	75	7							
5 5 6	7.6	4							2	2								
5 6 4	1.5	0																
5 6 5	191.3	37						2	17	10								
5 6 6	3.5	6								6								
5 7 4	1.0	0																
5 7 5	287.4	188				1	1	4	76	97	6	3						
5 7 6	1.0	0																
5 8 4	10.0	4								2								
5 8 5	954.5	213								116	2							
5 9 4	4477.9	1179						1	5	81	10							
5 9 5	2927.3	1223						3	14	395	737	37	3					
5 10 4	7631.5	1986			3	6	20	48	441	612	61	15	15	2				
5 10 5	457.0	15				2	7	59	748	1000	71	11						
6 1 2	15.1	49							3	12								
6 1 3	40.0	87							11	30								
6 1 4	1.0	9							1	44	37	4	1					
6 1 5	0.2	0							1	2	6							
6 2 2	2.0	0																
6 2 3	21.6	41							1	10	21	1						
6 2 4	11.9	72							8	16	42	5	1					
6 2 5	5.2	37							1	12	22	2						
6 3 2	1.6	0																
6 3 3	17.1	37							5	11	10	3						
6 3 4	32.8	73								36	43	6						
6 3 5	74.6	369							16	121	192	93	6					
6 3 6	3.5	44						1	2	11	27	4	1					
6 4 3	3.0	0																
6 4 4	0.2	0																
6 4 5	143.3	151							2	57	85	9						
6 4 6	6.7	12								1	10	1						
6 5 3	0.5	0																
6 5 4	2.0	0																
6 5 5	154.7	148																
6 5 6	1.5	3																
6 6 5	184.4	82								2	27	50	3					
6 7 4	1.5	0																
6 7 5	275.4	93								1	38	47	7					
6 8 4	17.0	2																
6 8 5	474.7	109																
6 9 4	544.1	98																
6 9 5	1105.7	217																
6 10 4	399.3	28																
6 10 5	15.0	0																
TOTAL	52969.0	26624	0	1	14	29	125	915	9181	14407	1599	276	71	6	0	1	0	2

TABLE A31
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, LONG RANGE MISSION
 DATA SAMPLE

M-HH-A BLOCK	BLUCH TIME (MIN)	TOTAL PPAKS	LOAD FACTOR DISTRIBUTION (6)															
			-0.9	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.4	1.8	2.0	2.5	3.0
3 1 2	2.2	14																
3 2 2	2.0	11							6	7	1							
3 3 2	4.2	10							4	6								
3 3 3	3.9	8							5	3								
3 3 4	4.9	10						1	10	7								
3 4 4	2.0	1							6	4								
3 4 5	4.3	0							1									
3 5 3	4.3	0																
3 6 3	3.0	5						1	2	2								
3 7 5	6.5	0																
3 8 5	4.0	0																
3 9 4	3.0	0																
3 9 5	1.5	0																
3 10 4	371.9	112						1	60	49	2							
4 10 3	3.0	1								1								
4 10 4	627.0	155							87	65	3							
5 9 4	41.0	0																
5 9 5	205.0	3						1	1	1								
5 12 4	360.2	4							4	2								
5 10 5	7.0	0																
6 1 3	0.5	2							1	1								
6 2 2	1.0	0																
6 2 3	2.0	4							2	4								
6 2 4	0.2	0																
6 3 3	1.2	2							1	1								
6 3 4	1.9	4																
6 3 5	2.7	11						1	2	1								
6 4 5	7.0	23							7	4								
6 5 4	0.3	0							4	16								
6 5 5	9.7	12								11	1							
6 6 4	1.0	5								5								
6 6 5	2.0	0																
6 7 3	0.3	0																
6 7 4	1.0	0																
6 7 5	12.0	33							10	13								
6 8 5	13.0	95					3	6	39	39	4	4						
6 9 4	20.0	0																
6 9 5	74.0	0																
6 10 4	76.0	32							10	12								
TOTAL	1842.1	562	0	0	0	0	3	11	273	260	11	4	0	0	0	0	0	0

TABLE A32 continued
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

N-M-A BLICK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
4 3 6	3.5	13							8	3	1	1					
4 6 3	27.5	2							1	1							
4 6 4	157.0	103							46	54	2	1					
4 6 5	225.9	238						1	7	98	115	14	2	1			
4 6 6	1.7	0															
4 7 2	3.0	0															
4 7 3	106.4	104							1	48	54	1					
4 7 4	252.6	154							1	67	80	6					
4 7 5	348.7	272						1	4	105	145	15	2				
4 7 6	8.5	0															
4 8 3	19.0	2									2						
4 8 4	13.0	18									8	9	1				
4 8 5	118.1	148							3	59	83	2	1				
4 8 6	0.5	0															
4 9 4	24.3	13								5	7	1					
4 9 5	63.7	6								2	4						
4 10 4	38.0	13							1	4	6						
4 10 5	1.0	3								1	2						
TOTAL	14326.9	33449	0	0	0	45	196	1488	12277	16192	2577	345	119	5	0	0	0

TABLE A33
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 MISCELLANEOUS MISSION
 DATA SAMPLE

N-M-A BLICK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 1	0.7	0															
2 1 2	20.1	24							2	5	16	1					
2 1 3	3.8	12							2	6	3	1					
2 1 4	2.5	19								8	9	1					
2 1 5	0.5	1								1							
2 2 2	12.7	1								1							
2 2 3	21.8	13								5	6		1				
2 2 4	151.1	269							1	12	107	136	11	1	1		
2 2 5	22.0	113								5	53	41	9	5			
2 2 6	5.9	38								2	11	20	5				
2 3 4	5.5	22									4	18					
2 3 5	28.2	50								2	17	24	4	1			
2 3 6	8.7	13									6	6	1				
2 1 2	18.0	4									4						
2 1 3	3.0	1															
2 1 4	39.8	64								2	31	30	1				
2 1 5	256.4	588								15	240	284	21				
2 2 2	113.0	8									4	4					
2 2 3	123.0	20									9	11					
2 2 4	194.4	392									17	178	26	2			
2 2 5	339.0	1837								1	53	405	509	8	1		
2 2 6	2.9	7									1	3	2				
2 3 2	15.7	4									1	1	1				
2 3 3	20.1	1									1	1					
2 3 4	81.4	139									1	31	76	5			
2 3 5	180.0	365									13	148	185	18	1		
2 3 6	2.5	14										5	3	1			
2 4 4	50.3	32										18	14				
2 4 5	93.1	119									2	50	62	3			
2 4 6	1.0	3												3			
2 5 4	24.8	7										2	5				
2 5 5	76.0	68									7	24	28	8		1	
2 5 6	1.1	4										7	3	1			
2 6 4	13.8	18									4	10	4				
2 6 5	116.3	128									7	57	53	8			
2 6 6	2.0	2											2				
2 7 4	11.0	3										3					
2 7 5	75.3	23										4	15				
2 7 6	0.5	0															
4 1 2	5.3	29										5	17	3			
4 1 3	5.3	48										4	15	7	1	1	
4 1 4	9.1	31										3	9	18	1		
4 1 5	41.3	134										1	2	9	40	72	10
4 2 2	4.2	0															
4 2 3	4.0	0															
4 2 4	16.7	37										1	17	17	2		
4 2 5	39.1	137										1	3	41	76	13	3
4 2 6	2.3	27											3	4	15	3	2
4 3 4	36.0	48											3	21	25	2	
4 3 5	75.1	89											3	33	42	5	
4 3 6	1.3	12												4	7	1	
4 4 4	11.0	8												5	2	1	
4 4 5	54.8	51											1	27	19	4	
4 4 6	6.0	9												4	5		
4 5 4	17.5	32												7	24	1	
4 5 5	89.6	64												1	3	34	1
4 5 6	4.7	6												3	3		
4 6 4	0.9	1												1			
4 6 5	88.4	47												3	18	24	1
4 6 6	1.9	2													2		
4 7 5	29.0	23												5	16	2	
TOTAL	2689.7	4439	0	0	0	2	21	181	1769	2188	243	29	6	0	0	0	0

TABLE A34
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

W-MH-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 1 2	1.0	1									1							
3 2 2	1.0	0																
3 2 3	3.0	3								2	1							
3 2 4	8.0	1							1									
3 3 4	10.0	1									1							
4 1 2	2.0	20								4	11	3						
4 1 3	0.7	5							2	1	2							
4 1 4	0.2	1									1							
4 2 2	3.4	31							7	24	23	2						
4 2 3	0.1	7																
4 2 4	0.1	0										6						
4 2 5	0.0	18								5	11	2						
4 3 3	14.0	11								4	6	1						
4 3 4	0.0	11								6	5							
4 3 5	0.8	10								2	15	1						
4 3 6	0.1	0																
4 4 3	4.3	0																
4 4 4	1.3	1									1							
4 4 5	0.0	22								0	13	1						
4 4 6	0.6	3							1		1	1						
4 5 5	1.2	1									1							
4 5 6	0.2	7								7								
4 6 4	0.3	1								1								
4 6 5	2.7	11							1	7	3							
TOTAL	74.6	184	0	0	0	0	0	6	70	102	11	0	0	0	0	0	0	0

TABLE A35
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 AIRBORNE TRAINING MISSION
 DATA SAMPLE

W-MH-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 1 2	1.0	5								1	4							
3 2 2	1.5	0																
3 2 3	2.0	0																
3 2 4	2.0	1								1								
3 2 5	19.0	11							1	3	7							
3 3 4	0.7	0																
3 3 5	7.7	0																
3 4 4	3.6	26								13	10	3						
3 5 5	0.6	16								3	13							
4 1 2	0.4	0																
4 1 3	0.1	0																
4 1 4	0.1	0																
4 2 4	0.1	0																
4 2 5	18.0	0																
4 3 5	18.0	0																
TOTAL	87.9	68	0	0	0	0	0	1	21	43	3	0	0	0	0	0	0	0

TABLE 23
DISTRIBUTION OF LOAD FACTORS
FOR THE
COMM. AIR TROOP BATT.
LOGISTICS, MEDIUM BRIGADE MISSION
DATA SAMPLE

M-104-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 1	0.6	1							1									
2 1 2	10.1	20							6	14								
2 1 3	0.5	0																
2 1 4	0.2	2							1	1								
2 2 2	13.5	17							4	11								
2 2 3	0.0	4																
2 2 4	1.0	1								1								
2 2 5	0.0	2							1	1								
2 2 6	7.9	7							4	3								
2 2 7	13.2	8						1	4	3								
2 2 8	9.3	64							30	27								
2 2 9	2.1	6							3	3								
2 2 10	1.3	1								1								
2 2 11	4.0	6							2	3								
2 2 12	10.1	39							2	10	12							
2 2 13	0.3	4							3	1								
2 2 14	4.3	23							1	15	7							
2 2 15	1.5	0																
2 2 16	0.9	47							21	24	2							
2 2 17	12.4	30							10	10	2							
2 2 18	10.3	10							1	0								
2 2 19	20.0	38							7	20	3							
2 2 20	30.8	7							1	5								
2 10 4	103.0	92							20	65								
2 10 7	0.4	1							1									
3 1 1	1.0	0																
3 1 2	102.5	249							00	140	8							
3 1 3	10.6	46							13	30	2							
3 1 4	2.2	4							1	3								
3 2 1	0.5	0																
3 2 2	214.0	239							4	00	130	5						
3 2 3	140.0	331							9	140	170	9						
3 2 4	20.0	130							11	00	90	10	3					
3 2 5	2.0	10							3	7								
3 3 2	127.2	199							2	01	01	5						
3 3 3	104.0	290							3	100	131	7	1					
3 3 4	131.7	404							2	17	120	231	21	0				
3 3 5	79.0	340							10	39	100	232	07	9	4			
3 3 6	1.4	16	1						1	0	4							
3 3 7	0.2	3							1									
3 4 2	3.0	2																
3 4 3	39.4	99							1	44	91	3						
3 4 4	90.4	204							10	120	134	14	1					
3 4 5	209.9	473							4	32	214	240	43	0				
3 4 6	4.7	24							1	0	10	4						
3 5 3	14.0	7								2	3							
3 5 4	20.4	63							1	4	22	24	5	1	3			
3 5 5	204.4	230							7	90	134	15	4	4				
3 5 6	4.0	2									1							
3 6 4	29.3	01							0	31	30	4						
3 6 5	252.2	319							1	17	123	149	19	0	1			
3 6 6	0.1	1								1								
3 7 3	2.0	0																
3 7 4	10.5	01							1	3	19	35	3					
3 7 5	302.6	479							1	4	10	170	230	19	3			
3 7 6	4.5	10									5	11						
3 8 4	11.0	7									1	1						
3 8 5	029.0	477								12	171	275	17	2				
3 8 6	0.5	0																
3 9 4	072.6	340								1	10	130	214	11	2			
3 9 5	027.2	320									0	130	222	13	2			
3 9 6	1.0	0																
3 10 4	3100.6	1371								1	0	30	499	770	07	5	3	
3 10 5	102.0	97										2	27	20	3	1		
4 1 1	0.5	0																
4 1 2	37.1	01										25	40	7				
4 1 3	11.0	25										0	25	1				
4 1 4	0.2	0																
4 1 5	0.5	0																
4 2 2	00.0	00										1	20	00				
4 2 3	41.7	44										1	10	23	2			
4 2 4	3.0	2												2				
4 2 5	0.4	0																
4 3 2	30.1	30																
4 3 3	153.5	290																
4 3 4	70.1	192																
4 3 5	79.7	210																
4 3 6	7.7	114																
4 4 2	11.5	1																
4 4 3	29.9	57																
4 4 4	72.2	114																
4 4 5	114.2	201																
4 4 6	1.6	0																
4 5 3	7.0	0																
4 5 4	21.0	27																
4 5 5	122.0	169																
4 6 2	0.5	0																
4 6 3	2.0	1																
4 6 4	21.7	7																
4 6 5	202.3	104																
4 7 3	7.0	0																
4 7 4	20.0	13																
4 7 5	031.1	300																
4 7 6	0.3	0																
4 8 4	04.0	11																
4 8 5	042.4	317																
4 8 6	0.5	0																
4 9 4	2452.5	790																
4 9 5	2700.1	041																
4 10 3	11.0	13																

TABLE A34 concluded
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

U-M-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
4 10 4	13786.3	4732					9	24	147	1725	2038	160	22	7					
4 10 5	653.2	168								57	110	1							
5 1 2	29.8	140						2	1	44	85	5	2	1					
5 1 3	22.3	93							2	38	50	3							
5 1 4	1.6	14								7	7								
5 1 5	0.1	0																	
5 2 2	12.9	62							1	29	31	1							
5 2 3	44.5	187							3	78	90	14	2						
5 2 4	2.6	14							2	3	7	1	1						
5 2 5	4.0	22						1		5	15	1							
5 2 6	0.5	0																	
5 3 2	0.3	0																	
5 3 3	29.6	90						1	5	39	39	6							
5 3 4	30.8	68						1	7	27	25	5	2	1					
5 3 5	60.9	315					1	4	18	101	143	41	5	2					
5 3 6	5.0	9								1	8								
5 4 3	3.0	1								1									
5 4 4	4.5	2								1	1								
5 4 5	113.2	178							7	55	95	18	3						
5 4 6	6.1	30							1	11	15	2	1						
5 5 3	2.0	0																	
5 5 4	0.5	0																	
5 5 5	123.1	32							1	11	19	1							
5 5 6	1.7	0																	
5 6 3	2.5	0																	
5 6 4	1.0	0																	
5 6 5	191.4	125						2	4	31	67	13	6	2					
5 6 6	1.0	0																	
5 7 3	1.0	0																	
5 7 4	1.0	0																	
5 7 5	274.1	150							2	60	82	4	2						
5 8 4	119.3	C																	
5 8 5	733.3	235																	
5 8 6	0.6	0			1			1	9	89	122	12	1						
5 9 4	3277.7	691						3	7	172	477	28	3	1					
5 9 5	3000.9	837			1			3	31	260	501	31	8	1	1				
5 10 3	1.0	C																	
5 10 4	9198.2	2177							1	45	728	1342	57	4					
5 10 5	773.9	184							2	53	81								
6 1 2	15.6	22								4	18								
6 1 3	50.5	81							1	24	34	2							
6 1 4	4.9	30							1	15	12	2							
6 1 5	0.6	4								2	2								
6 2 2	1.5	3									3								
6 2 3	28.8	29								9	19	1							
6 2 4	10.6	36								12	22	2							
6 2 5	6.6	74								8	13	3							
6 3 3	15.2	9								2	7								
6 3 4	35.1	55								18	31	6							
6 3 5	100.6	138						2	4	14	117	190	39	7	5				
6 3 6	24.0	25								14	11								
6 4 3	C.5	C																	
6 4 4	4.4	U																	
6 4 5	148.4	134						1	5	36	86	4	1	1					
6 4 6	6.2	17								6	11								
6 5 4	1.0	0																	
6 5 5	200.6	101							1	28	63	8	1						
6 6 4	4.0	9								1	8								
6 6 4	1.0	C																	
6 6 5	265.3	116							2	47	62	5							
6 6 6	3.0	C																	
6 7 5	282.2	131						2	4	34	76	14	1						
6 7 6	1.0	0																	
6 8 4	7.5	1									1								
6 8 5	393.7	54						1	1	17	38	2							
6 9 4	327.3	94								38	54	1							
6 9 5	814.5	246							4	116	212	14							
6 10 4	1111.5	230						1	2	69	149	8	1						
6 10 5	79.0	C																	
TOTAL	52880.0	24924	0	0	5	23	109	785	8670	13985	1178	172	46	3	0	0	0	0	0

TABLE A57
 DISTRIBUTION OF UNIT LEAD FACTORS
 FOR THE
 BOMBER AIR FORCE
 TRAINING MISSION
 DATA SAMPLE

U-NO-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LEAD FACTOR DISTRIBUTION (%)																	
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
2 1 1	1.5	0																		
2 1 2	176.1	429				1		2	21	290	331	31	5							
2 1 3	37.3	100						1	0	72	60	0	3	1						
2 1 4	0.3	5								2	2	1								
2 1 5	0.2	1																		
2 2 2	261.9	720							3	20	366	367	37	1						
2 2 3	137.9	609							4	32	299	272	35	5	1					
2 2 4	26.2	294				1		2	19	69	113	29	11							
2 2 5	0.6	0																		
2 2 6	0.5	4								1		1	2							
2 3 2	62.7	152							3	32	66	32	6							
2 3 3	61.7	416				1		3	20	136	207	37	3	1						
2 3 4	49.5	412				1		0	29	149	166	96	9	2						
2 3 5	17.4	20							2	10	15	1								
2 3 6	0.3	1								1										
2 4 4	4.0	9								4	5									
2 4 5	21.5	26								0	16	2								
2 4 6	1.0	0																		
2 5 4	14.3	11								7	4									
2 5 5	26.0	32							2	13	16	1								
2 5 6	19.1	72							1	31	36	4								
2 7 4	0.5	15							1	7	3	2								
2 7 5	62.0	175							3	42	115	7	1							
2 8 4	1.0	2																		
2 8 5	3.3	1								1										
2 9 4	42.0	1									1									
2 9 5	4.0	1								1										
2 10 4	4.0	0																		
2 10 5	7.5	0																		
3 1 1	0.3	0								1	3									
3 1 2	1393.0	3209						10	125	1769	3067	200	25	1						
3 1 3	570.3	2048				2		4	67	676	1114	168	18	1						
3 1 4	20.3	197						3	22	97	63	22	7	3						
3 1 5	0.2	0																		
3 2 2	1290.4	3596						5	87	1262	1912	130	7	3						
3 2 3	1616.3	4270				1		2	13	160	1462	2305	274	26	2					
3 2 4	149.6	758						1	10	39	219	379	66	10	3					
3 2 5	12.4	170						1	4	20	60	99	27	0	6					
3 3 2	242.3	401							1	0	109	262	21	3						
3 3 3	1213.0	2893							10	95	1640	1800	197	23	3					
3 3 4	432.4	1630				1		3	18	123	322	492	193	31	11					
3 3 5	117.5	862				2		4	15	67	264	249	131	43	13					
3 3 6	5.4	14								1	1	11								
3 4 2	2.6	0																		
3 4 3	39.7	31								1	16	13								
3 4 4	62.1	315							2	10	166	143	31	9	2					
3 4 5	176.9	491				4		5	29	182	208	41	9	3						
3 4 6	6.6	14									5	7								
3 5 2	6.2	0																		
3 5 3	214.7	123								1	49	71	2							
3 5 4	617.9	348								8	138	195	17							
3 5 5	361.9	365							1	11	128	172	33							
3 5 6	2.3	0																		
3 6 3	43.7	5										4	1							
3 6 4	258.3	67								6	15	22	2	1						
3 6 5	245.3	67									36	47	3	1						
3 6 6	9.6	5									2	2	1							
3 7 3	21.7	14									6	8								
3 7 4	162.9	129									37	62	0	1	1					
3 7 5	325.0	480								12	162	247	49							
3 7 6	1.0	0																		
3 8 4	7.0	37									19	13	3							
3 8 5	135.1	199								9	60	123	10							
3 9 4	65.4	117								1	6	47	10							
3 9 5	226.7	691				1			2	27	232	368	99	5						
3 10 3	12.2	19									0	7								
3 10 4	1348.1	404								1	3	119	262	11	1					
3 10 5	22.5	107									4	66	34							
4 1 1	0.4	1																		
4 1 2	95.0	399								9	127	266	15	2						
4 1 3	33.0	289								3	87	123	12							
4 1 4	1.5	30								2	11	13	3	1						
4 1 5	3.0	69									6	22	11	5						
4 2 2	32.2	82							2	6	22	22	11	5						
4 2 3	162.4	394								1	1	33	42	0						
4 2 4	26.6	76				1				6	136	239	13	1						
4 2 5	5.1	190								1	4	31	39	5						
4 3 2	14.0	7								2	46	97	19	6	2					
4 3 3	148.0	176									4	32	32	12	3	1				
4 3 4	128.2	495								1	3	23	132	229	71	15	1			
4 3 5	91.2	323								1	9	22	111	164	29	13				
4 3 6	7.6	33									1	11	17	3	1					
4 4 3	3.9	0									1	1	7							
4 4 4	21.1	47									2	16	27	2						
4 4 5	109.1	317				2			3	23	188	168	26	0	1					
4 4 6	1.9	6									1	1	3	1						
4 5 3	17.0	12										4	0							
4 5 4	90.0	129									5	62	71	7						
4 5 5	173.2	297									9	89	101	16	1	1				
4 5 6	1.7	0																		
4 6 4	25.7	10										3	10	3						
4 6 5	104.2	66										19	26	1						
4 6 6	1.0	0																		
4 7 3	0.0	1										1								
4 7 4	23.7	10										1	7	2						
4 7 5	127.6	100								1	7	60	96	0						
4 8 4	2.5	1																		
4 8 5	127.9	157								1	7	53	66	0	2					
4 9 4	91.5	262								1	4	63	122	11	1					
4 9 5	237.7	350									3	138	194	0	1					

TABLE A37 concluded
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

N-MN-A BLOCK	TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
4 10 4	2275.4	564					2	11	205	320	21	4	1						
4 10 5	21.0	1							1										
5 1 2	5.8	20							2	17	1								
5 1 3	7.2	21							8	13									
5 2 3	6.2	6							4	2									
5 2 4	1.6	1								1									
5 2 5	1.2	6								2									
5 3 3	1.2	7							1	2									
5 3 4	5.0	25						1	10	12									
5 3 5	28.0	93						4	29	53	2	1							
5 3 6	1.5	5							1	4									
5 4 5	36.3	27							9	17	1								
5 4 6	2.5	2							1	1									
5 5 5	51.0	7							5	2									
5 5 6	0.8	0																	
5 6 5	80.3	10							5	5									
5 7 5	50.7	25							9	16									
5 8 4	1.0	0																	
5 8 5	63.2	30						2	9	18			1						
5 9 4	195.0	81						2	37	41		1							
5 9 5	393.4	119						1	44	72		2							
5 10 4	932.9	100						1	107	105		7							
5 10 5	236.4	89						2	32	51		4							
6 1 2	0.5	4							1	3									
6 1 3	0.3	3								3									
6 2 3	0.6	3							1	2									
6 3 3	0.2	0																	
6 3 4	0.8	0																	
6 3 5	0.8	1								1									
6 3 6	1.0	5							2	3									
TOTAL	18829.4	35404	0	0	7	26	167	1324	12300	18729	2429	361	65	0	0	0	0	0	0

TABLE A38
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 LOGISTICS DROP, SHORT RANGE MISSION
 DATA SAMPLE

N-MN-A BLOCK	TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
3 1 2	8.4	54						2	23	32		2							
3 1 3	5.0	94						4	24	61		8							
3 1 4	15.8	306			1	3	8	17	101	119		46	7	4					
3 1 5	95.1	2246			3	4	58	214	648	876		308	103	25	2				
3 2 2	46.8	5							5										
3 2 3	29.0	7							3	4									
3 2 4	54.9	26							10	8									
3 2 5	107.0	153						2	62	82		5	2						
3 2 6	1.0	C																	
3 3 1	2.0	C																	
3 3 4	38.2	26							11	15									
3 3 5	22.3	14							3	10		1							
3 3 6	1.7	C																	
3 4 5	1.5	5							2	3									
3 5 5	1.5	4							4										
3 6 5	1.5	4							2	2									
3 7 5	9.0	0																	
4 1 2	0.7	4							1	3									
4 1 3	1.5	12							2	9		1							
4 1 4	1.2	15							8	10									
4 1 5	0.4	14						2	4	5		1		2					
4 2 5	1.9	7							4	2									
4 3 4	2.0	1							1	1									
4 3 5	17.3	43							15	25		3							
4 3 6	1.0	4							4										
4 4 5	12.5	13							4	6		1							
4 5 5	8.0	6							2	4									
4 6 4	0.5	0																	
4 6 5	10.3	8							7	1									
4 7 5	74.7	9								8		1							
TOTAL	566.7	3089	0	0	4	18	67	242	956	1286	377	112	31	2	0	0	0	0	0

TABLE A39
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 MISCELLANEOUS MISSION
 DATA SAMPLE

M-NN-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 2	1.5	9							3	6								
2 1 3	0.6	35							12	22								1
2 1 4	0.3	16							5	9								
2 2 2	1.9	8							3	4		2						
2 2 3	4.0	14							9	9		1						
2 2 4	0.4	74							29	30		9						
2 2 5	2.5	62				1	1	4	3	19	23	12	5	1				
2 3 3	3.1	29							1	19	11	2						
2 3 4	19.9	292						1	5	61	109	11	1					
2 3 5	0.5	20							1	2	7	3	5	1	1			
3 1 2	17.9	10							1	2	3							
3 1 3	6.1	5							2	3								
3 1 4	32.6	100							8	67	74	10	1					
3 1 5	128.3	604						3	32	283	323	42	1					
3 2 2	89.0	94							1	27	56							
3 2 3	45.6	27								9	16	2						
3 2 4	112.2	736				1	4	35	33	282	372	56	12	2				
3 2 5	212.9	1510				3	14	75	529	744	110	22	5					
3 2 6	1.0	2								2								
3 3 2	4.4	7								2	4	1						
3 3 3	13.4	13								6	7							
3 3 4	31.2	165				1		7	7	47	94	12	4					
3 3 5	43.6	310				1	4	21	118	132	32	3	2					
3 3 6	0.5	9							1	2	4							
3 4 5	9.2	14								7	9	2						
3 5 5	1.5	7								2	5							
3 6 5	4.0	9								5	4							
3 7 5	17.5	70							1	27	41	1						
4 1 2	0.8	3								1	2							
4 1 3	1.4	14							1	5	6	2						
4 1 4	1.2	19							1	7	8	3						
4 1 5	0.4	3								1	2							
4 2 2	0.3	2									2							
4 2 3	0.2	1							1									
4 2 4	0.7	8								2	4	1						
4 2 5	3.0	47					1	10	6	24	4	2						
4 3 4	12.3	6								6	6							
4 3 5	33.4	133				1	2	4	40	72	14							
4 3 6	1.0	4								2	2							
4 4 5	10.0	18								8	10							
4 4 6	1.0	8								7	2							
4 5 5	11.0	4							1	12	4							
4 6 5	31.1	17							2	15	21							
4 7 5	50.9	38							1	21	21							
TOTAL	900.3	4618	0	0	1	7	31	217	1697	2297	343	92	13	0	0	0	0	0

TABLE A40
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

M-NN-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 1 2	1.0	8							6	4								
3 2 2	2.0	6							1	5								
3 2 3	2.0	9							7	2								
3 3 3	4.1	14							1	9	4							
3 3 4	0.5	1																
3 3 5	0.6	1								1								
3 4 5	0.8	8																
3 5 5	1.0	8																
3 6 5	2.1	2								2								
3 7 5	3.0	8																
3 8 5	3.7	1									1							
3 9 5	12.0	5								4	1							
4 1 2	0.3	8																
4 1 3	0.3	2								1	1							
4 1 4	0.2	2									1							
4 1 5	0.3	2									1							
4 3 5	0.3	3									1	1	1					
4 3 6	0.3	1									1							
4 4 5	1.2	9																
4 5 5	1.4	1								1								
4 6 5	0.4	8																
TOTAL	38.6	56	0	0	0	0	0	0	1	34	29	1	0	0	0	0	0	0

TABLE A41
DISTRIBUTION OF GUST LEAD FACTORS
FOR THE
TUMBUKTA AND PINE BASIN
LOCATIONS, WOODS BASSIN REGION
DATA SAMPLE

U-W-A BLOCK	BLOCK TIME (HRS)	TOTAL PEAKS	LEAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 2	4.2	4								1	3							
2 2 2	23.8	26								10	17							
2 3 2	4.0	6								3	3		1					
2 3 2	27.0	16								9	7							
2 3 3	42.6	20							1	11	14							
2 3 4	20.1	24							3	10	22							
2 3 3	2.0	22							1	10	10							
2 3 3	1.5	20								10	10							
2 4 3	4.0	0																
2 4 4	7.0	0																
2 4 5	3.2	0																
2 4 6	0.5	0																
2 5 4	0.4	4																
2 5 5	7.0	3							1	2	1							
2 5 7	0.2	0								3								
2 6 3	2.5	0																
2 6 4	9.0	0																
2 6 5	0.3	0																
2 6 6	1.0	1									1							
2 7 5	24.5	2									1							
2 8 5	24.0	10									2							
2 9 5	7.0	1																
3 1 2	17.9	43																
3 1 3	3.2	1																
3 1 4	1.0	1																
3 1 5	0.5	0																
3 2 2	22.0	26																
3 2 3	11.1	29								1	7							
3 2 4	1.4	0																
3 2 5	1.2	0																
3 3 2	72.9	73																
3 3 3	127.3	246																
3 3 4	36.6	122								2	9	23	48	2				
3 3 5	13.6	64								1	7	23	22	6	4			
3 4 2	6.0	5																
3 4 3	0.9	8																
3 4 4	24.5	120																
3 4 5	30.0	125								2	5	34	37	2				
3 5 3	10.5	0								4	35	60	6					
3 5 4	12.4	5																
3 5 5	53.3	62								4	4	37	36	4	1			
3 6 6	2.3	5																
3 6 3	6.2	0																
3 6 4	10.0	8																
3 6 5	67.9	44																
3 6 6	10.0	9																
3 7 4	14.5	5																
3 7 5	170.7	358																
3 7 6	43.7	106																
3 8 3	33.0	0																
3 8 4	3.5	0																
3 8 5	254.6	277																
3 8 6	1.0	0																
3 9 4	23.0	1																
3 9 5	143.5	75																
3 10 4	99.5	64																
4 1 2	2.3	6																
4 1 3	0.4	3																
4 1 4	0.2	2																
4 2 2	6.2	25																
4 2 3	3.5	2																
4 2 5	1.0	21																
4 3 2	16.9	9																
4 3 3	13.0	6																
4 3 4	0.5	13																
4 3 5	0.0	36																
4 4 2	4.0	2																
4 4 3	0.0	10																
4 4 4	35.4	65																
4 4 5	56.9	45																
4 5 4	11.5	11																
4 5 5	32.7	54																
4 6 4	1.5	2																
4 6 4	2.0	0																
4 6 5	24.0	63																
4 6 6	1.0	1																
4 7 5	04.2	32																
4 7 6	2.5	0																
4 8 5	152.3	141																
4 8 6	0.5	0																
4 9 5	107.5	21																
4 10 4	40.0	0																
5 2 2	0.5	0																
5 2 3	0.3	0																
5 3 3	0.7	0																
5 3 4	0.5	0																
5 3 5	0.7	0																
5 4 5	1.3	0																
5 5 5	2.2	0																
5 6 5	3.0	0																
5 7 5	2.0	0																
5 8 5	7.5	14																
5 9 4	4.0	16																
5 9 5	137.0	73																
5 10 4	95.0	94																
5 10 5	48.0	99																
6 1 2	0.5	1																
6 1 3	0.5	1																
6 2 3	0.5	1																
6 3 3	0.5	0																
6 3 4	0.7	1																
6 3 5	1.5	0																
6 3 6	2.5	0																
6 4 5	2.5	0																
6 5 5	2.5	0																
6 6 5	3.5	0																
6 7 5	3.5	0																
6 8 5	1.0	0																
TOTAL	2671.3	3100	0	0	4	0	27	117	1117	1641	147	32	6	0	0	1	0	0

TABLE A43 continued
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TINKER AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

M-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.5	3.0	
4 1 4	0.4	4						1	2		1							
4 2 1	0.3	1							1									
4 2 2	540.9	3137			1	67	1000	1763	200	7	1							
4 2 3	497.1	2733			2	60	1025	1440	187	11								
4 2 4	74.9	306			1	10	102	152	24	7	1							
4 2 5	0.2	1						1										
4 3 2	890.0	3990			5	80	1300	1053	165	7								
4 3 3	2021.0	10902			1	25	340	3035	5425	704	57	7						
4 3 4	921.3	4117			2	7	30	220	1590	1915	421	89	17	1				
4 3 5	145.0	837			3	3	20	54	240	390	122	27	9	1				
4 3 6	6.1	6						3	3									
4 4 2	20.0	65					1	31	33									
4 4 3	431.1	1423				7	65	953	671	119	8	2						
4 4 4	307.4	407			1	1	4	50	100	169	33	9	2					
4 4 5	543.4	1162	1	3	9	27	70	304	520	110	23	3	3	1				
4 4 6	9.3	6						3	3									
4 5 2	13.3	0																
4 5 3	131.0	44					1	10	29									
4 5 4	243.0	410				4	10	100	210	24	2							
4 5 5	692.0	895			1	3	0	44	313	415	53	13	3					
4 5 6	10.0	29					1	13	10	4	1							
4 6 2	26.0	0																
4 6 3	139.2	29					1	11	17									
4 6 4	540.5	325					9	120	176	15	1							
4 6 5	1000.0	931			1		3	24	340	483	50	7	1	1				
4 6 6	16.5	36				1		2	19	11	4	1						
4 7 2	3.6	0																
4 7 3	104.0	49					2	7	37	3								
4 7 4	840.3	427					4	140	241	22	8	3	1					
4 7 5	1914.9	1953			2	6	44	553	820	104	10	6						
4 7 6	20.9	17				1		6	9	1								
4 8 3	12.4	3						2	1									
4 8 4	10.4	26						4	22									
4 8 5	134.5	101					6	20	61	6								
4 8 6	1.0	4						1	3									
4 9 3	32.6	5			1				3	1								
4 9 4	14.0	9				1			2	5	1							
4 9 5	100.0	10							2	7	1							
4 10 4	34.5	29				1			10	16	2							
5 1 2	20.6	34							7	27	2							
5 1 3	10.7	50						1	12	32	5							
5 2 2	60.9	218						2	62	141	13							
5 2 3	92.2	240						7	100	123	17	1						
5 2 4	14.0	31						4	9	15	2							
5 3 2	05.1	310				1		7	110	176	8							
5 3 3	407.4	1431						20	354	705	70	4						
5 3 4	170.4	731				1	4	40	100	234	56	6	1					
5 3 5	40.3	151				1	4	14	46	63	19	8						
5 4 3	56.9	22						1	7	13	5	1						
5 4 4	72.2	64						2	20	29	5	2						
5 4 5	160.5	213				1		3	76	110	23	2						
5 4 6	3.0	3							1	2								
5 5 3	20.3	17						1	9	6	1							
5 5 4	71.4	89						3	20	50	7	1						
5 5 5	100.9	197						5	75	105	11	1						
5 5 6	4.1	8							2	6								
5 6 2	2.0	0																
5 6 3	79.0	1							1									
5 6 4	264.9	203						7	86	102	8							
5 6 5	310.0	216				1	3	11	65	101	14			1				
5 6 6	6.0	0						1	3	4								
5 7 3	222.1	7							3	3	1							
5 7 4	617.2	144						2	57	78	6	1						
5 7 5	701.1	691						21	221	401	40	7						
5 7 6	10.0	8							5	1	1	1						
5 8 4	15.4	12				1		1	2	6	1	1						
5 8 5	23.0	62						3	22	34	2	1						
5 8 6	0.2	0																
5 9 3	8.1	0																
5 9 4	40.4	24							9	15								
5 9 5	10.2	10							7	1	2							
5 10 4	30.7	19							5	14								
5 10 5	14.5	4							4	2								
TOTAL 104642.4		244026	0	1	111	205	1924	10992	69173	129100	10334	2717	678	45	6	0	0	0

TABLE A35
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TIKHON AIR FORCE BASE
 FLIGHT TEST REGION
 DATA SAMPLE

N-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.3	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 2 2	1.6	4							2	2								
3 3 2	11.7	67							1	20	23	23						
3 3 3	14.0	63							1	23	21	10						
3 3 4	4.0	32							0	22	20	2	2					
3 3 5	0.5	1																
3 3 6	0.5	4																
3 4 3	0.5	1								3	1							
3 4 4	1.0	0										1						
3 4 5	0.5	0																
3 4 6	1.5	1																
3 4 7	1.5	0								1								
3 5 3	0.2	7																
3 5 4	1.5	0								9	2							
3 5 5	3.5	2									1	1	1					
3 6 3	2.3	2								1	1							
3 6 4	3.6	0																
3 7 3	3.6	0																
3 7 4	10.1	0								3	3							
3 7 5	0.9	0								4	4							
3 8 4	0.5	0								3	3							
3 8 5	2.2	3								2	1	2						
3 9 3	3.0	0																
3 9 4	20.0	19								10	9							
3 9 5	1.0	0																
3 10 3	0.5	3										3						
3 10 4	21.2	3								2	2	1						
3 10 5	1.0	0																
4 2 2	0.8	1											1					
4 2 3	0.4	0																
4 2 4	0.3	0								2	3		1					
4 3 3	0.5	3																
4 3 4	1.4	0								2	1		1					
4 4 3	2.0	0								2	3	1						
4 4 4	1.2	0																
4 4 5	3.4	0																
4 5 3	0.0	0								2	2	1	1					
4 5 4	0.5	7								1	3	3						
4 5 5	2.0	7									1	1						
4 6 4	2.0	0																
4 7 3	1.0	0																
4 7 4	20.5	7								4	3							
4 8 4	0.5	0																
TOTAL	211.3	300	0	0	0	0	0	0	11	117	113	36	3	0	0	0	0	0

TABLE A-4
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TRAVIS AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

U-NO-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.3	0.0	0.3	0.4	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	2.0	2.5	3.0
2 1 1	14.6	4															
2 1 2	993.1	825					3	18	313	446	36	2					
2 1 3	121.6	320						8	120	164	19						
2 1 4	15.4	237						20	74	90	24	4	2				
2 1 5	31.3	930			1	2	35	115	325	336	96	27	2				
2 1 6	0.4	1															
2 2 1	0.2	0															
2 2 2	764.0	721						2	17	201	400	19	2				
2 2 3	337.4	920						2	23	190	266	25	3				
2 2 4	94.0	423			1	1	3	22	132	193	44	3					
2 2 5	97.3	230					1	3	12	94	131	13	2	2			
2 2 6	0.7	1															
2 2 7	300.2	215							9	90	114	6					
2 2 8	490.3	313					1		11	126	133	10	3	1			
2 2 9	122.3	377						4	10	141	185	24	2	1			
2 2 10	95.0	104					2		0	72	86	12	2	1	1		
2 2 11	0.0	0							1	1	2	2					
2 2 12	1.3	1															
2 2 13	12.2	47						2	3	10	21	3					
2 2 14	91.1	100						1	11	35	47	5	1				
2 2 15	45.0	39								14	24	1					
2 2 16	0.3	0															
2 2 17	24.7	25							1	12	11	1					
2 2 18	41.8	29								9	13	6	1				
2 2 19	2.0	3															
2 2 20	2.0	0															
2 2 21	22.3	12								2	8	2					
2 2 22	89.8	67					1		2	27	30	6		1			
2 2 23	54.9	44								10	23	3					
2 2 24	37.4	15								2	11	2					
2 2 25	86.3	69								34	25	6	2				
2 2 26	91.8	27							1	4	22						
2 2 27	67.0	1															
2 2 28	6.0	0															
2 2 29	16.8	10							1	8	7	2					
3 1 1	1909.9	2345						4	41	929	1433	131	5				
3 1 2	446.0	1315						3	44	485	699	74	8				
3 1 3	192.0	1206					2	12	74	413	600	149	23	5			
3 1 4	204.9	1094					0	34	195	374	750	248	33	9			
3 1 5	1.7	1															
3 2 1	2024.3	1909					1		33	690	1002	92	3				
3 2 2	1342.0	2153						1	7	77	740	1123	183	12	2		
3 2 3	291.2	1020					3	7	45	347	493	100	21	6			
3 2 4	227.4	645					1	4	32	234	311	59	20	2			
3 2 5	0.7	3															
3 2 6	0.2	0															
3 2 7	244.7	346							7	142	202	14	1				
3 2 8	2149.3	1413						2	30	531	761	74	8	1			
3 2 9	1674.6	2406					6	13	119	947	1163	213	24	3			
3 2 10	947.7	1747					4	13	92	906	957	134	29	9	1		
3 2 11	16.3	30								13	23	1					
3 2 12	15.2	1															
3 2 13	162.3	34								14	20	2					
3 2 14	979.7	523						1	29	210	239	39	4	1			
3 2 15	880.1	912					2	3	53	343	429	62	13	5			
3 2 16	11.7	14															
3 2 17	30.3	3															
3 2 18	83.3	20								11	15	2					
3 2 19	482.0	499						2	2	190	222	37	6	1	1		
3 2 20	487.2	731					2	3	34	291	339	48	8	4			
3 2 21	4.7	8															
3 2 22	80.0	2								1	4	1					
3 2 23	107.0	100							2	40	57	1					
3 2 24	1133.4	820						2	44	349	373	49	9	2			
3 2 25	698.4	581						1	29	237	286	24	4	2			
3 2 26	8.3	10															
3 2 27	11.0	0															
3 2 28	440.0	143							3	59	74	3	2				
3 2 29	1043.0	481							10	161	216	12	1	1			
3 2 30	441.7	284							6	92	101	5					
3 2 31	0.0	4															
3 2 32	0.3	4															
3 2 33	14.8	1															
3 2 34	313.1	110					1		11	37	50	8		1		1	
3 2 35	0.7	0															
3 2 36	170.4	15							1	3	8	1					
3 2 37	180.3	13															
3 2 38	300.7	76							3	23	49	1					
4 1 1	0.9	0															
4 1 2	91.9	202								9	82	170	21				
4 1 3	79.0	240							1	9	104	119	14	1	3		
4 1 4	22.1	114								9	30	54	14	3	3		
4 1 5	4.3	10								2	3	4					
4 1 6	73.7	136								3	49	75	7				
4 1 7	80.4	310							1	16	107	166	19				
4 1 8	40.8	104								7	88	20	5	1			
4 1 9	32.4	121							2	10	34	49	15	6	3		
4 1 10	29.8	80								1	8	10	1				
4 1 11	171.2	200							2	5	66	100	20	3	1		
4 1 12	210.0	475							1	27	193	234	31	5	3		
4 1 13	230.4	581							6	20	178	244	41	10			
4 1 14	2.7	6															
4 1 15	21.4	10								1	4	5					
4 1 16	83.1	44							1	3	16	20	2	1	1		
4 1 17	200.0	223							1	0	88	110	11				
4 1 18	3.4	2															
4 1 19	0.2	0															
4 1 20	12.0	5															
4 1 21	29.0	2															
4 1 22	40.0	21															

TABLE A46 continued
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TRANS AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

U-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.3	0.0	0.3	0.4	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.3	3.0
4 5 5	143.2	66						1	20	30	1							
4 5 6	2.4	3						1		2								
4 6 2	16.3	0																
4 6 3	24.6	1							1									
4 6 4	68.8	44							20	18								
4 6 5	171.0	80						1	30	37	2		1					
4 6 6	3.0	0																
4 7 3	18.0	0																
4 7 6	75.3	20							12	8								
4 7 8	262.3	93							46	46	1							
4 7 8	2.0	1								1								
4 8 3	7.0	0																
4 8 4	7.0	0																
4 8 5	60.5	11							3	0								
4 9 4	236.3	87							8	26	63	9	1					
4 9 5	133.9	38							3	13	20	7						
4 10 4	528.0	199				1			7	66	110	14	3					
4 10 5	3.0	0																
5 1 1	0.3	0																
5 1 2	34.9	11							6	9								
5 1 3	41.2	12							6	9	1							
5 1 4	2.3	0							1	4			1					
5 2 2	16.5	3							2	1								
5 2 3	7.9	0																
5 2 4	8.1	2								2								
5 2 5	0.6	0																
5 3 2	0.3	0																
5 3 3	13.1	1								1								
5 3 4	13.2	3							1	1								
5 3 5	3.4	1								1								
5 3 6	0.3	0																
5 4 3	1.0	0																
5 4 4	7.3	2								1	1							
5 4 5	11.9	45							2	11	25	9	2					
5 4 6	0.3	2				1				1								
5 5 4	2.1	1								1								
5 5 5	13.5	32								11	13	6	2					
5 6 3	0.2	0																
5 6 4	10.8	3								1		2						
5 6 5	14.2	27								10	14	3						
5 7 3	31.3	24							1	10	11	2						
5 8 5	22.0	31							1	14	10							
5 8 6	0.2	0																
5 9 3	10.0	0																
5 9 4	216.7	1									1							
5 9 5	127.0	74								2	24	39	6	2				
5 10 4	100.0	6									1	9						
5 10 5	2.0	1										1						
6 1 2	3.1	0																
6 1 3	3.4	1										1						
6 1 4	1.2	0																
6 1 5	0.2	0																
6 2 2	1.0	0																
6 2 3	3.4	0																
6 2 4	0.3	0																
6 2 5	0.6	0																
6 3 3	3.3	2										2						
6 3 4	7.3	0																
6 3 5	6.3	4																
6 4 4	6.5	0								1	2	1						
6 4 5	9.5	4																
6 5 5	3.5	0																
6 6 5	0.9	0																
6 7 5	8.9	0																
6 8 5	12.5	0																
6 9 4	0.2	0																
6 9 5	43.0	1																
TOTAL	28277.6	33910	0	1	4	47	705	1506	12348	16875	2400	537	75	3	1	0	0	0

TABLE A47
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TRANS AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

U-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.3	0.0	0.3	0.4	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.3	3.0
4 1 2	1.4	12								1								
4 1 3	0.3	3								1								
4 1 4	0.3	0								1								
4 2 3	1.0	0																
4 2 5	3.3	24							1	9	20							
4 2 6	0.3	3																
4 3 2	3.1	25							1	1	14							
4 3 3	7.9	50								2	20	2						
4 3 4	14.7	9								2	1							
4 3 5	1.0	1									1							
4 4 6	2.0	1																
TOTAL	59.9	156	0	0	0	0	0	0	2	39	65	0	0	0	0	0	0	0

TABLE A48
 DISTRIBUTION OF OBSERVED VERTICAL GUST VELOCITY
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, BOSTON RANGE MISSION
 DATA SAMPLE

WIND- DIRECTION	NAUTICAL FILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)															
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	0	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-33
2 1 2	2.1	0																
2 2 2	10.8	10																
2 2 3	2.6	0																
2 3 2	44.0	0																
2 3 3	20.2	0																
2 3 4	3.9	0																
2 3 5	1.0	0																
2 4 4	10.4	2																
2 4 5	10.6	0																
2 5 3	20.4	1																
2 6 3	20.7	1																
2 7 3	20.8	0																
2 8 3	45.8	0																
2 9 4	7.3	0																
2 9 5	14.4	0																
2 10 4	127.3	0																
2 10 5	100.1	0																
3 1 2	211.7	277																
3 1 3	93.9	41																
3 1 4	19.2	3																
3 2 2	490.3	934																
3 2 3	347.5	107																
3 2 4	77.4	20																
3 2 5	10.9	9																
3 3 2	330.9	292																
3 3 3	770.4	483																
3 3 4	377.9	218																
3 3 5	309.0	20																
3 3 6	40.7	10																
3 4 2	26.9	120																
3 4 3	102.3	126																
3 4 4	301.8	142																
3 4 5	922.7	104																
3 4 6	22.9	0																
3 5 3	0.9	0																
3 5 4	100.3	33																
3 5 5	1130.7	109																
3 5 6	20.9	1																
3 6 4	127.8	10																
3 6 5	1039.0	71																
3 6 6	27.5	7																
3 7 3	12.9	6																
3 7 4	153.4	70																
3 7 5	2022.4	440																
3 7 6	29.0	0																
3 8 4	100.3	14																
3 8 5	2444.7	68																
3 8 6	7.5	0																
3 9 3	9.0	0																
3 9 4	4547.3	364																
3 9 5	9105.7	94																
3 10 3	120.6	1																
3 10 4	24522.8	147																
3 10 5	1541.8	7																
4 1 2	107.6	176																
4 1 3	103.6	200																
4 1 4	7.6	20																
4 1 5	0.4	0																
4 2 2	213.0	187																
4 2 3	103.9	191																
4 2 4	72.3	66																
4 2 5	21.0	21																
4 2 6	0.6	0																
4 3 2	100.5	136																
4 3 3	403.5	430																
4 3 4	390.0	367																
4 3 5	382.7	193																
4 3 6	20.7	6																
4 4 2	9.7	42																
4 4 3	130.6	91																
4 4 4	604.7	301																
4 4 5	1221.0	310																
4 4 6	63.6	6																
4 5 3	2.0	0																
4 5 4	148.8	18																
4 5 5	1427.2	94																
4 5 6	31.5	2																
4 6 4	67.0	19																
4 6 5	1003.4	67																
4 6 6	66.5	0																
4 7 3	9.1	0																
4 7 4	210.6	23																
4 7 5	2470.5	71																
4 7 6	101.1	2																
4 8 3	21.0	0																
4 8 4	100.6	21																
4 8 5	627.1	301																
4 8 6	500.1	53																
4 9 4	2254.4	150																
4 9 5	24401.9	276																
4 10 3	60.1	0																
4 10 4	66019.4	454																
4 10 5	2110.9	16																
4 1 2	60.9	76																
4 1 3	117.5	300																
4 1 4	3.3	0																
4 2 2	2.7	13																
4 2 3	101.8	76																
4 2 4	25.0	6																
4 2 5	7.3	6																

TABLE A48 conclude 1
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

M-MM-A BLOCK	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
5 3 3	102.2	30																				
5 3 4	143.0	64																				
5 3 5	201.9	63																				
5 3 6	11.0	7																				
5 4 4	19.2	5																				
5 4 5	490.9	107																				
5 4 6	42.3	0																				
5 5 4	11.0	0																				
5 5 5	011.0	71																				
5 5 6	47.7	1																				
5 6 4	7.6	0																				
5 6 5	1173.4	9																				
5 6 6	23.6	1																				
5 7 4	5.0	0																				
5 7 5	1011.1	56																				
5 7 6	7.1	0																				
5 8 4	65.1	3																				
5 8 5	6005.2	50																				
5 9 4	31695.0	361																				
5 9 5	21706.4	301																				
5 9 6	56183.7	724																				
5 10 5	3909.0	0																				
6 1 2	36.4	72																				
6 1 3	116.0	143																				
6 1 4	11.2	11																				
6 1 5	0.9	0																				
6 2 2	4.9	0																				
6 2 3	65.4	63																				
6 2 4	45.9	85																				
6 2 5	24.0	33																				
6 3 2	4.0	0																				
6 3 3	53.0	40																				
6 3 4	132.9	90																				
6 3 5	365.5	301																				
6 3 6	10.9	40																				
6 4 3	11.1	0																				
6 4 4	0.9	0																				
6 4 5	705.5	90																				
6 4 6	48.0	9																				
6 5 3	1.9	0																				
6 5 4	9.1	0																				
6 5 5	001.2	94																				
6 5 6	9.3	2																				
6 6 5	1131.0	19																				
6 7 4	9.0	0																				
6 7 5	1348.0	57																				
6 8 4	110.0	2																				
6 8 5	3369.2	52																				
6 9 4	4101.5	42																				
6 9 5	0267.7	33																				
6 10 4	3900.1	11																				
6 10 5	114.1	0																				
TOTAL	370055.1	12964	0	0	1	4	17	36	101	312	985	3169	4720	1639	685	243	79	16	11	1	1	0

TABLE A49
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, LONG RANGE REGION
 DATA SAMPLE

N-MH-2 BLOCK	NAUTICAL MILES	TOTAL PEAKS	GSE DISTRIBUTION (FT./SEC.)																		
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35		
3 1 2	4.7	17																			
3 2 2	4.4	14																			
3 3 2	9.6	11																			
3 3 3	12.3	15																			
3 3 4	20.2	2																			
3 4 4	9.1	0																			
3 4 5	23.6	0																			
3 5 5	25.6	0																			
3 6 5	30.4	1																			
3 7 5	42.9	0																			
1 4 5	28.3	0																			
1 9 4	20.9	0																			
1 9 5	10.8	0																			
1 10 4	2720.5	0																			
4 10 3	17.9	1																			
4 10 4	4500.2	25																			
5 9 4	297.8	0																			
5 9 5	1530.2	1																			
5 10 4	2603.9	1																			
5 10 5	6.1	0																			
6 1 3	1.4	2																			
6 2 2	2.4	3																			
6 2 3	5.8	7																			
6 2 4	0.0	0																			
6 3 3	3.8	3																			
6 3 4	7.7	4																			
6 3 5	13.4	9																			
6 4 5	37.4	14																			
6 5 4	1.3	0																			
6 5 5	52.4	3																			
6 5 6	6.1	0																			
6 6 4	10.8	0																			
6 6 5	48.9	0																			
6 7 4	6.0	0																			
6 7 5	77.5	15																			
6 8 5	104.0	55																			
6 9 4	146.2	0																			
6 9 5	550.3	0																			
6 10 4	193.3	3																			
TOTAL	13396.9	210	0	0	0	0	0	0	5	9	14	78	77	25	4	6	0	0	0	0	0

DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
FOR THE
CHARLESTON AIR FORCE BASE
TRAINING MISSION
DATA SAMPLE

H-MM-A BLOCK	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
4 5 6	22.1	2																				
4 6 3	110.4	2																				
4 6 4	601.1	43									1	1										
4 6 5	1300.1	63									1	3	10	35	3	3						
4 6 6	11.3	0																				
4 7 2	10.2	0																				
4 7 3	479.7	92									1	0	29	39	14	1						
4 7 4	1200.0	81									1	4	25	39	11	1						
4 7 5	2294.6	62										2	16	37	6	1						
4 7 6	61.2	0																				
4 8 3	95.1	2												2								
4 8 4	72.0	2												2								
4 8 5	630.0	11										1	4	4	1	1						
4 8 6	3.0	0																				
4 9 4	170.1	2												1	1							
4 9 5	400.1	0																				
4 10 4	272.0	3										1	1	1								
4 10 5	7.0	0																				
TOTAL	30456.6	31469	0	0	1	29	63	160	403	1373	3531	7462	9364	5325	2250	690	304	127	55	14	2	0

TABLE A51
DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
FOR THE
CHARLESTON AIR FORCE BASE
MISCELLANEOUS MISSION
DATA SAMPLE

H-MM-A BLOCK	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																				
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35				
2 1 1	1.1	0																					
2 1 2	43.6	37				1		1	1	4	4	13	6	5	2								
2 1 3	16.7	9							2	1	4	1		1									
2 1 4	9.9	10							1		4	4	1										
2 1 5	2.2	0																					
2 2 2	20.4	2											1										
2 2 3	67.2	13				1				1	4	4	2							1			
2 2 4	577.0	105								1	0	30	40	7	2					1			
2 2 5	101.6	33								2	12	11	7	1									
2 2 6	31.9	6									2	4											
2 3 4	23.0	7									1	6											
2 3 5	131.0	17									1	9	9	2									
2 3 6	14.4	1										1	1										
3 1 2	30.7	5										1	1										
3 1 3	14.2	1												3									
3 1 4	146.8	31										1	1										
3 1 5	1115.0	231									2	15	12	1	1								
3 2 2	272.0	12								1	12	70	123	17	2								
3 2 3	157.1	21								2	2	2	5	2									
3 2 4	762.0	192								2	2	13	69	80	21								
3 2 5	1492.2	406								4	4	29	141	183	33	10	2						
3 2 6	15.3	3										2	1										
3 3 2	29.7	4									1	1		1						1			
3 3 3	36.2	1																					
3 3 4	333.3	63									1	1	21	32	0								
3 3 5	610.1	120									6	47	60	6	1								
3 3 6	13.6	5											3	2									
3 4 4	214.0	15										7	8										
3 4 5	476.0	24									2	1	7	14									
3 4 6	9.7	3												2	1								
3 5 4	119.0	3										2	1										
3 5 5	416.7	30									4	7	14	4							1		
3 5 6	6.7	1												1									
3 6 4	76.7	7										1	5	1									
3 6 5	601.0	33									1	2	15	15									
3 6 6	13.2	0																					
3 7 4	60.5	0																					
3 7 5	470.2	2												2									
3 7 6	3.9	0																					
4 1 2	11.3	31																					
4 1 3	16.1	55																					
4 1 4	36.4	29																					
4 1 5	101.2	90																					
4 2 2	9.5	0																					
4 2 3	11.3	1																					
4 2 4	69.6	14																					
4 2 5	179.0	82																					
4 2 6	13.6	10										1	4	1	2								
4 3 4	223.2	35										2	1	4	1								
4 3 5	357.3	20										2	10	14	2								
4 3 6	7.1	4											2	8									
4 4 4	46.5	4											1	8									
4 4 5	282.6	16										1	5	6	4								
4 4 6	39.0	0																					
4 5 4	39.7	22																					
4 5 5	496.0	14										1	4	17	1								
4 5 6	20.0	1											1	7									
4 6 4	5.0	0																					
4 6 5	479.7	10										1	3	5	1								
4 6 6	12.0	0																					
4 7 5	101.0	2																					
TOTAL	11011.0	1009	0	0	0	0	3	3	15	27	126	609	669	179	54	15	4	3	1	1	0	0	0

TABLE A81
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 CHARLESTON AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

W-NO-A BLOCK	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
3 1 2	3.7	7																				
3 2 2	2.5	2																				
3 2 3	0.4	4																				
3 2 4	7.1	1																				
3 3 4	30.7	1																				
4 1 2	4.3	24																				
4 1 3	3.0	0																				
4 1 4	0.7	1																				
4 2 2	0.3	42																				
4 2 3	0.6	0																				
4 2 4	1.2	6																				
4 2 5	3.8	9																				
4 3 3	41.3	12																				
4 3 4	32.1	9																				
4 3 5	47.1	5																				
4 3 6	0.6	0																				
4 4 3	13.3	0																				
4 4 4	9.3	1																				
4 4 5	34.5	3																				
4 4 6	3.7	2																				
4 5 5	0.8	0																				
4 5 6	1.2	1																				
4 6 4	1.6	1																				
4 6 5	15.5	4																				
TOTAL	205.5	162	0	0	0	0	0	2	6	13	14	24	46	29	13	0	1	1	1	0	0	0

TABLE A81
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 CHARLESTON AIR FORCE BASE
 AIRBORNE TRAINING MISSION
 DATA SAMPLE

W-NO-A BLOCK	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
3 1 2	3.2	5																				
3 2 2	3.4	0																				
3 2 3	0.7	1																				
3 2 4	10.5	1																				
3 2 5	30.7	0																				
3 3 4	20.2	0																				
3 3 5	34.6	0																				
3 4 5	18.9	10																				
3 5 5	20.4	1																				
4 1 2	0.8	0																				
4 1 3	0.9	0																				
4 1 4	1.1	0																				
4 2 4	3.0	0																				
4 2 5	73.6	0																				
4 3 5	71.5	0																				
TOTAL	100.7	23	0	0	0	0	0	0	0	0	0	2	2	24	2	1	0	0	0	0	0	0

TABLE A-10
 DISTRIBUTION OF REPORTED VERTICAL CURVE QUALITY
 FOR THE
 STATES AND FEDERAL ROAD
 DISTRICTS
 DATA SOURCE

STATE	TOTAL	PERCENTAGE OF VERTICAL CURVES											
		100	90-99	80-89	70-79	60-69	50-59	40-49	30-39	20-29	10-19	0-9	OTHER
Alabama	100	1	1	1	1	1	1	1	1	1	1	1	1
Alaska	100	1	1	1	1	1	1	1	1	1	1	1	1
Arizona	100	1	1	1	1	1	1	1	1	1	1	1	1
Arkansas	100	1	1	1	1	1	1	1	1	1	1	1	1
California	100	1	1	1	1	1	1	1	1	1	1	1	1
Colorado	100	1	1	1	1	1	1	1	1	1	1	1	1
Connecticut	100	1	1	1	1	1	1	1	1	1	1	1	1
Delaware	100	1	1	1	1	1	1	1	1	1	1	1	1
District of Columbia	100	1	1	1	1	1	1	1	1	1	1	1	1
Florida	100	1	1	1	1	1	1	1	1	1	1	1	1
Georgia	100	1	1	1	1	1	1	1	1	1	1	1	1
Hawaii	100	1	1	1	1	1	1	1	1	1	1	1	1
Idaho	100	1	1	1	1	1	1	1	1	1	1	1	1
Illinois	100	1	1	1	1	1	1	1	1	1	1	1	1
Indiana	100	1	1	1	1	1	1	1	1	1	1	1	1
Iowa	100	1	1	1	1	1	1	1	1	1	1	1	1
Kansas	100	1	1	1	1	1	1	1	1	1	1	1	1
Kentucky	100	1	1	1	1	1	1	1	1	1	1	1	1
Louisiana	100	1	1	1	1	1	1	1	1	1	1	1	1
Maine	100	1	1	1	1	1	1	1	1	1	1	1	1
Maryland	100	1	1	1	1	1	1	1	1	1	1	1	1
Massachusetts	100	1	1	1	1	1	1	1	1	1	1	1	1
Michigan	100	1	1	1	1	1	1	1	1	1	1	1	1
Minnesota	100	1	1	1	1	1	1	1	1	1	1	1	1
Mississippi	100	1	1	1	1	1	1	1	1	1	1	1	1
Missouri	100	1	1	1	1	1	1	1	1	1	1	1	1
Montana	100	1	1	1	1	1	1	1	1	1	1	1	1
Nebraska	100	1	1	1	1	1	1	1	1	1	1	1	1
Nevada	100	1	1	1	1	1	1	1	1	1	1	1	1
New Hampshire	100	1	1	1	1	1	1	1	1	1	1	1	1
New Jersey	100	1	1	1	1	1	1	1	1	1	1	1	1
New Mexico	100	1	1	1	1	1	1	1	1	1	1	1	1
New York	100	1	1	1	1	1	1	1	1	1	1	1	1
North Carolina	100	1	1	1	1	1	1	1	1	1	1	1	1
North Dakota	100	1	1	1	1	1	1	1	1	1	1	1	1
Ohio	100	1	1	1	1	1	1	1	1	1	1	1	1
Oklahoma	100	1	1	1	1	1	1	1	1	1	1	1	1
Oregon	100	1	1	1	1	1	1	1	1	1	1	1	1
Pennsylvania	100	1	1	1	1	1	1	1	1	1	1	1	1
Rhode Island	100	1	1	1	1	1	1	1	1	1	1	1	1
South Carolina	100	1	1	1	1	1	1	1	1	1	1	1	1
South Dakota	100	1	1	1	1	1	1	1	1	1	1	1	1
Tennessee	100	1	1	1	1	1	1	1	1	1	1	1	1
Texas	100	1	1	1	1	1	1	1	1	1	1	1	1
Utah	100	1	1	1	1	1	1	1	1	1	1	1	1
Vermont	100	1	1	1	1	1	1	1	1	1	1	1	1
Virginia	100	1	1	1	1	1	1	1	1	1	1	1	1
Washington	100	1	1	1	1	1	1	1	1	1	1	1	1
West Virginia	100	1	1	1	1	1	1	1	1	1	1	1	1
Wisconsin	100	1	1	1	1	1	1	1	1	1	1	1	1
Wyoming	100	1	1	1	1	1	1	1	1	1	1	1	1
Federal Road Districts	100	1	1	1	1	1	1	1	1	1	1	1	1

TABLE A99 continued
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 COVER AND PERCE DATA
 LOGISTIC CAMP, SHORT RANGE MISSION
 DATA SAMPLE

U-REP-2 GAGE	VERTICAL WINDS	TOTAL PERCS	GUST DISTRIBUTION (FT./SEC.)																		
			-20	-15	-10	-5	0	5	10	15	20	25	30	35							
3 1 2	10.7	70																			
3 1 3	10.0	00																			
3 1 4	02.0	220																			
3 1 5	011.7	1470																			
3 2 2	09.1	0																			
3 2 3	09.5	0																			
3 2 4	219.0	10																			
3 2 5	070.2	02																			
3 2 6	0.5	0																			
3 3 3	0.1	0																			
3 3 4	140.0	14																			
3 3 5	100.7	3																			
3 3 6	0.0	0																			
3 4 5	7.5	1																			
3 4 6	0.2	0																			
3 4 7	0.0	0																			
3 7 5	93.5	0																			
4 1 1	1.4	0																			
4 1 3	0.2	15																			
4 1 4	4.5	15																			
4 1 5	1.0	12																			
4 2 5	0.0	0																			
4 3 5	0.0	0																			
4 3 6	00.1	14																			
4 3 7	9.5	0																			
4 4 5	04.4	1																			
4 5 5	09.0	0																			
4 6 5	7.7	1																			
4 6 6	00.3	0																			
4 7 5	004.1	2																			
TOTAL	2400.3	3041	0	0	0	2	4	11	26	72	215	400	670	320	130	54	17	0	0	0	0

TABLE A10
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 COVER AND PERCE DATA
 LOGISTIC CAMP, SHORT RANGE MISSION
 DATA SAMPLE

U-REP-2 GAGE	VERTICAL WINDS	TOTAL PERCS	GUST DISTRIBUTION (FT./SEC.)																			
			-20	-15	-10	-5	0	5	10	15	20	25	30	35								
3 1 2	10.7	70																				
3 1 3	10.0	00																				
3 1 4	02.0	220																				
3 1 5	011.7	1470																				
3 2 2	09.1	0																				
3 2 3	09.5	0																				
3 2 4	219.0	10																				
3 2 5	070.2	02																				
3 2 6	0.5	0																				
3 3 3	0.1	0																				
3 3 4	140.0	14																				
3 3 5	100.7	3																				
3 3 6	0.0	0																				
3 4 5	7.5	1																				
3 4 6	0.2	0																				
3 4 7	0.0	0																				
3 7 5	93.5	0																				
4 1 1	1.4	0																				
4 1 3	0.2	15																				
4 1 4	4.5	15																				
4 1 5	1.0	12																				
4 2 5	0.0	0																				
4 3 5	0.0	0																				
4 3 6	00.1	14																				
4 3 7	9.5	0																				
4 4 5	04.4	1																				
4 5 5	09.0	0																				
4 6 5	7.7	1																				
4 6 6	00.3	0																				
4 7 5	004.1	2																				
TOTAL	2400.3	3041	0	0	0	2	4	11	26	72	215	400	670	320	130	54	17	0	0	0	0	

TABLE A97
 DISTRIBUTION OF DESIRED VERTICAL GUST VELOCITY
 FOR THE
 BOWEN AND PERCE DATA
 FLIGHT TEST SESSION
 DATA SAMPLE

DESIRED VERTICAL GUST VELOCITY (FT./SEC.)	TOTAL PERCENT	-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	0	7.5	10	12.5	15	17.5	20	25	30	35	
2.7	12																				
4.0	10																				
5.3	10																				
6.6	10																				
7.9	10																				
9.2	10																				
10.5	10																				
11.8	10																				
13.1	10																				
14.4	10																				
15.7	10																				
17.0	10																				
18.3	10																				
19.6	10																				
20.9	10																				
22.2	10																				
23.5	10																				
24.8	10																				
26.1	10																				
27.4	10																				
28.7	10																				
30.0	10																				
31.3	10																				
32.6	10																				
33.9	10																				
35.2	10																				
TOTAL	200.0	0	0	1	0	1	1	10	54	100	100	510	90	70	0	0	0	0	0	0	0

TABLE A98
 DISTRIBUTION OF DESIRED VERTICAL GUST VELOCITY
 FOR THE
 BOWEN AND PERCE DATA
 FLIGHT TEST SESSION
 DATA SAMPLE

DESIRED VERTICAL GUST VELOCITY (FT./SEC.)	TOTAL PERCENT	-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	0	7.5	10	12.5	15	17.5	20	25	30	35	
2.7	12																				
4.0	10																				
5.3	10																				
6.6	10																				
7.9	10																				
9.2	10																				
10.5	10																				
11.8	10																				
13.1	10																				
14.4	10																				
15.7	10																				
17.0	10																				
18.3	10																				
19.6	10																				
20.9	10																				
22.2	10																				
23.5	10																				
24.8	10																				
26.1	10																				
27.4	10																				
28.7	10																				
30.0	10																				
31.3	10																				
32.6	10																				
33.9	10																				
35.2	10																				
TOTAL	200.0	0	0	0	0	0	0	0	0	10	10	12	1	0	0	0	0	0	0	0	0

TABLE 201
 DISTRIBUTION OF MEASURED VERTICAL WIND VELOCITY
 FROM 200 FEET TO
 1000 FEET, MEASURED AT 1000 HOURS
 DATE 1964

WIND VELOCITY (MPH)	WIND DIRECTION (DEGREES)											
	0-90	90-180	180-270	270-360	0-90	90-180	180-270	270-360	0-90	90-180	180-270	270-360
1000												
950												
900												
850												
800												
750												
700												
650												
600												
550												
500												
450												
400												
350												
300												
250												
200												
150												
100												
50												
0												

TABLE 440 continued
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 FINER 250 PERMS SAND
 TRACKING REGION
 DATA SAMPLE

U-MIN-A BLDN	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
			-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30-35
4 1 4	1.4	4																			
4 2 1	0.9	2																			
4 2 2	1297.7	4044																			
4 2 3	1404.0	3391																			
4 2 4	274.0	287																			
4 2 5	0.9	0																			
4 3 2	2113.3	4777																			
4 3 3	8344.0	12342																			
4 3 4	2616.9	3844																			
4 3 5	401.1	550																			
4 3 6	33.3	0																			
4 3 7	76.0	0																			
4 4 3	1369.7	1905																			
4 4 4	1276.1	200																			
4 4 5	2773.4	540																			
4 4 6	53.3	1																			
4 4 7	37.3	0																			
4 4 8	940.6	40																			
4 4 9	1140.7	200																			
4 4 10	2626.7	325																			
4 4 11	114.6	10																			
4 4 12	61.3	0																			
4 4 13	162.2	24																			
4 4 14	2003.2	100																			
4 4 15	6019.7	200																			
4 4 16	110.3	12																			
4 4 17	10.1	0																			
4 4 18	613.6	30																			
4 4 19	4543.4	100																			
4 4 20	9759.7	410																			
4 4 21	100.2	4																			
4 4 22	63.0	2																			
4 4 23	114.3	0																			
4 4 24	690.3	20																			
4 4 25	7.7	0																			
4 4 26	162.0	7																			
4 4 27	90.5	2																			
4 4 28	767.2	1																			
4 4 29	240.2	5																			
4 4 30	40.0	54																			
4 4 31	29.0	70																			
4 4 32	109.5	270																			
4 4 33	250.3	303																			
4 4 34	94.4	31																			
4 4 35	212.1	430																			
4 4 36	1470.2	1074																			
4 4 37	643.0	944																			
4 4 38	226.2	122																			
4 4 39	183.0	23																			
4 4 40	206.7	40																			
4 4 41	640.2	142																			
4 4 42	21.5	2																			
4 4 43	100.0	20																			
4 4 44	330.0	70																			
4 4 45	1043.5	110																			
4 4 46	20.3	3																			
4 4 47	0.7	0																			
4 4 48	323.6	2																			
4 4 49	1332.0	133																			
4 4 50	1073.9	102																			
4 4 51	40.3	3																			
4 4 52	900.0	5																			
4 4 53	2244.7	00																			
4 4 54	4327.9	292																			
4 4 55	76.0	2																			
4 4 56	90.3	7																			
4 4 57	140.6	10																			
4 4 58	1.5	0																			
4 4 59	42.3	0																			
4 4 60	274.3	5																			
4 4 61	133.2	3																			
4 4 62	273.0	4																			
4 4 63	110.1	1																			
TOTAL	417093.4	217400	1	6	29	143	347	944	2049	9360	24104	50991	82221	104113	141104	60112227	702	351	45	0	3

TABLE A41
DISTRIBUTION OF DERIVED VERTICAL JUST VELOCITY
FOR THE
UNION AIR FORCE GARR
FLIGHT TEST REGION
DATA SAMPLE

M-W-A BLOCK	NAUTICAL MILES	TOTAL PEAKS	VELOCITY DISTRIBUTION (FT./SEC.)																				
			-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
3 2 2	3.3	6																					
3 3 2	27.7	91																					
3 3 3	43.2	69						1	3	4	36	2	6	6	20	4							
3 3 4	15.6	30							3	4	13	13	2	1	1	1							
3 3 5	2.4																						
3 3 6	2.7																						
3 4 1	29.3	1													1								
3 4 4	4.1																						
3 4 5	2.8																						
3 4 6	8.5																						
3 5 6	7.2																						
3 5 8	1.1																						
3 5 8	9.3										3												
3 6 4	18.5	2										1	1										
3 6 5	14.1	1										1											
3 7 3	16.1	5										1											
3 7 4	39.8	5										1	4										
3 7 5	64.4																						
3 8 4	41.8																						
3 8 5	15.7												3										
3 9 3	28.8																						
3 9 4	170.8																						
3 9 5	7.1																						
3 10 3	49.3													5									
3 10 4	193.3	1											1										
3 10 5	7.9																						
4 2 2	1.6	4										1											
4 2 3	1.2											1	2	4							1		
4 2 4	1.1																						
4 3 1	1.4	3											2	1									
4 3 4	5.6	5										1	3	1									
4 4 3	7.1													3	1								
4 4 4	4.9																						
4 4 5	17.8											1	1	1	1								
4 5 3	21.8																						
4 5 4	29.4											1	3	2									
4 5 5	16.8																						
4 6 4	9.0																						
4 7 3	4.3																						
4 7 4	147.9	4									1	2	1										
4 8 4	2.1																						
TOTAL	1107.4	299	0	0	0	0	0	1	0	22	83	50	37	19	32	7	0	0	0	0	0	0	0

TABLE A-1 continued
 DISTRIBUTION OF SURVED VERTICAL GUST VELOCITY
 FOR THE
 TRAVIS AND FURZE BARR
 LOGISTICS, MEDIAN RANGE MISSION
 DATA SAMPLE

WIND- DIRECTION	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
			-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30				
0 7 3	30.0	0																				
0 7 4	100.4	83																				
0 7 5	4020.1	330																				
0 7 6	2000.2	97																				
0 8 2	0.2	0																				
0 8 3	25.3	0																				
0 8 4	4070.0	443																				
0 8 5	10010.3	149																				
0 8 6	15.3	0																				
0 9 4	30210.5	647																				
0 9 5	43041.1	240																				
4 10 3	40.7	1																				
4 10 4	110760.1	1047																				
4 10 5	2242.9	21																				
5 1 1	0.4	0																				
5 1 2	114.2	197																				
5 1 3	140.2	197																				
5 1 4	32.9	47																				
5 1 5	0.0	0																				
5 2 2	20.4	20																				
5 2 3	110.0	111																				
5 2 4	92.0	110																				
5 2 5	100.7	77																				
5 2 6	2.6	0																				
5 3 2	39.7	27																				
5 3 3	191.0	95																				
5 3 4	160.4	147																				
5 3 5	650.7	205																				
5 3 6	10.2	0																				
5 4 2	3.1	7																				
5 4 3	200.3	111																				
5 4 4	107.5	12																				
5 4 5	1534.3	260																				
5 4 6	20.5	0																				
5 5 4	41.4	12																				
5 5 5	1000.0	142																				
5 5 6	24.2	2																				
5 6 4	60.7	4																				
5 6 5	2010.9	90																				
5 6 6	11.7	0																				
5 7 4	82.3	67																				
5 7 5	4000.3	243																				
5 7 6	3.6	1																				
5 8 3	4.0	0																				
5 8 4	4070.0	131																				
5 8 5	10020.3	101																				
5 9 4	24000.1	490																				
5 9 5	24020.0	790																				
5 10 4	70000.2	700																				
5 10 5	1000.0	1																				
6 1 2	71.6	42																				
6 1 3	110.0	112																				
6 1 4	34.1	43																				
6 1 5	4.0	3																				
6 2 2	3.7	1																				
6 2 3	70.0	60																				
6 2 4	60.2	46																				
6 2 5	51.2	39																				
6 3 2	7.1	4																				
6 3 3	39.0	30																				
6 3 4	112.0	43																				
6 3 5	400.5	161																				
6 3 6	22.0	4																				
6 4 3	60.7	32																				
6 4 4	173.0	48																				
6 4 5	970.0	161																				
6 4 6	13.1	0																				
6 5 4	10.7	0																				
6 5 5	1100.0	71																				
6 5 6	24.0	0																				
6 6 4	23.4	0																				
6 6 5	1500.4	90																				
6 6 6	13.0	0																				
6 7 4	40.1	0																				
6 7 5	2000.3	77																				
6 7 6	7.4	0																				
6 8 4	100.1	1																				
6 8 5	3000.7	42																				
6 9 4	1000.0	0																				
6 9 5	7000.0	10																				
6 10 4	9010.0	11																				
6 10 5	200.3	7																				
TOTAL	921000.0	10277	1	1	2	11	12	54	141	425	1300	4263	6144	1054	670	240	80	34	17	3	1	0

TABLE A-1
 DISTRIBUTION OF RECEIVED VERTICAL GUST VELOCITY
 PER THE
 BRANIS AIR FORCE BASE
 LOGISTICS, LONG RANGE MISSION
 DATA SAMPLE

BLOCK	NAUTICAL MILES	TOTAL Points	WIND DISTRIBUTION (FT./SEC.)																			
			-30	-20	-15	-12.5	-10	-7.5	-5	0	+7.5	+10	+12.5	+15	+20	+30						
2 1 2	0.7	7																				
2 2 2	3.5	0																				
2 2 3	1.4	0																				
2 3 3	5.0	1																				
2 3 3	2.9	3																				
2 4 2	1.1	0																				
2 4 2	10.1	2																				
2 4 2	3.0	0																				
2 4 2	3.3	0																				
2 5 0	0.5	0																				
2 5 0	9.0	0																				
2 7 0	2.0	0																				
2 7 2	30.1	0																				
3 1 2	107.5	70																				
3 1 2	10.4	7																				
3 2 2	190.0	95																				
3 2 3	188.2	51																				
3 2 4	97.0	21																				
3 3 2	107.7	30																				
3 3 3	214.4	101																				
3 3 4	202.9	67																				
3 3 5	75.0	30																				
3 3 6	3.2	0																				
3 4 2	4.0	0																				
3 4 2	70.4	1																				
3 4 4	223.2	19																				
3 4 5	313.9	7																				
3 4 6	7.4	0																				
3 5 3	30.0	0																				
3 5 4	100.0	0																				
3 5 5	409.1	7																				
3 5 6	17.2	0																				
3 6 4	40.1	0																				
3 6 5	400.0	1																				
3 6 6	3.2	0																				
3 7 4	100.2	0																				
3 7 5	016.9	7																				
3 8 4	000.4	0																				
3 8 5	510.0	1																				
3 9 3	2.2	0																				
3 9 4	2000.0	04																				
3 9 5	2103.0	74																				
3 10 3	221.7	0																				
3 10 4	19300.2	140																				
3 10 5	212.0	3																				
4 0 4	1005.2	60																				
4 0 5	00.0	0																				
4 0 4	0257.0	01																				
4 0 5	3912.1	08																				
4 10 3	107.0	0																				
4 10 4	40030.3	400																				
4 10 5	013.0	0																				
5 3 3	2.0	0																				
5 4 3	15.9	0																				
5 5 3	17.0	0																				
5 6 3	27.9	15																				
5 7 3	171.3	0																				
5 8 4	1720.1	33																				
5 8 5	500.0	1																				
5 9 4	14420.0	172																				
5 9 5	11207.2	104																				
5 10 4	34407.3	011																				
5 10 5	1500.3	10																				
6 1 2	35.7	31																				
6 1 3	01.5	30																				
6 1 4	77.0	21																				
6 2 2	3.7	0																				
6 2 3	20.0	27																				
6 2 4	27.0	30																				
6 2 5	40.6	34																				
6 3 3	29.0	18																				
6 3 4	40.3	21																				
6 3 5	309.7	92																				
6 3 6	29.9	11																				
6 4 3	13.9	14																				
6 4 4	24.0	17																				
6 4 5	479.0	170																				
6 4 6	35.1	2																				
6 5 4	4.9	0																				
6 5 5	027.0	99																				
6 6 3	003.0	03																				
6 6 6	7.2	0																				
6 7 5	1347.0	39																				
6 7 6	39.4	0																				
6 8 4	302.1	21																				
6 8 5	1711.3	27																				
6 9 4	2100.5	06																				
6 9 5	0439.0	370																				
6 10 4	3000.0	30																				
6 10 5	205.9	4																				
TOTAL	17921.3	1617	0	0	0	1	5	3	10	20	270	1001	1590	636	129	20	10	4	0	0	0	0

TABLE 404
DISTRIBUTION OF SURFACE WIND VELOCITY
FOR THE
FRAMES AND PAGES SHOWN
ENCLOSURE ATTACHED
DATE 1954

STATION	ELEVATION FEET	TOTAL PAGES	WIND DISTRIBUTION (FT./MIN.)														
			< 5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	> 50				
100-0	100	100															
100-1	100	100															
100-2	100	100															
100-3	100	100															
100-4	100	100															
100-5	100	100															
100-6	100	100															
100-7	100	100															
100-8	100	100															
100-9	100	100															
100-10	100	100															
100-11	100	100															
100-12	100	100															
100-13	100	100															
100-14	100	100															
100-15	100	100															
100-16	100	100															
100-17	100	100															
100-18	100	100															
100-19	100	100															
100-20	100	100															
100-21	100	100															
100-22	100	100															
100-23	100	100															
100-24	100	100															
100-25	100	100															
100-26	100	100															
100-27	100	100															
100-28	100	100															
100-29	100	100															
100-30	100	100															
100-31	100	100															
100-32	100	100															
100-33	100	100															
100-34	100	100															
100-35	100	100															
100-36	100	100															
100-37	100	100															
100-38	100	100															
100-39	100	100															
100-40	100	100															
100-41	100	100															
100-42	100	100															
100-43	100	100															
100-44	100	100															
100-45	100	100															
100-46	100	100															
100-47	100	100															
100-48	100	100															
100-49	100	100															
100-50	100	100															

RENDERED PAGE BLANK - NOT TYPED

APPENDIX B

LEAD-THE-FORCE FLIGHT LOADS DATA

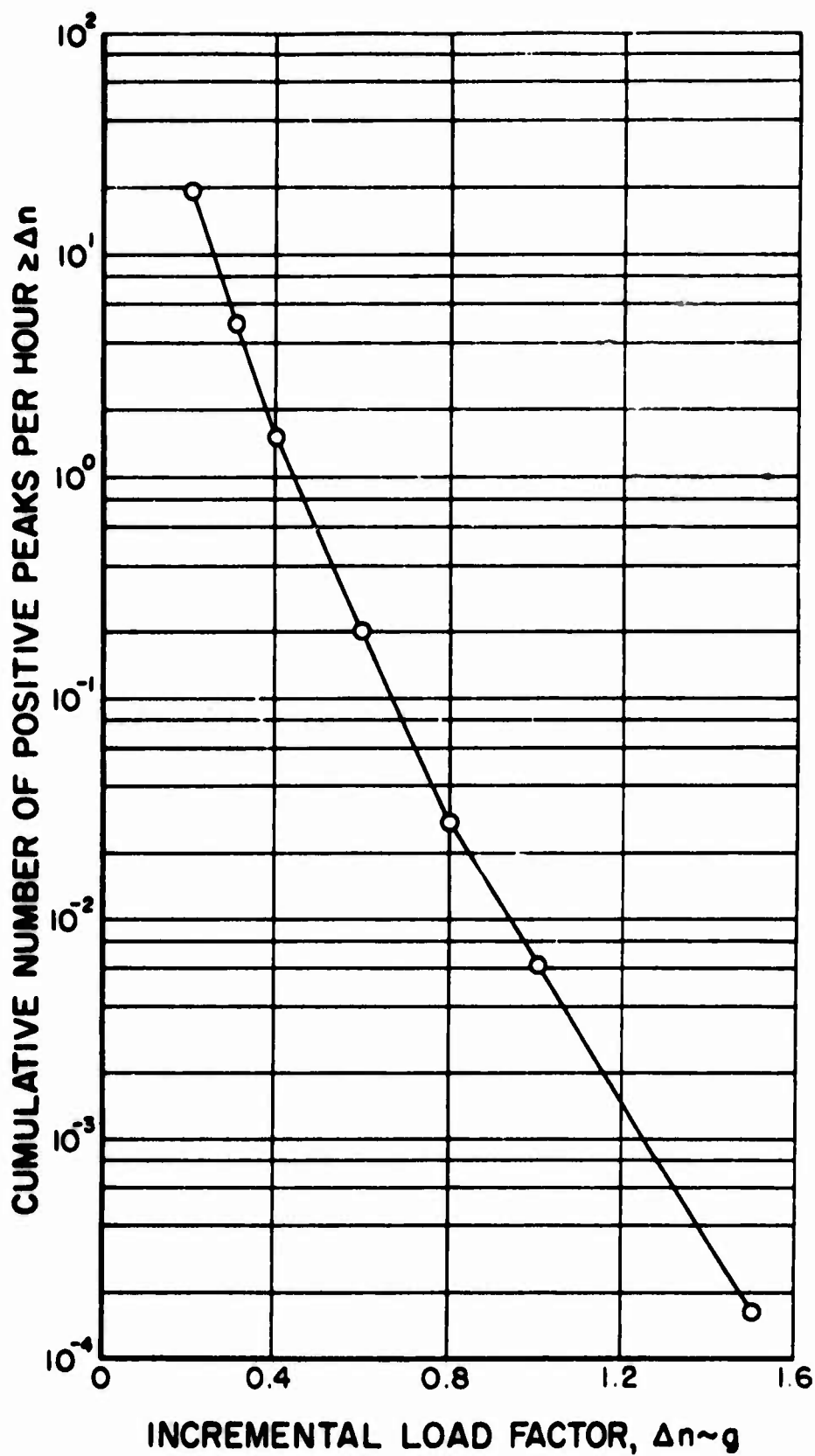


Figure B1. Positive Maneuver Spectrum Obtained from 6,076 Flight-Hours of Lead-the-Force Flight Loads Data

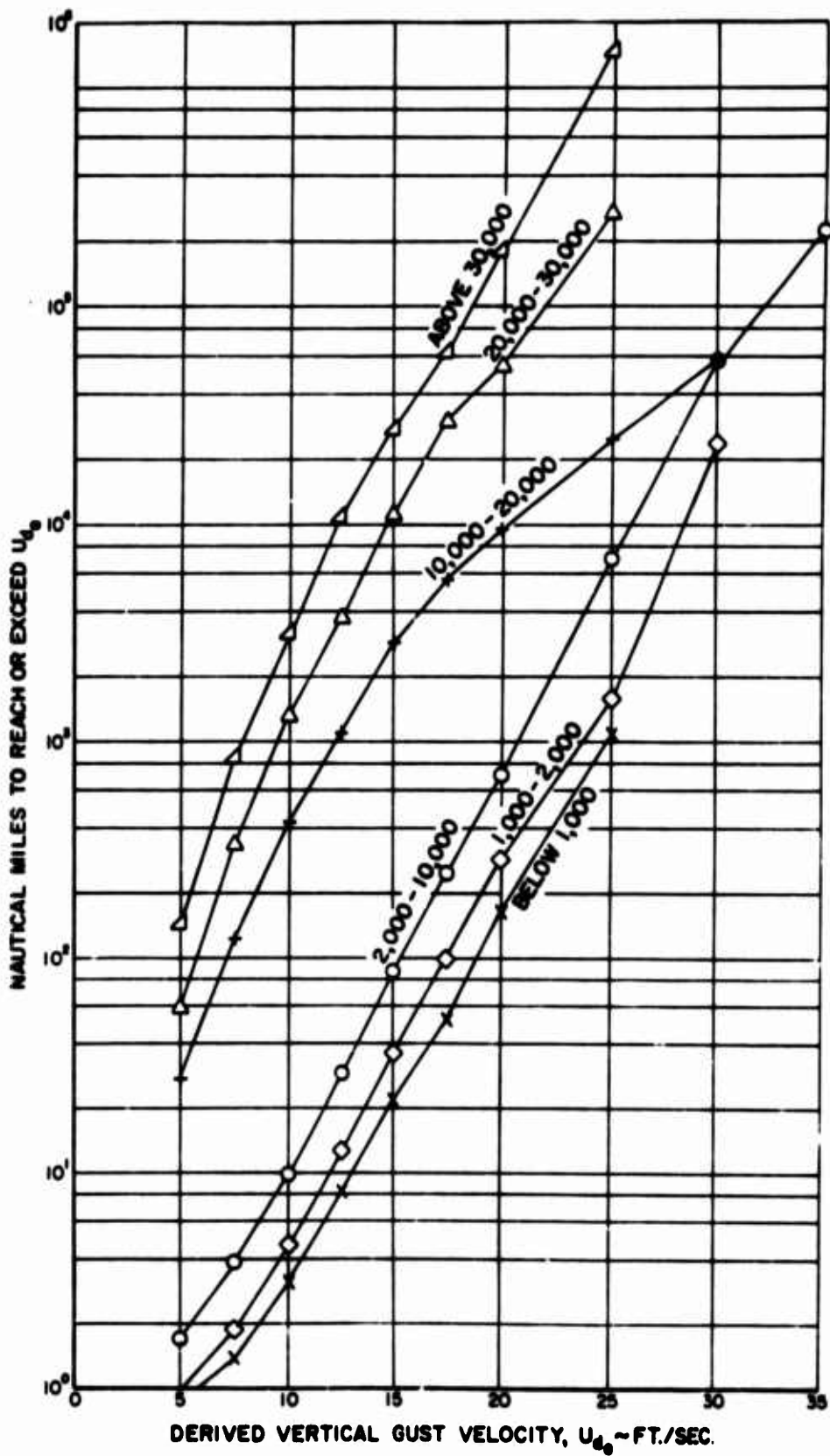


Figure B2. Positive Gust Spectrum by Altitude from 6,076 Flight-Hours of Lead-the-Force Flight Loads Data

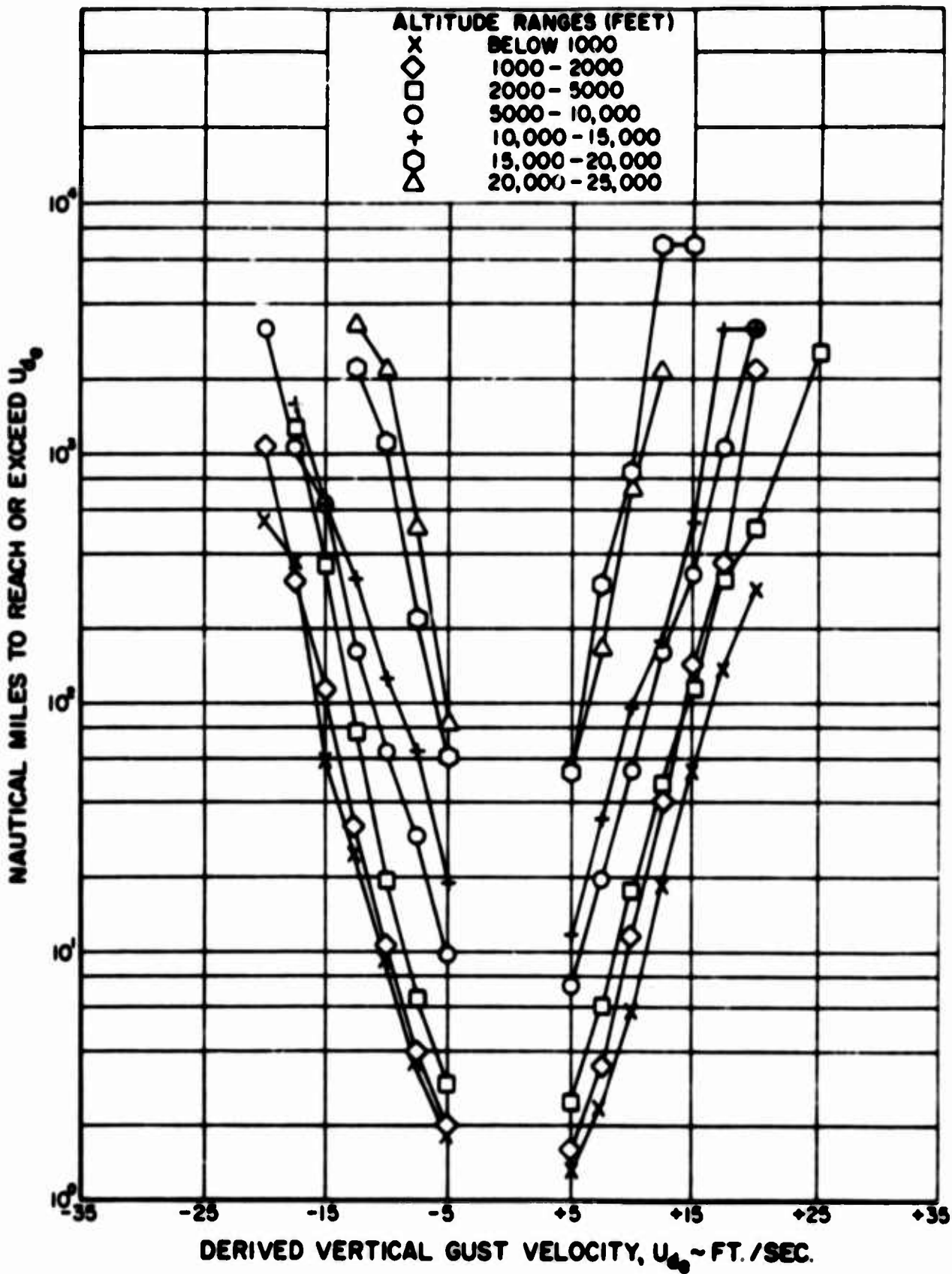


Figure B3. Gust Spectrum by Altitude Obtained from 646 Flight-Hours of LTF Data Acquired at Charleston Air Force Base (Refer to Table B1)

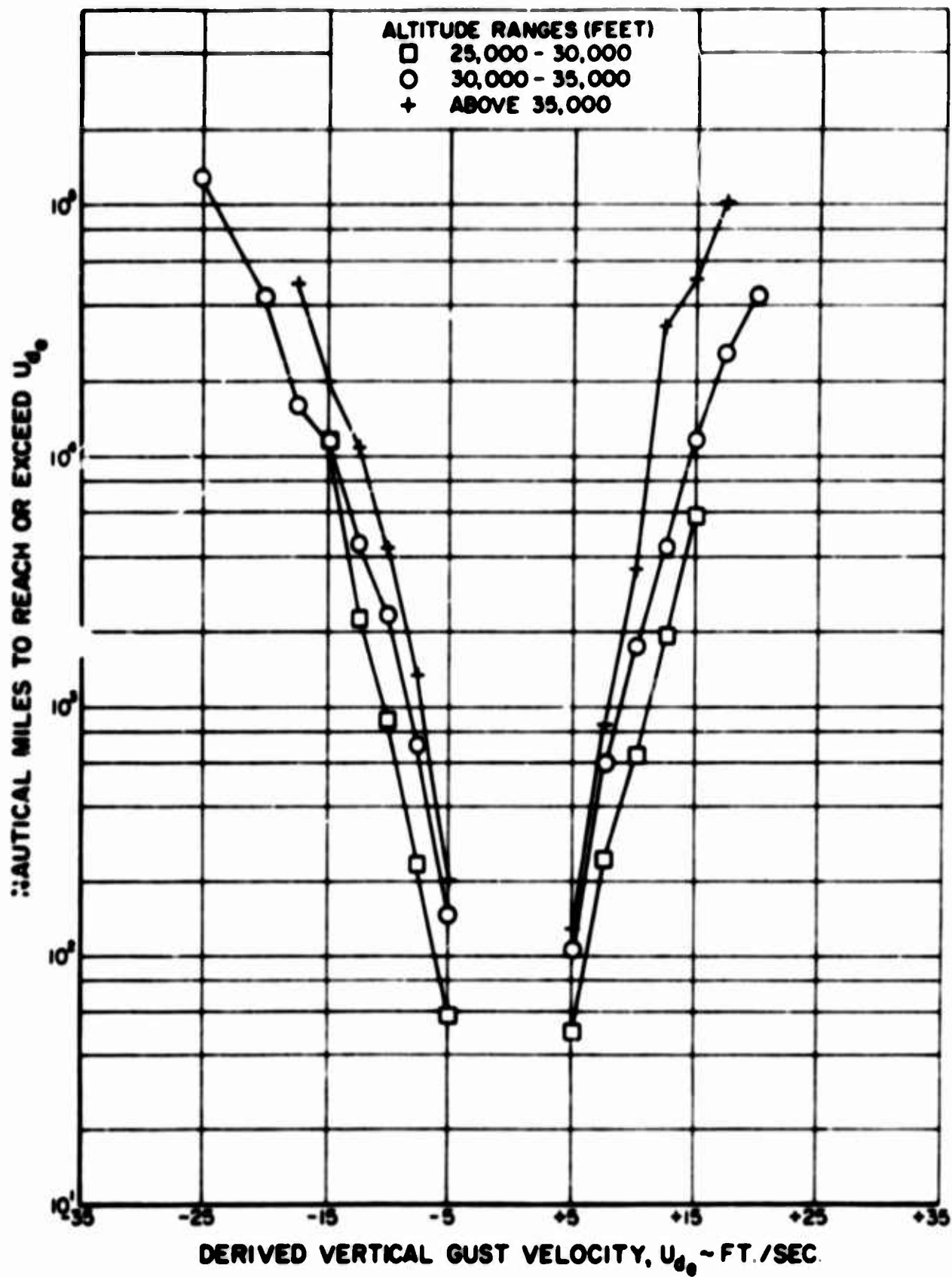


Figure B3 --- concluded

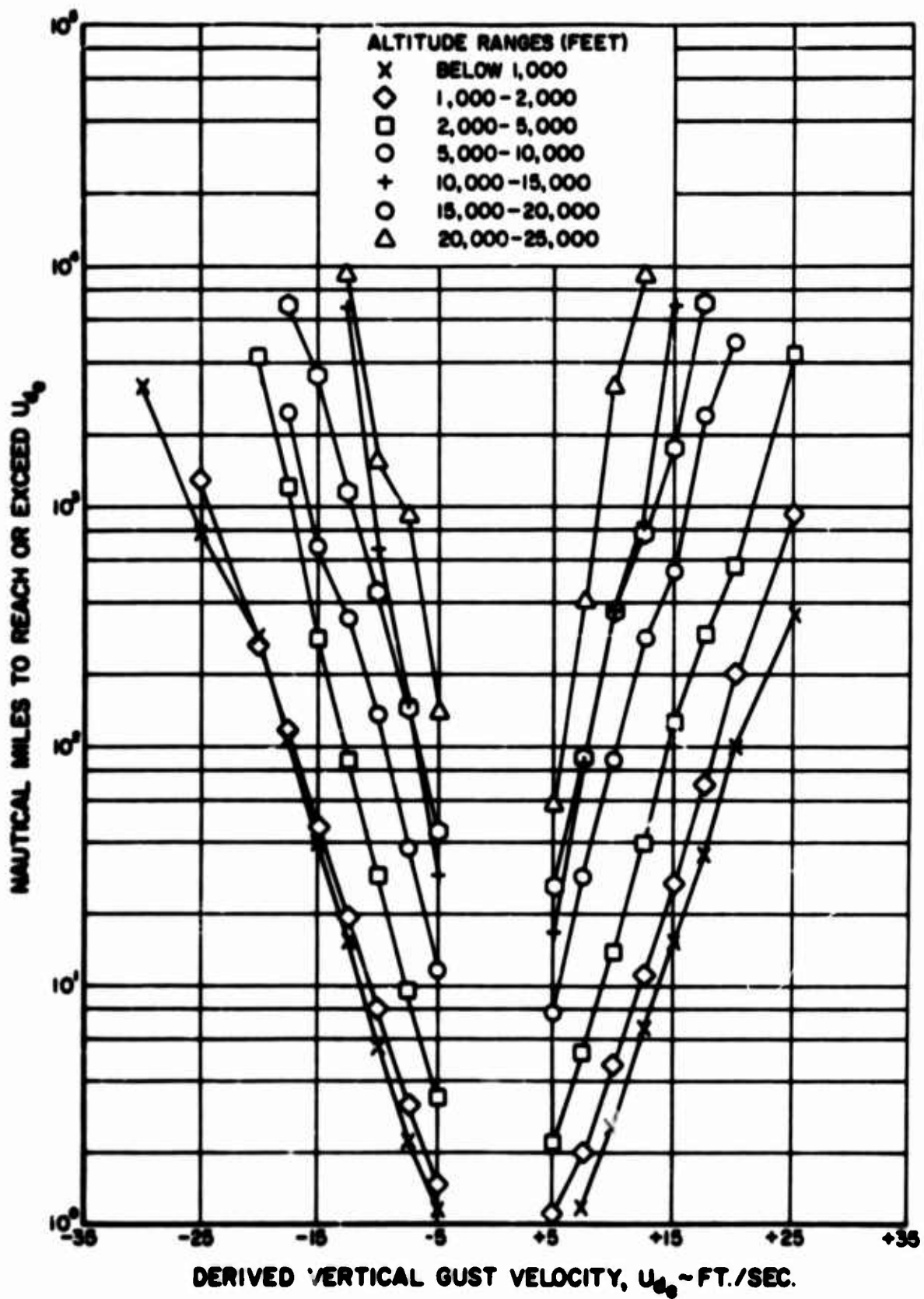


Figure B4. Gust Spectrum by Altitude Obtained from 960 Flight-Hours of LTF Data Acquired at Dover Air Force Base (Refer to Table B2)

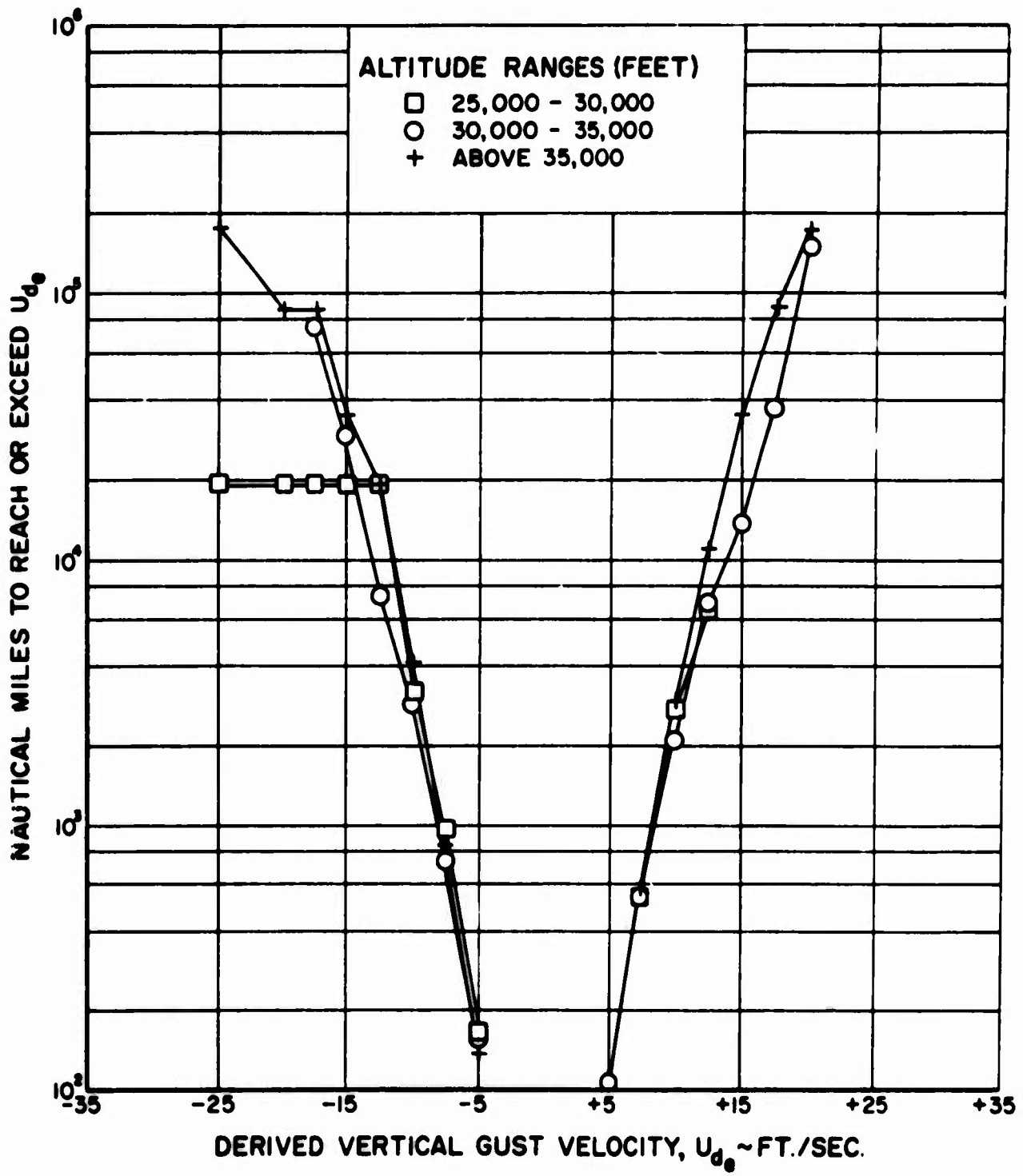


Figure B4 --- concluded

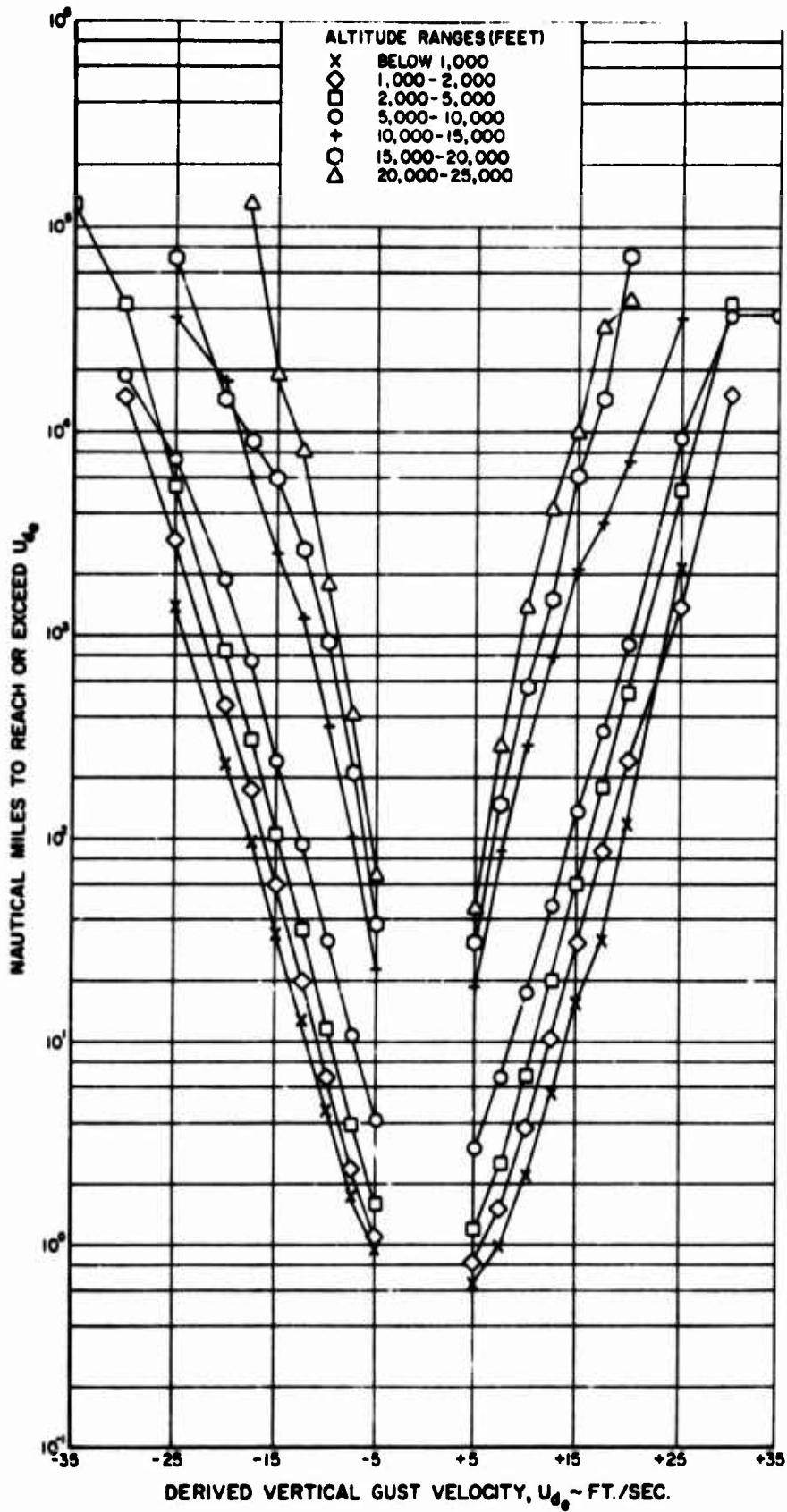


Figure B5. Gust Spectrum by Altitude Obtained from 1,949 Flight-Hours of LTF Data Acquired at Tinker Air Force Base (Refer to Table B3)

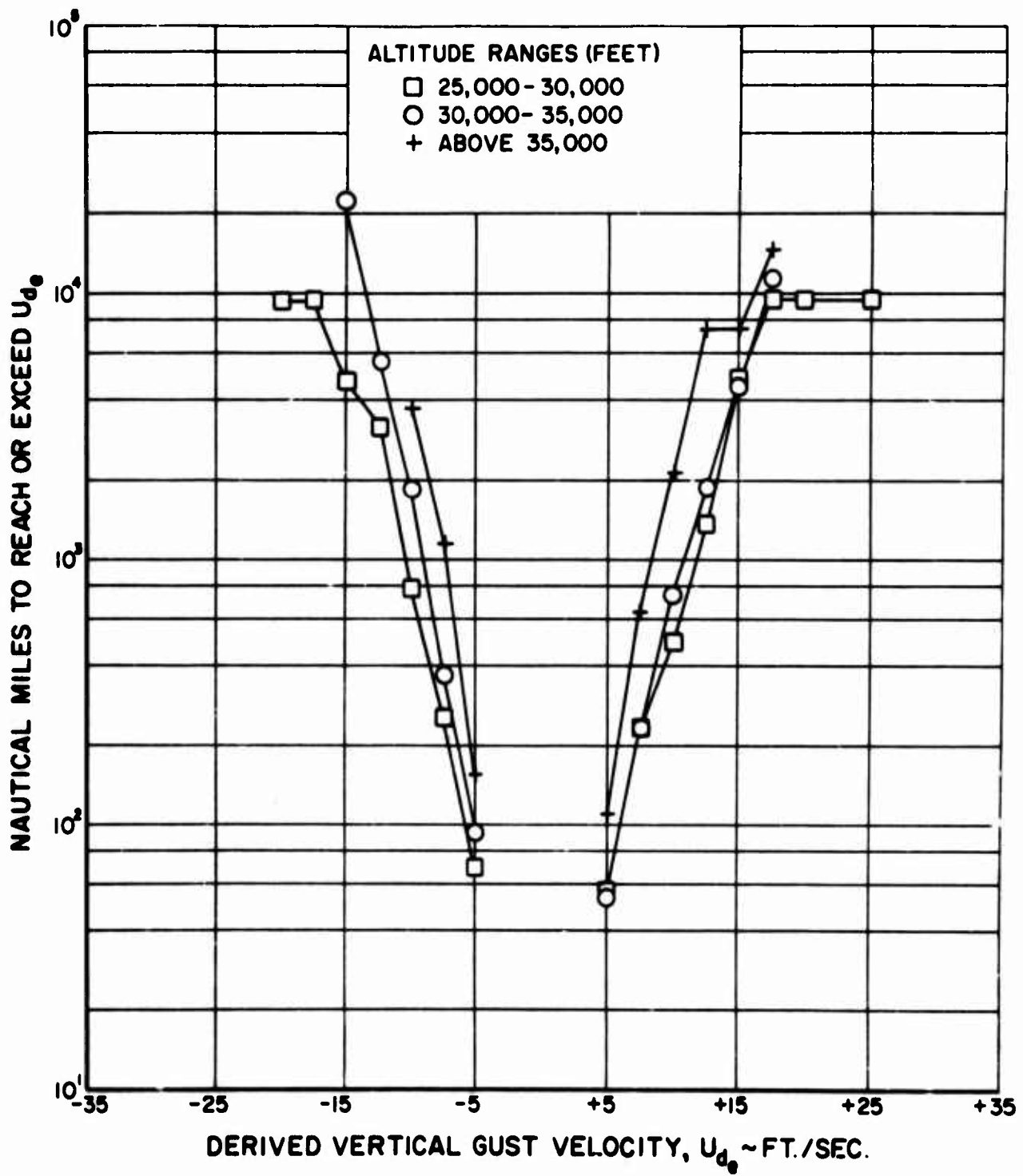


Figure B5 --- concluded

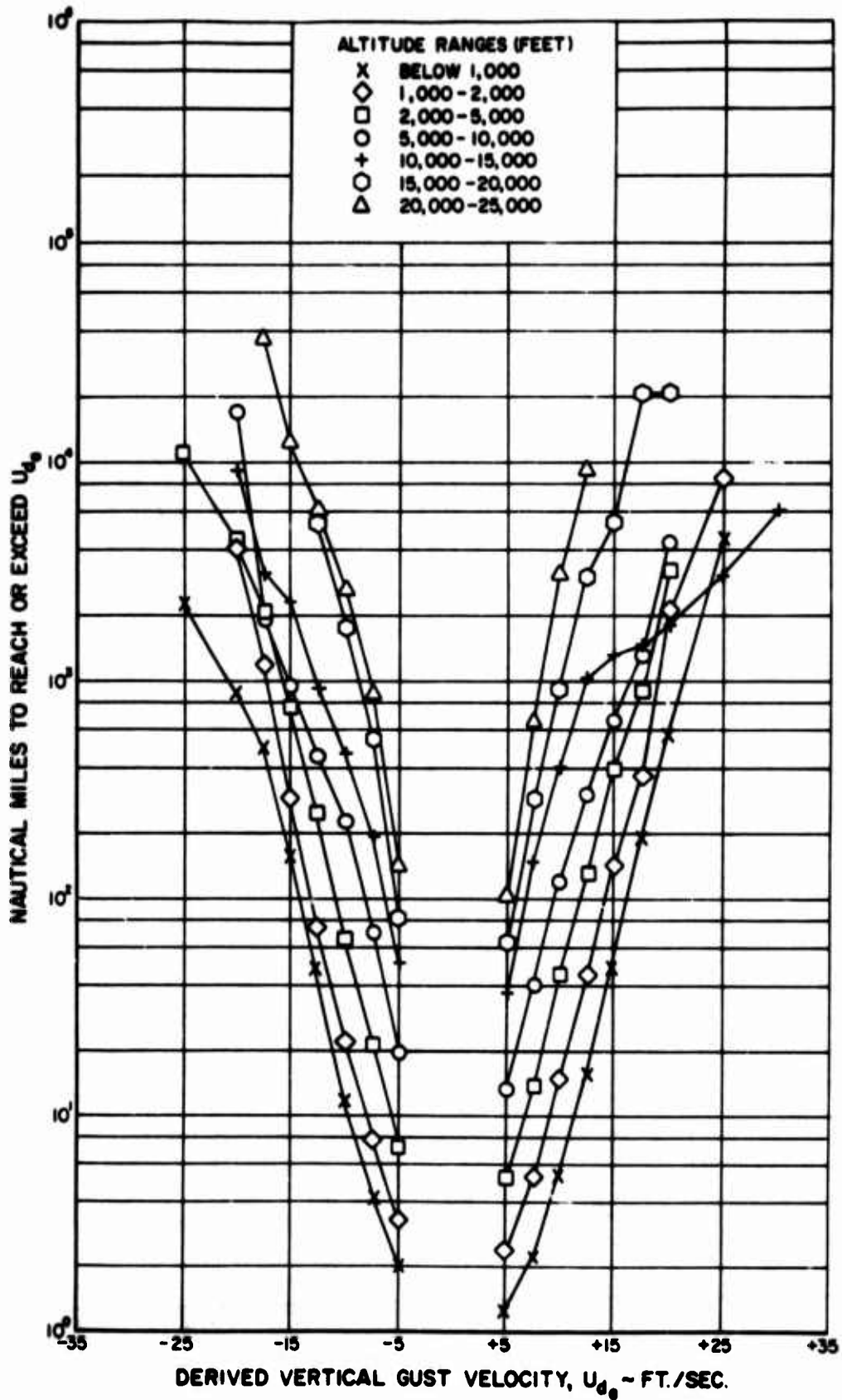


Figure B6. Gust Spectrum by Altitude Obtained from 2,521 Flight-Hours of LTF Data Acquired at Travis Air Force Base (Refer to Table B4)

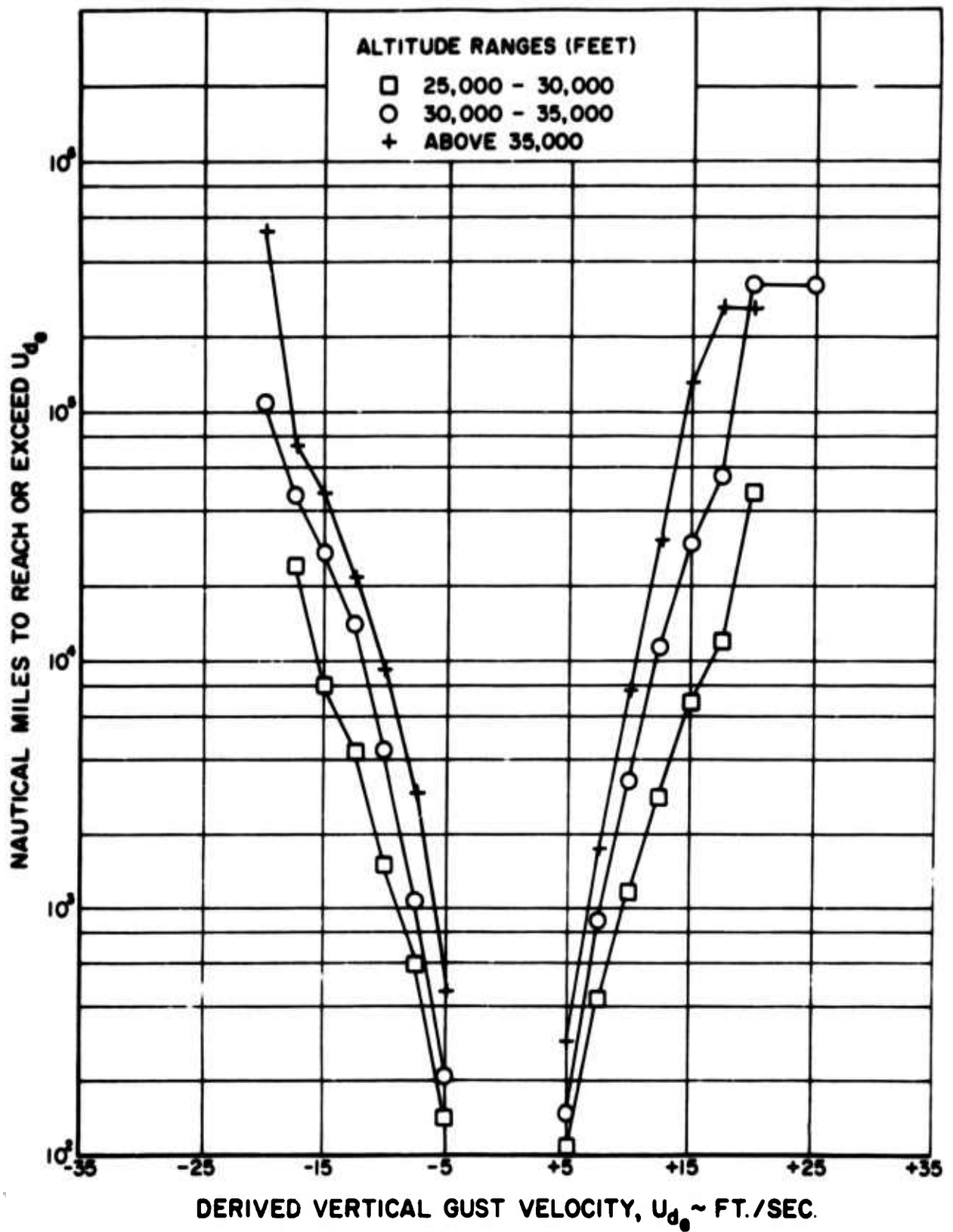


Figure B6 --- concluded

TABLE BI
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 BY ALTITUDE
 FOR THE
 CHARLESTON AIR FORCE BASE
 DATA SAMPLE

ALTITUDE (1000 FT)	DISTANCE (IN MILES)	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
			-25	-20	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35		
RELCH 1	1106.3	1442				2	1	10	27	77	109	292	360	290	190	90	13	0	0		
1 TO 2	2147.7	2443				2	5	12	48	137	339	534	739	439	139	30	9	9	1		
2 TO 5	2909.2	1073				2	5	26	96	260	449	600	270	92	31	14	3	0	1		
5 TO 10	3107.2	777				1	2	2	15	30	60	227	270	107	60	10	7	2	1		
10 TO 15	3134.3	437				2	3	9	15	24	121	174	60	15	12	5			1		
15 TO 20	6741.3	237						3	3	25	70	105	14	7					1		
20 TO 25	6529.0	199						2	1	10	66	76	31	6	3						
25 TO 30	11400.0	441						1	4	0	36	191	194	29	12	4	2				
30 TO 35	170327.4	2107				1	2	5	3	17	27	127	694	1012	144	45	10	6	2	3	
Above 35	97376.9	1256						2	3	4	14	91	419	691	80	25	1	1	1		
TOTAL	262407.1	11200				1	7	19	49	191	400	1117	3040	4197	1457	311	157	50	17	10	1

TABLE BI
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 BY ALTITUDE
 FOR THE
 DOVER AIR FORCE BASE
 DATA SAMPLE

ALTITUDE (1000 FT)	DISTANCE (IN MILES)	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
			-25	-20	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
RELCH 1	3147.5	7057				1	3	7	10	90	125	343	872	1394	1499	1437	765	262	117	60	20	0
1 TO 2	6454.0	10267				3	19	31	85	196	476	1247	2330	2649	1022	813	340	147	61	20	7	
2 TO 5	8392.7	6403						2	5	23	67	196	506	1052	2222	1047	309	149	36	14	10	2
5 TO 10	4020.0	1049						2	5	7	22	90	296	459	113	30	0	7	1	1		
10 TO 15	6606.0	633								1	9	34	100	331	60	16	7	1				
15 TO 20	6932.2	436						1	1	4	10	33	100	192	50	10	5	3	1			
20 TO 25	9340.1	231								1	5	4	37	141	20	2	1					
25 TO 30	14001.0	310								1	5	14	90	156	20	4	3					
30 TO 35	146600.4	2797								2	3	15	32	140	742	1100	209	90	11	7	3	1
Above 35	173174.9	3054						1	1	3	4	35	161	1044	1507	230	44	11	3	1	1	
TOTAL	304671.4	31827				1	10	29	99	170	420	1153	3109	7070	10414	9032	2125	803	321	141	60	10

TABLE B3
DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
BY ALTITUDE
FOR THE
TINNOR AIR FORCE BASE
DATA SAMPLE

ALTITUDE (EGGC FT)	DISTANCE (M FEET)	TOTAL PEAKS	WDF DISTRIBUTION (FT./SEC.)																				
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15+17.5	+20	+25	+30+35				
0600 1	4167.7	11095				3	15	26	80	204	577	1512	2079	2404	2287	1140	493	146	93	34	2		
1 TC 2	29357.0	43140				7	8	55	187	324	504	2042	8032	14104	16670	11761	5050	1917	626	220	104	20	2
2 TC 4	175333.7	106914	1	2	20	129	242	790	2367	7347	21456	47036	56723	31473	12371	4230	1410	462	217	22	3		
4 TC 10	34970.1	21247				2	3	15	29	104	241	755	2272	5515	6848	3405	1370	504	145	70	37	3	1
10 TC 15	35184.9	3454				1	1	4	8	15	69	257	1195	1935	289	79	29	7	5	4	1		
15 TC 20	71693.4	4297				1	4	3	4	15	92	276	1577	1801	358	83	37	7	4	1			
20 TC 25	127670.3	4895						1	4	9	57	244	1671	2416	360	62	18	9	1	3			
25 TC 30	1409.0	305						1	1	1	9	25	101	127	21	12	5	1					1
30 TC 35	22214.7	650							1	3	8	49	179	121	67	18	7	3	2				
0600 35	14679.7	229									4	9	82	110	16	5			1	1			
TOTAL	476261.2	295846	1	4	34	220	432	1310	3044	11820	34276	73737	89033	50830	20156	72402	2375	850	400	49	5	1	

TABLE B4
DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
BY ALTITUDE
FOR THE
TRAVIS AIR FORCE BASE
DATA SAMPLE

ALTITUDE (EGGC FT)	DISTANCE (M FEET)	TOTAL PEAKS	WDF DISTRIBUTION (FT./SEC.)																					
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15+17.5	+20	+25	+30+35					
0600 1	4447.2	5764				2	3	4	19	64	201	707	1134	1546	1161	554	193	69	19	7	1			
1 TC 2	4401.5	6150							2	5	22	84	267	716	1462	1981	1035	387	130	56	19	3	1	
2 TC 5	22277.7	7491							2	3	6	19	61	249	770	2062	2745	1125	320	114	32	10	7	
4 TC 10	17130.0	2185							1	0	5	20	37	170	634	880	284	85	31	13	9	4		
10 TC 15	14194.5	871							2	4	2	12	20	54	271	300	80	28	4	1	3	4	3	
15 TC 20	20961.5	991									9	8	27	210	260	51	16	3	3				1	
20 TC 25	36490.6	814									1	2	3	8	28	215	301	44	8	4				
25 TC 30	47596.4	790									2	4	5	21	50	264	332	70	25	10	3	3	1	
30 TC 35	322250.4	3755									3	4	5	11	52	226	1259	1832	264	70	10	5	5	1
0600 35	520782.9	2964									1	6	4	13	52	120	450	1543	320	51	13	2	2	
TOTAL	1618950.2	31179				4	15	60	86	279	977	2020	8469	11800	4343	1552	520	164	72	29	6	3		

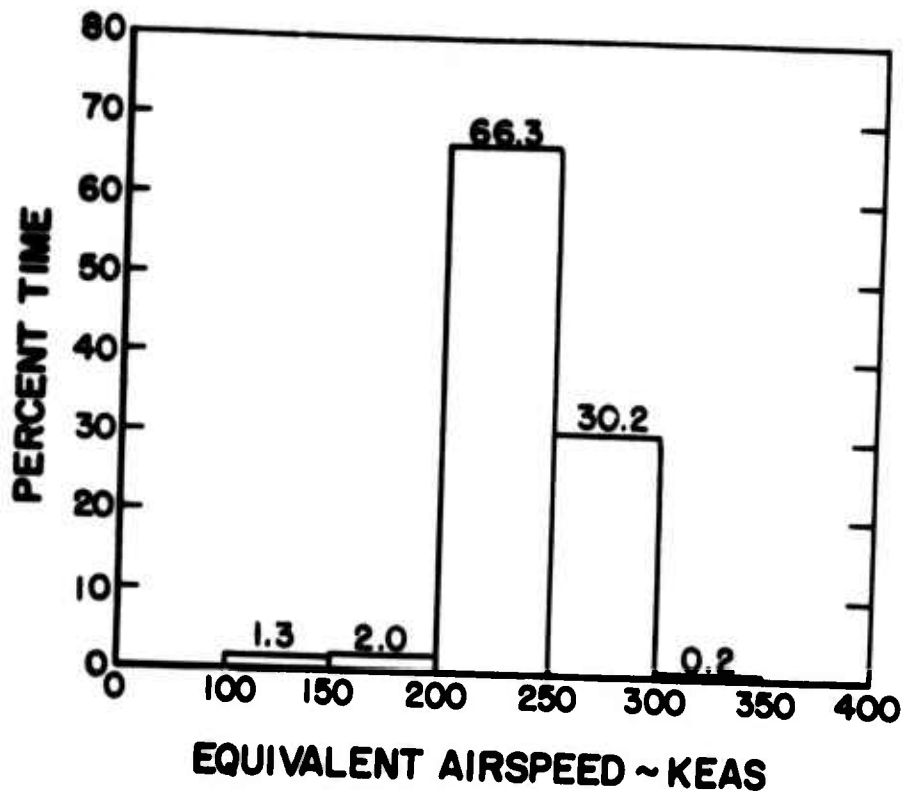


Figure B7 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Medium Range Missions

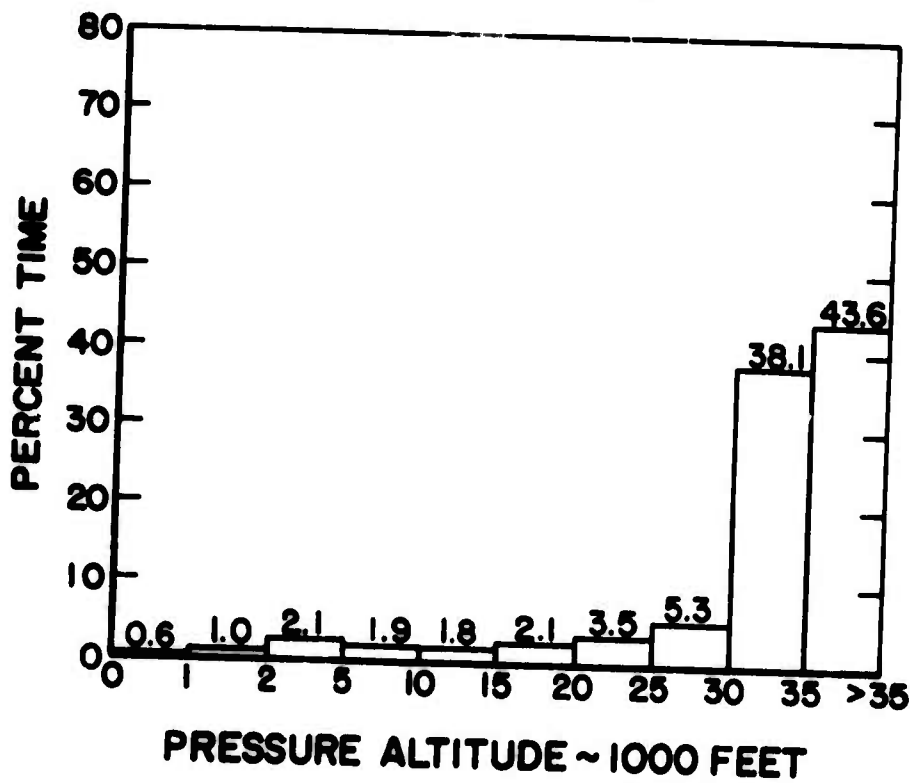


Figure B8 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Medium Range Missions

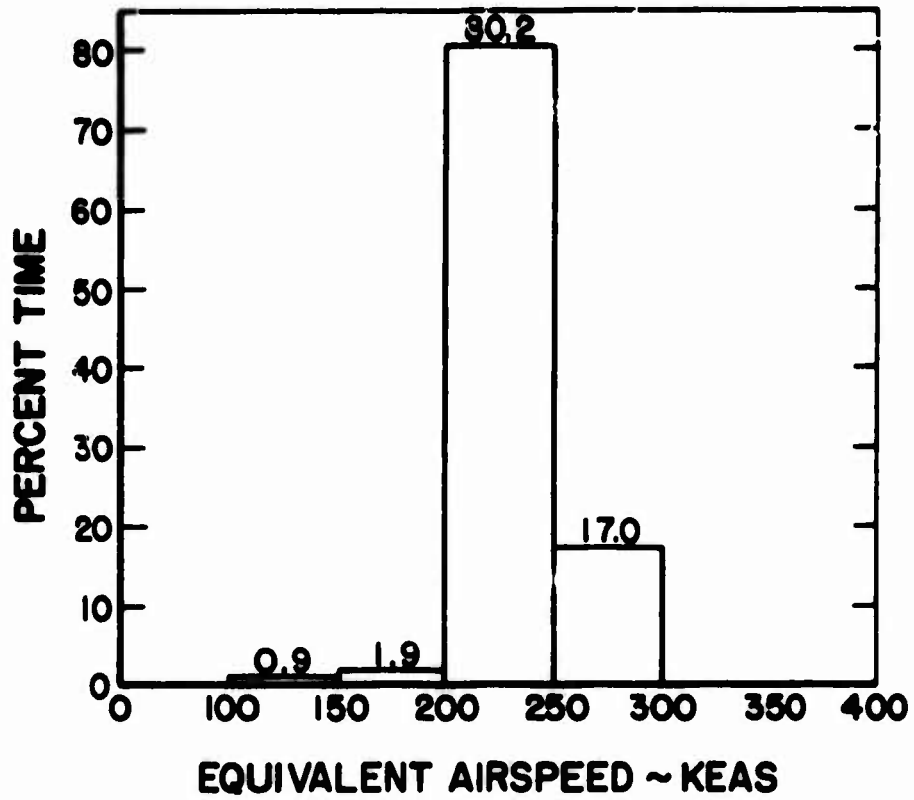


Figure B9 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Logistics Long Range Missions

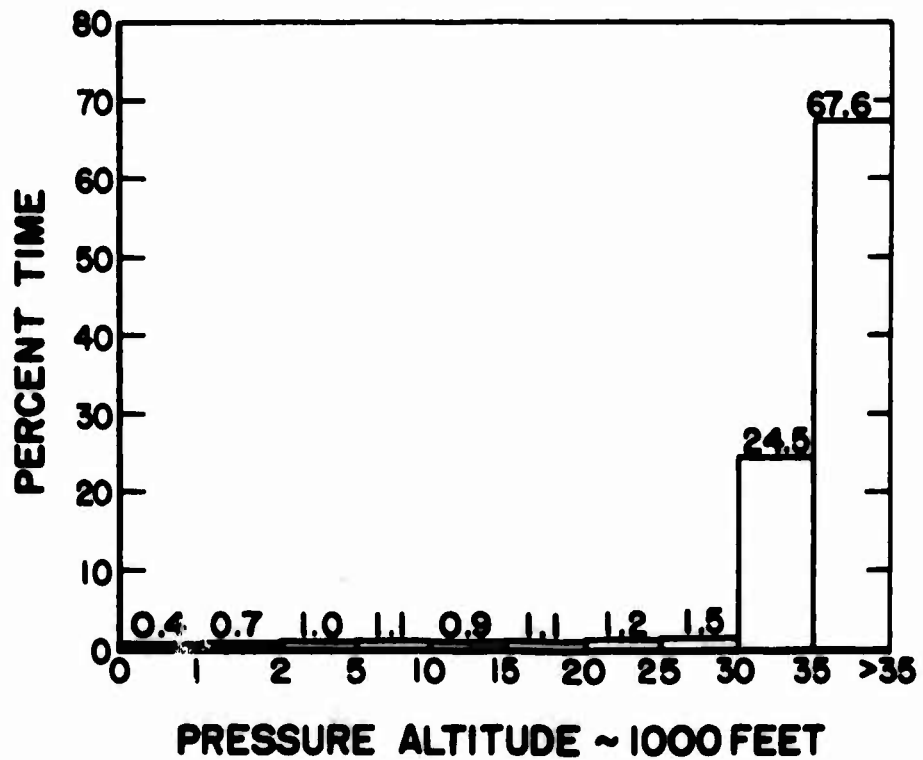


Figure B10 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Logistics Long Range Missions

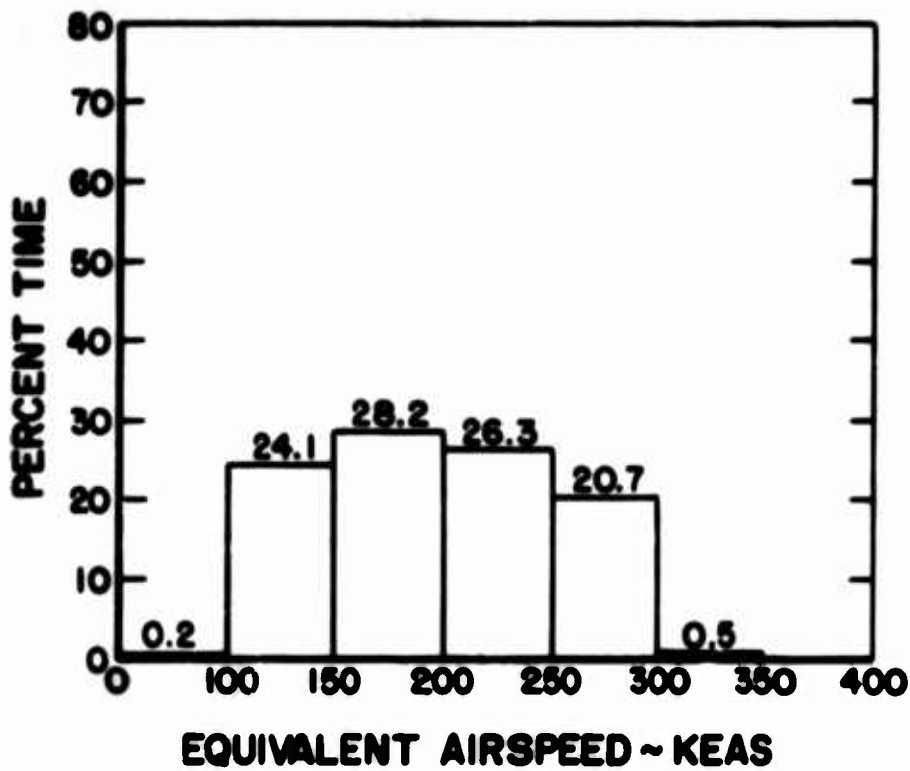


Figure B11 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Training Missions

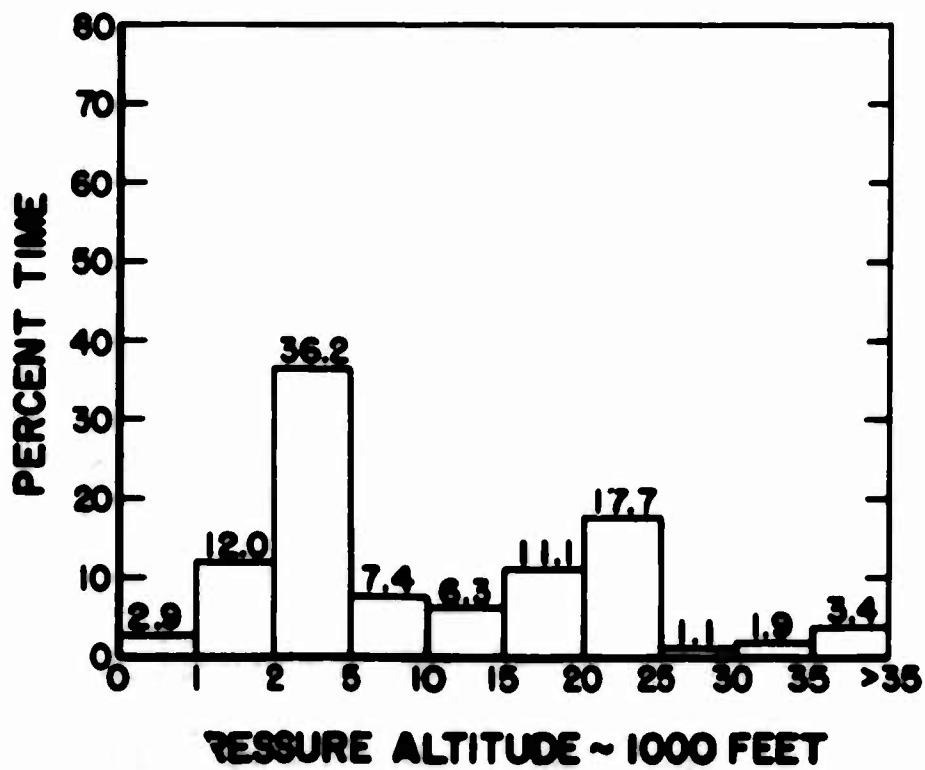


Figure B12 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Training Missions

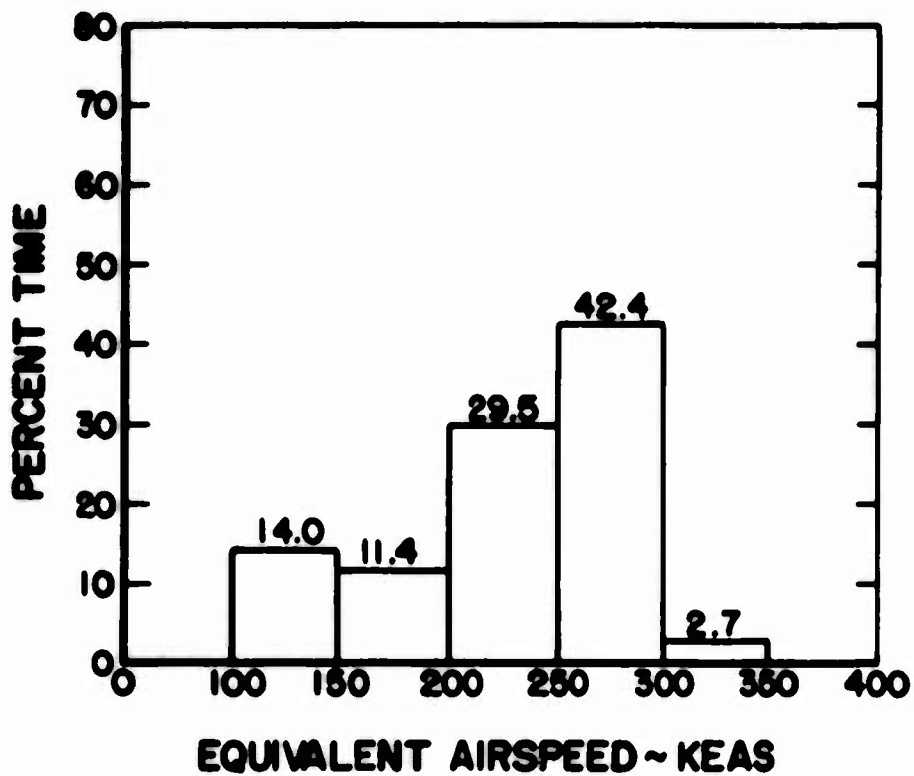


Figure B13 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Miscellaneous Missions

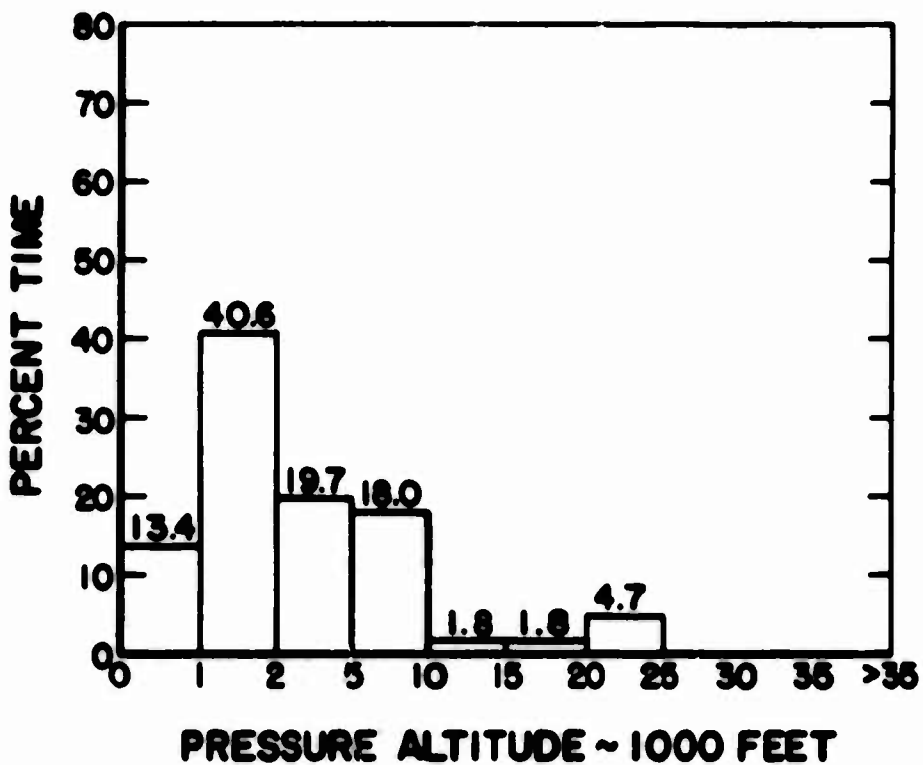


Figure B14 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Miscellaneous Missions

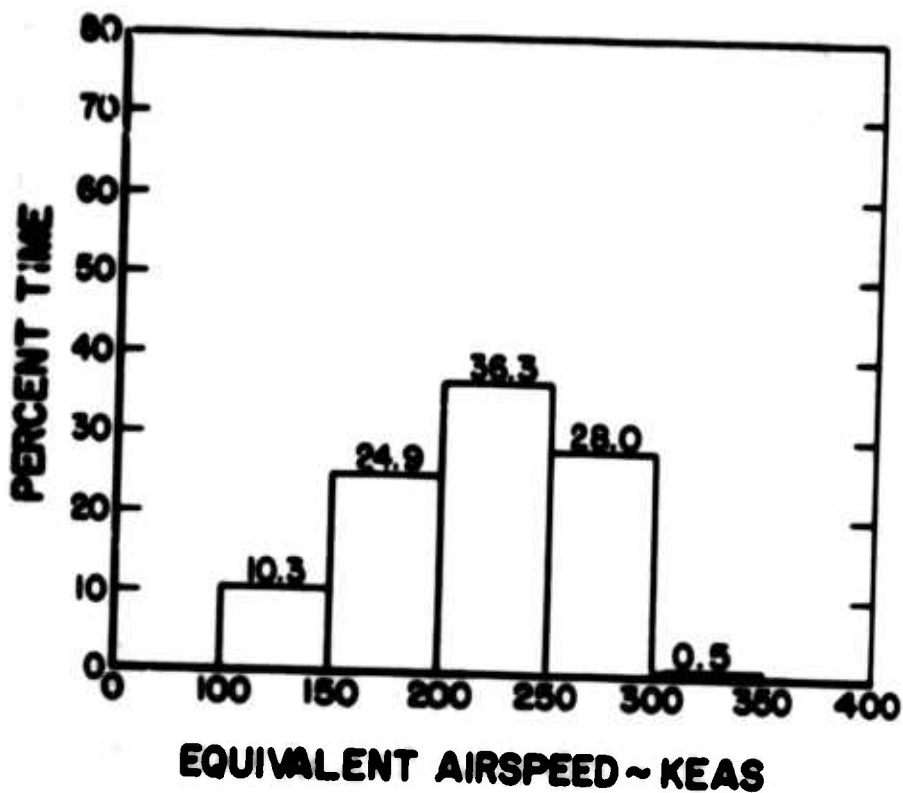


Figure B15 Percentages of the Total Flight Time Spent in the Various Airspeed Bands for Flight Test Missions

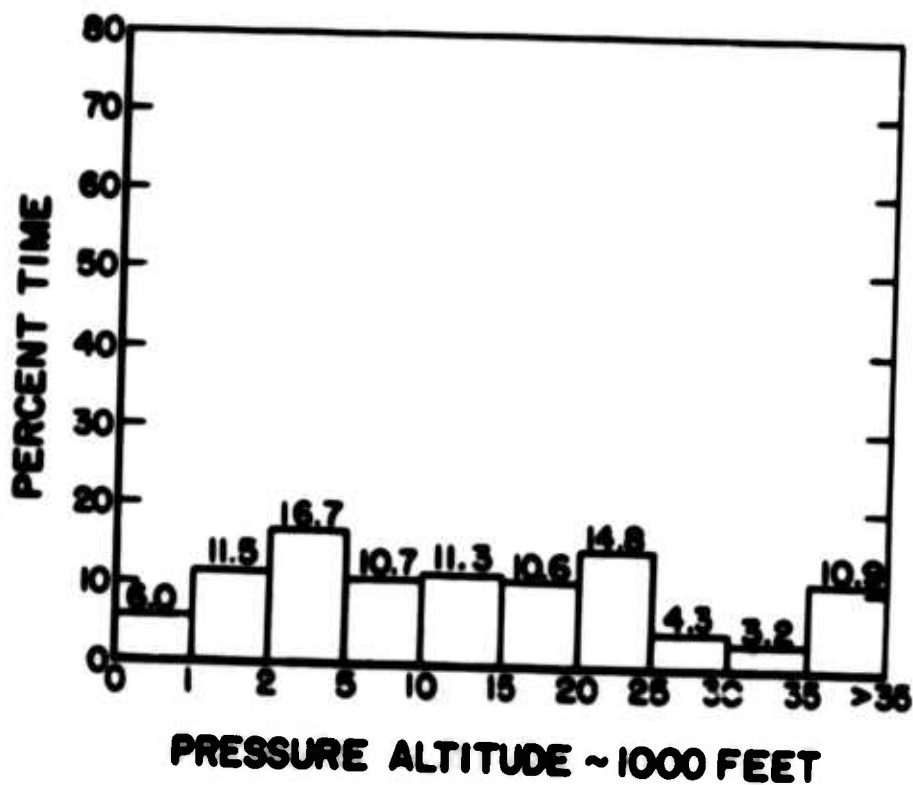


Figure B16 Percentages of the Total Flight Time Spent in the Various Altitude Bands for Flight Test Missions

TABLE 25
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
LOGISTICS, MEDIUM RANGE MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)											TOTAL TIME	PERCENT TIME
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35			
BELOW 100	0.	0.02	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.02	0.00
100 TO 150	11.01	16.43	12.24	0.03	0.	0.	0.01	0.	0.	0.	0.	49.11	1.28
150 TO 200	0.70	12.17	20.94	7.24	1.23	0.04	1.00	2.07	0.12	7.34	65.91	65.91	1.96
200 TO 250	0.03	3.33	17.00	16.27	9.99	4.17	19.92	9.00	734.07	1430.01	2239.47	66.16	66.16
250 TO 300	0.12	0.07	13.70	37.71	90.74	66.46	101.07	100.00	949.36	28.40	1017.49	30.23	30.23
300 TO 350	0.	0.02	0.70	0.03	2.99	0.96	0.07	0.02	0.	0.	9.64	0.17	0.17
350 TO 400	0.	0.	0.	0.	0.00	0.	0.	0.	0.	0.	0.00	0.00	0.00
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	21.31	32.95	71.15	67.00	60.11	71.03	119.27	176.57	1203.94	1466.02	3365.05	100.00	100.00
PERCENT	0.63	0.98	2.11	1.97	1.79	2.13	3.54	5.25	36.14	43.56			

TABLE 26
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
LOGISTICS, LONG RANGE MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)											TOTAL TIME	PERCENT TIME
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35			
BELOW 100	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
100 TO 150	1.45	1.01	0.01	0.00	0.02	0.03	0.	0.	0.	0.	4.20	0.93	0.93
150 TO 200	0.52	0.98	1.13	0.39	0.11	0.15	0.00	0.07	0.	1.01	0.43	1.06	1.06
200 TO 250	0.02	0.34	1.22	1.63	0.40	0.17	0.19	0.22	59.12	100.00	364.15	80.21	80.21
250 TO 300	0.00	0.07	1.32	2.73	1.60	4.36	5.15	6.34	52.04	1.00	77.10	17.00	17.00
300 TO 350	0.	0.	0.00	0.01	0.03	0.	0.	0.	0.	0.	0.04	0.01	0.01
350 TO 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	1.99	3.19	4.60	4.63	4.25	4.92	5.37	6.81	111.15	106.00	454.01	100.00	100.00
PERCENT	0.44	0.70	0.99	1.00	0.94	1.00	1.10	1.50	24.60	23.58			

TABLE 27
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
TRAINING MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)											TOTAL TIME	PERCENT TIME
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35			
BELOW 100	0.07	2.06	0.47	0.	0.	0.	0.	0.	0.	0.	3.61	0.15	0.15
100 TO 150	49.39	171.03	290.27	6.07	6.47	3.20	5.90	0.36	0.13	0.	530.60	24.13	24.13
150 TO 200	10.42	07.25	364.77	39.03	13.29	31.00	62.05	1.93	0.19	6.34	629.70	28.20	28.20
200 TO 250	1.33	5.66	123.94	93.42	40.62	100.98	170.16	1.91	10.00	60.07	707.69	31.31	31.31
250 TO 300	1.70	1.33	23.46	61.09	60.44	100.98	193.10	10.12	23.90	1.30	461.99	20.67	20.67
300 TO 350	0.10	0.	0.50	2.50	2.23	2.00	3.00	0.05	0.	0.	11.93	0.53	0.53
350 TO 400	0.	0.	0.	0.01	0.00	0.	0.	0.	0.	0.	0.02	0.00	0.00
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	63.00	200.14	690.40	164.37	141.00	247.10	395.91	23.36	43.00	77.00	2232.00	100.00	100.00
PERCENT	2.80	12.01	30.29	7.34	6.32	11.07	17.71	1.05	1.93	3.45			

TABLE B8
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
MISCELLANEOUS MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)										TOTAL TIME	PERCENT TIME	
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35			
BELOW 100	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
100 TO 150	0.22	0.88	0.11	0.	0.	0.	0.	0.	0.	0.	0.	1.20	13.99
150 TO 200	0.05	0.61	0.32	0.	0.	0.	0.	0.	0.	0.	0.	0.98	11.40
200 TO 250	0.41	1.25	0.53	0.35	0.	0.	0.	0.	0.	0.	0.	2.54	29.49
250 TO 300	0.46	0.72	0.68	1.14	0.12	0.16	0.37	0.	0.	0.	0.	3.65	42.40
300 TO 350	0.01	0.04	0.05	0.05	0.05	0.	0.04	0.	0.	0.	0.	0.23	2.69
350 TO 400	0.00	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.00	0.04
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	1.15	3.90	1.69	1.95	0.16	0.16	0.41	0.	0.	0.	0.	8.61	
PERCENT	13.37	46.62	19.64	17.96	1.84	1.84	4.74	0.	0.	0.	0.		100.00

TABLE B9
DISTRIBUTION OF TIME (HOURS)
BY ALTITUDE AND AIRSPEED INCREMENTS
FOR THE
FLIGHT TEST MISSION

AIRSPEED (KIAS)	ALTITUDE (1000 FT.)										TOTAL TIME	PERCENT TIME	
	BELOW 1	1 TO 2	2 TO 5	5 TO 10	10 TO 15	15 TO 20	20 TO 25	25 TO 30	30 TO 35	ABOVE 35			
BELOW 100	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
100 TO 150	0.57	0.58	0.40	0.	0.02	0.	0.01	0.	0.	0.	0.	1.58	10.31
150 TO 200	0.35	1.04	1.54	0.44	0.25	0.01	0.14	0.	0.	0.01	0.	3.80	24.86
200 TO 250	0.00	0.12	0.38	0.64	0.76	0.73	0.89	0.11	0.24	1.64	0.	5.54	36.33
250 TO 300	0.	0.02	0.23	0.51	0.68	0.83	1.21	0.55	0.25	0.	0.	4.29	28.02
300 TO 350	0.	0.	0.00	0.00	0.02	0.03	0.01	0.	0.	0.	0.	0.07	0.48
350 TO 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ABOVE 400	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	0.92	1.76	2.95	1.64	1.73	1.62	2.27	0.66	0.49	1.67	0.	15.31	
PERCENT	6.01	11.48	19.60	10.69	11.33	10.96	14.83	4.29	3.19	10.94	0.		100.00

TABLE B10
 DISTRIBUTION OF MANEUVER LEAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, RESERVE BASE MISSION
 DATA SAMPLE

D-NO-4 BLOCK	BLOCK TYPE (MIN)	TOTAL FRANK	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
2 1 2	3.6	1									1						
2 2 2	4.0	3							2		1						
2 2 3	2.0	9							1		8						
2 2 4	1.5	9							1		4	4					
2 3 3	1.5	1									1						
2 3 3	0.5	0															
2 4 4	4.0	0															
2 4 5	5.7	0															
2 5 5	4.5	0															
2 6 5	2.0	0															
2 7 5	4.5	0															
2 8 4	1.0	0															
2 8 5	7.0	1									1						
2 9 4	10.0	0															
3 1 2	95.7	1									1						
3 1 3	40.5	8							1		5				1		
3 1 4	11.9	5									4				1		
3 2 2	110.0	9									2						
3 2 3	54.1	15									2						
3 2 4	29.3	18									2						
3 2 5	1.0	1									1						
3 3 2	29.5	4									1						
3 3 3	50.0	25							1		3						
3 3 4	74.9	53							1		3				1		
3 3 5	10.3	5									4						
3 4 1	27.1	12									0				1		
3 4 4	77.0	43									7				7		1
3 4 5	95.0	19									4				13		2
3 4 6	1.0	0															
3 5 4	20.1	10									1				3		1
3 5 5	117.9	30									1				6		4
3 5 6	3.0	0															
3 6 3	1.0	0															
3 6 4	27.4	20									3				13		2
3 6 5	249.1	20									4				13		2
3 6 6	5.0	1													1		
3 7 3	0.5	0															
3 7 4	24.2	15									3				9		3
3 7 5	120.4	13									4				7		1
3 8 4	22.2	9									5				2		2
3 8 5	207.3	30									2				0		17
3 9 3	2.0	0															
3 9 4	1172.4	42									7				9		20
3 9 5	353.7	14									4				7		3
3 10 3	1.0	0															
3 10 4	1594.1	19									10				9		
4 1 2	23.4	4													4		
4 1 3	2.7	0															
4 1 4	0.2	0															
4 2 2	42.1	2													2		
4 2 3	30.0	11									2				0		1
4 2 4	7.7	5									1				4		
4 2 5	0.7	7													2		
4 3 2	11.7	3															
4 3 3	40.0	8															
4 3 4	47.4	29									5				7		1
4 3 5	13.7	13									1				10		6
4 4 3	2.5	0													7		5
4 4 4	42.2	14									3				12		1
4 4 5	96.0	11									2				9		
4 4 6	0.7	0															
4 5 4	13.7	15									4				9		1
4 5 5	60.2	15									1				11		2
4 6 4	11.0	2													2		
4 6 5	395.5	10									6				4		
4 7 4	5.5	3									1				1		1
4 7 5	200.2	15									1				5		4
4 8 4	0.0	2													2		
4 8 5	324.0	38									4				19		3
4 9 4	4291.0	52									1				14		31
4 9 5	1194.1	14													5		10
4 10 4	7030.4	48									2				3		30
4 10 5	3.0	0															
5 1 2	20.5	7													2		
5 1 3	13.7	7													2		
5 1 4	1.1	0															
5 2 2	1.4	0															
5 2 3	19.5	4									1				9		
5 2 4	3.0	5													5		
5 2 5	1.0	4													3		1
5 3 3	15.2	0															
5 3 4	22.7	15									3				10		2
5 3 5	35.4	44									2				4		30
5 3 6	C.S	0													7		1
5 4 4	2.0	2													1		
5 4 5	105.4	24									1				13		2
5 4 6	1.0	0															
5 5 4	0.5	0															
5 5 5	155.5	8									1				3		2
5 6 5	221.5	10													0		2
5 7 4	1.0	0															
5 7 5	340.2	14									1				10		4
5 7 6	1.0	3													3		
5 8 4	0.0	1															
5 8 5	393.7	40									1				5		24
5 9 4	4460.4	97									2				5		24
5 9 5	1637.1	13									1				2		52
5 10 3	5.5	0													0		1
5 10 4	4022.1	60									2				6		1
5 10 5	3.0	0															

TABLE 210 (continued)
 DISTRIBUTION OF AIRBORNE LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

U-MH-A BLOCK	BLOCK TIME (MINS)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
6 1 2	19.3	7							7								
6 1 3	20.8	0															
6 1 4	21.3	1						1									
6 1 5	22.1	0															
6 2 2	24.0	0															
6 2 3	25.2	13						6	6	1							
6 2 4	26.0	8						2	6								
6 2 5	26.0	3						2	1								
6 3 3	30.0	2						1	1								
6 3 4	33.7	23						8	14	3	1						
6 3 5	31.3	47					1	4	32	8	1	1					
6 3 6	32.2	4							2	2							
6 4 4	30.1	0							8		1						
6 4 5	132.0	90						12	20	8	2						
6 4 6	1.5	0															
6 5 4	21.7	0															
6 5 5	137.0	12						4	5	2	1						
6 5 6	3.2	0															
6 6 4	4.5	2						1									
6 6 5	100.0	31				1	3	0	14	3	1	1					
6 6 6	2.0	1							1								
6 7 4	3.0	0															
6 7 5	140.3	8						1	3	4							
6 8 4	7.0	0															
6 8 5	197.2	14						2	3	7	2						
6 9 4	688.5	19						1	4	8	1	1					
6 9 5	324.8	20						1	8	13	1	3	1	1			
6 10 4	267.5	1							1								
TOTAL	36791.5	1427	0	0	5	9	46	279	663	178	49	7	1	0	0	0	0

TABLE B11
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

M-MH-A BLOCK	BLOCK TYPE (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0		
2 1 7	7.0	19							2	19	2							
2 2 2	48.9	41						1	8	31	1							
2 2 3	8.4	19						2	2	10	1							
2 3 2	15.9	13							3	9	1							
2 3 1	17.6	26						1	1	19	5							
3 1 1	1.2	0																
3 1 2	33.9	31						1	6	21	2	1						
3 1 3	3.4	11							3	8								
3 2 2	60.4	96						1	9	44	2							
3 2 3	37.5	65							9	50	6							
3 2 4	5.0	17							2	10	5							
3 3 2	24.5	28						4	2	18	3	1						
3 3 3	25.9	37							6	27	4							
3 3 4	17.0	73						1	12	39	10	3						
3 3 5	1.4	2								2								
3 4 3	2.7	0																
3 4 4	8.2	15						2	1	3	4	3	2					
3 4 5	13.0	10						1	1	6	10							
3 4 6	1.0	2										1	1					
3 5 4	1.0	0																
3 5 5	4.8	8							2	4	2							
3 6 4	1.0	1								1								
3 6 5	5.5	5							2	2	1							
3 7 4	0.5	1								1								
3 7 5	8.5	17							2	11	4							
3 8 4	0.5	3							1	2								
3 8 5	23.0	27						1		10	7	4						
3 9 4	2.5	4								3								
3 9 5	1.0	1								1								
3 10 4	247.0	7								2								
4 1 2	0.5	1								5								
4 1 3	0.5	0								1								
4 2 2	0.8	5							1	4								
4 2 3	5.2	15							2	9	3	1						
4 3 4	1.2	1								1								
4 3 5	0.8	3								1	2							
4 4 4	1.7	0																
4 4 5	2.0	2								2								
4 5 4	1.0	1								1								
4 5 5	2.0	0																
4 6 3	6.0	0																
4 6 4	9.8	4							3		1							
4 6 5	4.0	3						1	2									
4 7 4	4.0	1																
4 8 4	54.0	3								1								
4 10 4	398.0	9								2	1							
5 1 2	1.3	1								9								
5 2 3	1.5	1								3								
5 3 3	1.2	1						1										
5 3 4	1.0	1								1								
5 3 5	1.4	4								2	1	1						
5 4 4	1.6	0																
5 4 5	2.5	6								1	4	1						
5 5 5	5.0	0																
5 6 5	4.5	4								1	1	1	1					
5 7 5	7.0	0																
5 8 5	8.0	0																
5 9 4	55.0	0																
5 9 5	4.0	0																
5 10 4	204.0	6								6								
TOTAL	1408.2	612	0	0	0	4	21	121	386	70	10	0	0	0	0	0	0	0

TABLE B12
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 MISCELLANEOUS MISSION
 DATA SAMPLE

M-N-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
2 1 2	9.7	0						2	2	2							
2 1 3	2.2	1							1								
2 1 4	1.0	1								1							
2 1 5	1.2	1						1									
2 2 2	5.0	3							2	1							
2 2 3	3.0	10							9	1							
2 2 4	30.0	24						1	15	5	4	1					
2 2 5	2.0	4						4									
2 3 1	7.0	C															
2 1 4	9.0	10							0	2							
2 3 1	10.2	27						5	10	3	1						
2 3 4	1.1	5						5	1		1						
3 1 2	2.0	0															
3 1 4	22.2	30					1	19	16		2						
3 1 5	26.2	21					2	4	12	3							
3 1 6	0.5	4						1	1	1			1				
3 1 7	0.2	1									1						
3 2 2	44.0	4						1	3								
3 2 3	32.6	6							5				1				
3 2 4	44.0	35						7	10	7	3						
3 2 5	40.0	10					1	2	6	1							
3 2 6	7.5	1						1									
3 3 2	6.5	0															
3 3 3	12.3	0															
3 3 4	21.5	25						5	17	3							
3 3 5	20.1	15							6	7	2						
3 3 6	7.0	1							1								
3 4 4	10.6	12						3	0	1							
3 4 5	57.7	31						5	21	5							
3 4 6	0.5	0															
3 5 3	3.0	6						2	3	1							
3 6 3	2.5	6						1	5								
4 1 2	0.6	1							1								
4 1 3	0.9	3							3								
4 1 4	C.7	1									1						
4 1 5	0.3	4						4									
4 2 4	0.5	0															
4 2 5	0.5	2							2								
4 3 4	0.3	0															
4 3 5	2.7	11						1	9	1							
4 4 4	2.6	0															
4 4 5	15.0	1							1								
4 4 6	2.0	0															
4 5 3	4.5	0															
4 5 6	2.0	2							1	1	1						
4 6 3	7.0	3							1	1							
4 7 3	22.0	6					3	1	2								
4 7 6	2.5	0															
TOTAL	516.0	344	0	0	0	0	7	74	100	46	16	3	0	0	0	0	0

TABLE B13
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

M-N-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
3 1 2	6.0	1						1									
3 1 3	9.2	5							4	1							
3 1 4	0.5	5							1	3	1						
3 2 4	0.9	5					1		3	1							
3 2 5	0.1	1						1									
3 3 4	2.5	7						2	4	1							
3 3 5	0.5	1							1								
3 4 4	2.4	7							4	3							
3 4 5	1.6	5					1	2	2								
3 5 4	2.0	2						1	1								
3 5 5	1.0	0															
3 6 4	6.6	1						1									
3 6 5	1.9	2						1		1							
3 7 4	5.5	4							3	1	2						
3 7 5	5.5	5							3								
3 8 4	1.0	0															
3 8 5	7.0	7						3		3	1						
3 9 4	3.5	5						2	1								
3 9 5	1.0	0						1	4	1							
3 10 4	27.5	1															
TOTAL	81.0	70	0	0	0	0	2	19	33	16	4	0	0	0	0	0	0

TABLE B14
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 COVER AIR FORCE GAGE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

U-TO-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
2 1 2	18.4	1										1					
2 2 2	13.2	1											1				
2 2 3	9.7	1												1			
2 2 4	1.0	0															
2 3 2	4.3	0															
2 3 3	0.0	1															
2 3 4	9.3	0															
2 3 5	9.3	2															
2 4 2	1.7	0															
2 4 3	10.3	0															
2 4 4	8.9	2															
2 4 5	9.5	0															
2 4 6	1.0	1															
2 5 3	1.0	0															
2 5 4	9.0	17															
2 5 5	9.0	3															
2 6 3	0.5	0															
2 6 4	4.0	4															
2 6 5	93.3	2															
2 7 4	5.0	5															
2 7 5	22.5	0															
2 8 4	2.3	3															
2 8 5	9.0	3															
2 9 4	4.3	0															
2 9 5	14.0	1															
2 10 3	1.0	1															
2 10 4	139.0	1															
3 1 2	76.9	14															
3 1 3	27.2	37															
3 1 4	7.6	4															
3 2 2	173.3	22															
3 2 3	94.2	33															
3 2 4	27.3	19															
3 2 5	1.0	1															
3 3 2	97.2	23															
3 3 3	160.0	57															
3 3 4	131.4	71															
3 3 5	90.3	60															
3 3 6	1.9	4															
3 4 2	4.4	0															
3 4 3	43.3	23															
3 4 4	122.5	64															
3 4 5	145.0	90															
3 4 6	7.7	7															
3 5 3	1.0	0															
3 5 4	29.4	17															
3 5 5	157.9	35															
3 5 6	12.7	9															
3 6 3	0.2	0															
3 6 4	1.2	0															
3 6 5	30.0	29															
3 6 6	230.3	46															
3 6 7	7.7	3															
3 7 4	19.1	1															
3 7 5	204.7	51															
3 7 6	4.5	4															
3 8 4	3.0	4															
3 8 5	325.0	47															
3 8 6	0.5	0															
3 9 4	1900.4	94															
3 9 5	913.7	27															
3 10 4	2904.9	74															
3 10 5	160.2	11															
4 1 2	40.7	29															
4 1 3	24.0	14															
4 1 4	2.9	6															
4 2 2	32.9	3															
4 2 3	44.4	0															
4 2 4	4.5	3															
4 3 2	31.4	1															
4 3 3	86.0	17															
4 3 4	70.1	39															
4 3 5	93.0	60															
4 3 6	9.0	17															
4 4 3	19.9	1															
4 4 4	39.0	14															
4 4 5	91.6	71															
4 4 6	5.9	6															
4 5 3	4.3	6															
4 5 4	29.0	11															
4 5 5	117.0	20															
4 5 6	4.1	2															
4 6 3	5.0	1															
4 6 4	22.0	19															
4 6 5	140.1	14															
4 7 7	0.5	1															
4 7 4	8.0	0															
4 7 5	249.0	33															
4 7 6	1.0	0															
4 8 4	20.7	2															
4 8 5	820.4	59															
4 9 4	6200.4	91															
4 9 5	2310.3	73															
4 10 3	0.7	0															
4 10 4	6040.0	100															
4 10 5	716.9	2															
5 1 2	20.9	11															
5 1 3	21.9	9															
5 1 4	3.4	1															
5 1 5	1.1	2															

TABLE B14 continued
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 SEVEN AIR FORCE BASE
 LOGISTICS, WOODRUM RANGE MISSION
 DATA SAMPLE

U-NO-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
5 2 2	2.3	4							1	3							
5 2 3	20.2	10					2	4	0								
5 2 4	5.0	6						2	3	1							
5 2 5	3.9	6							3	1							
5 3 2	1.0	5							3	1	1						
5 3 3	10.9	11						6	5								
5 3 4	25.4	45						9	34	4	2						
5 3 5	61.0	73			1		1	7	33	11							
5 3 6	10.3	4							3	1							
5 4 3	1.0	0															
5 4 4	3.7	0															
5 4 5	110.3	41					1	7	20	3							
5 4 6	4.0	5							4	1							
5 5 4	1.7	0															
5 5 5	145.2	22							3	16	2	1					
5 5 6	2.0	1								1							
5 6 1	0.5	0															
5 6 4	5.0	0															
5 6 5	195.2	14															
5 6 6	9.3	0															
5 7 4	1.3	0															
5 7 5	303.5	12							3	0	1						
5 7 6	27.0	1								1							
5 8 4	8.7	0															
5 8 5	694.9	31															
5 9 3	1.0	0															
5 9 4	9312.2	59						2	6	20	1	2					
5 9 5	1030.4	54															
5 10 3	10.3	6															
5 10 4	6101.9	113				1	1	4									
5 10 5	57.7	0				1	7	20	73	10	4						
6 1 2	12.3	5								5							
6 1 3	34.4	13							1	12							
6 1 4	2.9	0															
6 1 5	0.7	0															
6 2 2	0.5	0															
6 2 3	20.0	7							1	4							
6 2 4	0.9	5								5							
6 2 5	0.0	3								3							
6 2 6	0.5	1									1						
6 3 2	1.0	1															
6 3 3	14.4	0															
6 3 4	21.1	24															
6 3 5	35.0	77															
6 3 6	11.0	13						4	13	45	11	2					
6 4 4	3.7	2							1	0	2	2					
6 4 5	112.2	43							1	5	30	7	1				
6 4 6	4.0	4								3	1						
6 5 4	2.0	1							1								
6 5 5	190.0	2								2							
6 5 6	3.0	0															
6 6 4	0.5	0															
6 6 5	142.0	3								3							
6 6 6	2.0	0															
6 7 4	4.3	2								2							
6 7 5	107.1	10								1	10						
6 7 6	0.7	3								1	2						
6 8 4	0.0	0															
6 8 5	341.1	12								2	10						
6 8 6	471.0	17								4	11	2					
6 9 5	311.0	21								6	13	2					
6 10 4	740.5	12								4	7	2					
TOTAL	44002.3	2364	0	0	3	7	74	313	1070	242	47	1	0	0	0	0	0

TABLE B15
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 LOGISTICS, LONG RANGE MISSION
 DATA SAMPLE

N-WW-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)													
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 10 3	54.0	0														
3 1 3	2.2	0														
3 2 3	4.5	0														
3 2 4	0.5	0														
3 3 4	2.0	0														
3 4 4	4.0	0														
3 5 J	1.0	0														
3 5 4	1.0	0														
3 5 5	3.0	1														
3 6 5	3.0	0														
3 7 5	2.0	1														
3 8 5	2.0	1														
3 9 4	16.0	0														
3 10 3	174.0	1														
3 10 4	108.0	0														
4 9 4	161.0	0														
4 10 3	49.0	5														
4 10 4	232.0	1														
5 9 4	209.0	0														
5 10 4	250.0	11														
6 1 3	1.6	0														
6 2 4	0.4	0														
6 2 5	0.5	0														
6 3 5	1.0	0														
6 4 5	2.5	0														
6 5 5	5.0	2														
6 6 5	6.0	0														
6 7 5	6.0	2														
6 8 4	2.0	0														
6 8 5	9.0	0														
6 9 4	92.0	17														
6 9 5	1.0	0														
TOTAL	1389.1	42	0	0	0	1	2	7	27	3	2	0	0	0	0	0

TABLE B16 continued
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 COVER AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

U-NO-4 BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.9	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
0 2 4	0.4	0															
0 3 3	1.0	1															
0 3 4	3.0	0															
0 3 5	27.0	42															
0 3 6	0.5	0															
0 4 4	1.5	0															
0 4 5	20.4	1															
0 4 6	0.2	1															
0 5 5	22.0	1															
0 6 6	24.0	0															
0 7 4	20.5	1															
0 8 4	100.0	0															
0 8 4	100.1	11															
0 8 5	170.1	111															
0 8 5	200.0	10															
0 8 5	2.0	0															
TOTAL	0000.0	6123	0	1	17	35	177	763	3750	1041	310	20	2	0	0	0	0

TABLE B17
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 COVER AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

U-NO-4 BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.9	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
3 1 2	10.3	10															
3 1 3	4.2	10															
3 2 2	12.0	5															
3 2 3	32.0	11															
3 2 4	2.5	7															
3 2 5	14.1	7															
3 2 6	9.0	6															
3 2 6	7.0	25															
3 4 3	0.0	1															
3 4 4	1.0	1															
3 4 5	3.7	7															
3 5 3	5.2	0															
3 5 4	12.5	13															
3 5 5	7.6	5															
3 6 3	0.0	1															
3 6 4	37.7	0															
3 6 5	13.0	1															
3 7 4	10.0	4															
3 7 5	0.0	2															
3 8 3	21.0	2															
3 9 4	2.5	0															
3 9 5	12.5	11															
3 10 4	0.0	0															
4 1 2	1.5	2															
4 1 3	1.0	0															
4 2 3	0.0	0															
4 2 4	0.5	0															
4 2 5	1.2	1															
4 3 4	3.1	2															
4 3 5	4.0	3															
4 3 5	0.2	1															
4 4 5	0.0	3															
4 4 5	0.2	0															
4 5 1	4.0	0															
4 5 3	1.5	0															
TOTAL	200.4	144	0	0	0	0	1	25	07	22	9	2	0	0	0	0	0

TABLE B10
 DISTRIBUTION OF MANUEVER LOAD FACTORS
 FOR THE
 TIGER AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

U-28-4 BLOCK	BLOCK TIME (MIN)	TOTAL POINTS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5 0.0 0.5 0.6 0.7 0.8 1.2 1.5 1.6 1.8 2.0 2.5 3.0															
2 1 1	27.7	2																
2 1 2	270.1	461						9	94	330	26	6						
2 1 3	49.7	140						3	33	60	30	0						1
2 1 4	4.7	43						1	2	14	14	9						
2 2 1	20.8	13						1	1	10								
2 2 2	2700.0	2300						9	99	207	1021	100	20					
2 2 3	200.0	1100						9	99	245	600	100	20					1
2 2 4	20.0	140						1	7	30	60	30	10					
2 2 5	1.9	17						1	1	9	9							
2 3 1	21.3	1																
2 3 2	0011.7	0100						2	17	132	1107	2703	990	60				
2 3 3	2000.7	0000						2	20	200	1202	2000	000	175				7
2 3 4	1170.0	0000						9	12	100	400	1775	724	270				1
2 3 5	100.7	000						4	20	25	101	207	100	112				2
2 3 6	0.0	30									9	9	0					2
2 4 1	120.1	103							3	2	41	62	10	6				1
2 4 2	400.3	374							2	12	69	200	50	17				2
2 4 3	072.0	1144							3	0	41	211	973	201	100			11
2 4 4	094.3	1442							10	21	64	207	630	242	100			2
2 4 5	04.7	63							2		1	21	20	0				1
2 4 7	0.0	0																
2 5 1	04.2	15									1	14						
2 5 2	150.0	70									10	92	4	1				
2 5 3	200.2	707							2	4	47	100	202	104	60			2
2 5 4	022.2	000							6	12	44	237	410	143	79			6
2 5 5	00.2	44							1		7	9	22	7				3
2 5 6	20.3	17										15						
2 5 7	200.1	170									1	6	20	3				
2 6 0	1204.0	1200							1	1	14	69	100	600	100	102		19
2 6 1	1440.7	1272							3	29	78	200	600	100	120			21
2 6 6	03.1	20									1	0	10	4	1			3
2 7 2	20.5	5									1	4						
2 7 3	072.3	306									3	5	30	244	43	9		
2 7 4	1100.9	1372									7	9	39	209	211	109		20
2 7 5	1420.2	1157									2	0	27	320	440	193	117	20
2 7 6	00.0	9										1		5				2
2 8 0	1.0	4												2	1			1
2 8 1	101.0	23										4		0	3	2		2
2 8 2	0.0	1												1				
2 8 3	10.0	10										1		0	3			2
2 8 4	20.0	9										1		3	2	1		1
2 8 5	20.0	22										7		9	6			
2 8 6	19.7	19										3		8	5	1		
2 8 7	15.0	7												2				
2 9 1	001.0	700										2	11	60	800	86	6	
2 9 2	102.7	299										5	60	100	33	6		
2 9 3	0.0	12												2				
2 9 4	0.0	12												3				
2 9 5	0.0	12												7				
2 9 6	0.0	12												7				
2 9 7	0.0	12												7				
2 9 8	0.0	12												7				
2 9 9	0.0	12												7				
2 9 10	0.0	12												7				
2 9 11	0.0	12												7				
2 9 12	0.0	12												7				
2 9 13	0.0	12												7				
2 9 14	0.0	12												7				
2 9 15	0.0	12												7				
2 9 16	0.0	12												7				
2 9 17	0.0	12												7				
2 9 18	0.0	12												7				
2 9 19	0.0	12												7				
2 9 20	0.0	12												7				
2 9 21	0.0	12												7				
2 9 22	0.0	12												7				
2 9 23	0.0	12												7				
2 9 24	0.0	12												7				
2 9 25	0.0	12												7				
2 9 26	0.0	12												7				
2 9 27	0.0	12												7				
2 9 28	0.0	12												7				
2 9 29	0.0	12												7				
2 9 30	0.0	12												7				

TABLE B20
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 TINKER AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

M-M-A BLOCK	BLOCK TYPE (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)													
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 2 2	4.9	3						1	1	1						
3 2 3	0.5	0														
3 3 2	14.0	1								1						
3 3 3	36.9	5						1	4							
3 3 4	4.4	1						1								
3 4 3	5.0	0														
3 4 4	23.0	0						1	7							
3 4 5	9.7	10						3	6							
3 5 4	0.0	2							2							
3 5 5	3.9	1							1							
3 6 4	0.5	1							1							
3 6 5	4.0	2						1	1							
3 7 3	4.3	2						1	1							
3 7 4	10.4	7						1	1							
3 7 5	19.9	12						1	4	1	1					
3 7 6	0.5	1						1	0		1					
3 8 4	4.3	0														
3 8 5	2.3	2							2							
3 9 4	0.3	5						1	4							
3 9 5	0.3	2							2							
3 10 4	50.0	12						1	9	2						
4 2 2	1.4	3							3							
4 2 3	0.4	0														
4 3 3	1.3	0														
4 3 4	0.5	0														
4 4 3	4.6	0														
4 4 4	1.9	0														
4 4 5	4.2	0							5	1						
4 5 4	4.0	1						1								
4 5 5	4.5	0														
4 6 5	2.1	0														
4 7 5	0.4	1							1							
TOTAL	290.4	47	0	0	0	0	3	14	43	5	2	0	0	0	0	0

TABLE 221
 DISTRIBUTION OF PAREUVER LOAD FACTORS
 FOR THE
 TRAVIS AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

W-W-A BLOCK	ELCCX TYPE (MIN)	TD PE	LOAD FACTOR DISTRIBUTION (%)														
			-0.3	0.0	0.3	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.3	3.0	
2 1 2	9.0	4						1		3							
2 2 2	26.7	2							1		1						
2 2 3	0.5	0															
2 2 4	3.0	3								3							
2 3 2	47.7	16						1	17								
2 3 3	13.8	6						1	2		2						
2 3 4	15.7	16			1			1	12		3						
2 3 5	2.2	1							1								
2 4 3	2.0	0															
2 4 4	17.8	8						1	3		1						
2 4 5	22.5	2							1		1						
2 5 4	2.9	1									1						
2 5 5	19.6	5							1		1						
2 6 4	1.0	0															
2 6 5	18.6	3							2		1						
2 7 4	4.0	3							1								
2 7 5	19.5	4						1	1		2						
2 8 4	2.0	1									1						
2 8 5	41.1	3						1	1						1		
2 9 4	35.1	11				1	1	3	5					1			
2 9 5	18.5	2						1	1								
2 10 4	83.0	3						2	1								
2 10 5	17.5	0															
3 1 2	194.5	30						4	23		3						
3 1 3	23.5	12						4	7		1						
3 1 4	3.3	4						2	2								
3 2 2	240.9	59						12	45		2						
3 2 3	98.5	23						3	17		3						
3 2 4	31.3	16							12		4						
3 2 5	4.2	4							4								
3 3 2	296.6	44				1		4	36		3						
3 3 3	412.5	113					3	14	86		10						
3 3 4	233.4	134				1	1	7	102		19						
3 3 5	94.6	74					2	4	46		19			2		1	
3 3 6	1.7	3							2					1			
3 4 2	29.0	3							2								
3 4 3	149.5	32					2	8	21					1			
3 4 4	327.4	104						16	66		18			3		1	
3 4 5	326.8	101				1	2	11	68		15			4			
3 4 6	11.7	5							4		1						
3 5 3	29.3	3							2		1						
3 5 4	92.9	35					1	5	21		7			1			
3 5 5	397.2	72					2	11	48		9			1			
3 5 6	4.0	C															
3 6 3	14.1	C															
3 6 4	81.0	22				1	1	2	9		9						
3 6 5	530.5	54						2	7		38			6		1	
3 6 6	C.5	C															
3 7 3	32.5	9							1		7			1			
3 7 4	158.1	28							6		18			3		1	
3 7 5	1055.1	80						1	12		92			10		5	
3 7 6	2.5	C															
3 8 3	66.5	C															
3 8 4	92.6	17							3		11			3			
3 8 5	1791.9	70					1	1	15		40			11		2	
3 9 3	4.0	C															
3 9 4	2764.2	56				2	1	4	13		27			6		2	1
3 9 5	2522.2	38					2		12		13			7		2	2
3 10 3	102.8	24						1	1		22						
3 10 4	6132.8	116				1	4	2	28		59			17		4	1
3 10 5	297.1	0															
4 1 2	142.1	37							2		29			1			
4 1 3	37.9	12							3		9						
4 1 4	1.8	2															
4 1 5	C.3	0							1					1			
4 2 1	1.0	0															
4 2 2	152.7	13							2		10			1			
4 2 3	159.4	74							11		54			6			
4 2 4	30.1	20							2		15			2		1	
4 2 5	4.7	9							1		6			2			
4 3 2	122.3	13							2		3			8			
4 3 3	426.9	122				1			2		21			87		9	2
4 3 4	175.5	110							2		12			77		17	2
4 3 5	89.9	151							1	3	23			96		24	4
4 3 6	3.3	6									4			1		1	
4 4 2	9.3	0															
4 4 3	116.5	20							3		17						
4 4 4	203.7	59							7		45			4		2	
4 4 5	346.1	148							1	3	24			74		30	14
4 4 6	2.7	1									1						
4 5 3	32.4	1									1						
4 5 4	70.3	28							4		15			3		1	1
4 5 5	604.5	94				1	1	1	11		30			5		4	1
4 5 6	12.0	5							1		2			2			
4 6 3	14.2	4							2		1			1			
4 6 4	35.7	10							3		6			1			
4 6 5	611.4	38						1	10		23			2			
4 6 6	3.5	0															
4 7 3	26.0	1									1						
4 7 4	299.0	7									6			1			
4 7 5	1004.0	32					1	1	7		22			1			
4 7 6	3.5	0															
4 8 3	94.0	C															
4 8 4	129.5	1									1						
4 8 5	1630.8	45							8		30			5		2	
4 8 6	0.5	0															
4 9 4	6384.4	61				1		6	16		31			5		2	
4 9 5	6484.3	81					2	8	12		44			9		6	
4 10 3	198.5	0															
4 10 4	24942.2	151				2	5	10	36		82			11		4	1

TABLE B21 concluded
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 TRAVIS AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

M-M-A BLOCK	OLCCR TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0			
4 10 5	576.7	0																	
4 1 2	63.5	26						3	22	1									
5 1 3	98.5	32						1	29	2									
5 1 4	7.0	1							1										
5 1 5	1.2	2							2										
5 2 2	14.2	5						1	3	1									
5 2 3	61.5	41						17	23	1									
5 2 4	12.3	11							11										
5 2 5	8.9	20							16	3	1								
5 3 2	13.9	0																	
5 3 3	111.3	48					1	28	16	3									
5 3 4	66.2	42						8	31	3									
5 3 5	116.1	149					2	4	22	99	18	4							
5 4 1	3.0	13						1	10	1	1								
5 4 3	29.9	5						1	4										
5 4 4	26.7	11						2	5	1	3								
5 4 5	102.1	112					1	4	22	76	7	1	1						
5 4 6	6.7	8							3	3	1	1							
5 5 3	5.5	0																	
5 5 4	8.0	4							2	1									
5 5 5	164.5	94					3	5	8	32	3	3							
5 5 6	105.5	3							1	1									
5 6 3	2.0	0																	
5 6 4	17.2	2							1	1									
5 6 5	494.4	49					1	2	9	29	5	3							
5 7 3	1.0	0																	
5 7 4	187.7	3							1	1	1								
5 7 5	1091.7	14							9	24		1							
5 8 4	79.5	0																	
5 8 5	1992.4	13					1	1	1	4	23	3							
5 9 4	5159.1	50					1	1	4	12	28	2	2						
5 9 5	8447.2	66					1	1	11	13	25	13	3						
5 10 3	131.7	0																	
5 10 4	19911.1	198					3	5	25	49	77	20	9	2					
5 10 5	142.0	0																	
6 1 2	52.1	0							1	7									
6 1 3	93.1	28							7	19	2								
6 1 4	8.9	13							1	9	3								
6 1 5	1.6	4								4									
6 2 2	4.5	0																	
6 2 3	72.0	40							1	12	24	2	1						
6 2 4	27.2	34							1	4	21	8							
6 2 5	19.8	29									22	6	1						
6 2 6	1.0	2									1	1							
6 3 2	1.9	0																	
6 3 3	94.1	13							1	3	7	1	1						
6 3 4	68.8	34							3	3	29	4							
6 3 5	109.4	165							3	15	131	13	3						
6 4 2	1.7	4									3	1							
6 4 3	78.0	0																	
6 4 4	27.2	6							1	5									
6 4 5	352.3	64							9	49	6								
6 4 6	1.0	1								1									
6 5 4	19.7	1								1									
6 5 5	401.2	6							1	1	4								
6 5 6	1.0	0																	
6 6 4	4.5	0																	
6 6 5	490.8	15								3	11	1							
6 7 4	6.5	0																	
6 7 5	519.1	17								1	11	5							
6 8 4	8.5	0																	
6 8 5	987.9	25								3	11	11							
6 9 4	505.4	11									1	8	2						
6 9 5	3363.5	94								2	2	4	15	31	2				
6 10 4	1231.5	3									1	2							
6 10 5	35.0	0																	
TOTAL	114181.6	4392	0	0	17	45	143	761	2795	497	119	12	2	1	0	0			

TABLE B21
 DISTRIBUTION OF MEANWEVER LOAD FACTORS
 PER TIME
 TRAVIS AIR FORCE BASE
 LOGISTICS, LONG RANGE MISSION
 DATA SAMPLE

U-MN-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)													
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 2	2.1	0														
2 2 2	7.9	1														
2 2 3	1.5	0								1						
2 2 4	0.5	1														
2 3 2	1.0	0														
2 3 3	0.5	0														
2 3 4	0.0	3														
2 4 4	3.5	0														
2 4 5	3.5	0														
2 5 4	0.5	0														
2 5 5	9.5	2														
2 6 3	2.0	0							1	1						
2 7 3	2.0	0														
2 8 5	2.0	1														
2 9 4	1.0	0								1						
2 9 5	1.0	0														
2 10 4	1.0	0														
3 1 2	72.5	3							2	1						
3 1 3	2.0	0														
3 2 2	100.0	0														
3 2 3	35.0	10							3	7	1					
3 2 4	13.3	1								0	1					
3 3 2	47.5	2								2						
3 3 3	50.5	20							7	12	1					
3 3 4	46.2	21							1	17	3					
3 3 5	10.4	0														
3 4 2	4.0	0														
3 4 3	23.4	1							1							
3 4 4	87.9	4							1	5						
3 4 5	59.3	1								1						
3 5 2	1.5	0														
3 5 3	5.6	0														
3 5 4	22.5	3								3						
3 5 5	96.1	4							2	1	1					
3 5 6	1.0	1								1						
3 6 2	2.0	0														
3 6 4	9.5	6								5	1					
3 6 5	102.4	2							1							
3 7 3	3.0	0														
3 7 4	9.0	0														
3 7 5	110.6	1								1						
3 8 3	4.2	C														
3 8 4	10.0	0														
3 8 5	91.0	3							1	1	1					
3 9 4	604.5	4							1	3						
3 9 5	333.0	19			1			1	1	10	2					
3 10 4	3770.0	14					2		3	0	1					
4 9 4	841.2	3							3							
4 9 5	474.0	1								1						
4 10 3	23.0	0														
4 10 4	7364.0	20				1	2		9	0	2		1			
5 6 5	0.5	0														
5 7 5	8.5	0														
5 8 5	26.0	0														
5 9 4	1343.0	14							6	4	4					
5 9 5	1500.0	16							7	7	1					
5 10 4	5671.0	67				1	2		21	31	9	2	1			
5 10 5	36.0	1								1						
6 1 2	12.4	5								1	4					
6 1 3	25.3	12								1	11					
6 1 4	1.5	0														
6 1 5	0.1	0														
6 2 3	17.0	6								5	1					
6 2 4	5.5	7									6	1				
6 2 5	1.7	17									12	1	4			
6 3 3	0.9	4								3	1					
6 3 4	10.7	4								1	3					
6 3 5	99.7	44								0	31	5				
6 3 6	0.2	0														
6 4 4	2.2	0														
6 4 5	96.4	46								4	30	3	1			
6 4 6	0.5	0														
6 5 5	107.6	9									9					
6 6 4	1.0	0														
6 6 5	1.0	0														
6 6 6	159.0	5								1	4					
6 7 5	100.2	3								1	2					
6 8 4	1.5	0														
6 8 5	261.4	4									2					
6 9 4	270.3	16									0	2	3			
6 9 5	724.5	20									10	11	5			
6 10 4	674.0	3			1							2				
6 10 5	24.0	0														
TOTAL	29659.4	474	0	0	2	3	12	112	200	47	7	2	0	0	0	0

TABLE B33
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 TRAVIS AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

W-M-A BLOCK	BLOCK TYPE (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 1	1.9	0															
2 1 2	150.1	89						2	9	71	7						
2 1 3	15.3	19							4	13	2						
2 1 4	C.2	0															
2 2 2	239.5	94							4	48	2						
2 2 3	78.5	64						1	12	41	9	1					
2 2 4	2.3	4								4							
2 3 2	97.7	27							1	7	17	2					
2 3 3	162.5	94						2	20	56	13	3					
2 3 4	108.8	58						1	6	36	12	3					
2 3 5	15.1	18								15	3						
2 4 2	1.7	0															
2 4 3	2.1	5							5								
2 4 4	9.2	12						1	2	5	3	1					
2 4 5	2.5	1									1						
2 4 6	0.2	0															
2 5 3	0.5	1							1								
2 5 4	P.1	21							8	9	3	1					
2 5 5	2.8	0															
2 6 3	1.5	4							2	2							
2 6 4	10.4	14							10	2							
2 6 5	3.9	4					2			4							
2 7 3	15.2	6								2	4						
2 7 4	30.3	28						1	3	20	4						
2 7 5	1.7	3							2	1							
3 1 1	4.5	0															
3 1 2	639.4	416							4	67	284	55	6				
3 1 3	144.3	162			1				3	28	105	24	1				
3 1 4	21.6	47							2	9	25	11					
3 1 5	11.3	13								4	8	1					
3 2 2	936.9	234							3	41	163	26	1				
3 2 3	474	474			1	2	12		12	63	322	66	7	1			
3 2 4	59.4	96							2	17	64	13	3				
3 2 5	9.2	20								1	14	4	1				
3 3 2	396.8	134								26	101	5	2				
3 3 3	1254.7	660							12	113	459	69	7				
3 3 4	993.0	721							7	59	508	124	21				
3 3 5	220.1	318			1	2	5		56	175	60	17	1			1	
3 3 6	1.3	1									1						
3 4 2	7.5	1								1							
3 4 3	142.1	58							4	51	3						
3 4 4	475.2	239							5	94	160	32	7				
3 4 5	260.3	229			1	2	9		9	53	126	29	8	1			
3 4 6	3.0	3															
3 5 2	37.4	1								1							
3 5 3	46.2	22								6	12	3					
3 5 4	356.6	426							2	6	35	196	75	77	15		
3 5 5	318.5	261							1	10	35	111	39	52	10	2	1
3 5 6	2.7	10								1	4		1	1		1	2
3 6 2	16.4	0															
3 6 3	125.3	60							1	1	5	4	3	1	1		
3 6 4	501.8	585							1	5	22	91	287	93	63	21	2
3 6 5	298.6	127							1	10	56	152	65	37	7		1
3 6 6	P.6	2									1						
3 7 2	0.3	0															
3 7 3	297.9	145							2	1	14	104	15	6	1		
3 7 4	504.3	375							1	8	42	209	68	40	5		
3 7 5	130.3	89								4	14	51	17	2	1		
3 8 3	1.2	3								1		1					
3 8 4	4.0	1								1							
3 8 5	15.3	2								1	1						
3 9 4	5.6	2								1							
3 9 5	126.8	2								1	1						
3 10 1	21.4	0															
3 10 4	50.0	12								4	6	1	1				
4 1 2	45.5	80								1	3	62	14				
4 1 3	21.5	35								1	10	19	4	1			
4 1 4	2.5	4								1	2	1					
4 1 5	C.2	0															
4 2 2	28.8	9															
4 2 3	43.1	49															
4 2 4	12.0	15								1	1	12	1				
4 2 5	10.5	11															
4 3 2	11.2	3															
4 3 3	75.7	40								1	7	26	7	1			
4 3 4	139.6	69									14	47	6	2			
4 3 5	118.5	160								1	4	3	25	96	23	8	
4 3 6	2.1	11								2		7	2				
4 4 3	10.5	2															
4 4 4	105.3	49									3	40	5	1			
4 4 5	100.8	55								1	5	10	34	3	2		
4 4 6	1.8	4									2	1					
4 5 3	3.0	0															
4 5 4	17.5	6										6					
4 5 5	41.2	14								2		11	1				
4 6 2	13.5	0															
4 6 3	12.0	2										2					
4 6 4	12.0	20									2	7	3	8			
4 6 5	40.2	52								2	4	15	10	13			
4 7 3	5.5	1										1					
4 7 4	9.5	10										10					
4 7 5	33.8	5								3		2					
4 8 5	5.6	0															
4 9 4	1.8	0															
4 9 5	1.6	0															
4 10 4	9.0	0															
TOTAL	10082.2	7370	0	0	9	32	158	1090	436	1066	411	65	9	6	0	0	0

TABLE B24
 DISTRIBUTION OF MANEUVER LOAD FACTORS
 FOR THE
 TRAVIS AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

M-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0	
3 1 2	14.4	4								3	1						
3 1 3	5.4	5						1	2	2							
3 2 2	16.5	10							3	13	2						
3 2 1	26.1	15							1	11	3						
3 2 4	3.2	0															
3 2 5	1.0	0															
3 3 2	10.0	3							1	2							
3 3 3	30.0	15							3	11	1						
3 3 4	5.4	2							1	1							
3 3 5	4.4	5								4			1				
3 4 1	12.0	4							1	3							
3 4 4	10.4	7							1	5	1						
3 4 5	3.7	1									1						
3 5 2	1.0	0															
3 5 3	10.0	0															
3 5 4	10.1	10							3	6	1						
3 5 5	15.3	9							1	0							
3 5 6	1.4	1								1							
3 6 4	5.1	5							1	3	1						
3 6 5	24.4	6							4	1	1						
3 6 6	2.0	0															
3 7 2	2.0	0															
3 7 3	2.2	0															
3 7 4	17.5	25						1	0	12	2		2				
3 7 5	23.9	15							1	13	1						
3 8 4	1.3	1								1							
3 8 5	2.5	2								2							
3 9 4	2.2	2						1	1								
3 9 5	1.0	0															
3 10 3	0.0	2								2							
3 10 4	11.2	6								4	2						
4 1 2	1.9	3									2	1					
4 1 3	0.2	1							1								
4 2 3	1.3	0															
4 2 4	0.3	0															
4 2 5	0.3	0															
4 3 3	0.7	0															
4 3 4	1.0	0															
4 3 5	1.2	4								3	1						
4 4 5	2.7	1								1							
4 5 5	3.2	2								2							
4 6 5	2.4	2								2							
4 7 4	1.0	0															
4 7 5	12.1	7								2	5						
TOTAL	321.7	100	0	0	0	0	0	3	41	110	17	3	0	0	0	0	0

TABLE B28 continued
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, REGIONAL RESERVE
 DATA SAMPLE

WIND-1 BLOCK	GUST TYPE (KPH)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.3	0.0	0.3	0.4	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
0 1 2	10.3	24							9	19	1							
0 1 3	30.3	90						2	31	44	2							
0 1 4	3.3	4							2	2								
0 1 5	2.1	4							2	4								
0 2 2	1.0	0																
0 2 3	25.2	47						1	21	21	4							
0 2 4	6.0	44						1	14	27	3							
0 2 5	5.0	21						1	7	13								
0 3 3	8.0	14							4	10								
0 3 4	33.7	90						4	32	31	6							
0 3 5	51.3	143						6	51	70	14							
0 4 4	9.1	22						2	3	8	7	2						
0 4 5	132.0	214			2	6		0	65	114	15	3	1					
0 4 6	1.5	1								1								
0 5 4	21.7	2								2								
0 5 5	137.0	100					2	12	63	93	13	5						
0 5 6	3.2	0																
0 6 4	4.5	2							1	1								
0 6 5	158.6	131				3	4	44	75	5								
0 6 6	2.0	0																
0 7 4	3.0	0																
0 7 5	148.3	80						2	30	48	2	1						
0 8 4	7.0	0																
0 8 5	197.2	95						3	27	61	1	1						
0 9 4	656.5	111						1	3	13	71	2	1					
0 9 5	324.8	340			1	2	3	14	127	190	25	4	3					
0 10 4	267.5	39							33	26								
TOTAL	36791.5	17127	0	0	12	23	102	551	6167	9255	829	144	40	4	0	0	0	0

TABLE B36
 DISTRIBUTION OF GUST LOAD FACTORS
 PER THE
 CHARLESTON AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

W-M-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 2	7.0	70						7	32	33	6							
2 2 2	40.0	391						10	100	107	9							
2 2 3	0.4	101						0	40	43	0							
2 3 2	15.0	100						9	90	76	0							
2 3 3	12.6	140					1	10	90	60	4	1						
3 1 1	1.2	0							2	4	2							
3 1 2	33.9	222						6	60	124	0							
3 1 3	3.4	21						2	3	14								
3 2 2	60.4	300						20	150	104	9	1						
3 2 3	33.3	190						2	40	86	2	1						
3 2 4	3.0	40						1	10	24	3							
3 3 2	24.5	190						0	71	66	5							
3 3 3	23.9	243						20	102	100	11	3	1					
3 3 4	17.0	104					3	10	70	87	11	2	1					
3 3 5	1.4	32						3	12	15	2							
3 4 3	2.7	5							4	1								
3 4 4	0.2	27						2	16	7	2							
3 4 5	13.0	95				1	3	9	20	37	11	4	2					
3 4 6	1.0	4						1	1		2							
3 5 4	1.0	0																
3 5 5	4.0	11							0	3								
3 6 4	1.0	C																
3 6 5	3.5	4							3	1								
3 7 4	0.3	4							2	2								
3 7 5	0.5	22						1	4	0	9							
3 8 4	0.3	1							1	1								
3 8 5	23.0	72							5	20	27	3	1					
3 9 4	7.5	2							1	1								
3 9 5	1.0	0																
3 10 4	247.0	40							6	20	11	3	2					
4 1 2	C.3	1																
4 1 3	0.3	1								1								
4 2 2	0.0	2								1	1							
4 2 3	5.2	0							1	3	4							
4 3 4	1.2	1										1						
4 3 5	0.0	1								1								
4 4 4	1.2	0																
4 4 5	2.0	0																
4 5 4	1.0	0																
4 5 5	2.0	0																
4 6 3	0.0	0																
4 6 4	0.0	0																
4 6 5	4.0	2							3	5								
4 7 5	4.0	0																
4 9 4	34.0	5								5								
4 10 4	390.0	91								26	63	2						
5 1 2	1.1	10								6	4							
5 2 3	1.5	0								4	4							
5 3 3	1.2	2								2	4							
5 3 4	1.0	5							1	1	3							
5 3 5	1.4	7								3	4							
5 4 4	1.0	0																
5 4 5	2.5	4									4							
5 5 5	3.0	5									4	1						
5 6 4	4.5	10								4	4							
5 7 5	7.0	3									2	1						
5 8 5	0.0	5								2	3							
5 9 4	53.0	473				1	5	44	214	170	27	4						
5 9 5	4.0	15								7	0							
5 10 4	204.0	322						1	130	100	2							
TOTAL	1400.2	3566	0	0	0	2	16	212	1340	1034	197	21	4	0	0	0	0	0

TABLE B27
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 MISCELLANEOUS MISSION
 DATA SAMPLE

U-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 2	9.7	19					1	1	6	9	2							
2 1 3	2.2	1								1								
2 1 4	1.6	7							4	3								
2 1 5	1.7	1								1								
2 2 2	5.0	2							1	2								
2 2 3	8.9	0																
2 2 4	36.0	31							10	20	1							
2 2 5	2.6	0																
2 3 1	7.0	1								1								
2 3 4	9.0	20					1	3	3	15	4							
2 3 5	10.2	44							20	21	2	1						
2 3 6	1.1	6							1	4	1							
3 1 2	2.0	0																
3 1 4	22.2	144							2	37	94	11						
3 1 5	26.2	219							11	64	100	20	5					
3 1 6	0.5	3							2	1	1	1						
3 1 7	0.2	5								2	1	1						
3 2 2	44.0	9								3	3	1				1		
3 2 3	32.6	2								2								
3 2 4	44.0	115							2	41	62	0	1	1				
3 2 5	40.0	95					1	2	27	61	4							
3 2 6	2.5	0																
3 3 2	6.5	0																
3 3 3	12.3	4							1	2								
3 3 4	21.7	60					2		20	30	5	1	1	1				
3 3 5	20.1	23						2	9	9	3							
3 3 6	2.3	0																
3 4 4	10.6	15					1	1	6	2	3	1	1					
3 4 5	52.7	80						5	36	42	3							
3 4 6	0.5	0																
3 5 5	3.0	32					1	1	13	9	5	3						
3 6 5	2.5	0							6	2								
4 1 2	0.6	7						1	1	2	4							
4 1 3	0.9	12					1	3	2	6								
4 1 4	0.7	5						1	2	2	2							
4 1 5	0.3	5							2	3								
4 2 4	0.5	2							2									
4 2 5	0.5	6						1		5								
4 3 4	0.1	0																
4 3 5	2.7	10						2	4	9		1						
4 4 4	2.4	1							1									
4 4 5	15.6	10						1	4	5								
4 4 6	2.0	1								1								
4 5 4	4.5	0																
4 5 6	3.0	3							2	1								
4 6 5	7.0	0																
4 7 5	22.0	6						1	2	3								
4 7 6	2.5	0																
TOTAL	516.0	1090	0	0	0	0	0	42	340	545	76	14	3	2	0	0	0	0

TABLE B28
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 CHARLESTON AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

U-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 1 2	6.0	10							7	10	1							
3 1 3	0.2	49							4	9	34	2						
3 1 4	0.3	3								1	2							
3 2 4	0.9	7								2	3	2						
3 2 5	0.1	0																
3 3 4	2.5	6								1	4							
3 3 5	0.5	1									1							
3 4 4	2.4	9						1	1	1	5		1					
3 4 5	1.4	12							1	7	4							
3 5 4	2.0	73			1	1	4	4	10	15	10	6	3	1				
3 5 5	1.0	2								2								
3 6 4	0.6	20							3	6	0							
3 6 5	1.0	0								2	2							
3 7 4	3.5	7								4	2	1						
3 7 5	3.3	2									2							
3 8 4	1.0	0																
3 8 5	7.0	39					1	2	14	10	4							
3 9 4	3.5	1								1								
3 9 5	1.0	0																
3 10 4	27.5	0																
TOTAL	61.0	262	0	0	1	3	7	15	70	110	20	7	3	1	0	0	0	0

TABLE B19
DISTRIBUTION OF GUST LOAD FACTORS
FOR THE
COVER AIR FORCE BASE
LOGISTICS, MEDIUM RANGE MISSION
DATA SAMPLE

W-10-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.3	0.0	0.3	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 2	10.4	43							17	26								
2 2 2	13.2	0																
2 2 3	3.7	4							4									
2 2 4	1.0	9							4	5								
2 3 2	4.5	1								1								
2 3 3	8.0	1							1									
2 3 4	5.5	3							3									
2 3 5	5.5	2							1	1								
2 4 2	1.7	0																
2 4 3	10.3	3									3							
2 4 4	8.9	10							2	0								
2 4 5	5.5	3							1	2								
2 4 6	1.0	0																
2 5 1	1.0	0																
2 5 4	9.0	54																
2 5 5	3.0	4						1	2	17	32	2						
2 6 3	0.5	1							2	2								
2 6 4	4.8	17								7	10							
2 6 5	33.5	60								19	40	1						
2 7 4	5.0	0								2	5	1						
2 7 5	22.5	46								5	41							
2 8 4	2.5	6								2	4							
2 8 5	9.0	13							1	7	4							
2 9 4	4.3	12							1	5	3							
2 9 5	14.0	9							1	5	3	3						
2 10 3	1.0	2								1	1							
2 10 4	135.0	110								15	92	3						
3 1 2	76.9	205							1	72	130	2						
3 1 3	27.2	153							4	69	70	7						1
3 1 4	7.6	15							1	4	4	4						
3 2 2	173.2	321							2	7	102	202	0					
3 2 3	94.2	167								1	65	89	11					1
3 2 4	27.5	196							2	13	67	89	21					4
3 2 5	1.0	10								1	3	3						
3 3 2	92.2	211								4	79	124	4					
3 3 3	168.0	273								4	101	130	13					1
3 3 4	111.4	367								9	131	202	23					1
3 3 5	55.5	267								17	89	134	22					4
3 3 6	1.9	2								1	1							
3 4 2	4.4	11								5	4							
3 4 3	43.3	104								1	38	61	2					
3 4 4	122.5	262								11	96	144	9					2
3 4 5	145.0	236								7	80	124	10					2
3 4 6	7.7	38								2	10	18	2					2
3 5 3	1.0	0																
3 5 4	29.6	40									18	20	2					
3 5 5	157.9	209								5	67	127	9					1
3 5 6	12.7	52								5	18	23	4					
3 5 7	0.2	0																
3 6 3	1.2	0																
3 6 4	30.8	34																
3 6 5	734.3	402								2	3	19	124	205	42	5		2
3 6 6	7.7	1																
3 7 4	19.1	15									4	11						
3 7 5	294.7	205									5	87	99	13				1
3 7 6	4.5	1																
3 8 4	5.0	1																
3 8 5	323.0	270									1	1	7	93	156	10		1
3 8 6	0.5	1																
3 9 4	1508.4	453																
3 9 5	511.7	324									1	2	19	125	150	14		5
3 10 4	2584.5	1067											2	53	672	1059	75	4
3 10 5	160.2	319											10	25	94	152	29	9
4 1 2	48.7	85																
4 1 3	24.0	113																
4 1 4	2.9	53																
4 2 2	32.9	34																
4 2 3	44.9	68																
4 2 4	4.5	36																
4 3 2	31.4	12																
4 3 3	84.8	74																
4 3 4	70.1	147																
4 3 5	53.6	205																
4 3 6	9.6	52																
4 4 1	15.9	21																
4 4 4	39.6	120																
4 4 5	91.6	150																
4 4 6	5.9	4																
4 5 3	4.5	4																
4 5 4	25.0	34																
4 5 5	117.0	246																
4 5 6	4.1	5																
4 6 1	5.0	1																
4 6 4	22.8	27																
4 6 5	140.1	72																
4 7 2	0.5	0																
4 7 4	8.9	3																
4 7 5	245.9	271																
4 7 6	1.0	43																
4 8 4	20.7	13																
4 8 5	820.4	568																
4 9 4	6208.4	2054																
4 9 5	2310.3	1663																
4 10 3	0.7	0																
4 10 4	9848.0	3567																
4 10 5	216.5	40																
5 1 2	20.0	41																
5 1 3	21.5	39																
5 1 4	2.4	7																
5 1 5	1.1	4																

TABLE B29 continued
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 COVER AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

WIND-A BLOCK	BLOCK TIME (MIN)	TOTAL PAGES	LOAD FACTOR DISTRIBUTION (%)																
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
5 2 2	2.3	13								1	12								
5 2 3	20.2	33							3	10	19								
5 2 4	5.9	40							1	12	24			3					1
5 3 2	3.9	12								4	5			1					2
5 3 3	1.0	6								2	4								
5 3 4	10.9	31							2	6	19			3					1
5 3 5	29.4	70							4	20	34			11					1
5 3 9	61.0	100						2	6	35	103			11					3
5 3 0	10.3	43								15	27			3					
5 4 3	1.0	1								1									
5 4 4	3.7	0																	
5 4 5	110.3	191						3	0	52	110			14		3			1
5 4 6	4.0	7								2	5								
5 5 4	1.7	0																	
5 5 5	145.2	234								11	77			15		3			
5 5 6	2.6	11									5								
5 6 3	0.5	0																	
5 6 4	5.0	1																	
5 6 5	195.2	237									1								
5 6 6	0.5	23						4	20	00	110			21					2
5 7 4	1.5	1									13								
5 7 5	303.5	03						1	1	20	92								
5 7 6	27.0	3									3								
5 8 4	0.7	1									1								
5 8 5	654.9	202							4	97	176			5					
5 9 3	1.0	0																	
5 9 4	5312.2	1400																	
5 9 1	1930.4	722						3	3	40	461			49		6			3
5 10 1	10.5	1						5	10	24	210			46		6			4
5 10 4	6121.9	3005									1								
5 10 5	57.7	15						2	11	05	1402			120		13			2
6 1 2	12.3	30									5			10					
6 1 3	34.4	50									3			35					
6 1 4	2.9	6									10			1					1
6 1 5	0.7	1									1			5					
6 2 2	0.3	0																	
6 2 3	20.0	39								1	13			25					
6 2 4	0.9	30									17			20					
6 2 5	0.0	49								1	14			19					
6 2 6	0.5	20								1	4			3					3
6 3 2	1.0	3									1			2					
6 3 3	14.4	19									0			10					
6 3 4	21.1	05									1			16					
6 3 1	55.0	316									27			00					
6 3 6	11.0	30									2			9					
6 4 4	3.7	12									2			10					
6 4 1	112.2	195									1			79					
6 4 6	4.0	4									1			05					
6 5 4	2.0	2												3					
6 5 5	130.0	104									34			63					
6 5 6	3.0	0												7					
6 6 4	0.5	0																	
6 6 5	142.0	60									19			30					
6 6 6	2.0	0												3					
6 7 4	4.3	1																	
6 7 5	107.1	00									1			1					
6 7 6	0.7	0									1			13					
6 8 4	0.0	13												71					
6 8 5	361.1	79									2			10					
6 9 1	671.6	505									1			18					
6 9 5	317.5	160									11			104					
6 10 4	768.7	402									2			52					
TOTAL	46002.3	27201	0	1	5	24	114	040	9005	15070	1319	104	40	3	0	0	0	0	0

TABLE 230
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 DOVER AIR FORCE BASE
 LOGISTICS, LONG RANGE MISSION
 DATA SAMPLE

M-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 10 3	54.9	0																
3 1 3	2.2	15																
3 2 3	4.5	9																
3 2 4	0.5	0																
3 3 4	2.0	0																
3 4 4	4.0	0																
3 5 3	1.0	0																
3 5 4	1.0	0																
3 5 5	3.0	0																
3 6 5	3.0	0																
3 7 5	2.0	16																
3 8 5	2.0	3																
3 9 4	16.0	10																
3 10 3	174.0	0																
3 10 4	108.0	32																
4 9 4	161.0	17																
4 10 3	49.0	10																
4 10 4	232.0	106																
5 9 4	208.0	4																
5 10 4	238.0	493																
6 1 3	1.6	1																
6 2 4	0.4	0																
6 2 5	0.5	0																
6 3 5	1.0	3																
6 4 5	2.5	0																
6 5 5	3.0	0																
6 6 5	6.0	0																
6 7 5	6.0	6																
6 8 4	2.0	0																
6 8 5	9.0	6																
6 9 4	92.0	177																
6 9 5	1.0	3																
TOTAL	1389.1	939	0	0	0	2	3	41	356	493	47	7	0	0	0	0	0	0

TABLE B01 continued
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 COVER AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

U-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 2 4	0.4	0							2	6								
3 3 3	1.6	0																
3 3 4	1.6	6							1	5								
3 3 5	27.6	59							19	45		1						
3 3 6	3.5	14							4	10								
3 4 4	1.5	0																
3 4 5	23.4	0							7	2								
3 4 6	0.2	0																
3 5 5	23.0	14							5	0		1						
3 6 5	24.0	14							3	9		1	1					
3 7 1	29.3	70							34	33		3						
3 8 4	139.3	140							1	73		2						
3 8 4	108.9	97							1	33		35						
3 8 5	978.5	773			2	3		27	305	309		41	7	1				
3 10 4	509.4	43						2	26	64		1						
3 10 5	3.0	0																
TOTAL	9959.5	22995	0	0	57	134	402	1241	7512	10160	2177	602	263	35	4	0	0	0

TABLE B32
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 COVER AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

U-W-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 1 2	10.3	20							11	16		1						
3 1 3	4.2	19							5	14								
3 2 2	12.0	15							5	10								
3 2 3	33.0	33							10	23								
3 2 4	2.3	0							3	6								
3 3 3	14.1	10							0	0		2						
3 3 4	9.9	13					1		1	10			1					
3 3 5	2.0	15						1	0	2		3	1					
3 4 3	6.0	15						2	7	6								
3 4 4	1.0	1								1								
3 4 5	3.7	54					1	4	22	20		5	2					
3 5 3	9.2	1								1								
3 5 4	12.8	4							1	1		2						
3 5 5	7.4	3								1		4						
3 6 3	0.0	0																
3 6 4	37.7	3									2		1					
3 6 5	13.0	1									1							
3 7 4	19.0	1									1							
3 7 5	0.0	2									2							
3 8 3	21.0	34								11	23							
3 8 4	2.3	13								3	9		1					
3 8 5	12.3	23							1	6	10							
3 10 4	3.0	53								24	20		1					
4 1 2	1.5	3								1	2							
4 1 3	1.0	2									2							
4 2 3	0.9	1									1							
4 2 4	0.3	0																
4 3 3	1.2	0																
4 3 4	3.1	2							1		1							
4 3 5	4.0	0								1								
4 3 6	0.2	0																
4 4 5	3.0	0							1	4	3							
4 4 6	0.3	0																
4 5 5	4.0	0																
4 6 5	1.5	0																
TOTAL	265.4	306	0	0	0	0	2	11	122	231	13	5	0	0	0	0	0	0

TABLE 203
DISTRIBUTION OF GUST LOAD FACTORS
FOR THE
TIMBER AIR FORCE BASE
LOGISTICS, ROTUNDA GARDEN REGION
DATA SAMPLE

M-NN-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																	
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.5	3.0
2 1 2	1.3	0																		
2 2 2	4.5	0																		
2 2 3	1.0	0																		
2 3 2	20.0	10																		
2 3 3	23.0	20																		
2 3 4	2.4	3																		
2 3 9	1.4	1																		
2 4 4	0.2	7																		
2 4 5	3.4	0																		
2 5 4	2.9	3																		
2 5 9	10.2	3																		
2 6 4	3.5	14																		
2 6 5	13.3	14																		
2 6 6	0.3	0																		
2 7 4	2.0	12																		
2 7 5	12.2	37																		
2 7 6	0.3	0																		
2 8 5	64.3	97																		
2 9 4	3.0	0																		
2 9 5	1.0	0																		
2 10 4	41.0	4																		
3 1 2	17.0	23																		
3 1 3	0.3	0																		
3 2 2	33.0	67																		
3 2 3	7.4	11																		
3 2 4	1.0	0																		
3 3 2	49.5	87																		
3 3 3	61.5	163																		
3 3 4	40.0	70																		
3 3 5	7.1	14																		
3 4 2	4.7	20																		
3 4 3	2.4	4																		
3 4 4	27.0	26																		
3 4 5	32.0	23																		
3 5 4	0.3	0																		
3 5 5	54.7	50																		
3 6 3	2	0																		
3 6 5	36.2	1																		
3 6 6	7.0	1																		
3 7 3	201.1	96																		
3 7 6	2.3	0																		
3 8 3	203.0	194																		
3 9 4	159.7	100																		
3 9 5	931.2	490																		
3 10 4	432.2	45																		
4 1 2	0.1	16																		
4 1 3	2.0	12																		
4 1 4	0.0	7																		
4 1 5	0.1	0																		
4 2 2	17.1	23																		
4 2 3	4.7	12																		
4 2 5	1.3	3																		
4 3 2	0.9	19																		
4 3 3	27.4	35																		
4 3 4	20.0	34																		
4 3 5	0.0	0																		
4 4 3	0.0	1																		
4 4 4	11.0	22																		
4 4 8	30.7	45																		
4 5 4	4.3	5																		
4 5 5	45.3	23																		
4 6 4	1.0	0																		
4 6 8	64.1	14																		
4 7 4	3.5	1																		
4 7 5	240.7	110																		
4 8 4	0.5	0																		
4 8 5	147.3	17																		
4 9 4	447.3	323																		
4 9 5	349.2	334																		
4 10 4	290.0	94																		
5 1 3	0.0	4																		
5 2 2	0.5	0																		
5 2 3	0.4	2																		
5 3 3	0.0	2																		
5 3 4	0.4	6																		
5 3 5	0.3	3																		
5 4 1	4.7	1																		
5 5 5	4.5	0																		
5 6 5	3.5	0																		
5 7 5	7.5	0																		
5 8 5	0.0	2																		
5 9 4	173.0	361																		
5 9 5	110.0	93																		
5 10 4	377.0	190																		
6 1 2	1.0	0																		
6 1 3	2.0	4																		
6 2 3	7.0	1																		
6 2 4	0.2	1																		
6 3 3	0.4	0																		
6 3 4	2.1	0																		
6 3 5	4.1	2																		
6 4 6	0.3	0																		
6 4 8	1.3	0																		
6 5 3	3.3	0																		
6 6 3	4.0	0																		
6 6 5	4.0	0																		
6 7 5	0.5	0																		
6 8 5	7.7	4																		
6 9 4	23.3	4																		
6 9 5	104.0	12																		
TOTAL	4064.5	2007	0	0	0	1	0	60	1340	2091	124	17	1	0	0	0	0	0	0	0

TABLE B34
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TINKER AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

W-WH-D BLOCK	BLCKC TYPE (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)															
			-0.9	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 1	27.7	5																
2 1 2	396.1	1487																
2 1 3	49.7	501																
2 1 4	4.7	73																
2 2 1	83.5	49																
2 2 2	2791.0	9032																
2 2 3	594.0	3434																
2 2 4	28.5	380																
2 2 5	1.9	21																
2 3 1	21.3	14																
2 3 2	6811.7	20790																
2 3 3	3624.7	18586																
2 3 4	1176.4	9867																
2 3 5	192.7	1785																
2 3 6	8.0	55																
2 4 2	126.1	543																
2 4 3	405.3	1030																
2 4 4	672.4	2981																
2 4 5	834.3	3888																
2 4 6	64.7	273																
2 4 7	C.5	0																
2 5 2	54.2	4																
2 5 3	130.5	78																
2 5 4	985.2	1225																
2 5 5	822.1	1863																
2 5 6	65.2	137																
2 6 2	24.3	11																
2 6 3	309.1	183																
2 6 4	1154.8	1546																
2 6 5	1440.7	3079																
2 6 6	43.1	80																
2 7 2	28.5	3																
2 7 3	472.3	323																
2 7 4	1135.9	1722																
2 7 5	1426.2	3659																
2 7 6	56.8	45																
2 8 4	1.5	0																
2 8 5	143.9	133																
2 9 3	5.5	6																
2 9 4	18.9	39																
2 9 5	23.6	138																
2 10 3	28.5	27																
2 10 4	13.7	47																
3 1 1	15.5	7																
3 1 2	851.3	3123																
3 1 3	142.7	1061																
3 1 4	2.3	24																
3 2 1	37.8	42																
3 2 2	4714.7	15290																
3 2 3	1828.2	8620																
3 2 4	33.4	647																
3 2 5	3.1	74																
3 3 1	6.2	12																
3 3 2	8637.3	24469																
3 3 3	10158.9	37831																
3 3 4	2773.0	17814																
3 3 5	398.7	3668																
3 3 6	5.2	56																
3 4 2	209.6	593																
3 4 3	720.2	2082																
3 4 4	1128.2	4998																
3 4 5	1314.1	4562																
3 4 6	48.4	141																
3 4 7	0.4	0																
3 5 2	160.1	27																
3 5 3	521.0	116																
3 5 4	1224.5	2040																
3 5 5	1555.1	2814																
3 5 6	42.4	72																
3 5 7	0.4	3																
3 6 2	132.8	15																
3 6 3	1087.5	297																
3 6 4	3208.8	3944																
3 6 5	2693.8	3930																
3 6 6	0.7	161																
3 7 2	290.4	14																
3 7 3	2239.7	771																
3 7 4	6079.7	4419																
3 7 5	4348.3	3322																
3 7 6	113.1	178																
3 8 2	C.1	0																
3 8 3	70.0	24																
3 8 4	74.1	146																
3 8 5	378.2	691																
3 8 6	0.3	1																
3 9 2	1.0	0																
3 9 3	364.1	161																
3 9 4	101.7	473																
3 9 5	113.2	213																
3 10 3	305.1	21																
3 10 4	406.8	612																
3 10 5	67.7	42																
4 1 1	1.1	1																
4 1 2	256.6	1270																
4 1 3	65.3	607																
4 1 4	0.2	0																
4 2 1	1.7	1																
4 2 2	746.0	3625																
4 2 3	956.0	9916																
4 2 4	29.9	301																

TABLE B34 (continued)
 DISTRIBUTION OF BUSY LOAD FACTORS
 FOR THE
 TUNSON AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

W-M-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.9 0.0	0.9	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	2.0	2.5	3.0
4 2 5	0.9	0							1	2	2	1						
4 3 1	0.3	0																
4 3 2	1910.0	6206			1	0	143	2320	3370	224	11	1						
4 3 3	9104.2	22329			4	70	799	8376	11934	1439	100	3						
4 3 4	1924.6	7211			10	92	420	2324	3202	771	128	74						
4 3 5	163.9	842			2	6	6	51	262	369	110	29	7					
4 3 6	2.9	24					1	2	10	6	5							
4 4 2	61.6	241						6	101	124	0	2						
4 4 3	986.2	3953					2	19	137	1475	2030	265	27	2				
4 4 4	595.2	2612					3	39	176	897	1096	329	64	12				
4 4 5	737.4	1896			1	7	21	96	676	800	170	25	11					
4 4 6	16.8	27						1	13	10								
4 4 7	15.7	1							1									
4 4 8	171.1	25							11	14								
4 4 9	790.9	274						10	66	116	12							
4 4 5	742.1	1292			1	3	5	62	320	619	60	10	3	1				
4 4 6	13.3	7							7	3								
4 4 2	6.6	0																
4 4 4	191.3	16							9	9								
4 4 4	698.7	476			1		1	23	208	219	24	3	1					
4 4 5	1110.9	1299				1	5	48	530	666	64	3	1					
4 4 6	17.2	24						1	12	10								
4 4 7	23.0	0																
4 4 7	402.6	51							25	25	1							
4 4 4	1246.2	627					1	1	3	17	233	337	27	7	2			
4 4 5	1674.7	2243			1	1	10	73	914	1101	123	17	2	1				
4 4 7	22.7	60						6	24	26	2							
4 4 7	0.3	0																
4 4 8	3.1	1							1									
4 4 8	0.9	0							3	5								
4 4 5	168.1	160						1	73	42	2							
4 4 6	3.0	3							1	2								
4 4 3	36.0	17							3	12	2							
4 4 4	36.5	242					1	1	19	94	100	21	6					
4 4 5	25.8	36						2	14	17	1	7						
4 10 3	3.8	0																
4 10 4	41.2	12							1	10	1							
4 10 5	19.4	6								6								
5 1 2	36.6	178						3	47	122	6							
5 1 3	12.9	66							24	30	7							
5 1 2	0.9	0																
5 2 2	124.8	434						4	123	204	23							
5 2 3	164.2	791					1	19	290	443	37	1						
5 2 4	6.9	23							3	14	4							
5 2 5	0.5	0																
5 3 1	0.4	0																
5 3 2	115.7	315						6	110	160	11							
5 3 3	795.7	2110						4	71	790	1133	99	3					
5 3 4	244.9	749					1	4	41	280	344	69	9	1				
5 3 5	79.4	290					1	1	6	13	96	129	17	5	2			
5 3 6	0.5	3																
5 4 2	3.0	6							1	5								
5 4 3	81.5	206						0	101	160	15	1	1					
5 4 4	136.9	194						2	13	64	97	15	1					
5 4 5	312.2	454					1	1	9	178	234	43	5	2	1			
5 4 6	4.7	18							2	3	10	3						
5 4 2	0.6	1																
5 4 2	48.9	14								5	3							
5 4 4	127.7	113					1		6	32	42	9	3	1				
5 4 5	392.3	404							22	170	194	16	2	1				
5 4 6	5.4	10								3								
5 4 2	4.4	0																
5 4 3	116.6	6							1	2	3							
5 4 4	938.0	232							6	111	122	12	1					
5 4 5	694.7	486							0	207	244	20	5					
5 4 6	5.4	22						2	0	12	10							
5 7 2	13.0	0																
5 7 1	307.3	45							1	14	36							
5 7 4	1194.1	309							0	197	210	7	1					
5 7 9	1949.0	1000						4	30	403	578	50	5	2				
5 7 6	26.2	90								13	34	1						
5 8 3	34.3	7							1	3	2	1						
5 8 4	29.7	7							2	12	23	2						
5 8 5	101.3	30																
5 9 3	46.5	10																
5 9 4	36.2	10								10	0							
5 9 5	61.0	24					1	1	10	12								
5 10 3	12.0	1																
5 10 4	73.7	16								11	3							
TOTAL	111714.7	311266	0	0	173	337	1740	12736	117951	149732	21194	1000	703	63	6	1	0	0

TABLE B35
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TINKER AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

M-W-A BLOCK	BLOCK TYPE (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)														
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
3 2 2	4.9	24							0	15	1						
3 2 3	0.5	5							3	2							
3 3 2	14.0	43						1	14	20							
3 3 3	36.0	107						4	40	54	0	1					
3 3 4	4.4	0															
3 4 3	5.0	0															
3 4 4	23.0	7							2	5							
3 4 5	0.7	19					1	2	3	7							
3 5 4	0.8	2								2							
3 5 5	3.0	0															
3 6 4	0.5	0															
3 6 5	4.0	1								1							
3 7 3	0.3	0															
3 7 4	10.0	1								1							
3 7 5	19.9	0															
3 7 6	0.1	0								3	4	1					
3 8 4	4.3	0															
3 8 5	2.3	0															
3 9 4	0.3	0															
3 9 5	0.3	1									1						
3 10 4	50.0	22								12	10						
4 2 2	1.4	5								2	3						
4 2 3	0.4	1									1						
4 3 3	1.5	0															
4 3 4	0.5	0															
4 4 3	4.6	0															
4 4 4	1.9	0															
4 4 5	4.2	0							1	1	4						
4 5 4	4.0	7								1	5	1					
4 5 5	4.5	0															
4 6 5	2.1	0															
4 7 5	0.4	0															
TOTAL	290.4	253	0	0	0	0	1	0	09	143	11	1	0	0	0	0	0

TABLE B34 continued
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TRAVIS AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

W-W-A BLOCK	BLOCK TYPE (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
4 10 8	376.7	47							23	24								
5 1 2	63.5	114						1	26	84		3						
5 1 3	90.5	127							37	89		4						
5 1 4	2.8	12								11		1						
5 1 5	1.2	3							1	2								
5 2 2	14.2	24							8	15		1						
5 2 3	61.5	99							2	39		3						
5 2 4	12.3	55							18	34		3						
5 2 5	6.9	24							6	17		1						
5 3 2	13.9	9							2	7								
5 3 3	111.5	89							5	33		42		7	1			
5 3 4	66.2	218							3	86		112		14	3			
5 3 5	116.1	343							4	20		116		169	24	8	2	
5 3 6	3.6	12								3		9						
5 4 3	25.9	3								2		1						
5 4 4	36.7	23								10		15						
5 4 5	302.1	275								16		85		140	25	3	3	
5 4 6	6.2	22								1		7		10	1	2	1	
5 5 3	5.5	0																
5 5 4	8.0	3																
5 5 5	464.5	151																
5 5 6	105.5	12																
5 6 3	2.0	0																
5 6 4	12.2	8																
5 6 5	496.4	227																
5 7 3	1.0	0																
5 7 4	387.7	85																
5 7 5	1091.2	219																
5 8 4	24.5	3																
5 8 5	1493.4	771																
5 9 4	5159.1	1833																
5 9 5	8452.2	2355																
5 10 3	131.7	2																
5 10 4	19911.1	3225																
5 10 5	342.0	42																
6 1 2	52.1	62																
6 1 3	93.1	139																
6 1 4	8.9	25																
6 1 5	1.6	15																
6 2 2	4.5	13																
6 2 3	72.0	93																
6 2 4	27.2	79																
6 2 5	14.0	84																
6 2 6	1.0	0																
6 3 2	3.9	0																
6 3 3	94.0	89																
6 3 4	68.8	137																
6 3 5	189.4	490																
6 3 6	1.7	3																
6 4 2	0.5	0																
6 4 3	28.0	21																
6 4 4	27.2	12																
6 4 5	352.3	248																
6 4 6	1.0	0																
6 5 4	19.2	0																
6 5 5	401.2	37																
6 5 6	1.0	0																
6 6 4	5.5	0																
6 6 5	450.8	41																
6 7 4	6.5	0																
6 7 5	519.1	173																
6 8 4	8.5	0																
6 8 5	987.9	346																
6 9 4	593.4	162																
6 9 5	3963.5	1511																
6 10 4	1231.5	219																
6 10 5	39.0	1																
TOTAL	114181.6	41569	0	0	33	59	195	1263	15088	22507	2017	305	85	13	4	0	0	0

TABLE B37
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TRAVIS AIR FORCE BASE
 LOGISTICS, LONG RANGE MISSION
 DATA SAMPLE

U-M-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.5	3.0
2 1 2	2.1	1							1									
2 2 2	7.5	1							1									
2 2 3	1.5	0																
2 2 4	0.5	2							2									
2 3 2	1.0	0																
2 3 3	0.5	0																
2 3 4	0.0	10							6	4								
2 4 4	3.5	0																
2 4 5	3.5	0																
2 5 4	0.5	0																
2 5 5	0.5	0																
2 6 5	2.0	5								2	6	1						
2 7 5	2.0	0								3								
2 8 5	2.0	2																
2 9 4	1.0	1								1								
2 9 5	1.0	0																
2 10 4	1.0	0																
3 1 2	73.5	03							1	30	42	2						
3 1 3	2.1	0																
3 2 2	100.0	40								23	22	1						
3 2 3	35.0	12								6	6							
3 2 4	13.3	13								5	8							
3 3 2	47.5	10								4	13							
3 3 3	50.5	97							1	24	31	1						
3 3 4	40.2	67							2	25	34	5						
3 3 5	10.4	20								10	17	1						
3 4 2	4.8	0																
3 4 3	23.4	6								3	3							
3 4 4	07.9	71							1	34	34	2						
3 4 5	50.3	30							1	10	17	1	1					
3 5 2	1.5	1									1							
3 5 3	5.6	3									2	1						
3 5 4	22.5	1									1							
3 5 5	90.1	57				1		1	1	10	33	3						
3 6 2	1.0	0																
3 6 3	0.2	0																
3 6 4	0.5	0																
3 6 5	102.4	10								1	7							
3 7 3	3.0	0								6	0	3	1					
3 7 4	0.0	3																
3 7 5	110.4	20								2	1							
3 8 3	4.2	0								0	11							
3 8 4	10.4	1																
3 8 5	91.0	23																
3 9 4	604.5	40								1	0	13	2					
3 9 5	353.0	40								1	19	26						
3 10 4	3770.0	602				1	1	10	250	314	20							
4 9 4	041.2	235						4	100	110	3							
4 9 5	474.0	40								23	17							
4 10 3	23.0	1									1							
4 10 4	7300.0	1195				1	7	11	305	711	10			1				
5 6 5	0.5	0																
5 7 5	0.5	0																
5 8 5	20.0	1									1							
5 9 4	1345.0	274				1		9	93	154	12	1	4					
5 9 5	1500.0	124						3	40	70	3	1	1					
5 10 4	9471.0	1100				1	2	1	26	406	619	41	3	1				
5 10 5	36.0	0																
6 1 7	12.4	20								6	20							
6 1 3	25.3	04							1	23	34	2						
6 1 4	1.5	11								4	7							
6 1 5	0.1	3								2	1							
6 2 3	17.0	20								0	19							
6 2 4	5.0	17							4	0	11	2						
6 2 5	3.7	10							2	6	6	7						
6 3 3	0.0	0							1	4	4							
6 3 4	10.7	36								10	17	1						
6 3 5	50.7	147				4		7	57	71	7	1						
6 4 4	0.2	0																
6 4 5	2.2	0																
6 5 3	00.4	100						1	7	54	01	20	3	1				
6 5 4	0.5	0																
6 5 5	107.0	32							1	10	21							
6 6 6	1.0	0																
6 6 4	1.0	0																
6 6 5	100.0	00						1	1	30	50	0						
6 7 5	100.2	40								9	30	1						
6 8 4	1.5	0																
6 8 5	201.4	120							2	49	74	3						
6 9 4	270.3	305							0	140	200	16						
6 9 5	724.5	401				1	2	22	150	250	27	2						
6 10 4	074.0	41								22	10	1						
6 10 5	25.0	0								4	2							
TOTAL	20055.4	9000	0	0	2	0	10	131	2320	2000	216	14	0	0	0	0	0	0

TABLE 205
 DISTRIBUTION OF LEAD FACTORS
 FROM
 TRUCK AND TRAILER LOADS
 WITHIN STUDY AREA
 DATE 3/25/60

D-C-R BLOCK	SLASH TIME FROM	TOTAL PAGES	LEAD FACTOR DISTRIBUTION (%)																	
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.5	3.0
1	1.0	0																		
1	1.1	313																		
1	1.2	74							3	100	174	10								
1	1.3	0							2	50	37	2								
1	1.4	507																		
1	1.5	150						1	2	100	100	12	1							
1	1.6	11							4	65	60	4								
1	1.7	64																		
1	1.8	120						1	2	27	27	3								
1	1.9	75						1	2	50	50	10	1							
1	2.0	50						1	2	0	20	0								
1	2.1	5																		
1	2.2	10																		
1	2.3	0																		
1	2.4	0																		
1	2.5	1							1	1	0	1								
1	2.6	20																		
1	2.7	20							2	15	0	2	1							
1	2.8	12																		
1	2.9	0																		
1	3.0	0																		
1	3.1	0																		
1	3.2	0																		
1	3.3	0																		
1	3.4	0																		
1	3.5	0																		
1	3.6	0																		
1	3.7	0																		
1	3.8	0																		
1	3.9	0																		
1	4.0	1270																		
1	4.1	300							0	15	100	74	1							
1	4.2	300							2	21	124	221	54	1						
1	4.3	200							3	21	124	141	18	1						
1	4.4	200							2	21	124	141	18	1						
1	4.5	170																		
1	4.6	274							2	21	124	141	18	1						
1	4.7	1000							2	21	124	141	18	1						
1	4.8	324																		
1	4.9	20																		
1	5.0	0																		
1	5.1	0																		
1	5.2	0																		
1	5.3	0																		
1	5.4	0																		
1	5.5	0																		
1	5.6	0																		
1	5.7	0																		
1	5.8	0																		
1	5.9	0																		
1	6.0	0																		
1	6.1	0																		
1	6.2	0																		
1	6.3	0																		
1	6.4	0																		
1	6.5	0																		
1	6.6	0																		
1	6.7	0																		
1	6.8	0																		
1	6.9	0																		
1	7.0	0																		
1	7.1	0																		
1	7.2	0																		
1	7.3	0																		
1	7.4	0																		
1	7.5	0																		
1	7.6	0																		
1	7.7	0																		
1	7.8	0																		
1	7.9	0																		
1	8.0	0																		
1	8.1	0																		
1	8.2	0																		
1	8.3	0																		
1	8.4	0																		
1	8.5	0																		
1	8.6	0																		
1	8.7	0																		
1	8.8	0																		
1	8.9	0																		
1	9.0	0																		
TOTAL	10002.2	11040	0	0	2	5	40	270	0700	2074	606	72	22	0	0	0	0	0	0	0

TABLE 219
 DISTRIBUTION OF GUST LOAD FACTORS
 FOR THE
 TRAVIS AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

U-NO-A BLOCK	BLOCK TIME (MIN)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)															
			-0.5	0.0	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.5	1.8	2.0	2.5	3.0
3 1 2	14.4	96						4	33	50	1							
3 1 3	9.4	29							0	16								
3 2 2	16.5	76						1	32	40	3							
3 2 3	20.1	103						3	34	42	4							
3 2 4	3.2	5							1	4								
3 2 5	1.0	0																
3 3 2	10.0	17							0	0	2							
3 3 3	30.0	97						1	30	33	4	1						
3 3 4	5.4	4							2	2								
3 3 5	4.4	1								1								
3 4 3	12.0	13							0	7								
3 4 4	10.4	6							3	3								
3 4 5	3.7	1								1								
3 5 2	1.0	0																
3 5 3	10.0	0																
3 5 4	10.1	2							1	1								
3 5 5	19.3	14							7	7								
3 6 4	1.4	1								1								
3 6 5	5.3	2								1								
3 6 6	24.4	4								2	2							
3 6 7	7.0	0																
3 7 2	0.0	0																
3 7 3	7.2	3						1	1	1								
3 7 4	17.5	26						1	11	10	4							
3 7 5	25.0	6				1			4	1								
3 8 4	1.3	0																
3 8 5	7.5	2							1	1								
3 9 4	2.2	3						1	2	2								
3 9 5	1.0	0																
3 9 6	0.0	0																
3 10 4	11.2	33							1	20	0							
4 1 2	1.0	4								0								
4 1 3	0.2	1								1								
4 2 3	1.3	0																
4 2 4	0.3	3								1	1	1						
4 2 5	0.3	2								1	1							
4 3 3	0.7	0																
4 3 4	1.0	0																
4 3 5	1.2	3									3							
4 4 5	2.7	0																
4 4 6	2.2	4								0								
4 6 1	2.4	2								1	1							
4 7 4	1.0	0																
4 7 5	12.1	3								2	1							
TOTAL	321.7	990	0	0	0	0	1	12	204	315	29	1	0	0	0	0	0	0

TABLE 240
 DISTRIBUTION OF OBSERVED VERTICAL GUST VELOCITY
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

U-100-A BLOCK	NAUTICAL PILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																
			-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	0	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30
2 1 2	7.5	43																	
2 2 2	9.2	31																	
2 2 3	6.0	14																	
2 2 4	9.9	20																	
2 3 4	6.9	1																	
2 3 5	2.3	0																	
2 4 4	10.4	0																	
2 4 5	20.4	0																	
2 5 5	20.4	0																	
2 6 5	16.0	0																	
2 7 5	20.5	0																	
2 8 4	6.0	0																	
2 8 5	13.3	0																	
2 9 4	129.4	0																	
3 1 2	216.0	191																	
3 1 3	116.4	65																	
3 1 4	49.7	60																	
3 2 2	274.7	320																	
3 2 3	159.3	120																	
3 2 4	110.1	132																	
3 2 5	0.3	0																	
3 3 2	71.7	40																	
3 3 3	169.7	67																	
3 3 4	200.0	207																	
3 3 5	70.4	12																	
3 4 3	90.0	40																	
3 4 4	317.0	136																	
3 4 5	270.0	97																	
3 5 4	5.0	0																	
3 5 5	126.4	50																	
3 5 6	494.2	94																	
3 5 6	10.4	0																	
3 6 3	4.1	0																	
3 6 4	141.0	16																	
3 6 5	1603.3	37																	
3 6 6	30.2	3																	
3 7 3	2.2	0																	
3 7 4	135.0	6																	
3 7 5	700.1	101																	
3 8 4	117.1	9																	
3 8 5	1463.3	46																	
3 9 3	10.0	0																	
3 9 4	0154.4	129																	
3 9 5	2750.4	14																	
3 10 3	9.0	0																	
3 10 4	11121.1	400																	
4 1 2	53.7	40																	
4 1 3	7.1	4																	
4 1 4	0.7	0																	
4 2 2	101.7	73																	
4 2 3	101.7	110																	
4 2 4	20.1	7																	
4 2 5	3.1	0																	
4 3 2	20.0	2																	
4 3 3	143.0	64																	
4 3 4	100.3	70																	
4 3 5	64.1	0																	
4 4 3	0.0	3																	
4 4 4	103.0	67																	
4 4 5	200.0	14																	
4 5 4	60.0	0																	
4 5 5	130.0	23																	
4 6 4	41.0	0																	
4 6 5	2730.5	23																	
4 7 4	71.0	14																	
4 7 5	1407.0	10																	
4 8 4	17.1	10																	
4 8 5	1770.0	126																	
4 9 4	4705.0	300																	
4 9 5	8027.0	27																	
4 10 4	49200.4	224																	
4 10 5	23.1	0																	
5 1 2	49.3	42																	
5 1 3	30.0	14																	
5 1 4	0.0	1																	
5 2 2	3.0	0																	
5 2 3	70.0	11																	
5 2 4	16.0	11																	
5 2 5	0.1	1																	
5 3 3	47.0	3																	
5 3 4	90.0	70																	
5 3 5	170.0	66																	
5 4 4	7.7	0																	
5 4 5	12.7	3																	
5 5 5	940.1	00																	
5 6 4	10.1	0																	
5 6 5	2.4	0																	
5 7 5	040.1	00																	
5 8 5	1400.3	94																	
5 9 5	0.0	0																	
5 9 6	2317.0	12																	
5 9 6	0.0	0																	
5 9 6	0.0	0																	
5 9 6	0.0	0																	
5 9 6	0210.0	100																	
5 9 6	00310.0	037																	
5 9 6	11097.0	110																	
5 10 3	14.0	0																	
5 10 4	20037.0	507																	
5 10 5	22.0	0																	

TABLE 240 continued
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 CHARLESTON AIR FORCE BASE
 LOGISTICS, MEDICAL RANGE MISSION
 DATA SAMPLE

U-NO-A BLOCK	ADULTICAL FILES	TOTAL PEAKS	WIND DIRECTION (FT./SEC.)																			
			-25	-20	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	0	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
0 1 2	46.8	41																				
0 1 3	90.8	129				1	1	9	12	21	10	23	21	10	5	2	1					
0 1 4	11.7	11								1	5	5										
0 1 5	7.1	6									2	3	1									
0 2 2	2.4	0																				
0 2 3	74.1	72				1			2	7	11	12	15	15	5		4					
0 2 4	29.3	53							3	3	3	14	10	11	2	1	1					
0 2 5	23.0	19							1	2	2	4	10	2								
0 3 3	27.4	17							2	1	1	3	6	5	1							
0 3 4	135.2	100						1	4	1	14	25	31	17	12	2	1					
0 3 5	247.2	126							5	0	16	36	41	23	10	2						
0 3 6	12.1	0																				
0 4 4	45.2	24							2	1	4	4	3	6	3	3	1					
0 4 5	692.1	160				2	1	5	5	0	44	67	31	7	2	1	1					
0 4 6	5.4	0																				
0 5 4	101.4	2							1	1	4	13	33	2	5	4	2					
0 5 5	769.2	134							1	1	4	13	33	33	10	5	4	2				
0 5 6	19.2	0																				
0 6 4	23.3	2									1	1	1									
0 6 5	930.0	72							3	2	7	16	30	3	3							
0 6 6	13.3	0																				
0 7 4	20.0	0																				
0 7 5	934.2	31									3	10	10	3		1						
0 8 4	46.0	0																				
0 8 5	1390.7	42							1	1	3	9	25	2	1							
0 8 6	4993.6	49							1	1	2	14	27	2	1	1						
0 9 5	2304.2	100				1	1	1	2	3	15	37	75	25	5	2	1	1	1			
0 10 4	1420.6	25									1	0	13									
TOTAL	251350.1	7362	0	0	1	9	10	10	75	107	977	2101	3047	650	314	105	30	11	0	0	0	0

TABLE D41
DISTRIBUTION OF OBSERVED VERTICAL GUST VELOCITY
FOR THE
CHARLESTON AIR FORCE BASE
TRAINING MISSION
DATA SAMPLE

WIND-0 DIRECTION	MOULTAL PILTS	TOTAL PILTS	WSE DISTRIBUTION (FT./SEC.)																			
			-15	-10	-5	-20-17.5	-15	-12.5	-10	-7.5	-5	0	07.5	10	12.5	15-17.5	20	25	30-35			
2 1 2	10.4	83																				
2 2 2	110.9	457				1	4	17	44	87	12	4	0	10	14	0	1					
2 3 2	22.7	101																				
2 4 2	30.2	100				1	1	1	21	42	43	52	25	10	1	1						
2 5 2	30.0	100																				
2 6 2	2.0	0																				
2 7 2	72.0	297																				
2 8 2	0.2	26																				
2 9 2	100.0	404																				
2 10 2	02.0	170				1	3	20	32	31	22	120	104	20	11	2			1			
2 11 2	10.2	27																				
2 12 2	00.2	170				1	2	0	10	25	20	20	20	10	3	2			1			
2 13 2	70.2	257																				
2 14 2	07.2	120																				
2 15 2	0.2	13																				
2 16 2	0.2	5																				
2 17 2	30.2	15																				
2 18 2	00.0	42																				
2 19 2	0.0	1																				
2 20 2	0.0	0																				
2 21 2	20.2	1																				
2 22 2	7.0	0																				
2 23 2	32.0	2																				
2 24 2	2.7	1																				
2 25 2	0.2	0																				
2 26 2	0.2	0																				
2 27 2	10.2	11																				
2 28 2	17.0	2																				
2 29 2	7.2	0																				
2 30 2	104.0	20																				
2 31 2	1.0	2																				
2 32 2	1.2	1																				
2 33 2	7.0	10																				
2 34 2	10.2	1																				
2 35 2	0.0	0																				
2 36 2	0.0	0																				
2 37 2	13.0	0																				
2 38 2	0.0	0																				
2 39 2	11.2	0																				
2 40 2	20.2	0																				
2 41 2	00.2	7																				
2 42 2	20.2	0																				
2 43 2	70.0	0																				
2 44 2	200.2	2																				
2 45 2	200.0	10																				
2 46 2	1.0	10																				
2 47 2	0.2	11																				
2 48 2	1.0	9																				
2 49 2	0.0	0																				
2 50 2	0.2	7																				
2 51 2	7.2	0																				
2 52 2	12.0	0																				
2 53 2	27.0	2																				
2 54 2	20.2	0																				
2 55 2	00.0	2																				
2 56 2	00.0	1																				
2 57 2	00.0	1																				
2 58 2	307.0	201																				
2 59 2	20.2	7																				
2 60 2	1402.2	00																				
TOTAL	0300.0	3143	0	0	0	0	0	20	71	204	400	700	007	000	100	03	14	3	0	0	0	0

TABLE 248
 DISTRIBUTION OF DESIRED VERTICAL GUST VELOCITY
 FOR THE
 CHARLESTON AIR FORCE BASE
 HIGHER/LOWER PRESSURE
 DATA SAMPLE

DOWN-DRAUGHT BLOCK	NAUTICAL PILOTS	TOTAL PILOTS	WIND DISTRIBUTION (KT./SEC.)																			
			-30	-20	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
1 1 2	70.1	70				1																
2 1 3	6.3	3																				
3 1 4	9.0	3																				
4 1 5	9.1	0																				
5 2 2	13.3	0																				
6 2 3	11.0	0																				
7 2 4	112.0	12																				
8 2 5	11.1	0																				
9 2 6	20.0	0																				
10 3 4	40.0	12							1	1	2	7	1									
11 3 5	40.0	0									2	0	2									
12 3 6	6.1	0																				
13 3 7	9.4	0																				
14 3 8	91.0	76								2	26	42	10	2								
15 3 9	110.0	169								7	35	42	12	0	1							
16 3 10	7.2	1									2	0	1	1								
17 3 11	1.2	2										1	1	1								
18 3 12	197.0	11								0	3	1	1	1	1							
19 3 13	91.0	2									1	10	22	11	1							
20 3 14	101.7	64								2	12	17	5	1								
21 3 15	177.0	75																				
22 3 16	19.7	0																				
23 3 17	10.1	0																				
24 3 18	10.0	0									1	3										
25 3 19	60.7	47								0	13	17	7	1		1			1			
26 3 20	97.1	11									1	0	3	2	1							
27 3 21	10.0	0																				
28 3 22	91.1	12								2	0	1	2	1		1			1			
29 3 23	203.0	19									1	13	13	2					1			
30 3 24	2.0	0																				
31 3 25	10.1	27									1	0	7	2	1	1						
32 3 26	40.0	3																				
33 4 1 1	1.1	12				1					1	1	2	2	2							
34 4 1 2	2.1	10									2	0	0	2								
35 4 1 3	2.1	5									1	2	2	2								
36 4 1 4	1.0	3										2	2									
37 4 2 1	1.0	1																				
38 4 2 2	2.1	2																				
39 4 2 3	1.1	0																				
40 4 2 4	17.1	6										2	3		1							
41 4 2 5	12.0	0																				
42 4 2 6	41.0	1																				
43 4 2 7	10.1	0																				
44 4 2 8	75.0	0																				
45 4 2 9	12.0	0																				
46 4 2 10	40.1	1																				
47 4 2 11	130.7	1																				
48 4 2 12	10.1	0																				
TOTAL	2120.7	936	0	0	0	2	0	1	2	10	20	170	210	64	23	5	4	3	1	1	0	0

TABLE 249
 DISTRIBUTION OF DESIRED VERTICAL GUST VELOCITY
 FOR THE
 CHARLESTON AIR FORCE BASE
 FLIGHT TEST PISTON
 DATA SAMPLE

DOWN-DRAUGHT BLOCK	NAUTICAL PILOTS	TOTAL PILOTS	WIND DISTRIBUTION (KT./SEC.)																			
			-30	-20	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
1 1 2	13.4	27																				
2 1 3	75.2	51																				
3 1 4	1.1	3																				
4 2 4	1.0	4																				
5 2 5	6.0	0																				
6 2 6	10.0	7																				
7 2 7	2.0	0																				
8 3 4	11.0	7																				
9 3 5	6.1	1																				
10 3 6	9.0	0																				
11 3 7	10.0	0																				
12 3 8	11.1	0																				
13 3 9	20.1	1																				
14 3 10	37.0	0																				
15 3 11	9.0	0																				
16 3 12	97.1	0																				
17 3 13	23.0	0																				
18 3 14	7.0	0																				
19 3 15	7.0	0																				
20 4 1	103.3	1																				
TOTAL	490.0	167	0	0	0	0	0	1	3	7	13	37	43	30	10	4	2	0	1	0	0	0

TABLE 200 continued
 DISTRIBUTION OF MEASURED VERTICAL GUST VELOCITY
 FOR THE
 DOWR AIR FORCE BASE
 LOGISTICS, MEDIUM RANGE MISSION
 DATA SAMPLE

DOWR-3 BASE	NAUTICAL FLEETS	TOTAL PIKES	WIND DISTRIBUTION (FT./SEC.)																			
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	0	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
0 2 2	90.1	10																				
0 2 2	90.0	40																				
0 2 4	22.0	41																				
0 2 5	18.0	19																				
0 2 7	2.0	9																				
0 3 3	51.0	42																				
0 3 4	102.7	70																				
0 3 5	203.0	122																				
0 3 5	70.1	10																				
0 4 2	2.0	1																				
0 4 4	10.0	0																				
0 4 5	010.0	110																				
0 4 5	22.0	1																				
0 4 5	0.0	0																				
0 5 7	010.7	127																				
0 5 8	19.7	1																				
0 5 7	2.0	0																				
0 5 4	20.7	9																				
0 5 5	1102.0	121																				
0 5 5	00.0	0																				
0 7 4	0.1	0																				
0 7 5	100.0	22																				
0 7 6	100.0	0																				
0 8 4	17.0	0																				
0 8 7	000.1	04																				
0 8 1	9.0	0																				
0 8 4	17077.0	402																				
0 8 5	10190.0	227																				
0 10 3	07.0	0																				
0 10 4	00275.7	1307																				
0 10 9	01.0	1																				
0 1 2	10.0	0																				
0 1 2	00.0	0																				
0 1 3	10.0	10																				
0 1 3	2.0	1																				
0 2 2	1.7	0																				
0 2 3	02.0	00																				
0 2 4	20.0	00																				
0 2 5	77.0	00																				
0 2 6	2.0	10																				
0 2 7	2.0	10																				
0 3 3	04.0	20																				
0 3 4	00.0	70																				
0 3 5	272.1	201																				
0 3 6	00.0	27																				
0 4 4	10.0	10																				
0 4 5	100.0	100																				
0 4 5	27.0	1																				
0 5 1	0.1	1																				
0 5 1	700.1	07																				
0 5 6	10.0	0																				
0 5 6	2.0	0																				
0 5 5	003.0	21																				
0 5 1	13.1	1																				
0 7 4	20.7	1																				
0 7 5	1220.1	90																				
0 7 6	00.0	0																				
0 8 0	07.0	12																				
0 8 9	2100.0	21																				
0 9 0	0700.1	370																				
0 9 9	2700.0	07																				
0 10 4	0700.0	101																				
TOTAL	221120.0	11000	0	0	3	5	9	22	00	202	040	1170	0900	1020	050	107	00	10	0	2	0	0

TABLE B45
 DISTRIBUTION OF DERIVED VERTICAL DUST VELOCITY
 FOR THE
 COVER AIR FORCE BASE
 LOGISTICS, LONG RANGE MISSION
 DATA SAMPLE

U-28-J BLDNM	NAUTICAL FEET	TOTAL PEAKS	WIND DIRECTION (FT./SEC.)																			
			-25	-20	-25	-25-27.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
0103	200.7	0																				
0103	4.1	21																				
0103	12.3	11																				
0103	1.9	0																				
0103	7.3	0																				
0103	10.2	0																				
0103	3.9	0																				
0103	4.5	0																				
0103	17.1	0																				
0103	12.4	0																				
0103	12.3	0																				
0103	12.0	0																				
0103	12.0	0																				
0103	100.7	0																				
0103	100.3	0																				
0103	720.7	0																				
0103	1000.0	2																				
0103	200.4	11																				
0103	1000.0	12																				
0103	1000.0	10																				
0103	1000.0	240																				
0103	4.0	1																				
0103	1.0	1																				
0103	7.2	0																				
0103	0.0	0																				
0103	0.0	0																				
0103	20.2	3																				
0103	20.0	1																				
0103	20.0	1																				
0103	20.7	1																				
0103	12.2	0																				
0103	01.4	0																				
0103	01.2	140																				
0103	7.1	1																				
TOTAL	2001.0	400	0	0	0	0	2	0	1	0	0	47	161	215	60	10	4	3	0	0	0	0

TABLE B46 concluded
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 DOVER AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

M-W-A BLOCK	NAUTICAL FILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15+17.5	+20	+25	+30+35			
5 2 4	1.6	0									2	4	2									
5 3 1	3.1	0																				
5 3 4	14.1	6								1	3	2										
5 3 5	135.8	38								0	27	3										
5 3 6	10.3	9								1	0											
5 4 4	6.8	0																				
5 4 5	118.4	5								1	4											
5 4 6	95.1	3										3										
5 5 5	120.6	7									2	4	1									
5 6 9	147.1	6									4	1		1								
5 7 5	194.7	29									14	12	3									
5 8 5	1018.8	19									7	8										
5 9 4	734.2	58								5	14	33	4									
5 9 5	4417.9	232					2	1	14	87	93	19	5		1							
5 10 4	3922.1	28							2	6	19	1										
5 10 5	23.7	0																				
TOTAL	52885.8	20017	0	1	7	24	54	148	348	897	2273	4464	5523	3575	1640	637	275	126	55	16	0	0

TABLE B47
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 FOR THE
 DOVER AIR FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

M-W-A BLOCK	NAUTICAL FILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15+17.5	+20	+25	+30+35			
3 1 2	23.4	43							3	7	14	5	12	1	1							
3 1 9	11.0	25							1	1	0	11	2	2								
3 2 2	28.6	22							1	1	1	5	7	1	1							
3 2 3	93.9	43									2	13	20	0								
3 2 4	8.4	7									2	5										
3 3 1	41.5	19									2	6	6	3	1	1						
3 3 4	22.7	5							1		1	2										
3 3 5	12.8	4									1	2	2	1	1							
3 4 3	20.0	14								1	3	6	4									
3 4 4	7.7	0																				
3 4 5	18.5	24									3	0	0	4	1							
3 5 1	70.4	1										1										
3 5 4	56.2	2									1		1									
3 5 5	44.0	0																				
3 6 1	3.0	0																				
3 6 4	145.0	1																				
3 6 5	78.9	0																				
3 7 4	94.4	0																				
3 7 5	98.5	0																				
3 8 5	144.8	0																				
3 9 4	17.4	2											2									
3 9 5	91.2	1											1									
3 10 4	20.9	8											3	5								
4 1 2	3.4	6								1		1	2	2								
4 1 3	5.0	3										1	1	1	1							
4 2 3	2.6	1											1									
4 2 4	1.2	0																				
4 3 3	3.6	0																				
4 3 4	12.7	1									1											
4 3 5	24.3	1											1									
4 3 6	1.1	0																				
4 4 8	25.4	3									1	2										
4 4 4	1.7	0																				
4 5 5	26.3	0																				
4 6 5	8.9	0																				
TOTAL	1219.5	242	0	0	0	0	0	0	3	6	24	74	82	41	7	5	0	0	0	0	0	0

TABLE B48
DISTRIBUTION OF OBSERVED VERTICAL GUST VELOCITY
FOR THE
VINHOX AIR FORCE BASE
LOGISTICS, RESERVE RANGE REGION
DATA SAMPLE

U-IN-A BLSCR	NAUTICAL MILES	TOTAL FEET	WIND DISTRIBUTION (FT./SEC.)															
			+25	+20	+15	+12.5	+10	+7.5	+5	+2.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
2 1 2	7.7	0																
2 2 2	9.7	10																
2 2 3	3.8	6																
2 3 2	47.9	21																
2 3 3	64.0	21																
2 3 4	9.7	0																
2 3 5	6.7	0																
2 4 4	16.0	7																
2 4 5	27.3	1																
2 5 4	14.0	0																
2 5 5	55.0	1																
2 6 4	18.5	1																
2 6 5	79.6	4																
2 6 6	3.5	0																
2 7 4	10.4	3																
2 7 5	81.7	13																
2 7 6	3.5	0																
2 8 5	468.5	1																
2 9 4	20.0	0																
2 9 5	7.2	0																
2 10 4	302.7	0																
3 1 2	30.1	48																
3 1 3	1.5	0																
3 2 2	78.0	100																
3 2 3	20.8	11																
3 2 4	3.9	0																
3 3 2	119.3	120																
3 3 3	100.9	103																
3 3 4	191.6	57																
3 3 5	33.0	10																
3 4 2	12.1	39																
3 4 3	8.6	3																
3 4 4	129.1	12																
3 4 5	166.0	6																
3 5 4	18.7	9																
3 5 5	304.5	9																
3 5 6	12.2	0																
3 6 4	222.0	0																
3 6 6	13.2	2																
3 7 5	1391.7	2																
3 7 6	18.0	0																
3 8 4	1400.4	1																
3 9 4	1114.8	2																
3 9 5	4020.6	23																
3 10 4	3266.3	0																
4 1 2	18.3	44																
4 1 3	8.0	16																
4 1 4	2.3	6																
4 1 5	0.4	0																
4 2 2	40.2	49																
4 2 3	12.1	23																
4 2 5	6.1	2																
4 3 2	22.1	29																
4 3 3	80.8	43																
4 3 4	81.5	29																
4 3 5	42.0	3																
4 4 3	23.6	7																
4 4 4	52.1	9																
4 4 5	197.2	17																
4 5 4	79.9	2																
4 5 5	253.1	5																
4 6 4	3.0	0																
4 6 5	246.8	0																
4 7 4	19.2	0																
4 7 5	1673.8	24																
4 8 4	3.0	0																
4 8 5	1694.3	0																
4 9 4	3221.8	58																
4 9 5	4651.7	46																
4 10 4	2894.5	33																
5 1 3	1.6	6																
5 2 2	1.1	0																
5 2 3	1.1	3																
5 3 1	2.3	4																
5 3 4	1.6	7																
5 3 5	1.4	1																
5 4 5	24.3	1																
5 5 5	29.4	0																
5 6 5	33.3	0																
5 7 5	40.9	0																
5 8 5	62.7	1																
5 9 4	1241.3	123																
5 9 5	866.9	31																
5 10 4	2728.5	56																
6 1 2	2.4	0																
6 1 3	9.3	12																
6 2 3	6.0	4																
6 2 4	0.7	1																
6 3 3	1.3	0																
6 3 4	1.6	0																
6 3 5	19.9	0																
6 3 6	2.7	0																
6 4 4	6.3	9																
6 4 5	10.2	0																
6 5 5	29.2	0																
6 6 5	39.8	0																
6 7 5	42.2	0																
6 8 5	59.2	0																
6 9 4	189.8	0																
6 9 5	769.9	3																
TOTAL	33492.3	1307	0	0	0	0	0	0	29	129	264	373	234	95	10	0	0	0

TABLE B-49 continued
 DISTRIBUTION OF OBSERVED VERTICAL GUST VELOCITY
 FOR THE
 TINNER AIR FORCE BASE
 TRAINING MISSION
 DATA SAMPLE

U-M-H-A BLOCK	NAUTICAL FILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																			
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	0	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
4 2 3	4.2	0																				
4 3 1	0.1	0																				
4 3 2	3733.9	9022			0	0	23	73	200	323	1336	1776	1604	1011	940	200	134	40	20			
4 3 3	19181.6	27620			1	2	30	90	164	444	1303	3590	6377	6402	5043	2500	870	290	93			
4 3 4	5791.4	6493			6	5	23	81	223	677	1634	2024	1123	450	171	90	12	13	2			
4 3 7	701.3	930			2	1	4	4	14	26	129	213	91	24	18							
4 3 8	19.9	12																				
4 4 2	161.7	337																				
4 4 2	3691.2	4690																				
4 4 3	2408.6	2318																				
4 4 3	1752.7	873																				
4 4 4	99.4	10																				
4 4 4	43.7	1																				
4 4 4	626.2	27																				
4 4 4	1394.7	120																				
4 4 4	4212.3	443																				
4 4 5	81.4	0																				
4 4 5	20.8	0																				
4 4 5	763.3	17																				
4 4 6	3269.8	249																				
4 4 6	6618.3	303																				
4 4 6	150.4	3																				
4 4 6	70.0	0																				
4 4 7	1722.8	37																				
4 4 7	6627.3	257																				
4 4 7	10647.7	490																				
4 4 7	163.2	16																				
4 4 7	1.1	0																				
4 4 7	10.6	0																				
4 4 7	43.8	0																				
4 4 8	722.3	11																				
4 4 8	22.8	0																				
4 4 8	186.6	15																				
4 4 8	260.0	69																				
4 4 9	180.1	7																				
4 4 9	27.5	0																				
4 4 9	303.3	1																				
4 4 9	190.4	0																				
5 1 2	72.0	235																				
5 1 2	33.5	84																				
5 1 2	1.5	0																				
5 2 2	292.1	611																				
5 2 3	486.4	1001																				
5 2 4	29.0	24																				
5 2 5	2.3	0																				
5 3 1	0.6	0																				
5 3 2	209.8	456																				
5 3 3	2175.6	2743																				
5 3 4	1329.9	747																				
5 3 5	375.6	231																				
5 3 6	2.7	7																				
5 4 7	8.0	10																				
5 4 3	264.2	335																				
5 4 4	508.4	167																				
5 4 5	1589.2	260																				
5 4 6	26.4	7																				
5 4 7	1.7	1																				
5 4 3	140.7	19																				
5 4 4	599.1	82																				
5 4 5	2152.7	210																				
5 4 6	34.9	2																				
5 4 7	14.1	0																				
5 4 3	473.4	7																				
5 4 4	2625.9	205																				
5 4 5	3919.2	199																				
5 4 6	15.6	3																				
5 4 7	47.3	0																				
5 4 3	1352.1	51																				
5 4 4	6084.4	243																				
5 4 5	8627.1	196																				
5 4 6	187.3	5																				
5 4 7	172.7	0																				
5 4 4	148.6	5																				
5 4 5	707.2	12																				
5 4 6	260.5	9																				
5 4 7	241.5	6																				
5 4 5	453.3	3																				
5 4 7	95.0	3																				
5 4 4	522.7	3																				
TOTAL	441513.0	194190	1	6	34	220	431	1326	3834	11781	34127	73301	88390	49758	20676	7226	2375	857	400	49	9	1

TABLE R40
 DISTRIBUTION OF OBSERVED VERTICAL GUST VELOCITY
 FOR THE
 TOWER AND FORCE BASE
 FLIGHT TEST MISSION
 DATA SAMPLE

D-40-4 BLOCK	NAUTICAL PILOTS	TOTAL FEASIBLE	GUST DISTRIBUTION (FT./SEC.)																		
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	-2.5	+2.5	+5	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35
3 2 2	11.7	37						2	5	10	7	6	5	2							
3 2 3	1.4	0							2	1	2	0	1								
3 3 2	24.6	67				1			5	21	23	9	7								
3 3 3	110.1	124				2	1	0	10	30	27	20	11	2				1			
3 3 4	17.2	0																			
3 4 3	17.3	0																			
3 4 4	99.7	3									3										
3 4 5	40.8	3						1	2	1	1										
3 5 4	40.9	1									1										
3 5 5	71.1	0																			
3 6 4	7.3	0																			
3 6 5	20.4	0																			
3 7 3	20.4	0																			
3 7 4	55.9	0																			
3 7 5	120.4	1										1									
3 7 6	1.7	0																			
3 8 4	27.5	0																			
3 8 5	15.7	0																			
3 9 4	43.7	0																			
3 9 5	2.2	0																			
3 10 4	90.0	3								1	2	1									
4 2 2	1.1	0								1		1	2	1							
4 2 3	1.1	1																			
4 3 3	4.0	0																			
4 3 4	7.7	0																			
4 4 3	16.1	0																			
4 4 4	0.4	0																			
4 4 5	22.9	2																			
4 5 4	10.0	3									1	1	1								
4 5 5	75.0	0																			
4 6 4	12.0	0																			
4 7 3	2.3	0																			
TOTAL	1247.0	299	0	0	0	0	1	2	2	10	25	72	70	47	25	4	0	1	0	0	0

TABLE 201 continued
 DISTRIBUTION OF GEOMETRICAL GUST VELOCITY
 PER HOUR
 TRAVIS AIR FORCE BASE
 LOGISTICS, SUPPORT GROUP MISSION
 DATA SAMPLE

GUST VELOCITY BLAZE	GUST VELOCITY PILLS	TOTAL PILLS	GUST DISTRIBUTION																			
			-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	0	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30			
0-10	0444-1	2																				
0-10	107-7	100				1	9	7	20	15	17	60	20	16	7	1						
0-10	101-7	200	1				2	0	24	60	91	47	21	6	5							
0-10	10-7	12									7	4	1									
0-10	9-7	2									1	1										
0-10	34-7	43					3	2	5	3	11	9	7	1	1	1						
0-10	103-6	144				1	1	10	16	25	49	27	9	4	1	1						
0-10	66-6	90							4	14	23	13	2									
0-10	41-6	50								2	12	4										
0-10	34-6	13								1	1	2	2	2	3							
0-10	370-6	120	1	1	3	1	2	7	16	27	35	20	11	5	1	2						
0-10	270-5	200						4	4	17	64	73	20	9	7	2	1					
0-10	163-5	244						4	0	22	67	65	24	15	2	3	1	1				
0-10	14-5	7								2	2	3										
0-10	93-4	5								2	3											
0-10	157-7	10							1	0	0	2										
0-10	1770-7	100				1	2	3	19	40	61	20	9	2	1	1	1					
0-10	75-7	17				1				3	7	1	1	1								
0-10	10-0	0																				
0-10	70-0	0																				
0-10	2600-C	67				1	1	3	3	1	23	42	7	2			2	1	1			
0-10	431-2	2										2										
0-10	7-1	0																				
0-10	65-1	4									4											
0-10	2900-7	122							2	3	0	60	45	16	6	1	1					
0-10	4-1	0																				
0-10	2144-7	34									2	24	7	1								
0-10	7070-2	63								1	3	24	20	2	1							
0-10	101-0	2									1	1										
0-10	10470-0	220				1	2	1	3	17	91	60	16	5	3	1						
0-10	20107-1	100				1	1	1	7	25	167	202	47	15	4							
0-10	07400-7	205				2	1	1	11	31	100	200	34	11	2	1	2					
0-10	070-C	1									1											
0-10	149337-7	1074				1	2	4	11	33	200	514	60	22	7			2				
0-10	7001-1	12									5	7										
0-10	175-0	123				1			1	12	13	6	21	31	25	9	6					
0-10	344-1	232								13	20	30	45	55	20	16	5	2	1			
0-10	33-2	20								1	3	3	0	6	4	2						
0-10	7-1	16										0	6	1								
0-10	11-4	21								1	1	1	6	5								
0-10	210-7	153				1	2	4	10	11	20	37	31	14	6	4	4		1			
0-10	155-4	97							2	2	0	32	20	13	4	5	1					
0-10	60-4	60							3	4	0	17	31	11	7	2	1					
0-10	3-7	0																				
0-10	0-0	0																				
0-10	291-0	146				1			2	7	0	19	27	24	32	11	2	1	1			
0-10	273-3	170							1	2	1	15	44	55	20	10	2					
0-10	022-7	433				1	1	1	0	14	35	113	140	63	19	5	3	1				
0-10	0-3	2									1											
0-10	1-0	0																				
0-10	00-0	35									1	2	6	2								
0-10	115-2	12									4	6	1	1								
0-10	1037-0	140				1	1	3	3	4	13	47	70	35	14	5	3					
0-10	0-4	0																				
0-10	00-3	0																				
0-10	2270-7	34									3	17	13	1								
0-10	0-1	0																				
0-10	70-4	0																				
0-10	2710-0	27								1	2	5	14									
0-10	37-4	0																				
0-10	3302-2	104							1	2	4	7	32	42	12	1	3					
0-10	93-1	0																				
0-10	7070-1	190								1	11	30	60	14	4							
0-10	0100-0	73									5	23	20	5	2							
0-10	2007-7	204								1	3	4	24	243	44	0	2		1			
0-10	0075-1	64									10	45	2									
0-10	203-5	4																				
TOTAL	200200-7		0	1	3	11	20	30	130	402	1035	4061	7045	2345	606	200	91	45	19	5	3	0

TABLE 202
DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
FOR THE
TRAVIS AIR FORCE BASE
LOGISTICS, LONG RANGE DIVISION
DATA SAMPLE

0-10-0 BLOCK	NAUTICAL FILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
			-30	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30+30			
2 1 2	6.2	2																				
2 2 2	10.0	2																				
2 2 3	4.0	0																				
2 2 4	2.0	2																				
2 3 2	2.5	0																				
2 3 3	1.0	7																				
2 3 4	26.4	1																				
2 4 4	10.1	0																				
2 4 5	10.0	1																				
2 5 4	2.0	0																				
2 5 5	10.0	2																				
2 6 5	12.0	0																				
2 7 5	12.0	0																				
2 8 5	13.0	0																				
2 9 4	7.0	0																				
2 9 5	7.2	0																				
2 10 4	7.2	0																				
3 1 2	157.4	102																				
3 1 3	5.2	1																				
3 2 2	276.4	02																				
3 2 3	90.0	17																				
3 2 4	30.2	4																				
3 3 2	110.7	24																				
3 3 3	170.7	02																				
3 3 4	102.3	27																				
3 3 5	07.4	4																				
3 4 2	12.0	0																				
3 4 3	73.2	5																				
3 4 4	170.1	27																				
3 4 5	270.2	17																				
3 5 2	4.2	1																				
3 5 3	10.5	3																				
3 5 4	100.0	0																				
3 5 5	150.0	15																				
3 6 2	0.2	0																				
3 6 3	0.2	0																				
3 6 4	40.4	1																				
3 6 5	013.0	4																				
3 7 3	15.4	0																				
3 7 4	51.3	0																				
3 7 5	710.4	0																				
3 8 3	20.0	0																				
3 8 4	03.0	0																				
3 8 5	434.0	2																				
3 9 4	4300.1	3																				
3 9 5	2372.1	1																				
3 10 4	2700.1	00																				
4 0 4	5000.0	31																				
4 0 5	3433.0	0																				
4 10 3	104.7	0																				
4 10 4	9200.7	274																				
5 0 5	3.1	0																				
5 1 5	55.0	0																				
5 0 5	175.3	0																				
5 0 4	0050.0	100																				
5 0 5	11455.3	36																				
5 10 4	41021.0	339																				
5 10 5	271.4	0																				
6 1 2	29.4	40																				
6 1 3	70.0	00																				
6 1 4	5.0	11																				
6 1 5	0.5	3																				
6 2 3	53.0	43																				
6 2 4	20.0	10																				
6 2 5	17.0	10																				
6 3 3	20.2	12																				
6 3 4	70.4	42																				
6 3 5	293.0	110																				
6 3 6	1.1	0																				
6 4 4	0.5	0																				
6 4 5	514.0	137																				
6 4 6	7.0	0																				
6 5 5	403.0	17																				
6 5 6	5.0	0																				
6 6 4	5.4	0																				
6 6 5	005.0	04																				
6 7 5	1100.2	10																				
6 8 4	0.0	0																				
6 8 5	1093.0	34																				
6 9 4	2003.4	203																				
6 9 5	5354.0	100																				
6 10 4	4003.3	17																				
6 10 5	220.3	4																				
TOTAL	101950.4	2300	0	0	0	0	2	4	20	52	173	709	1040	254	00	30	7	1	1	0	0	0

TABLE 883
DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
FOR THE
TRAVIS AIR FORCE BASE
TRAINING MISSION
DATA SAMPLE

WIND- BLOCK	NAUTICAL FILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
			-35	-30	-25	-20-17.5	-15	-12.5	-10	-7.5	-5	0	+7.5	+10	+12.5	+15-17.5	+20	+25	+30-35			
2 1 1	30.C	0																				
2 1 2	317.6	394																				
2 1 3	40.9	76																				
2 1 4	0.7	0																				
2 2 2	951.0	303																				
2 2 3	213.C	161																				
2 2 4	8.4	4																				
2 3 2	230.4	94																				
2 3 3	496.3	103																				
2 3 4	411.C	35																				
2 3 5	70.4	17																				
2 4 2	4.9	0																				
2 4 3	7.2	4																				
2 4 4	39.7	11																				
2 4 5	12.4	0																				
2 4 6	1.2	0																				
2 5 3	1.0	0																				
2 5 4	30.2	7																				
2 5 5	15.4	0																				
2 6 3	6.2	0																				
2 6 4	51.2	11																				
2 6 5	22.9	0																				
2 7 3	47.7	6																				
2 7 4	149.C	1																				
2 7 5	10.2	0																				
3 1 1	7.2	1																				
3 1 2	1379.4	1848																				
3 1 3	308.4	428																				
3 1 4	46.1	277																				
3 1 5	30.1	105																				
3 2 2	2174.2	1283																				
3 2 3	1346.4	1169																				
3 2 4	223.4	149																				
3 2 5	40.4	25																				
3 3 2	977.4	359																				
3 3 3	3810.C	936																				
3 3 4	3780.2	730																				
3 3 5	1087.1	194																				
3 3 6	0.4	1																				
3 4 2	19.2	0																				
3 4 3	492.4	23																				
3 4 4	1849.2	139																				
3 4 5	1308.3	94																				
3 4 6	18.2	1																				
3 5 2	98.4	6																				
3 5 3	313.2	10																				
3 5 4	1699.2	67																				
3 5 5	1712.4	67																				
3 5 6	16.4	0																				
3 6 2	52.1	0																				
3 6 3	593.2	4																				
3 6 4	2559.C	122																				
3 6 5	1710.1	33																				
3 6 6	48.3	0																				
3 7 2	1.1	0																				
3 7 3	5317.7	32																				
3 7 4	2676.C	104																				
3 7 5	799.4	10																				
3 8 3	5.7	1																				
3 8 4	75.2	0																				
3 8 5	91.2	2																				
3 9 4	74.4	2																				
3 9 5	917.3	24																				
3 10 3	150.5	0																				
3 10 4	410.7	7																				
4 1 2	99.2	146																				
4 1 3	49.1	112																				
4 1 4	9.2	8																				
4 1 5	0.5	0																				
4 2 2	45.4	32																				
4 2 3	121.4	127																				
4 2 4	44.8	19																				
4 2 5	48.4	6																				
4 3 2	77.2	8																				
4 3 3	233.7	48																				
4 3 4	548.7	68																				
4 3 5	569.2	123																				
4 3 6	11.2	9																				
4 4 3	37.2	2																				
4 4 4	433.4	4																				
4 4 5	571.4	23																				
4 4 6	10.3	0																				
4 5 3	8.C	0																				
4 5 4	79.2	2																				
4 5 5	226.7	4																				
4 6 2	17.C	1																				
4 6 3	40.7	4																				
4 6 4	60.9	8																				
4 6 5	230.4	15																				
4 7 3	25.2	0																				
4 7 4	47.2	1																				
4 7 5	213.1	2																				
4 8 5	39.C	0																				
4 9 4	12.7	0																				
4 9 5	11.5	0																				
4 10 4	84.7	0																				
TOTAL	40935.0	10411	0	0	1	4	9	27	99	416	1140	2716	3488	1616	622	196	64	25	9	1	0	0

TABLE 24
 DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
 PER THE
 TRACKS AND FORCE DATA
 FLIGHT TEST MISSION
 DATA SAMPLE

TRACK NO.	VERTICAL GUST FT./SEC.	GUST FORCE G	GUST DISTRIBUTION (FT./SEC.)												
			-20	-15	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	15	20
1	10.0	1.0													
2	10.0	1.0													
3	10.0	1.0													
4	10.0	1.0													
5	10.0	1.0													
6	10.0	1.0													
7	10.0	1.0													
8	10.0	1.0													
9	10.0	1.0													
10	10.0	1.0													
11	10.0	1.0													
12	10.0	1.0													
13	10.0	1.0													
14	10.0	1.0													
15	10.0	1.0													
16	10.0	1.0													
17	10.0	1.0													
18	10.0	1.0													
19	10.0	1.0													
20	10.0	1.0													
21	10.0	1.0													
22	10.0	1.0													
23	10.0	1.0													
24	10.0	1.0													
25	10.0	1.0													
26	10.0	1.0													
27	10.0	1.0													
28	10.0	1.0													
29	10.0	1.0													
30	10.0	1.0													
31	10.0	1.0													
32	10.0	1.0													
33	10.0	1.0													
34	10.0	1.0													
35	10.0	1.0													
36	10.0	1.0													
37	10.0	1.0													
38	10.0	1.0													
39	10.0	1.0													
40	10.0	1.0													
41	10.0	1.0													
42	10.0	1.0													
43	10.0	1.0													
44	10.0	1.0													
45	10.0	1.0													
46	10.0	1.0													
47	10.0	1.0													
48	10.0	1.0													
49	10.0	1.0													
50	10.0	1.0													
51	10.0	1.0													
52	10.0	1.0													
53	10.0	1.0													
54	10.0	1.0													
55	10.0	1.0													
56	10.0	1.0													
57	10.0	1.0													
58	10.0	1.0													
59	10.0	1.0													
60	10.0	1.0													
61	10.0	1.0													
62	10.0	1.0													
63	10.0	1.0													
64	10.0	1.0													
65	10.0	1.0													
66	10.0	1.0													
67	10.0	1.0													
68	10.0	1.0													
69	10.0	1.0													
70	10.0	1.0													
71	10.0	1.0													
72	10.0	1.0													
73	10.0	1.0													
74	10.0	1.0													
75	10.0	1.0													
76	10.0	1.0													
77	10.0	1.0													
78	10.0	1.0													
79	10.0	1.0													
80	10.0	1.0													
81	10.0	1.0													
82	10.0	1.0													
83	10.0	1.0													
84	10.0	1.0													
85	10.0	1.0													
86	10.0	1.0													
87	10.0	1.0													
88	10.0	1.0													
89	10.0	1.0													
90	10.0	1.0													
91	10.0	1.0													
92	10.0	1.0													
93	10.0	1.0													
94	10.0	1.0													
95	10.0	1.0													
96	10.0	1.0													
97	10.0	1.0													
98	10.0	1.0													
99	10.0	1.0													
100	10.0	1.0													
TOTAL	1000.0	100	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX C
GROUND LOADS STUDY DATA

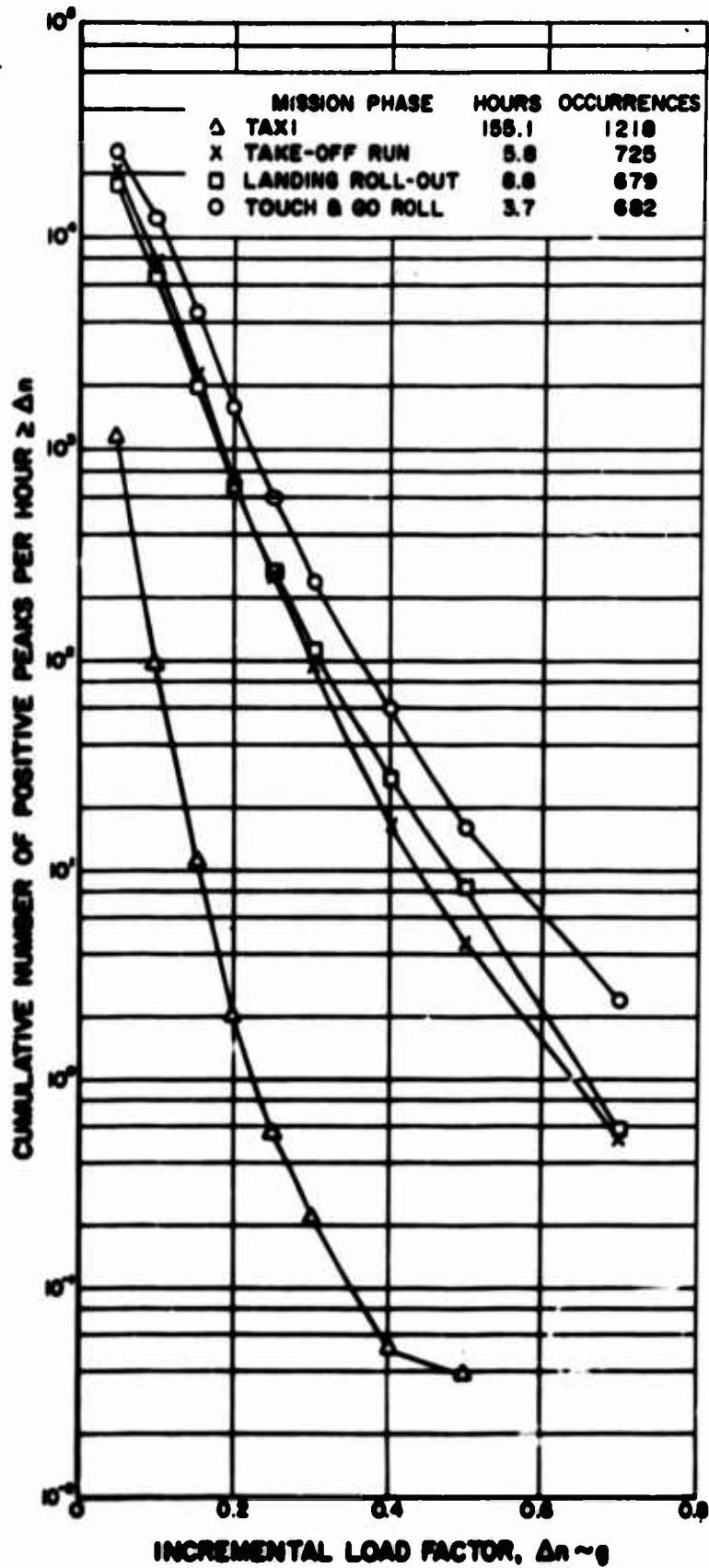


Figure C1. Cumulative Frequency of Positive Incremental Ground Load Factor Peaks for the Mission Phases of Taxi, Take-off Run, Landing Roll-out, and Touch-and-Go Roll

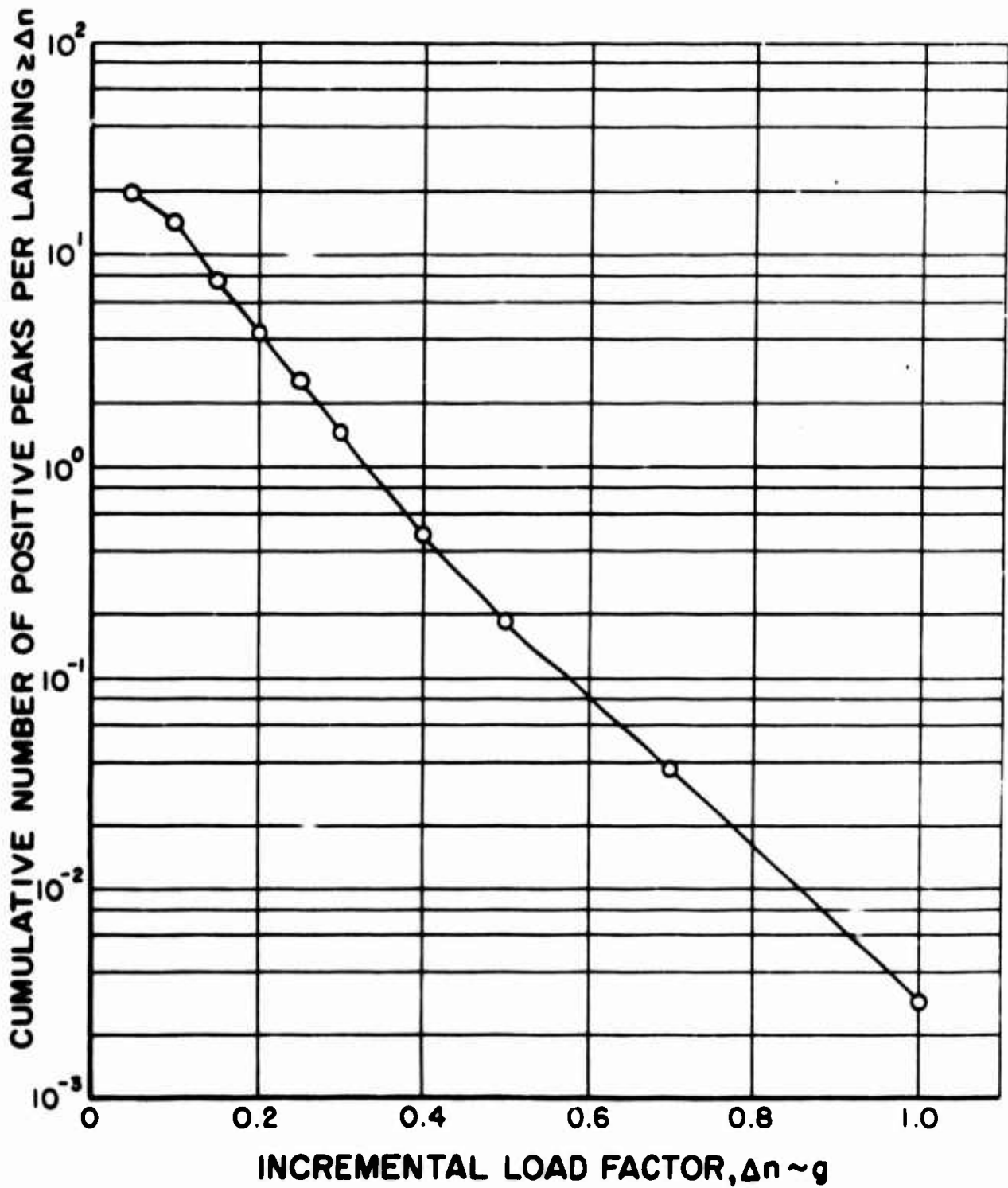


Figure C2. Cumulative Frequency of Positive Incremental Ground Load Factor Peaks per Landing for the Landing Impact Mission Phase

TABLE CI
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF PHASE

CM-PM BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
1 1	33.73	1979																						1 2	204.74	7884																						1 3	799.14	35731																						1 4	899.93	39077																						1 5	910.87	43460																						1 6	1004.87	67375																						1 7	904.87	34073																						1 8	904.87	34073																						1 9	47.82	1170																						1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6				
1 2	204.74	7884																						1 3	799.14	35731																						1 4	899.93	39077																						1 5	910.87	43460																						1 6	1004.87	67375																						1 7	904.87	34073																						1 8	904.87	34073																						1 9	47.82	1170																						1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																												
1 3	799.14	35731																						1 4	899.93	39077																						1 5	910.87	43460																						1 6	1004.87	67375																						1 7	904.87	34073																						1 8	904.87	34073																						1 9	47.82	1170																						1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																				
1 4	899.93	39077																						1 5	910.87	43460																						1 6	1004.87	67375																						1 7	904.87	34073																						1 8	904.87	34073																						1 9	47.82	1170																						1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																												
1 5	910.87	43460																						1 6	1004.87	67375																						1 7	904.87	34073																						1 8	904.87	34073																						1 9	47.82	1170																						1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																				
1 6	1004.87	67375																						1 7	904.87	34073																						1 8	904.87	34073																						1 9	47.82	1170																						1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																												
1 7	904.87	34073																						1 8	904.87	34073																						1 9	47.82	1170																						1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																				
1 8	904.87	34073																						1 9	47.82	1170																						1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																												
1 9	47.82	1170																						1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																				
1 10	740.21	25352																						2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																												
2 2	11.49	94																						2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																				
2 3	140.88	7340																						2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																												
2 4	100.00	1031																						2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																				
2 5	89.34	1784																						2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																												
2 6	23.13	953																						2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																				
2 7	23.01	909																						2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																												
2 8	81.99	2543																						2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																				
2 9	97.77	1933																						2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																												
2 10	242.89	6157																						3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																				
3 2	52.43	1333																						3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
3 3	123.33	3294																						3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
3 4	144.30	1651																						3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
3 5	27.93	1233																						3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
3 6	107.42	1913																						3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
3 7	5.13	42																						3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
3 8	73.50	1735																						3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
3 9	77.74	2345																						3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
3 10	300.92	6377																						4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
4 3	99.95	1977																						4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
4 4	74.37	1685																						4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
4 5	14.00	74																						4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
4 6	33.31	274																						4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
4 7	9.79	70																						4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
4 8	33.37	3740																						4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
4 9	82.51	1049																						4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
4 10	162.15	3641																						5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
5 2	22.74	20																						5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
5 3	70.46	952																						5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
5 4	90.11	949																						5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
5 5	15.04	40																						5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
5 6	18.61	103																						5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
5 7	8.44	263																						5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
5 8	97.84	899																						5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
5 9	111.42	1590																						5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
5 10	103.42	3295																						6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
6 7	13.81	679																						6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
6 8	7.31	318																						6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
6 9	13.39	198																						6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
6 10	47.20	900																						7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
7 3	4.27	51																						7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
7 4	10.59	140																						7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
7 5	3.49	124																						7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
7 6	20.44	866																						7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
7 7	16.30	293																						TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
TOTAL	9284.99	324516	1	1	1	14	29	199	1060	11909	130261	166370	13252	1399	220	32	26	2	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

TABLE C2
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN PHASE

CM-PM BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1 2	1.46	609																						1 3	11.79	6091																						1 4	22.11	12220																						1 5	32.11	19679																						1 6	50.15	32071																						1 7	22.54	13464																						1 8	20.64	10004																						1 9	4.03	2207																						1 10	45.39	30896																						2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																					
1 3	11.79	6091																						1 4	22.11	12220																						1 5	32.11	19679																						1 6	50.15	32071																						1 7	22.54	13464																						1 8	20.64	10004																						1 9	4.03	2207																						1 10	45.39	30896																						2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																													
1 4	22.11	12220																						1 5	32.11	19679																						1 6	50.15	32071																						1 7	22.54	13464																						1 8	20.64	10004																						1 9	4.03	2207																						1 10	45.39	30896																						2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																					
1 5	32.11	19679																						1 6	50.15	32071																						1 7	22.54	13464																						1 8	20.64	10004																						1 9	4.03	2207																						1 10	45.39	30896																						2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																													
1 6	50.15	32071																						1 7	22.54	13464																						1 8	20.64	10004																						1 9	4.03	2207																						1 10	45.39	30896																						2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																					
1 7	22.54	13464																						1 8	20.64	10004																						1 9	4.03	2207																						1 10	45.39	30896																						2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																													
1 8	20.64	10004																						1 9	4.03	2207																						1 10	45.39	30896																						2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																					
1 9	4.03	2207																						1 10	45.39	30896																						2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																													
1 10	45.39	30896																						2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																					
2 3	8.84	197																						2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																													
2 4	9.29	262																						2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																					
2 5	9.07	370																						2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																													
2 7	1.70	1429																						2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																					
2 8	6.30	3094																						2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																													
2 9	4.31	2042																						2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																					
2 10	23.92	14664																						3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																													
3 3	1.57	923																						3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																					
3 4	2.27	1382																						3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																													
3 7	6.47	397																						3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
3 8	5.20	4162																						3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3 9	6.37	4681																						3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
3 10	23.23	13909																						4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
4 6	0.94	624																						4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
4 8	3.64	2990																						4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
4 9	4.71	3931																						4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
4 10	10.79	7021																						5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
5 6	0.93	887																						5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
5 7	0.42	331																						5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
5 8	5.90	4400																						5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
5 9	0.82	6879																						5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
5 10	9.41	6993																						6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
6 7	0.42	392																						6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
6 8	0.73	727																						6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
6 9	0.37	350																						6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
6 10	0.62	548																						7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
7 7	0.99	682																						7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
7 8	2.70	2489																						7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
7 9	1.00	1166																						TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
TOTAL	246.89	220929																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

TABLE C3
DISTRIBUTION OF GROUND LOAD FACTORS
PER THE
LANDING ROLL-OUT MISSION PHASE

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 1	1.00	904					1	5	8	14	53	345	324	104	30	14	3	1					
1 2	22.04	9378					2	4	20	49	267	1142	3193	3279	1049	206	70	22	12	7			
1 3	70.04	36873	3	4	10	31	75	307	1009	3061	11999	13221	4606	1390	356	197	116	22	7	1			
1 4	94.04	32907		6	8	68	134	441	1509	6124	16736	17447	7007	2099	374	199	100	17	4				
1 5	70.00	49172	4	21	89	189	592	1767	5080	14440	16119	6879	2077	620	235	160	48	23	1				
1 6	64.00	44133		1	4	80	175	516	1797	7300	14311	14400	6090	2064	680	261	129	13	7	1			
1 7	29.00	16948					22	89	492	1990	5243	6230	2172	470	109	57	10	2					
1 8	0.00	867					2	12	60	132	171	202	167	72	32	6	4						
1 9	1.22	1062					2	14	66	126	200	263	219	92	20	4							
2 2	1.72	644		1			1	13	27	80	149	200	110	46	13	4	3	1					
2 3	20.32	6804	1	4	7	13	22	41	106	340	2199	2707	645	191	66	24	20	7	1				
2 4	14.20	6443					3	5	49	124	610	2043	2015	1130	320	101	24	8	1				
2 5	9.64	4293					3	8	31	71	197	909	1311	1401	472	140	62	14	3	1			
2 6	1.41	1909		1	8	43	20	47	131	299	294	397	225	80	33	16	5	2					
2 8	1.47	302					5	6	16	71	162	166	93	15	4	3	1						
3 2	5.48	1948				1	10	8	30	77	230	499	507	163	34	19	5	4	1				
3 3	13.01	6266				4	20	35	64	244	743	1040	2074	807	294	82	31	20	11	5			
3 4	21.76	17317				1	25	54	100	410	1434	4004	4440	1344	399	134	42	20	5	6			
3 5	2.04	1751	3	9	6	40	22	75	122	342	290	393	267	107	60	20	17	4	5	1			
3 6	5.24	3063				1	5	17	54	260	1094	1041	309	83	13	1	3						
3 7	0.64	471					1	5	12	65	117	146	80	10	4								
3 9	0.00	374					2	1	3	14	94	219	107	46	5	1							
3 10	0.01	322								3	25	136	63	82	11	2							
4 3	11.74	5299				2	5	10	47	105	652	1962	1700	640	211	70	32	12	2				
4 4	0.24	4710				2	9	9	42	141	600	1453	1497	739	160	39	11	6	1				
4 5	2.30	1294						3	11	95	200	302	409	157	34	10	3						
4 6	1.77	443							5	39	164	180	45	3		1							
4 7	2.12	873						1	6	31	149	299	162	139	43	12	9	1	1				
5 2	1.97	960							3	25	85	303	396	121	24	3							
5 3	9.66	4793				6	2	5	13	52	193	699	1390	642	270	77	21	4					
5 4	10.73	6236				2	19	34	70	272	906	1020	1054	883	243	73	32	13	7	2			
5 5	2.74	1733					1	2	7	13	146	632	722	200	21	3	2	2					
5 6	2.29	1847					1	5	26	77	230	466	521	130	40	8	3	7	1	1			
5 9	0.04	333								5	120	104	16	1	1								
6 4	0.49	273								21	66	131	47	6	1	1							
6 7	0.69	705				2	6	16	39	60	84	120	149	86	77	30	10	13	5				
7 3	1.39	601	1	3	9	19	9	27	40	103	122	210	116	32	19	6	4	9	2				
7 4	5.42	3249				4	8	20	109	344	933	944	606	212	73	16	4	9	7				
7 5	1.01	716					4	4	17	82	202	233	64	23	1	2	1	1					
7 6	0.87	854					2	1	17	47	195	226	262	92	22	6	1	3					
TOTAL	226.01	275133	6	39	92	544	937	3004	9700	34732	98002	90599	39033	11902	3540	1340	730	160	47	3			

TABLE C4
DISTRIBUTION OF GROUND LOAD FACTORS
PER THE
TYMC-AND-00 ROLL MISSION PHASE

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 1	0.43	221						1	1	13	34	69	37	66	15	4	1							
1 2	3.46	2242						2	5	43	193	324	399	506	392	160	66	16	1					
1 3	23.09	10931						4	14	22	66	102	373	1042	2960	4003	3012	2746	1262	301	196	101	22	5
1 4	30.10	31720	1	13	73	122	311	495	962	1972	4203	6743	6313	5200	2377	1276	303	401	114	40				
1 5	30.04	23490					7	13	87	165	409	1203	3034	6230	6027	3740	1993	505	199	65	12	1		
1 6	12.16	9907				1	1	4	40	90	224	590	1403	2990	2146	1036	720	230	84	21	3	1		
1 7	20.02	22077						15	42	227	641	2070	6099	7002	3470	1900	247	60	25	4	4			
1 8	43.93	36007				4	7	60	127	316	1001	3024	10091	11321	5911	1740	300	94	40	7				
1 9	40.93	13640				3	6	26	60	230	1102	4190	9002	11000	5407	1456	316	60	19	1				
1-10	1.72	1849					1	1	6	27	124	276	300	377	200	90	37	10	1					
2 3	0.70	626						1	16	29	90	103	104	77	113	60	41	14	3	1				
2 4	0.10	72									0	10	20	19	6	1								
5 4	0.31	300									12	70	170	43	3	2								
TOTAL	224.03	179190	1	20	102	174	610	1000	2076	6070	24512	44305	40023	29799	10727	3632	1394	677	160	51	9			

TABLE C3
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT RESIGN PHASE

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 1	0.20	199							4	5	13	34	16	13	6	3	4	5	1	1		
1 2	2.30	1455			1	3	16	25	62	113	196	316	241	190	124	78	44	28	5	9	2	
1 3	0.47	9965		1	4	25	58	103	198	400	693	1173	1884	292	504	254	149	153	44	28	4	
1 4	12.04	9167	4	4	16	47	149	192	305	705	1278	1488	1499	1249	832	444	268	224	93	34	12	
1 5	10.03	7616		3	16	24	90	181	331	629	1076	1400	1201	1071	643	399	204	188	74	45	19	1
1 6	4.28	5198			11	18	69	97	215	419	794	972	873	793	423	281	184	123	38	21	3	
1 7	6.18	4518			4	14	54	72	132	260	495	861	989	646	343	164	116	99	28	18	3	
1 8	6.22	5142			1	7	33	64	143	277	704	1116	1094	819	387	178	98	68	15	11	1	
1 9	5.74	4800			1	7	21	92	136	334	724	997	1030	804	397	194	74	55	11	3		
1 10	0.18	252			1	2	4	6	11	15	43	63	36	42	22	8	5	6	6	6		
2 2	0.10	87			1	1	2	2	2	11	17	8	9	11	3	3	2	3	1			
2 3	1.29	993		1	4	3	13	21	43	65	130	188	168	132	81	33	31	41	9	1		
2 4	0.90	761			1	6	10	13	19	61	105	195	188	103	68	43	20	17	3			
2 5	0.49	480			1	7	6	11	19	47	97	91	66	46	31	30	9	16	8			
2 6	0.10	112				4	9	9	6	10	6	15	13	11	13	6	1	1				
2 8	0.18	77					1	1	1	4	10	34	8	1								
3 2	0.25	160			1	2	9	7	13	11	22	22	20	14	13	7	4	10	5			
3 3	0.85	738		1	2	7	13	14	45	54	100	134	130	92	30	37	33	23	9	7	1	
3 4	1.30	1088			1	1	6	18	26	37	82	132	200	207	145	84	58	64	8	2		
3 5	0.15	135		1	1	1	2	2	6	11	33	18	12	11	7	4	6	2	2			
3 6	0.25	205				1	2	8	6	16	31	29	33	24	24	11	5	10	2	1		
3 7	0.05	49						3	3	7	4	7	1	3	3	7	4	1				
3 9	0.05	42					2	1		5	8	8	5	6	4	1	2					
3 10	0.05	28								2	2	11	1	2	1			2	1			
4 1	0.75	577	1		4	2	4	7	17	41	96	109	111	79	31	30	12	15	4	2	1	1
4 4	0.30	449			1	1	10	7	19	48	65	74	72	84	42	21	9	16	4			
4 5	0.15	114					1	1	8	12	20	19	19	14	7	3	6	6	2			
4 6	0.05	59				1			1	5	13	5	4	2	10	4	4	1				
4 7	0.17	96			2	3	10	4	10	9	9	4	4	7	9	9	5	5	3	1		
5 2	0.17	109					1	3	5	3	20	24	21	18	8	4	6	3	1			
5 3	0.63	517			3	1	14	12	29	47	96	79	43	88	46	41	18	17	8	3		
5 4	0.61	548			1	7	22	17	21	28	84	96	81	69	54	31	18	15	7	2		
5 5	0.15	89			1		1	1	2	4	4	25	18	7	12	6	5	6	3	1		
5 6	0.11	69					1	1	2	6	9	9	9	11	5	3	4	7	2	2		
5 9	0.06	32						2		4	4	4	3	4	3	3						
6 4	0.25	93								4	4	12	3	6	3	3						
6 7	0.05	42	1	1			3	4	7	6	5	4	2	1	1	2	4	3	1	2	7	
7 1	0.10	63				1	3	1	2	7	9	11	7	4	2	3	1	2			1	
7 4	0.39	388			2		2	10	14	22	30	49	33	42	29	21	19	14	5			
7 5	0.05	26							1	1	4	11	6	5		1						
7 6	0.05	50							1	1	5	10	14	6	5	1	2					
TOTAL	67.57	52335	6	12	81	185	651	979	1929	4164	7381	9999	9274	7400	4367	2313	1389	1235	688	200	48	4

TABLE C1
DISTRIBUTION OF ENGINE LEAD FACTORS
PER TON
LANDING COLLISION ENGINE PHASE
FOR AIRCRAFT ASSIGNED TO
COVER AFD, CALAMAS

Table C1: Distribution of engine lead factors per ton. Columns include 'CO-PH BLOCK', 'BLOCK TIME (MIN.)', 'TOTAL PAGES', and 19 lead factor categories from 0.0 to 2.0. The total pages sum to 144811.

TABLE C2
DISTRIBUTION OF ENGINE LEAD FACTORS
PER TON
TOUCH-DOWN GEAR ENGINE PHASE
FOR AIRCRAFT ASSIGNED TO
COVER AFD, CALAMAS

Table C2: Distribution of engine lead factors per ton for touch-down gear engine phase. Columns include 'CO-PH BLOCK', 'BLOCK TIME (MIN.)', 'TOTAL PAGES', and 19 lead factor categories from 0.0 to 2.0. The total pages sum to 11990.

TABLE C3
DISTRIBUTION OF ENGINE LEAD FACTORS
PER TON
LANDING IMPACT ENGINE PHASE
FOR AIRCRAFT ASSIGNED TO
COVER AFD, CALAMAS

Table C3: Distribution of engine lead factors per ton for landing impact engine phase. Columns include 'CO-PH BLOCK', 'BLOCK TIME (MIN.)', 'TOTAL PAGES', and 19 lead factor categories from 0.0 to 2.0. The total pages sum to 13469.

TABLE C7a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR AIRCRAFT ASSIGNED TO
TOWER AFB, OKLAHOMA

CO-PU BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																						
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 1	33.71	1070								1	1	9	20	127	431	987	140	66	9	3	2				
1 2	33.44	5770									4	19	109	169	2900	2900	101	26	7						
1 3	33.75	17100									1	4	39	499	7104	8997	701	35	8	1					
1 4	33.97	22000								2	4	10	80	847	8487	11764	1743	220	33	7					
1 5	33.97	23440									1	3	41	611	9471	12433	825	51	3		1				
1 6	33.71	21440										10	67	699	9700	10571	643	76	2		1				
1 7	33.97	18800									2	11	70	689	7991	9409	644	55	7	1					
1 8	33.97	2041											4	60	1891	1203	79	5	1						
1 9	33.97	17900								3	5	31	114	766	4906	8633	787	111	30	7	2				
1 10	33.97	75											4	21											
1 11	33.97	194											6	12	87	73	5	1							
1 12	33.97	701													239	643	3								
1 13	33.97	1													2	1									
1 14	33.97	462												2	266	234									
1 15	33.97	340												3	190	187									
1 16	33.97	230													15	144	95	1							
1 17	33.97	170													2	99	79	2							
1 18	33.97	23														10	5								
1 19	33.97	5														1	4								
1 20	33.97	1192									6	31	139	336	479	173	78	6							
1 21	33.97	60													14	23	1								
1 22	33.97	640									1	14	67	407	69	109	270	27	2	1					
TOTAL	3339.71	136122	1					6	14	97	407	4496	41791	60809	5867	656	109	20	5						

TABLE C7b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR AIRCRAFT ASSIGNED TO
TOWER AFB, OKLAHOMA

CO-PU BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																						
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.44	466									2	12	23	100	204	95	7	2	1						
1 3	0.40	2740									8	40	150	324	1139	596	61	16	6	1					
1 4	11.75	6634				2	3	2	33	120	470	2114	2695	939	185	49	12	7							
1 5	33.30	8107								8	73	449	2835	3627	1919	149	22	2	1						
1 6	33.66	11970			1	2	5	10	40	170	600	4047	4930	1512	290	40	17	5	1						
1 7	0.35	8817						2	1	0	76	307	1647	1911	697	111	11	4							
1 8	1.23	1867						3	5	20	130	619	889	241	32	4									
1 10	33.30	10040		1	1	1	10	13	63	341	2045	4127	7329	2089	406	70	19	6						1	
1 9	1.43	1070				1		1	2	1	5	82	393	640	122	12	3								
1 8	0.49	380								5	2	31	137	124	35	3				1					
1 9	0.33	277								1	2	24	95	110	41	8									
1 10	0.49	231									22	53	45	80	24	7	1								
1 6	0.44	262				1			1		12	79	64	37	7					1					
1 8	1.40	640				1	1	4	11	64	84	199	192	113	63	10	4	1	2	1					
1 9	2.40	340								2	20	139	132	81	6	2									
1 10	1.02	1101						2	4	14	30	143	205	373	154	49	15	4	3						
TOTAL	104.87	46173	1	1	9	11	40	200	887	9061	19775	24167	8100	1699	261	71	21	5	2						

TABLE C7c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR AIRCRAFT ASSIGNED TO
TOWER AFB, OKLAHOMA

CO-PU BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																						
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 1	1.00	904								1	3	8	14	33	345	230	104	33	14	3	1				
1 2	11.40	9299								1	7	22	100	901	1901	1963	930	127	20	7	2				
1 3	20.30	13040								4	7	19	80	279	1207	4040	9499	1926	272	63	21	5			
1 4	20.37	10111			1	3	9	12	77	329	1709	5120	5170	2000	484	84	21	5							
1 5	29.73	15999								3	21	80	380	1861	5262	9463	2100	940	119	21	12	1			
1 6	10.40	12999								4	10	30	319	1304	4287	4340	1990	167	92	32	5				
1 7	20.12	18000								3	17	73	430	1893	4699	9667	1903	405	113	47	10	2			1
1 8	0.44	647									2	12	65	152	171	289	107	72	30	8	4				
1 2	0.30	349											9	31	154	151	66	6	7						
1 4	2.21	1040											60	360	467	100	1								
1 9	0.40	974								2	1	3	14	66	219	187	66	5	1						
1 3	2.03	1001										9	29	113	380	398	169	30	10	3	1				
1 4	1.63	382											3	24	197	139	53	11	1						
1 7	0.44	277											2	24	60	82	39	12	1	7	1				
TOTAL	140.42	89014	1	7	10	30	90	904	1907	9143	20663	30166	10491	2940	942	170	54	5	2						

TABLE C7d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TOUCH-AND-GO ROLL REVISION PHASE
FOR AIRCRAFT ASSIGNED TO
TINER AFB, OKLAHOMA

CO-PILOT BLOCK NUMBER	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 1	0.45	221						1	1	13	14	69	37	66	15	4	1					
1 2	3.46	2242					2	5	48	155	324	599	526	792	160	66	16	1				
1 3	21.19	15671		4	12	21	59	95	340	976	2300	3895	3520	2516	1191	461	179	97	27	5		
1 4	31.26	26707	1	15	72	118	276	304	817	1585	3516	4797	5534	6409	2118	1058	500	366	103	36	9	
1 5	20.89	16039		3	9	42	80	200	709	2014	4487	4527	2666	937	706	100	63	4				
1 6	3.31	2691				1	2	7	17	55	160	300	614	660	483	215	72	15	2			
1 7	27.72	21151					15	62	226	816	2740	5714	6792	3496	954	239	64	25	4	4		
1 8	43.71	36387			4	7	60	127	316	1931	5026	10091	11221	5911	1748	300	94	60	3			
1 9	40.73	33640			3	6	76	60	239	1122	4190	9482	11065	5487	1456	316	69	19	1			
1 10	1.77	1949				1	1	6	27	124	270	303	377	290	99	37	10	1				
TOTAL	194.64	146300	1	19	95	164	488	846	2310	7091	20074	40993	44267	27496	9901	2925	1050	589	139	95	9	

TABLE C7e
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT REVISION PHASE
FOR AIRCRAFT ASSIGNED TO
TINER AFB, OKLAHOMA

CO-PILOT BLOCK NUMBER	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 1	3.29	199							6	5	13	34	16	13	6	3						
1 2	1.70	1092			1	1	13	15	31	67	145	236	176	146	91	65	34	20	1	1		
1 3	5.40	3075		1	1	14	24	55	101	204	381	641	729	559	319	144	75	73	17	10	5	
1 4	6.81	5030		4	9	20	41	100	201	309	702	979	800	795	453	236	151	97	19	12	7	
1 5	4.00	3957		1	6	8	26	64	129	262	490	768	700	406	276	131	86	60	25	14	4	1
1 6	1.95	1560			5	7	13	24	39	113	223	326	326	232	114	65	40	24	5	3	1	
1 7	5.08	4315			4	14	31	67	120	352	644	828	800	616	323	154	108	87	26	18	1	
1 8	6.22	5847			1	7	33	64	143	377	744	1114	1094	819	387	178	90	64	15	11	1	
1 9	5.71	4750			1	6	20	50	132	326	719	991	1026	708	395	149	73	51	10	8		
1 10	0.35	257			1	2	4	6	11	15	45	43	36	42	22	8	5	6	6			
1 7	0.25	10									3	17	6	1	1	1	3	5				
3 4	0.15	115								9	10	34	20	16	4	8	2	4				
1 9	0.35	42						2	1	5	8	8	5	6	4	1	2	4				
4 3	0.70	151						2	3	13	22	20	24	18	18	11	4	4	1			
4 4	0.15	76						1	1	2	4	9	14	14	5	3	2	1				
4 7	0.15	31						1	3	4	2	3	3	1	1	1	1	1	1	1		
TOTAL	99.89	10101	6	30	70	244	495	995	2246	4387	6795	9040	6473	2621	1150	682	506	148	85	23	1	

TABLE C8a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR AIRCRAFT ASSIGNED TO
TRAVIS AFB, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PFAS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 2	37.45	481							3	28	219	204	14	10										
1 3	37.97	4510							1	18	215	1858	2244	182	12									
1 4	37.45	1767								1	78	612	1026	48	2									
1 5	37.36	4271							1	11	117	1604	2987	216	15									
1 6	186.12	6627									10	284	2893	3252	183	4	1							
1 7	54.38	914										4	272	622	17									
1 8	119.72	1956							1	7	74	1441	1719	103	6	2	1							
1 10	68.74	648										7	390	288							1	2		
2 2	31.49	96										6	33	52	4									
2 3	71.40	1980							1	4	6	51	623	1199	64	7	1	1	2	1				
2 4	35.34	490										6	164	275	34	1								
2 5	35.41	1132									1	37	537	599	16	1								
2 6	12.74	166										2	113	241	17									
2 7	7.55	114										2	78	33	1									
2 8	47.72	887										12	327	507	37	3								
2 9	31.73	591										8	65	213	273	29	2	1						
2 10	117.67	4844							1	5	60	481	1868	2214	289	31	7	2						
3 2	10.71	1227							1	25	163	465	687	79	11	1								
3 3	34.99	288										19	122	136	11									
3 4	47.31	464										24	204	229	17									
3 5	29.67	1274									1	5	72	436	645	62	5							
3 6	6.77	61										4	21	17										
3 7	5.13	42										2	19	21										
3 8	33.69	827										8	64	334	322	84	11	4						
3 9	7.75	781										5	72	253	288	66	18	4						
3 10	124.54	4788							1	6	37	260	1767	1899	273	27	9	1						
4 3	7.89	6											3	3										
4 4	5.74	397										7	126	212	5									
4 6	13.64	116											37	79										
4 8	3.74	863											43	413	387	19	1							
4 9	6.97	18											8	19										
4 10	6.71	15											1	25	9									
5 3	39.94	832										1	31	414	379	6	1							
5 4	68.77	645											20	346	274	5								
5 6	10.61	103									1	2	68	31	1									
5 8	44.70	435											4	219	213									
5 9	10.37	172											1	64	107	5	1							
5 11	5.77	1078											1	64	107	5	1							
7 3	13.77	138									5	3	31	26	148	332	374	122	57	17	10	3		
7 4	47.28	588												19	51	62	6							
7 5	4.22	51												15	162	370	11							
7 6	10.99	145												5	114	25								
7 7	3.89	126													37	96								
7 8	28.64	886												1	45	488	354	75	3					
7 9	16.36	293													118	175								
TOTAL	1686.51	48993																						

TABLE C8b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR AIRCRAFT ASSIGNED TO
TRAVIS AFB, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PFAS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 3	0.61	368								8	16	60	117	121	36	15	8							
1 4	0.79	456								1	4	31	140	194	68	8								
1 5	4.00	2671										12	24	104	374	778	848	339	135	15	14	1		
1 6	0.56	4149											18	27	113	449	1780	1441	621	140	36	12	7	
1 7	2.14	1287											2	12	32	182	339	418	173	42	6	1		
1 8	0.75	4676												1	3	25	41	118	233	513	1290	1324	662	241
1 11	2.52	2136													1	3	14	35	122	330	612	548	317	113
2 4	0.39	267																						
2 5	0.46	484																						
2 7	0.96	891																						
2 8	2.79	1236																						
2 9	2.16	1775																						
2 10	13.81	8814																						
3 5	1.52	923																						
3 7	0.47	297																						
3 8	7.12	1750																						
3 9	0.59	696																						
3 11	12.14	7461																						
4 6	0.58	422																						
4 8	2.44	551																						
4 10	0.71	567																						
5 6	0.53	887																						
5 8	4.23	3292																						
5 9	0.61	474																						
5 10	0.55	549																						
7 4	0.47	358																						
7 5	0.67	948																						
7 7	0.99	682																						
7 8	2.74	2453																						
7 9	1.38	1188																						
TOTAL	76.51	58954																						

TABLE C85
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR AIRCRAFT ASSIGNED TO
 TRAVIS AFB, CALIFORNIA

CU-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.21	1992				1	1	7	12	86	291	641	699	106	60	24	8	5	1		
1 3	11.27	6430				3	20	16	109	204	779	1742	1993	930	295	90	101	97	1		
1 4	13.50	7171					15	35	60	204	914	2090	2295	1011	320	112	26	26	1		
1 5	11.79	6480					1	16	97	216	820	1710	2196	1095	321	71	25	4			
1 6	14.99	8642						4	11	93	216	946	3116	2963	995	265	50	12	3		
2 2	1.72	664						1	13	27	60	149	300	118	46	15	6	4			
2 3	13.91	4932	1	4	7	14	22	30	72	303	1130	1761	434	110	60	22	27	6	1		
2 4	6.71	2764					1	17	43	290	890	820	567	164	49	12	3				
2 5	3.16	2176				3	8	29	62	124	390	486	684	269	94	51	26	9	1		
2 6	1.41	1909			1	8	43	20	47	131	299	294	397	225	80	33	16	5	2		
2 8	1.47	502						5	6	16	71	162	166	93	15	4	3	1			
3 2	1.60	790				1	10	8	29	90	197	199	290	85	24	15	5	4	1		
3 3	7.79	4163				2	14	29	70	169	948	1170	1345	937	194	90	29	24	9	5	
3 4	6.20	3971				1	14	16	90	168	970	1162	1240	471	120	52	20	8	2	6	
3 5	0.67	777	3	9		6	39	19	96	66	132	90	126	110	69	47	24	15	4	5	1
3 6	1.41	776						1	2	6	11	104	299	301	74	16	2	1	3		
3 7	0.66	471							1	5	12	89	117	146	80	19	6				
3 10	0.91	322									3	29	136	63	62	11	2				
4 3	0.51	260							1	5	9	31	93	73	34	13					
4 4	1.29	1104						1	4	13	31	167	395	291	172	43	16	7	4		
5 3	3.27	1976						5	11	24	41	152	429	471	303	84	40	13	3		
5 4	4.10	2749			6	2	17	26	90	181	491	640	794	300	124	42	10	5	6	2	
5 6	2.20	1947						1	5	24	77	290	466	521	120	45	8	3	7	1	1
7 3	1.35	801	1	3	9	19	9	27	40	163	122	210	116	32	19	8	6	9	2		
7 4	3.42	3269						6	20	108	344	953	944	686	212	75	16	10	7	2	
7 5	1.01	716						4	4	17	82	282	233	66	23	1	2	1	1		
7 6	0.63	894						2	1	17	67	199	226	242	92	22	6	1	3		
TOTAL	125.34	66500	5	24	43	229	335	944	2510	8539	18942	21309	9177	2769	956	487	225	50	25	1	

TABLE C86
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TOUCH-AND-GO ROLL MISSION PHASE
 FOR AIRCRAFT ASSIGNED TO
 TRAVIS AFB, CALIFORNIA

CU-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	1.37	895			2	1	7	7	29	66	190	160	206	147	71	32	15	4			
1 4	2.01	1740					4	13	30	113	254	349	486	341	149	56	21	13	1		
1 5	3.90	4084			1		11	25	63	231	593	1110	890	737	340	85	33	8	1		
1 6	4.04	1707						7	10	50	196	950	1053	782	605	272	95	24	6	1	
1 7	1.20	926							1	25	125	295	240	184	66	8	2	2			
TOTAL	16.12	11360			3	1	29	63	175	629	1680	2973	2470	2094	878	236	95	31	3		

TABLE C87
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR AIRCRAFT ASSIGNED TO
 TRAVIS AFB, CALIFORNIA

CU-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.27	134				1	1	9	8	7	18	19	23	16	12	7	7	2	3	1	
1 3	0.64	463				1		11	33	67	109	95	92	92	47	35	25	26	13	8	
1 4	0.95	795				1	6	28	24	41	71	113	92	105	68	62	20	35	19	6	1
1 5	1.35	994				1	3	9	26	94	96	191	197	116	153	90	61	35	23	10	8
1 6	1.30	1032						2	13	19	42	79	165	160	167	157	89	65	32	27	16
1 7	0.15	110							5	13	15	23	11	9	10	5	3	9	2		
2 2	0.19	87							2	11	17	8	9	9	11	3	5	2	3	1	
2 3	0.60	470			1	4	2	11	11	22	25	67	97	69	50	37	22	17	21	5	1
2 4	0.37	272						2	5	3	8	27	33	90	42	36	20	16	12	8	2
2 5	0.20	274				1	2	6	8	12	29	28	20	31	20	20	15	9	11	8	
2 6	0.17	112						4	9	9	6	10	6	15	13	11	15	6	1	1	
2 8	0.17	77							1	1	4	10	18	34	8	1					
3 2	0.10	80						1	2	8	6	9	11	3	11	7	9	4	1	4	3
3 3	0.50	502			1	2	6	8	9	34	33	72	84	89	53	31	27	26	10	6	2
3 4	0.35	285						1	3	7	10	26	44	47	20	30	24	13	16	13	2
3 5	0.05	50								1	2	2	15	7	3	5	4	4	2	3	1
3 6	0.75	57							1	2	2	3	10	6	12	6	4	4	1	1	2
3 7	0.05	49								5	7	4	7	7	1	3	3	7	4	1	1
3 10	0.05	20									2	2	11	1	2	1					
4 3	0.05	15									2	4	5	2	11	7	2	2			
4 4	0.10	102								7	13	16	11	13	26	9	1	3	1	1	
5 3	0.27	187						1	8	6	10	10	21	36	12	22	16	7	8	4	2
5 4	0.27	205						1	14	8	10	15	23	16	23	25	22	5	6	5	
5 6	0.17	69							1	1	2	6	9	9	5	11	5	3	4	7	2
7 3	0.10	63							1	2	7	7	9	11	7	4	2	3	1	2	
7 4	0.30	306							2	2	10	16	22	30	49	33	42	29	21	19	16
7 5	0.15	26									1	4	11	4	5			1			
7 6	0.35	50								1	1	5	10	14	6	5	1	2			
TOTAL	8.53	7849			2	18	37	145	100	366	605	1025	1080	974	945	599	402	271	246	116	64

TABLE C6
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF PHASE
FOR DATA ACQUIRED AT
ALYUS AFB, OKLAHOMA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.50	700								4	240	443	21									
1 5	7.25	143									63	90										
1 7	1.10	9									2	7										
TOTAL	10.90	852								4	305	540	21									

TABLE C7
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN PHASE
FOR DATA ACQUIRED AT
ALYUS AFB, OKLAHOMA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.35	315								5	26	107	109	40	17	2	1					
1 5	0.36	247									5	102	120	11	1							
TOTAL	0.71	562								5	31	209	229	50	18	2	1					

TABLE C8
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT PHASE
FOR DATA ACQUIRED AT
ALYUS AFB, OKLAHOMA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.00	650							7	15	56	190	196	130	64	5					2
1 5	0.40	795								3	74	140	110	8	1		1				
1 7	0.00	451									16	172	216	46	3						
TOTAL	2.16	1496							7	18	96	310	326	182	68	5	1	1	2		

TABLE C9
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TOUCH-AND-GO ROLL PHASE
FOR DATA ACQUIRED AT
ALYUS AFB, OKLAHOMA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 5	2.00	1003					2	6	16	52	132	476	690	175	97	27	9	1				
1 7	0.27	163						3	2	6	37	50	30	20	9	3	1					
1 9	1.17	700						2	6	22	123	100	362	150	24	1						
TOTAL	3.37	1766					2	11	24	90	292	692	980	293	98	31	10	1				

TABLE C10
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT PHASE
FOR DATA ACQUIRED AT
ALYUS AFB, OKLAHOMA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.05	41						1	7	3	4	7	6	4								
1 5	0.35	200							9	9	36	78	62	35	10	8	3	2				
1 7	0.10	40					1	1	1	2	4	13	14	7	1	4						
1 9	0.20	126				1	1	1	7	14	19	13	20	19	10	0	2	3	1			
TOTAL	0.70	407				1	1	2	23	23	63	100	131	67	25	25	5	9	1			

TABLE C10a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TANG-BEEBEN PHASE
FOR DATA ACQUIRED AT
ARHILLIS APARTMENT, TEXAS

CO-PO BLOCK BLOCK TYPE (SQ. FT.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.0		
1 3 0-10	240																		107	130		
1 4 0-07	1237																		11	400	611	9
1 5 0-00	80																			42	40	3
TOTAL	1657																		11	790	700	12

TABLE C10b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TANG-BOB AND BISHOP PHASE
FOR DATA ACQUIRED AT
ARHILLIS APARTMENT, TEXAS

CO-PO BLOCK BLOCK TYPE (SQ. FT.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																							
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.0					
1 3 0-01	240																		3	16	80	100	30	7	
1 4 0-17	993																		2	13	262	297	70	0	1
1 5 0-00	179																		2	3	77	70	17	1	1
TOTAL	1412																		7	22	399	467	127	16	1

TABLE C10c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LAWRENCE HILL-BOB PHASE
FOR DATA ACQUIRED AT
ARHILLIS APARTMENT, TEXAS

CO-PO BLOCK BLOCK TYPE (SQ. FT.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																											
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.0									
1 3 0-01	470																		1	0	34	170	100	90	10				
1 4 0-20	1316																		2	27	111	267	460	90	20	3	1		
1 5 0-07	200																		2	7	27	121	80	24	10	1	1		
TOTAL	2076																		3	4	40	177	370	700	120	40	4	1	1

TABLE C10d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TANG-AND-BOB PHASE
FOR DATA ACQUIRED AT
ARHILLIS APARTMENT, TEXAS

CO-PO BLOCK BLOCK TYPE (SQ. FT.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																																
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.0														
1 2 0-00	171																			7	11	67	43	20	20	10	1	1						
1 3 0-01	603																			11	24	17	123	120	80	30	11	0	1					
1 4 0-20	620																			0	20	87	270	270	11	20	0	3	1					
1 5 0-00	1210																			19	120	400	300	100	30	0	3	0	1					
1 7 0-00	1701																			0	0	27	407	420	240	60	10	0	1					
1 8 0-10	6940																			11	20	70	342	1010	2770	2710	1010	420	90	10	10	1		
1 9 0-00	7310																			1	1	2	10	30	1000	1000	2000	1100	200	7	1	1		
1 10 0-07	800																			0	17	80	100	120	270	100	90	0	1	1				
TOTAL	20007																			2	0	10	90	100	377	1027	1070	4070	1010	910	200	40	10	1

TABLE C10e
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LAWRENCE HILL-BOB PHASE
FOR DATA ACQUIRED AT
ARHILLIS APARTMENT, TEXAS

CO-PO BLOCK BLOCK TYPE (SQ. FT.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																																
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.0														
1 2 0-00	19																			1	3	3	0	0	1	1	1	1	1	1	1	1		
1 3 0-07	107																			3	20	10	20	20	20	10	10	0	3	1	1	1		
1 4 0-00	200																			3	10	10	40	40	10	10	0	0	1	1	1	1		
1 5 0-00	110																			2	10	20	40	40	40	40	10	0	0	1	1	1		
1 7 0-00	200																			1	1	2	0	21	10	40	20	22	11	0	1	1	1	
1 8 0-07	1000																			1	11	10	97	117	210	201	200	250	100	40	30	10	0	1
1 9 0-00	600																			11	10	40	71	142	170	170	170	70	20	20	10	0	1	
1 10 0-00	100																			0	0	0	0	22	10	20	20	10	0	0	0	0	0	
TOTAL	2000																			0	7	10	90	100	300	300	400	400	200	111	01	00	20	0

TABLE C11a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF PHASE
 FOR DATA OBTAINED AT
 AMERICAN SO. GUAM

CD-FW BLOCK	BLOCK TIME (HR.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																								
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0					
1 3	0.06	46											3	40													
1 8	0.07	0																									
1 10	7.30	140													124	21											
2 3	11.73	69													1	22	40										
2 8	11.09	1															1										
2 9	7.50	30													1	16	21										
3 4	5.72	4															3										1
TOTAL	66.67	297													2	169	129										1

TABLE C11b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN REVISION PHASE
 FOR DATA OBTAINED AT
 AMERICAN SO. GUAM

CD-FW BLOCK	BLOCK TIME (HR.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																								
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0					
1 8	0.42	299								1	4	29	109	122	29	3											
1 10	0.07	373								1	17	93	140	129	55	1	1										
2 3	0.31	194									3	17	36	50	20	6	2										
2 9	0.30	242									3	10	97	83	49												
TOTAL	1.00	1008								2	27	100	402	304	127	10	3										

TABLE C11c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT REVISION PHASE
 FOR DATA OBTAINED AT
 AMERICAN SO. GUAM

CD-FW BLOCK	BLOCK TIME (HR.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																									
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0						
1 3	0.00	201																										
2 3	1.14	314						1			4	30	117	127	20	4	3	2										1
2 8	0.01	121									2	10	49	47	10	2	1											
3 4	0.77	130									2	15	46	43	25	3	1	1										1
TOTAL	3.70	666						1			8	60	314	307	77	12	7	5	1	2								

TABLE C11d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TOUCH-DOWN ROLL REVISION PHASE
 FOR DATA OBTAINED AT
 AMERICAN SO. GUAM

CD-FW BLOCK	BLOCK TIME (HR.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																									
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0						
2 3	0.29	190								1	0	10	32	30	23	29	12	7	1									
2 4	0.16	72										0	10	20	19	0	1	1										
TOTAL	0.44	262								1	0	10	42	50	42	42	12	8	1									

TABLE C11e
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING SHORT REVISION PHASE
 FOR DATA OBTAINED AT
 AMERICAN SO. GUAM

CD-FW BLOCK	BLOCK TIME (HR.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																									
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0						
1 3	0.00	37																										
2 3	0.10	114						1	2	7	7	17	13	13	10	10	3	1	4	2								
2 4	0.00	31																										
2 8	0.00	26																										
3 4	0.00	29																										
TOTAL	0.30	233						1	2	7	14	34	36	33	29	17	10	4	11	6	3							

TABLE C1a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
ANDREWS AFB, WASHINGTON, D.C.

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																						
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0			
1 3	0.30	300								19	141	109		7											
1 4	0.29	41								2	21	10													
1 6	13.69	561								9	239	310		7											
2 3	5.29	69									13	54		2											
3 9	1.67	39									7	20													
3 10	2.86	69										10	51												
4 4	0.60	23										11	12												
4 10	5.90	190											2	60	120									1	
TOTAL	40.50	1344									29	319	779		17										

TABLE C1b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
ANDREWS AFB, WASHINGTON, D.C.

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																						
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0			
1 3	0.33	279								0	16	40	60	74	30	14	0	0							
1 4	0.33	77										0	30	10											
3 9	0.68	930									5	42	105	199	90	0									
4 10	0.70	799						1	2	11	26	117	160	190	141	74	10	0	3						
TOTAL	2.74	1685						1	2	19	79	199	441	570	271	97	20	17	3						

TABLE C1c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OFF MISSION PHASE
FOR DATA ACQUIRED AT
ANDREWS AFB, WASHINGTON, D.C.

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 6	1.92	1274						1		10	50	171	293	274	173	94	21	1	1					
2 3	0.65	304									1	20	120	163	40	16	2							
4 4	0.02	3											3											
4 5	0.01	330										13	144	194	16	3								
TOTAL	3.30	1991						1		10	64	212	663	714	287	75	25	1	1					

TABLE C1d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING SHORT MISSION PHASE
FOR DATA ACQUIRED AT
ANDREWS AFB, WASHINGTON, D.C.

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 6	0.10	109					1	2	3	4	10	19	35	17	15	11	5	4	2	1				
2 3	0.05	41								1	0	5	10	5	0	0								
4 5	0.05	14								1	0	0	3	1	3	1	1							
TOTAL	0.20	164					1	2	3	5	15	20	25	22	20	17	6	5	2	1				

TABLE C14a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI HOODING PHASE
 FOR DATA ACQUIRED AT
 ASCENSION ISLANDS, S. ATLANTIC

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 3	3.02	14									1	0	3									
7 9	3.36	106										40	30									
TOTAL	7.48	120									1	30	63									

TABLE C14b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 ASCENSION ISLANDS, S. ATLANTIC

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 9	0.32	322									3	20	109	114	13	1						
TOTAL	0.32	322									3	20	109	114	13	1						

TABLE C14c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 ASCENSION ISLANDS, S. ATLANTIC

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 3	0.46	201									3	22	86	69	14	3						
TOTAL	0.46	201									3	22	86	69	14	3						

TABLE C14d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 ASCENSION ISLANDS, S. ATLANTIC

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
2 3	0.05	47									3	4	13	11	3	6	3						
TOTAL	0.05	47									3	4	13	11	3	6	3						

TABLE C13
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF PHASE
FOR DATA ACQUIRED AT
DEALT AFB, CALIFORNIA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																							
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0				
1 5	1.14	12																								
1 6	17.01	1151								5	78	628	423	15												
TOTAL	18.15	1163								5	78	631	438	16												

TABLE C13a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
DEALT AFB, CALIFORNIA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																							
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0				
1 5	0.45	147								5	4	69	55	12	2											
1 6	0.40	209									29	90	82	17	1											
TOTAL	0.85	356									33	169	137	29	3											

TABLE C13c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
DEALT AFB, CALIFORNIA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																							
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0				
1 6	2.49	1135					1	2	12	24	109	361	306	149	73	15										
TOTAL	2.49	1135					1	2	12	24	109	361	306	149	73	15										

TABLE C13d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TOUCH-DOWN ROLL MISSION PHASE
FOR DATA ACQUIRED AT
DEALT AFB, CALIFORNIA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																							
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0				
1 6	1.25	801								8	33	130	283	316	90	12	1									
1 7	0.42	248									25	105	107	31	2											
TOTAL	1.67	1049									33	155	390	423	129	14	1									

TABLE C13e
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
DEALT AFB, CALIFORNIA

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																							
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0				
1 6	0.25	107					4	5	0	10	20	24	31	33	20	4	4	4	3	4	1					
1 7	0.25	36					4	5	0	1	4	3	0	6	5	4	2	2	2	2	1					
TOTAL	0.50	143					8	10	0	11	24	27	37	39	25	8	6	6	5	6	2					

TABLE C16a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN RESONANCE PHASE
FOR DATA ACQUIRED AT
SIEM HIA A/F, VIETNAM

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 0	0.00	19																				
4 4	3.42	247									7	170	200	5							2	
4 0	3.75	688									43	413	207	10	1							
4 9	0.07	10										0	10									
7 5	0.42	39										21	24									
7 6	10.50	140									5	114	25							1		
TOTAL	27.25	1423									55	604	626	24	1	1	2					

TABLE C16b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN RESONANCE PHASE
FOR DATA ACQUIRED AT
SIEM HIA A/F, VIETNAM

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 0	0.44	294									5	44	91	132	75							1
4 0	0.04	551									12	27	117	118	140	96	32					
TOTAL	1.12	845									12	50	161	290	261	119	32					

TABLE C16c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT RESONANCE PHASE
FOR DATA ACQUIRED AT
SIEM HIA A/F, VIETNAM

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
0 4	0.04	753							2	0	25	127	230	107	114	24	7	5	2			
7 5	1.01	716							4	4	17	82	202	233	66	23	1	2	1	1		
7 6	0.03	894						2	1	17	47	193	224	242	92	22	4	1	3	1		
TOTAL	2.08	2323						2	7	29	69	404	700	642	276	69	14	8	6	1		

TABLE C16d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT RESONANCE PHASE
FOR DATA ACQUIRED AT
SIEM HIA A/F, VIETNAM

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
4 4	0.05	52									3	0	4	10	7	14						
7 5	0.05	26										1	1	6	1							
7 6	0.05	50									1	1	9	19	14	6	3					
TOTAL	0.15	128									1	4	14	29	26	17	24					

TABLE C17:
DISTRIBUTION OF GROUND LEAD FACTORS
FOR THE
YARD OFFICE RESEARCH PHASE
FOR DATA ACQUIRED AT
CAMDEN AFB, NEW MEXICO

CU-FU BLOCK	BLOCK TIME (HRS.)	TOTAL PEAKS	LEAD FACTOR DISTRIBUTION (%)																			
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.20	1.50	1.80	2.00		
1 4	0.30	304													0	17	21	100	200	20	14	0
1 8	0.30	600													0	0	0	500	500	7	1	0
1 4	11.17	104													0	0	10	20	27	5	1	0
TOTAL	25.00	1008													0	17	31	500	700	32	16	0

TABLE C17:
DISTRIBUTION OF GROUND LEAD FACTORS
FOR THE
YARD OFFICE RESEARCH PHASE
FOR DATA ACQUIRED AT
CAMDEN AFB, NEW MEXICO

CU-FU BLOCK	BLOCK TIME (HRS.)	TOTAL PEAKS	LEAD FACTOR DISTRIBUTION (%)																					
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.20	1.50	1.80	2.00				
1 4	0.30	307														1	1	10	30	27	91	60	25	0
1 8	0.30	799														1	3	7	37	210	307	100	11	2
TOTAL	1.37	1006														2	4	17	67	297	400	161	36	0

TABLE C17:
DISTRIBUTION OF GROUND LEAD FACTORS
FOR THE
LANDING HELICOPTER RESEARCH PHASE
FOR DATA ACQUIRED AT
CAMDEN AFB, NEW MEXICO

CU-FU BLOCK	BLOCK TIME (HRS.)	TOTAL PEAKS	LEAD FACTOR DISTRIBUTION (%)																					
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.20	1.50	1.80	2.00				
3 4	1.30	623														0	0	46	213	100	10			
TOTAL	1.30	623														0	0	46	213	100	10			

TABLE C17:
DISTRIBUTION OF GROUND LEAD FACTORS
FOR THE
LANDING HELICOPTER RESEARCH PHASE
FOR DATA ACQUIRED AT
CAMDEN AFB, NEW MEXICO

CU-FU BLOCK	BLOCK TIME (HRS.)	TOTAL PEAKS	LEAD FACTOR DISTRIBUTION (%)																					
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.20	1.50	1.80	2.00				
3 4	0.10	91														0	0	27	25	11	3	0	2	0
TOTAL	0.10	91														0	0	27	25	11	3	0	2	0

TABLE C10
 DISTRIBUTION OF GROUND LEAD FACTORS
 FOR THE
 FOUR-AND-ONE HALF MESSERS PHASE
 FOR DATA ACQUIRED AT
 CANNONDA AFB, TEXAS

CD-FW BLOCK	BLOCK TYPE (HELI.)	TOTAL PEAKS	LEAD FACTOR DISTRIBUTION (%)																				
			0.0	0.5	0.1	0.4	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 7	0.75	203					2	2	4	21	70	100	100	70	10	0	3	2					
1 8	0.25	2000							10	65	202	500	571	342	80	11							
1 9	0.25	200							7	17	80	100	100	90	10	4							
1 10	0.25	202						1	0	25	73	65	32	73	50	20							
TOTAL	1.00	2402					2	2	21	105	340	540	600	400	170	20	0	2					

TABLE C10
 DISTRIBUTION OF GROUND LEAD FACTORS
 FOR THE
 LANDINGS IMPACT MESSERS PHASE
 FOR DATA ACQUIRED AT
 CANNONDA AFB, TEXAS

CD-FW BLOCK	BLOCK TYPE (HELI.)	TOTAL PEAKS	LEAD FACTOR DISTRIBUTION (%)																					
			0.0	0.5	0.1	0.4	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 7	0.10	60								2	17	15	10	13	4									
1 8	0.20	242						3	10	21	37	60	51	34	14	0	3	4						
1 9	0.10	60							1	4	12	14	20	10	4	1								
1 10	0.05	24								1	4	7	6	3	3									
TOTAL	0.05	400						3	11	20	70	70	90	60	20	10	5	4						

TABLE C10
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF MISSION PHASE
 FOR DATA ACQUIRED AT
 CHARLEVY AB, FRANCE

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	3	2949								2	27	320	616	1207	293	19	3	1	1			
4	10	2																				
TOTAL	10.12	2951								2	27	320	617	1100	293	19	3	1	1			

TABLE C10b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 CHARLEVY AB, FRANCE

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
4	10	700								1	3	18	98	206	259	91	27	3				
TOTAL	3.65	700								1	3	18	98	206	259	91	27	3				

TABLE C10c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 CHARLEVY AB, FRANCE

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	3	637									1	10	53	164	134	56	20	2				
TOTAL	0.63	637									1	10	53	164	134	56	20	2				

TABLE C10d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 CHARLEVY AB, FRANCE

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	3	53					3		2	1	4	7		9	11	9	3	2	2			
TOTAL	0.05	53					3		2	1	4	7		9	11	9	3	2	2			

TABLE C10
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TANK DESIGN PHASE
PER DATA RECEIVED AT
CLASSIFIED

CU-FU BLOCK BLOCK TIME (HRS.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																						
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 0	0.42	199																						
2 0	7.29	116																						
TOTAL	13.09	275																						

TABLE C11
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TANK-OUT RUN DESIGN PHASE
PER DATA RECEIVED AT
CLASSIFIED

CU-FU BLOCK BLOCK TIME (HRS.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																						
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 0	0.43	101																						
TOTAL	0.43	101																						

TABLE C12
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT DESIGN PHASE
PER DATA RECEIVED AT
CLASSIFIED

CU-FU BLOCK BLOCK TIME (HRS.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																						
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 0	0.09	609																						
TOTAL	0.09	609																						

TABLE C13
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT DESIGN PHASE
PER DATA RECEIVED AT
CLASSIFIED

CU-FU BLOCK BLOCK TIME (HRS.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																						
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 0	0.09	16																						
TOTAL	0.09	16																						

TABLE C31a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
CLINTON-SHERMAN AFB, OKLAHOMA

CD-PU BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.1	0.5	0.6	0.7	0.75	0.80	1.00	1.05	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	00.11	9421							2	10	193	2191	2000	194	9	6							
1 4	07.03	6130						1	2	4	19	227	2970	4461	306	39	10	1					
1 5	20.21	8914						1	1	1	16	208	3654	4169	245	17	2		1				
1 6	26.90	1304										12	984	720	14								
1 7	28.94	974										9	200	621	14								
TOTAL	200.95	24077						1	3	7	53	509	9453	12090	623	63	18	3	1				

TABLE C32a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
CLINTON-SHERMAN AFB, OKLAHOMA

CD-PU BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.1	0.5	0.6	0.7	0.75	0.80	1.00	1.05	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	1.70	909									16	31	305	391	135	20	6	1					
1 4	2.92	1011						1			0	0	80	600	491	19	7						
1 5	2.90	1477									2	9	94	510	500	220	32	5					
1 6	0.77	291						2	1		1	5	43	220	212	55	7	1			1		
1 7	0.47	227										6	84	101	35	1							
TOTAL	6.15	4629						1	2	2	11	30	262	1663	1900	642	79	17	1	1			

TABLE C33a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
CLINTON-SHERMAN AFB, OKLAHOMA

CD-PU BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.1	0.5	0.6	0.7	0.75	0.80	1.00	1.05	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	2.00	1900									3	34	155	540	619	176	40	7	6				
1 4	5.04	3160						2	3	2	23	72	304	1096	1059	482	154	21	3				
1 5	5.53	4000						2	2	0	32	140	521	1251	1261	579	160	30	3	3			
1 6	6.78	1367									0	21	65	171	270	245	162	73	33	12	2		
1 7	1.77	573									2	4	16	74	292	105	63	1	6	2	1		
TOTAL	19.42	10900						2	5	20	60	377	1367	3349	3369	1382	3	97	26	6			

TABLE C34a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TOUCH-DOWN ROLL MISSION PHASE
FOR DATA ACQUIRED AT
CLINTON-SHERMAN AFB, OKLAHOMA

CD-PU BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.1	0.5	0.6	0.7	0.75	0.80	1.00	1.05	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	1.00	5200									20	113	346	693	1270	870	416	114	36	0	1		
1 4	0.24	7074									4	10	41	202	426	1129	1000	1777	1347	682	229	75	31
1 5	0.49	7347									5	20	49	197	411	957	1097	1861	1227	499	176	71	23
1 6	1.00	1092									1	3	10	23	94	219	454	489	293	164	47	10	
1 7	12.17	10912									3	13	56	139	1244	2034	3452	1601	423	90	37	0	
1 8	12.02	10903									4	10	50	270	1400	2100	3300	1700	523	117	25	7	
1 9	12.75	10000									1	4	19	60	260	1304	1704	4146	2133	503	121	27	
1 10	0.31	291										1	2	71	60	65	64	1					
TOTAL	65.64	50300									3	10	60	161	691	2300	7407	19415	16390	9283	3195	902	261

TABLE C35a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
CLINTON-SHERMAN AFB, OKLAHOMA

CD-PU BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.1	0.5	0.6	0.7	0.75	0.80	1.00	1.05	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	1.20	890									2	2	9	22	60	136	182	171	132	70	60	13	10
1 4	1.00	1301									0	7	14	37	100	199	313	280	174	104	60	31	17
1 5	1.04	1000									1	5	6	20	60	197	300	322	171	90	50	36	14
1 6	0.30	277										2	3	6	14	36	72	67	30	10	0	0	1
1 7	1.71	1200										1	10	20	20	111	193	204	319	200	91	50	24
1 8	1.00	1460										2	3	14	30	97	274	340	204	244	114	53	19
1 9	1.07	1704										3	2	9	31	101	200	376	483	370	164	90	13
1 10	0.05	70													7	10	7	0	1	1			
TOTAL	10.29	8904									1	15	32	64	214	619	1109	1000	1237	641	319	164	64

TABLE C34
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE RESIGN PHASE
 FOR DATA ACCUMULATED AT
 DALLAS LOVE FIELD, TEXAS

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.1	0.2	0.4	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 5	0.32	142																						
TOTAL	0.32	142																						

TABLE C35
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN RESIGN PHASE
 FOR DATA ACCUMULATED AT
 DALLAS LOVE FIELD, TEXAS

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.1	0.2	0.4	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 5	0.30	199																						
TOTAL	0.30	199																						

TABLE C36
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OFF RESIGN PHASE
 FOR DATA ACCUMULATED AT
 DALLAS LOVE FIELD, TEXAS

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.1	0.2	0.4	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 5	0.34	303							1	1	7	34	122	110	10	5	2				1		
TOTAL	0.34	303							1	1	7	34	122	110	10	5	2				1		

TABLE C37
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT RESIGN PHASE
 FOR DATA ACCUMULATED AT
 DALLAS LOVE FIELD, TEXAS

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.1	0.2	0.4	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 5	0.00	20				1		2	4	2	2	1	1		6	2	2	1	1		1		
TOTAL	0.00	20				1		2	4	2	2	1	1		6	2	2	1	1		1		

TABLE C2a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF PHASE
FOR DATA ACQUIRED AT
BANGH AB, VIETNAM

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 7	11.89	25									2	9	14										
1 8	0.64	0																					
2 8	3.97	19			1					1	2	1	6	5	2	3							
4 6	13.64	116											37	79									
5 6	5.23	40								1	2		33	3	1								
TOTAL	35.37	200			1					2	4	3	85	99	3	3							

TABLE C2b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN PHASE
FOR DATA ACQUIRED AT
BANGH AB, VIETNAM

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 7	0.50	212							1	7	22	68	15	71	23	5							
4 6	0.53	422			1					2	8	77	133	147	76	25	2						
TOTAL	1.03	634			1				1	9	30	95	140	218	99	30	2					1	

TABLE C2c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT PHASE
FOR DATA ACQUIRED AT
BANGH AB, VIETNAM

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
2 8	0.66	301								5	6	14	61	119	119	43	13	3	3	1			
5 6	1.08	807						1	2	21	59	196	231	187	77	29	5	1	6	1	1		
TOTAL	1.74	1108						1	7	27	73	247	344	306	120	42	8	4	7	1	1		

TABLE C2d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT PHASE
FOR DATA ACQUIRED AT
BANGH AB, VIETNAM

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
2 8	0.05	91						1	1			4	9	12	17	6	1						
5 6	0.05	23											1	1		4	2						
TOTAL	0.10	74						1	1			4	10	13	17	10	3	1	2	7	1	2	2

TABLE C19
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
DYVER AFB, DELAWARE

CU-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 2	73.93	1264							1	3	46	302	682	78									
1 3	796.99	9476						1	4	10	48	303	3196	3376	195	30	10		1	3			
1 4	111.69	8961						1	2	8	20	261	3697	4700	399	28	3		1				
1 5	111.70	10515								3	33	326	3994	3673	416	64	4						
1 6	705.60	36281							1	9	117	1169	14234	19294	1402	118	23		3	2		1	
1 7	382.90	11794								7	73	481	5367	7887	591	45							
1 8	96.87	1212									1	17	482	691	20	1							
1 10	36.20	2955									1	74	749	1101	48	1							
2 3	13.37	87										3	34	44	6								
2 4	9.77	64											23	34	3	1				1			
2 7	13.66	483										4	219	254	4								
2 8	7.44	754										11	299	432	11	1							
2 9	16.69	121										4	90	76	1								
2 10	0.36	0																					
3 2	19.06	51											29	27									
3 3	12.37	121										2	53	67	4								
3 4	6.39	16											17	19									
1 6	14.44	298										1	142	154	1								
1 9	29.72	264										2	99	153	10								
3 10	16.25	11											11										
4 1	14.82	169										1	61	101	5	1							
4 8	10.49	222									2	23	99	95	3								
4 9	94.90	463										7	174	275	9								
4 10	16.99	96										6	51	39									
5 9	85.62	1132										34	450	612	34	2							
5 10	28.26	455									1	11	231	204	4								
TOTAL	7465.07	88349						2	7	37	251	2786	34905	47130	1760	326	40	3	6		1		

TABLE C20
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
DYVER AFB, DELAWARE

CU-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 3	5.42	3153				3	4	6	29	129	314	935	1090	403	161	78	5	4					
1 4	0.90	5144						3	23	124	547	1785	1896	647	162	79	5	2					
1 5	9.41	6922				1	7	8	37	194	752	2283	2499	989	190	32	7	3					
1 6	25.73	16030		1	2	3	13	40	116	481	1092	4044	5220	2440	648	176	57	37		4	1		
1 7	10.78	6768				2	10	15	79	271	829	1948	2205	969	173	79	22	12		4			
1 8	3.63	1332						4	9	39	150	488	643	194	78	8							
1 10	2.97	1939				2		1	7	13	39	116	231	448	446	153	164	57	25	6	4	2	2
2 1	0.34	231									1	1	79	115	27	1							
2 7	0.79	718								3	4	27	84	255	227	72	52	18	1				
2 8	0.41	417								1	4	28	59	161	126	77	47	11	1	1			
2 9	1.13	215								1	3	5	21	91	90	15	7	1	1				
3 4	0.43	274								1	1	5	25	97	100	41	3	2	1				
3 9	1.24	627									1	10	45	211	257	74	8	3	1				
3 10	0.64	421				1				1	5	9	68	188	168	60	4	1	1	2			
4 8	0.47	263									6	7	54	64	94	74	5	1					
4 9	3.89	2274				2				3	13	41	263	651	735	404	92	23	12	4	2		
4 10	0.97	246									1	4	26	98	92	36	1	4					
5 9	4.80	3173				2				2	7	24	76	378	934	1164	523	84	25	6	3	1	
5 10	0.70	640									6	7	36	129	174	204	83	14	2	2	2		
TOTAL	80.75	59716				3	4	13	72	137	484	1602	5844	15310	17178	7164	2088	499	144	71	16	3	3

TABLE C20c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
DYVER AFB, DELAWARE

CU-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 2	4.95	2093																					
1 3	26.84	13078																					
1 4	32.73	18764																					
1 5	28.39	20128																					
1 6	23.60	18868																					
1 7	1.13	716																					
2 1	0.66	483																					
2 4	1.28	927																					
3 2	1.38	393																					
3 3	0.74	196																					
3 4	0.51	169																					
4 3	1.06	588																					
TOTAL	121.37	76091				10	32	191	360	1135	3887	9864	21968	23938	10438	3628	1239	536	356	83	12	7	

TABLE C184
DISTRIBUTION OF GROUPED LOAD FACTORS
FOR THE
TOUCH-AND-GO ROLL REVISION PHASE
FOR DATA ACQUIRED AT
SEWER AFB, DELAWARE

CM-FM BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 3	0.40	308							4	22	50	110	70	83	20	0	2							
1 4	0.11	3205																						
1 5	0.37	3367																						
1 6	0.01	3507																						
2 3	0.42	467		1	3	4	34	51	124	263	493	607	662	545	316	130	66	17	7	1				
TOTAL	13.17	10991		1	4	10	102	179	305	649	1606	2295	2073	1970	927	461	100	57	10	6				

TABLE C186
DISTRIBUTION OF GROUPED LOAD FACTORS
FOR THE
LANDING IMPACT REVISION PHASE
FOR DATA ACQUIRED AT
SEWER AFB, DELAWARE

CM-FM BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 2	0.43	279																						
1 3	1.04	1093																						
1 4	3.10	2413																						
1 5	2.00	2471																						
1 6	2.64	2109																						
1 7	0.05	32																						
2 3	0.20	102																						
2 4	0.10	76																						
3 2	0.10	47																						
3 3	0.04	44																						
3 4	0.35	74																						
4 3	0.10	79																						
TOTAL	11.21	8832		4	2	20	15	140	204	410	700	1251	1551	1299	1234	795	410	240	271	90	44	14	2	

TABLE C18
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF PHASE
 FOR DATA ACQUIRED AT
 EDWARDS AFB, CALIFORNIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1	3	5.51										10	30	0										
4	3	7.09										3	3											
TOTAL	12.60	67										13	41	0										

TABLE C19
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 EDWARDS AFB, CALIFORNIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1	3	89										37	47	4	1									
TOTAL	0.24	89										37	47	4	1									

TABLE C20
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 EDWARDS AFB, CALIFORNIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
4	3	0.51							1	5	9	31	93	73	34	13								
TOTAL	0.51	200							1	5	9	31	93	73	34	13								

TABLE C21
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 EDWARDS AFB, CALIFORNIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
4	3	0.04										2	4	5	2	11	7	2	2					
TOTAL	0.04	15										2	4	5	2	11	7	2	2					

TABLE C30
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 ELLESMERE AFB, ALASKA

CU-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	7.07	391																				
1 4	30.00	682								1	14	26	142									
1 5	4.03	9																				
1 6	17.04	107									2	70	109									
1 8	5.74	71										7	64									
1 10	16.04	79										12	17									
2 4	16.00	16																				
2 8	7.04	10																				
2 10	21.14	134										1	11									
3 3	25.11	1004								1	11	430	504			1						
3 4	29.01	14																				
3 8	16.09	130										9	60									
3 9	21.30	163											21									
3 10	23.26	204										2	66									
4 3	29.39	120										1	48									
4 4	4.32	19											10									
4 8	9.14	40											27									
4 10	63.43	2018								5	26	70	621			301	66	25	3	3		1
5 2	22.76	70											5									
5 3	20.06	16																				
5 4	21.06	19																				
5 8	12.19	111																				
5 10	24.43	304																				
6 4	8.46	0																				
TOTAL	494.19	9502								6	26	145	2050			370	69	25	3	1		1

TABLE C31
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 ELLESMERE AFB, ALASKA

CU-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	1.46	646																				
1 8	0.48	266																				
1 10	0.61	300																				
2 8	0.70	291																				
2 10	1.07	694																				
3 8	1.17	955																				
3 9	1.56	668																				
3 10	2.34	1023																				
4 8	0.45	190																				
4 10	3.91	2335																				
5 8	0.76	417																				
5 10	6.39	2792																				
TOTAL	19.43	11209																				

TABLE C32
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 ELLESMERE AFB, ALASKA

CU-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	2.16	691																				
1 4	0.36	2094																				
1 5	1.27	246																				
2 3	1.59	89																				
2 8	1.97	307																				
2 10	2.36	1150																				
3 4	1.79	1120																				
3 5	4.51	1700																				
4 4	1.36	84																				
5 2	1.92	963																				
5 3	2.35	609																				
5 4	2.47	610																				
5 8	0.94	331																				
6 4	0.60	273																				
TOTAL	31.53	9017																				

TABLE C33
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 ELLESMERE AFB, ALASKA

CU-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.13	97																				
1 4	0.25	194																				
1 5	0.75	24																				
2 3	0.10	23																				
2 4	0.15	101																				
3 3	0.15	120																				
3 4	0.25	160																				
4 3	0.25	154																				
4 8	0.95	20																				
5 3	0.17	109																				
5 3	0.15	70																				
5 4	0.10	51																				
5 8	0.06	32																				
6 4	0.05	33																				
TOTAL	1.00	1204																				

TABLE C310
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
FORBES AFB, KANSAS

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.44	800																				
TOTAL	0.44	800								11	311	427	51									

TABLE C311
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
FORBES AFB, KANSAS

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 4	0.72	441				1				3	11	57	126	127	100	10	3	2	1				
TOTAL	0.72	441				1				3	11	57	126	127	100	10	3	2	1				

TABLE C312
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
FORBES AFB, KANSAS

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	2.1	1350					1	3	6	10	194	462	450	197	75	0	4					
TOTAL	2.1	1350					1	3	6	10	194	462	450	197	75	0	4					

TABLE C314
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TOUCH-DOWN ROLL MISSION PHASE
FOR DATA ACQUIRED AT
FORBES AFB, KANSAS

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.25	141							9	13	26	17	23	29	14	0	2					
1 3	0.27	247					1	2	3	12	30	64	32	57	20	9	2	1				
1 4	1.30	1139			1	2	11	27	72	91	160	179	167	199	100	79	33	14	4			
1 5	0.34	307							4	9	27	86	59	85	24	6	2	1				
1 7	1.79	1161					1	3	14	41	124	315	350	210	69	22	9	3				
1 8	6.23	4509					1	1	10	24	99	474	1471	1530	643	219	27	0	1			
1 9	4.67	3594				1	1	4	20	94	336	1164	1234	546	157	25	11	1				
TOTAL	14.94	11093			1	3	15	67	140	399	1207	3206	3875	1769	695	176	67	21	4			

TABLE C316
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
FORBES AFB, KANSAS

CU-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.05	24					1	2	1	2	2	2	3	4	2		1	2		2		
1 3	0.05	29					1	1	3	5	1	2	9	2		1	1					
1 4	0.35	284			1		7	9	17	17	32	27	33	29	29	16	12	4	2		1	
1 5	0.05	90					2	2	2	2	4	3	3	4	4	2	2				1	
1 7	0.21	159					1	2	4	9	17	35	27	30	13	4	3	7		2	1	
1 8	0.40	541			1		7	6	11	27	63	140	124	70	33	20	10	9	1	7		
1 9	0.55	403				1	1	3	11	33	50	95	69	60	31	19	11	0	2	1		
TOTAL	2.05	1610			2	1	20	22	66	95	162	312	261	214	114	65	40	31	7	7	1	

TABLE C32a
DISTRIBUTION OF GROUPED LOAD FACTORS
FOR THE TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT FT. SMITH MISSI, ARKANSAS

CU-FW BLOCK BLOCK	TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	1.00	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.71	10																			
1 3	31.25	111									1	0	6	10							
1 4	11.65	569										5	129	221	14						
1 5	0.62	279									1	6	110	106	9	1					
TOTAL	31.93	779									2	19	299	307	21	1					

TABLE C32b
DISTRIBUTION OF GROUPED LOAD FACTORS
FOR THE TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT FT. SMITH MISSI, ARKANSAS

CU-FW BLOCK BLOCK	TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	1.00	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.36	130									2	3	54	63	15						
1 3	0.25	243					2		5	10	24	65	73	64	0	6	3	1			
1 4	0.31	296					2		4	10	34	73	90	44	20	5	4	1			
1 5	0.32	131									3	39	70	10		1					
TOTAL	1.24	600					4		9	31	64	231	290	121	29	12	7	7			

TABLE C32c
DISTRIBUTION OF GROUPED LOAD FACTORS
FOR THE LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT FT. SMITH MISSI, ARKANSAS

CU-FW BLOCK BLOCK	TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	1.00	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.31	412				3	6	9	13	20	50	113	60	64	23	10	5	2			
1 3	0.33	792			1	1	4	4	14	29	1.0	213	245	129	29	7	6	2			
1 4	0.36	212									9	34	69	42	49	15	3				
TOTAL	1.02	1416			1	4	10	13	27	50	201	386	376	241	64	26	11	4			

TABLE C32d
DISTRIBUTION OF GROUPED LOAD FACTORS
FOR THE TOUCH-DOWN MISSION PHASE
FOR DATA ACQUIRED AT FT. SMITH MISSI, ARKANSAS

CU-FW BLOCK BLOCK	TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	1.00	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.46	237							1	11	29	29	47	45	44	20	17	3			
1 3	0.63	750			4	11	16	25	22	37	53	113	99	106	105	56	31	32	26	16	5
1 4	3.29	6092		1	15	67	105	226	237	305	564	854	772	863	931	669	404	300	276	87	35
1 5	0.63	605			3	4	14	16	36	36	77	32	76	119	80	51	21	6	7		
1 6	0.37	294			1	1	3	4	13	23	46	67	62	39	29	9	2	1			
1 7	0.33	1197			1	1	33	33	67	119	169	292	225	137	161	52	25	12			
1 9	0.84	1196						8	10	30	119	236	255	316	173	64	17	7			
TOTAL	9.31	11169		1	10	79	127	309	343	571	957	1909	1512	1756	1522	966	631	365	322	104	40

TABLE C32e
DISTRIBUTION OF GROUPED LOAD FACTORS
FOR THE LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT FT. SMITH MISSI, ARKANSAS

CU-FW BLOCK BLOCK	TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.30	43								1	1	7	7	11	0						
1 3	0.25	222						3	12	19	20	37	24	39	15	12	6				
1 4	1.95	1653		1	1	3	9	3	12	19	20	37	24	39	15	12	6				
1 5	0.13	90				1	7	10	34	66	96	148	173	163	167	96	68	39	28	3	
1 6	0.33	20						4	3	2	17	20	25	15	4	9	1	7	1		
1 6	0.33	20			2		3	1	3	1	1	1	3	0							
1 9	0.30	190						4	4	3	20	32	30	22	10	4	2	5	2	1	1
1 9	0.26	214			1	1	4	10	11	20	30	31	43	20	22	0	7	5			
TOTAL	2.80	1647		1	9	13	26	36	79	167	270	301	364	282	159	64	53	64	0	2	4

TABLE C33a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE OFF PHASE
 FOR DATA ACQUIRED AT
 GOOSE BAY, LABRADOR

CU-PN BLOCK	BLOCK TYPE (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1	S	0.03										5	9	2									
TOTAL		0.03										5	9	2									

TABLE C33b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT PHASE
 FOR DATA ACQUIRED AT
 GOOSE BAY, LABRADOR

CU-PN BLOCK	BLOCK TYPE (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1	S	0.07					1		3	9	16	121	117	33	6	1	1	1					
TOTAL		0.07					1		3	9	16	121	117	33	6	1	1	1					

TABLE C33c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT PHASE
 FOR DATA ACQUIRED AT
 GOOSE BAY, LABRADOR

CU-PN BLOCK	BLOCK TYPE (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1	S	0.05									2	0	10	3	6	3					1		
TOTAL		0.05									2	0	10	3	6	3					1		

TABLE C32
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
WICKHAM AFB, HAWAII

CU-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 3	10.00	16										0	0											
1 5	1.50	0																						
1 6	5.05	0										7	1											
1 7	0.71	0																						
1 8	4.12	133										51	81	1										
1 10	13.05	0										4	4											
2 3	0.37	42							1	4	2	25	125	260	36	7			1	1				
2 10	0.04	100										1	50	93	1									
4 4	13.00	69										1	27	53	4									
5 3	20.00	772									1	23	300	350	3	1								
5 4	10.00	900										3	60	112	9									
5 6	13.07	90											42	50										
7 3	5.20	31										1	13	16	1									
7 4	11.52	61											17	50	6									
7 8	14.07	400											21	104	131	69	3							
TOTAL	136.43	2440							1	4	3	74	900	1229	126	11			1	1				

TABLE C33
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
WICKHAM AFB, HAWAII

CU-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 3	0.35	26										1	5	21										
1 6	0.47	64											20	42	1									
1 8	0.45	221										4	5	19	66	97	37	11	2					
1 10	1.19	353				1	1	4	4	13	26	68	104	103	70	20	12			4	1			
2 10	0.33	309							4	8	20	70	112	141	76	46	10	7						
5 3	1.24	864				1	4	9	9	20	50	109	273	263	126	41	9	4	2					
7 8	1.30	1130					4	12	24	24	20	153	300	210	237	70	37	13	3					
TOTAL	5.46	3377				2	9	25	54	146	423	900	935	933	104	70	28	6						

TABLE C33c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
WICKHAM AFB, HAWAII

CU-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 3	0.76	57										29	27	1										
1 5	1.29	31										30	21	1										
2 3	1.04	400								1	3	29	173	244	91	3	5	1						
3 3	0.41	10										1	4	1										
4 4	0.30	214										2	2	8	30	43	61	40	10	2			1	
5 3	1.33	849								2	10	26	87	207	210	711	56	20	4	1				
5 4	1.02	429								5	5	14	47	114	151	40	30	13	6	1				
7 3	0.75	446			1	3	9	10	2	9	10	32	96	32	100	70	18	17	0	4	9	2		
7 4	0.63	438								2	15	37	129	70	94	64	13	2	4					
TOTAL	7.94	2994			1	3	10	23	10	30	90	336	729	904	496	181	78	21	7	9	2			

TABLE C34
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
WICKHAM AFB, HAWAII

CU-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 3	0.05	19											5	9	5									
1 5	0.05	13											1	4	6	2								
2 3	0.05	40											6	7	7	9	2							
3 3	0.05	12						1	2	1	4	3	4	2	2	1								
4 4	0.05	54											7	11	0	9	12	4		2				
5 3	0.10	83								1	4	4	10	23	6	11	7	4	1	1	2	2		
5 4	0.05	44								2	2	4	6	2	16	6	4	2						
7 3	0.05	20								1	3	4	11	1	1	1	1	1	1	1	1	1		
7 4	0.05	47										1	7	0	10	0	3	1						
TOTAL	0.35	300						1	1	5	11	20	40	75	75	50	30	15	6	7	3	2	1	

TABLE C36a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
HILL AFB, UTAH

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	4.49	39									11	20										
1 5	9.92	875								2	23	32	444	32	2							
1 6	11.08	863								2	34	362	421	40	3	1						
5 6	3.04	38									30	0										
7 4	4.47	215									73	137	2									
7 5	7.60	16									7	0										
TOTAL	36.80	1996								4	68	805	1047	74	5	1						

TABLE C36b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
HILL AFB, UTAH

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
5 6	0.53	887				6	25	34	65	72	120	116	145	119	66	64	34	19	2			
7 4	0.57	158								12	73	86	132	50	4	1						
7 5	0.67	548							1	33	104	111	204	80	15							
TOTAL	1.77	1793				6	25	34	66	117	297	313	481	249	85	65	34	19	2			

TABLE C36c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
HILL AFB, UTAH

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.62	407							1	8	47	105	120	99	21	6						
1 5	0.77	554							4	38	114	102	175	70	35	10						
1 6	1.05	643					1	5	12	20	111	193	196	74	20	7	4					
TOTAL	2.44	1604					1	5	19	64	272	400	491	243	76	23	8					

TABLE C36d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
HILL AFB, UTAH

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.05	60							2	3	14	8	7	4	8	5	6	1				
1 5	0.05	38							4	7	8	5	3	2	4	2	1					
1 6	0.09	47					2		3	3	13	3	7	7	2	5	2	1				
TOTAL	0.15	145					2		9	13	27	19	19	14	12	16	4	7	3			

TABLE C37a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI MISSION PHASE
 FOR DATA ACQUIRED AT
 HUNTER AFB, GEORGIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.79	7									2	5									
1 6	0.02	399								4	151	241	9								
TOTAL	0.81	406								4	153	246	9								

TABLE C37b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 HUNTER AFB, GEORGIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	0.45	167									2	55	97	13							
TOTAL	0.45	167									2	55	97	13							

TABLE C37c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 HUNTER AFB, GEORGIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.44	240							1	2	17	80	121	16	1						
TOTAL	0.44	240							1	2	17	80	121	16	1						

TABLE C37d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 HUNTER AFB, GEORGIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.05	39								9	9	10	5	8	5	3					
TOTAL	0.05	39								9	9	10	5	8	5	3					

TABLE C38
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF PHASE
 FOR DATA ACQUIRED AT
 KELLY AFB, TEXAS

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 &	6.86	77																				
4 &	6.62	23																				
TOTAL	13.48	100																				

TABLE C39
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 KELLY AFB, TEXAS

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
4 &	0.44	202				1				1		12	79	61	37	7						
TOTAL	0.44	202				1				1		12	79	61	37	7						

TABLE C39c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 KELLY AFB, TEXAS

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 &	0.83	469									4	38	197	168	81	19	2					
TOTAL	0.33	469									4	38	197	168	81	19	2					

TABLE C39d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 KELLY AFB, TEXAS

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 &	0.05	20																				
TOTAL	0.05	20																				

TABLE C41a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI MISSION PHASE
 FOR DATA ACQUIRED AT
 KINDLEY AFB, BARRUDA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEARS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.1	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	2.76	159								1	20	88	49	5								
1 7	4.31	301								1	14	90	171	64	1							
TOTAL	7.07	460								2	34	178	216	69	1							

TABLE C41b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 KINDLEY AFB, BARRUDA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEARS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.1	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 7	0.37	308				1	2	3	23	32	64	64	65	42	22	7	4	2				
TOTAL	0.37	308				1	2	3	23	32	64	64	65	42	22	7	4	2				

TABLE C41c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 KINDLEY AFB, BARRUDA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEARS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.1	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	0.77	645				1	23	29	37	67	110	56	126	79	55	33	18	10	2	4		
TOTAL	0.77	645				1	23	29	37	67	110	56	126	79	55	33	18	10	2	4		

TABLE C41d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 KINDLEY AFB, BARRUDA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEARS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.1	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	0.09	46							2	4	11	5	3	5	7	5	2	2				
TOTAL	0.09	46							2	4	11	5	3	5	7	5	2	2				

TABLE C42a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
LAJES A/D, AZORES

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 2	12.04	25									4	21										
3 9	1.23	0																				
4 4	9.20	12									4	8										
4 8	9.25	89									23	60	6									
TOTAL	32.34	126									31	89	6									

TABLE C42b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
LAJES A/D, AZORES

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 9	0.53	277							1	2	20	95	110	41	8							
4 8	0.47	158							1	1	6	43	54	46	7	1						
TOTAL	1.00	435							1	3	26	138	164	87	15	1						

TABLE C42c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
LAJES A/D, AZORES

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 2	0.50	305									5	31	124	151	46	6	2					
4 4	0.57	220									5	14	91	76	37	6						
TOTAL	1.07	505									5	45	215	227	83	10	2					

TABLE C42d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
LAJES A/D, AZORES

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 2	0.05	30									3	10	6	1	1	1	3	5				
4 4	0.05	30						1		3	4	6	9	5	1	1	1	1				
TOTAL	0.10	60						1		3	7	16	15	6	2	2	3	5				

TABLE C41a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE MISSION PHASE
 FOR DATA ACQUIRED AT
 LAKEMURST NAS, NEW JERSEY

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	8.44	97								62	34	1										
1 3	14.59	296							16	147	114	10	4				3					
1 4	9.71	175								84	120	1										
1 5	32.52	1340							21	434	841	71	1									
TOTAL	65.08	1936							37	697	1111	83	5				3					

TABLE C41b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 LAKEMURST NAS, NEW JERSEY

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.52	233								1	16	76	92	30	18							
1 3	0.49	491					6	2	11	29	72	125	112	68	37	7	6	1				
1 4	0.63	744			4	4	2	1	5	26	70	227	303	82	16	8	5	11				
1 5	1.36	945								31	119	297	284	163	60	23	5					
TOTAL	3.00	2413			4	4	8	3	27	49	277	680	791	343	146	58	16	12				

TABLE C41c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 LAKEMURST NAS, NEW JERSEY

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	1.09	729					2	5	14	38	111	211	194	88	40	13	5	6	1	1		
1 4	0.43	508							6	16	58	165	177	63	15	4	4					
1 5	2.19	980					2	5	14	35	96	308	300	154	37	15	8	3	1			
TOTAL	3.71	2217					4	10	34	89	265	684	671	305	92	32	17	9	4	1		

TABLE C41d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 LAKEMURST NAS, NEW JERSEY

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.14	78					2	2	1	3	7	11	13	16	8							
1 4	0.08	52					2	2	3	3	4	2	12	4	1	5	4	3	2	1	2	2
1 5	0.20	106					2	1	6	3	14	16	15	13	16	9	4	4	1			
TOTAL	0.40	236					2	5	10	8	29	29	40	33	27	19	13	10	8	3	2	2

TABLE C44a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE OFF MISSION PHASE
 FOR DATA ACQUIRED AT
 MARCH AFB, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	12.91	422									1	195	225	2								
3 6	96.80	761	1									295	462	3								
TOTAL	49.41	1123	1									1	490	686	5							

TABLE C44b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 MARCH AFB, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 6	1.43	1070			1		1	2	1	5	82	393	448	122	12	3						
TOTAL	1.43	1070			1		1	2	1	5	82	393	448	122	12	3						

TABLE C44c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 MARCH AFB, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	3.62	2762							3	5	39	197	1148	1094	237	29	6	3	1			
TOTAL	3.62	2762							3	5	39	197	1148	1094	237	29	6	3	1			

TABLE C44d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 MARCH AFB, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	0.15	141								7	18	40	32	21	12	4	3	2	2			
TOTAL	0.15	141								7	18	40	32	21	12	4	3	2	2			

TABLE C45a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE OFF PHASE
 FOR DATA ACQUIRED AT
 MCCORD AFB, WASHINGTON

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 6	10.45	22																				
6 7	8.24	3																				
TOTAL	26.69	25																				

TABLE C45b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 MCCORD AFB, WASHINGTON

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
6 7	0.42	392																				
TOTAL	0.42	392																				

TABLE C45c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 MCCORD AFB, WASHINGTON

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 6	0.75	201																				
TOTAL	0.75	201																				

TABLE C45d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 MCCORD AFB, WASHINGTON

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 6	0.05	38																				
TOTAL	0.05	38																				

TABLE C48a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAXI MISSION PHASE
FOR DATA ACQUIRED AT
MCDDY AFB, FLORIDA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	4	106									56	107	3									
TOTAL	0.15	106									56	107	3									

TABLE C48b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
MCDDY AFB, FLORIDA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	4	150									2	53	84	10								1
TOTAL	0.34	150									2	53	84	10								1

TABLE C48c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
MCDDY AFB, FLORIDA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	4	234								1	3	17	86	87	29	8	2	1				
TOTAL	0.44	234								1	3	17	86	87	29	8	2	1				

TABLE C48d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
MCDDY AFB, FLORIDA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	4	36							1	4	4	7	2	5	4	5		1	2	1		
TOTAL	0.05	36							1	4	4	7	2	5	4	5		1	2	1		

TABLE C49a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
MCQUIRE AFB, NEW JERSEY

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	12.92	84								6	40	38										
1 3	6.34	297								3	137	158	7	1								
1 5	18.95	199								1	87	108	4									
1 6	40.97	1337								29	518	755	35									
1 7	8.57	251								2	136	111	1	1								
1 10	83.37	1284								1	80	405	751	47								
2 3	18.48	131								2	1	61	64	2	1							
2 4	18.67	76								2	25	46	3									
2 9	8.01	167								3	68	99	5									
2 10	82.07	168									75	93										
3 3	7.92	53								1	33	18	1									
3 4	7.55	45								1	17	24	1									
3 6	8.06	65								1	1	78	30	4	1							
3 10	13.96	144								1	1	54	86	3								
TOTAL	297.84	4301								4	131	167	2383	108	4							

TABLE C49b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
MCQUIRE AFB, NEW JERSEY

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 3	0.29	131									4	16	45	56	13									
1 5	0.23	77								1	1	31	33	6										
1 6	0.34	388								4	10	23	43	67	46	58	19	7	4					
1 7	0.31	177								2	1	17	74	53	23	6	1							
1 10	3.54	2590								8	29	108	324	723	755	446	140	47	9	1	1	1		
2 9	0.50	458								1	2	22	49	145	126	71	20	10	6	1				
2 10	1.96	982								1	4	27	139	278	328	195	45	1	1	1	1			
3 10	1.33	1089								1	6	38	116	314	313	194	57	8	1	1				
TOTAL	8.80	5728								6	4	14	54	223	716	1677	1683	911	326	86	74	9	2	1

TABLE C49c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
MCQUIRE AFB, NEW JERSEY

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 2	0.92	555								1	1	21	78	235	170	37	5	7					
1 5	0.64	310								1	1	12	24	111	111	33	12	2	2	1			
1 6	4.38	3779								6	10	32	148	468	811	1001	518	212	57	14	2		
2 3	1.65	617										12	65	231	240	60	9						
2 4	1.28	631										1	8	57	223	233	74	10	5				
3 3	0.58	145								1	3	1	2	7	57	55	12						
3 4	0.67	394										3	8	90	189	177	70	13	4			2	
3 6	1.03	575										1	10	54	274	205	61	18	2				
TOTAL	11.17	6666								2	9	14	40	221	843	2091	2212	864	279	79	16	4	2

TABLE C49d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
MCQUIRE AFB, NEW JERSEY

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1 2	0.05	31								1	5	3	1	2	4	4	1	3	4	2		1		
1 5	0.05	27								1	1	1	2	6	6	5	2					1		
1 6	0.29	237								3	3	11	28	32	47	45	35	22	11	12	6	2		
2 3	0.09	61										2	5	4	14	13	11	3	4	2	1			
2 4	0.10	69										1	1	4	13	14	18	8	6	1	1			
3 3	0.05	21										1	2	2	6	2	3	1				2		
3 4	0.05	67										1	1	1	8	8	10	11	6	3	3	1		
3 6	0.05	28										1	1	1	4	9	3	4	4		1			
TOTAL	0.73	561								1	5	11	22	53	71	184	93	84	49	28	20	12	5	3

TABLE C50a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE OFF MISSION PHASE
 FOR DATA ACQUIRED AT
 MINN-ST. PAUL INTL, MINNESOTA

CW-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 7	0.40	251									1	98	192									
TOTAL	0.40	251									1	98	192									

TABLE C50b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 MINN-ST. PAUL INTL, MINNESOTA

CW-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 7	0.39	187									16	61	69	36	5							
TOTAL	0.39	187									16	61	69	36	5							

TABLE C50c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 MINN-ST. PAUL INTL, MINNESOTA

CW-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 7	0.56	282							1	1	4	22	103	95	39	11	5	1				
TOTAL	0.56	282							1	1	4	22	103	95	39	11	5	1				

TABLE C50d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 MINN-ST. PAUL INTL, MINNESOTA

CW-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 7	0.05	30						1	3	2	0	2	1	4	1	4	2	2				
TOTAL	0.05	30						1	3	2	0	2	1	4	1	4	2	2				

TABLE CS1a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF PHASE
 FOR DATA ACQUIRED AT
 NEW ORLEANS NAS, LOUISIANA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 5	1.35	60								1	2	14	37	5	1							
1 8	0.06	75										31	42	2								
TOTAL	0.41	135								1	2	45	79	7	1							

TABLE CS1b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 NEW ORLEANS NAS, LOUISIANA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 8	0.33	230						2		9	30	60	83	34	10	2						
TOTAL	0.33	230					2		9	30	60	83	34	10	2							

TABLE CS1c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 NEW ORLEANS NAS, LOUISIANA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 5	1.00	344								1	5	33	130	122	34	7	3				1	
TOTAL	1.00	344								1	5	33	130	122	34	7	3				1	

TABLE CS1d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 NEW ORLEANS NAS, LOUISIANA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 5	0.05	23					1	1	2	5	1		4	2	2		2	3				
TOTAL	0.05	23					1	1	2	5	1		4	2	2		2	3				

TABLE C52a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE MISSION PHASE
 FOR DATA ACQUIRED AT
 NIAGARA FALLS MUNI, NEW YORK

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	4.15	61																				
1 0	3.20	2																				
TOTAL	7.43	63																				

TABLE C52b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 NIAGARA FALLS MUNI, NEW YORK

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 0	0.49	331			1	1	6	10	20	39	38	38	65	90	27	15	12	9				
TOTAL	0.49	331			1	1	6	10	20	39	38	38	65	90	27	15	12	9				

TABLE C52c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 NIAGARA FALLS MUNI, NEW YORK

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.04	515								2	17	51	91	97	119	47	3	75	32	1		
TOTAL	0.04	515								2	17	51	91	97	119	47	3	75	32	1		

TABLE C52d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 NIAGARA FALLS MUNI, NEW YORK

CM-PW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.05	30								1	2	10	1	6	7							6
TOTAL	0.05	30								1	2	10	1	6	7							6

TABLE C53a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI MISSION PHASE
 FOR DATA ACQUIRED AT
 NORTH ISLAND NAS, CALIFORNIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 5	7.73	65																				
TOTAL	7.73	65																				

TABLE C53b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 NORTH ISLAND NAS, CALIFORNIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 5	0.46	404				1		2	6	15	43	122	120	62	30	3						
TOTAL	0.46	404				1		7	6	15	41	122	120	62	30	3						

TABLE C54a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI MISSION PHASE
 FOR DATA ACQUIRED AT
 PATRICK AFB, FLORIDA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 5	4.80	490									61	190	210	11								
2 5	5.03	250									6	119	131									
TOTAL	9.83	740									67	311	349	11								

TABLE C54b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 PATRICK AFB, FLORIDA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 5	0.35	318					2	7	24	65	73	5	94	44	18	6						
TOTAL	0.35	318					2	7	24	65	73	5	94	44	18	6						

TABLE C54c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 PATRICK AFB, FLORIDA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 5	1.11	315								2	13	51	99	109	29	10			1		1	
TOTAL	1.11	315								2	13	51	99	109	29	10			1		1	

TABLE C54d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 PATRICK AFB, FLORIDA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 5	0.05	27								2	3	4	5	3	3	3	1			1		
TOTAL	0.05	27								2	3	4	5	3	3	3	1			1		

TABLE C55a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI MISSION PHASE
 FOR DATA ACQUIRED AT
 PITTSBURGH-MONROEVILLE, PENNSYLVANIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	4	299								2	4	216	74	3								
2	6	187										89	97	1								
TOTAL	22.29	486								2	4	305	171	4								

TABLE C55b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 PITTSBURGH-MONROEVILLE, PENNSYLVANIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	4	266								1	18	99	87	51	8							
TOTAL	0.58	266								1	18	99	87	51	8							

TABLE C55c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 PITTSBURGH-MONROEVILLE, PENNSYLVANIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1	4	44								1	3	3	10	4	8	8	3	3	1			
TOTAL	0.08	44								1	3	3	10	4	8	8	3	3	3			

DISTRIBUTION OF CHINA LEAD FACTORS
FOR THE
LANDING BELT BEHIND PHASE
FOR DATA GENERATED BY
PLANS AND TOWERS

CN-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 5	0.41	149																				
3 6	0.70	61																				
TOTAL	13.11	210																				

TABLE CN3
DISTRIBUTION OF CHINA LEAD FACTORS
FOR THE
TARD-OUT AND BEHIND PHASE
FOR DATA GENERATED BY
PLANS AND TOWERS

CN-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 5	0.56	302					1	2	14	25	10	14	107	59	11	7						
TOTAL	0.56	302					1	2	14	25	10	14	107	59	11	7						

TABLE CN4
DISTRIBUTION OF CHINA LEAD FACTORS
FOR THE
LANDING BELT BEHIND PHASE
FOR DATA GENERATED BY
PLANS AND TOWERS

CN-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 4	1.41	776					1	2	6	11	104	200	301	74	16	2	1	3				
TOTAL	1.41	776					1	2	6	11	104	200	301	74	16	2	1	3				

TABLE CN5
DISTRIBUTION OF CHINA LEAD FACTORS
FOR THE
LANDING BELT BEHIND PHASE
FOR DATA GENERATED BY
PLANS AND TOWERS

CN-PN BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 6	0.09	57					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL	0.09	57					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TABLE C57a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE MISSION PHASE
 FOR DATA ACQUIRED AT
 POINT MUGU NAS, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1	5	0.72								1	9	167	169	11									
3	5	0.15								1	4	15	225	168	37	4							
TOTAL	15.07	1031								1	5	44	392	337	48	4							

TABLE C57b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 POINT MUGU NAS, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1	5	0.51					2	2	0	7	33	70	71	19	9	4	2						
TOTAL	0.51	247					2	2	0	7	33	70	71	19	9	4	2						

TABLE C57c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 POINT MUGU NAS, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1	5	0.67					1	7	19	35	97	101	95	70	20	6	4	2					
TOTAL	0.67	477					1	7	19	35	97	101	95	70	20	6	4	2					

TABLE C57d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 POINT MUGU NAS, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1	5	0.08								1	2	10	11	0	5	2	2						
TOTAL	0.08	41								1	2	10	11	0	5	2	2						

TABLE C3a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI MISSION PHASE
 FOR DATA ACQUIRED AT
 RANDOLPH AFB, TEXAS

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	21.95	981								10	476	472	23									
1 7	9.17	1139							1	32	500	316	80	3								
TOTAL	31.12	2120							1	42	976	788	103	3								

TABLE C3b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 RANDOLPH AFB, TEXAS

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	1.17	524							1	2	8	178	292	46	7							
1 7	0.30	191							1	2	9	64	95	19	2							
TOTAL	1.47	725							1	4	17	242	387	65	9							

TABLE C3c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 RANDOLPH AFB, TEXAS

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	1.21	1103								14	114	440	422	106	7							
1 7	0.62	533							1	1	62	191	220	49	6			2	1			
TOTAL	1.83	1636							1	15	176	631	642	155	13			2	1			

TABLE C3d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 RANDOLPH AFB, TEXAS

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	0.15	127						1		8	19	33	27	25	4	5	1	2				
1 7	0.08	38							1	4	6	8	11	6	7							
TOTAL	0.23	165						1	1	12	25	41	38	31	11	5	1	2				

TABLE C59a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE MISSION PHASE
FOR DATA ACQUIRED AT
RHEIN MAIN A/D, GERMANY

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																									
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0						
1 3	0.65	329								6	99	214	10															
1 4	27.49	865								36	359	448	20															
1 7	3.07	489								1	3	135	296	46													2	
2 5	13.08	159										51	108															
2 10	28.47	314									2	87	216	4														
3 4	4.11	39										5	36															
4 10	23.34	118										65	53															
TOTAL	108.41	2313								1	47	801	1169	98													2	

TABLE C59b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF ROLL MISSION PHASE
FOR DATA ACQUIRED AT
RHEIN MAIN A/D, GERMANY

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																									
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0						
2 10	2.57	1814					1	4	11	51	201	615	502	305	92	22	9	2										
3 10	1.41	1014						1	13	44	154	377	268	165	28	4												
TOTAL	3.98	2828					1	3	24	95	355	953	770	470	120	26	9	2										

TABLE C59c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
RHEIN MAIN A/D, GERMANY

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																									
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0						
1 3	0.87	629		3	2	1	1	1	10	30	94	151	107	137	62	14	5	4	3	4								
1 4	5.53	2802			1		7	8	32	95	315	934	900	340	146	46	14	4										
1 7	1.22	1067						2	14	46	126	280	263	215	92	20	4											
2 5	2.58	857									30	371	357	71	15	1	3											
3 4	1.20	597							1	1	19	199	287	81	6	3												
TOTAL	11.40	6047		3	3	1	8	11	57	172	613	1935	1914	894	321	84	26	8	3	4								

TABLE C59d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
RHEIN MAIN A/D, GERMANY

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																									
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0						
1 3	0.05	34						1	2	4	6	4	2	4	4	1	4											
1 4	0.25	161				2	3	2	7	17	28	16	25	18	12	11	8	7	4	1								
1 7	0.05	50				1	1		4	8	5	6	4	6	2	5	3	4	1									
2 5	0.09	43								3	6	11	14	6	3													
3 4	0.05	34									31	16	7															
TOTAL	0.49	322				3	4	3	13	30	43	50	63	39	21	20	12	15	5	1								

TABLE C60a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI MISSION PHASE
 FOR DATA ACQUIRED AT
 RICHARDS-DOBSON AFB, MISSOURI

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	9.07	147									73	73	1									
TOTAL	9.07	147									73	73	1									

TABLE C60b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 RICHARDS-DOBSON AFB, MISSOURI

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.28	119							2	1		29	54	31	5	1						
TOTAL	0.28	119							2	1		29	54	31	5	1						

TABLE C60c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 RICHARDS-DOBSON AFB, MISSOURI

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.77	248								1	11	106	114	15		1						
TOTAL	0.77	248								1	11	106	114	15		1						

TABLE C60d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TOUCH-AND-GO ROLL MISSION PHASE
 FOR DATA ACQUIRED AT
 RICHARDS-DOBSON AFB, MISSOURI

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 8	0.24	182								4	17	51	73	22	8	3	1	1				
TOTAL	0.24	182								4	17	51	73	22	8	3	1	1				

TABLE C60e
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 RICHARDS-DOBSON AFB, MISSOURI

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.05	22					1	1				3	6	6	3	1	1				2	
1 8	0.05	40								1	3	6	6	5	6	6			1		2	
TOTAL	0.10	62					1	1		1	12	10	12	8	7	7			1		2	

TABLE C61a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE MISSION PHASE
FOR DATA ACQUIRED AT
ROBINS AFB, GEORGIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1	5	0.10									1	4	27	2	1								
1	6	9.87									3	57	75	4									
2	5	6.16										35	96										
TOTAL	24.13	307									4	100	196	6	1								

TABLE C61b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
ROBINS AFB, GEORGIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1	4	0.33									13	59	64	75										
2	5	0.41									1	16	101	112	35	1								
TOTAL	0.74	427									1	29	160	176	60	1								

TABLE C61c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
ROBINS AFB, GEORGIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1	5	0.76						1	1	1	9	57	107	66	7	6	1	2						
1	6	0.92						1	1	6	35	136	90	75	25	5	2							
TOTAL	1.28	633						1	2	7	44	193	197	141	32	11	1	4						

TABLE C61d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
ROBINS AFB, GEORGIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
1	5	0.08								4	3	8	5	7	6	1	1	1	1	1				
1	6	0.05						2		9	4	7	7	2	5	3	1							
TOTAL	0.10	73						2		4	12	12	12	9	8	4	1	2						

TABLE C62a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
SAIGON, TAN SON NHUT AFB, VIETNAM

CM-FM BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.80	53									20	33									
1 5	22.44	926								1	24	420	450	13							
1 6	15.66	222									1	69	146	6							
1 7	14.65	534							2	1	14	252	250	30	3	1	1				
1 8	21.83	178									2	110	65	1							
1 9	23.33	296									11	132	145	10							
1 10	24.20	194									1	89	104								
2 3	10.43	9										2	5								
2 4	13.10	257										2	69	165	1						
2 5	17.32	28										13	16						1	1	
2 6	6.66	121										16	102	3							
2 8	6.53	168								1		91	114	2							
2 9	8.78	0																			
2 10	7.80	74										32	44								
3 3	17.36	30										3	22	5							
3 4	22.21	71										27	43								
3 5	4.82	1																			
3 6	17.81	247									1	104	140	2							
3 7	9.13	42									2	19	21								
3 10	6.30	4											4								
4 5	8.38	7										4	3								
5 3	1.48	4										1	3								
5 4	15.72	31								1	3	10	14	2	1						
5 5	15.84	58								2	2	22	29	2	1						
5 6	2.34	25										5	20								
TOTAL	311.24	3582								2	5	69	1496	1928	72	5	1	2	1	1	

TABLE C62b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
SAIGON, TAN SON NHUT AFB, VIETNAM

CM-FM BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.79	456						1	1	1	4	31	140	194	68						
1 5	1.21	981						1	1	1	13	129	329	364	114	26	3	1			
1 6	0.45	213										12	60	94	41	6					
1 8	1.00	647						1		4	26	126	150	217	90	21	3	1			
1 9	2.55	702							1		7	75	206	278	120	15					
1 10	1.77	1384								9	75	227	320	476	214	43	11	1			
2 4	0.59	262								2	13	57	84	60	33	2	1				
2 8	0.56	314									1	12	103	118	75	4	1				
2 10	0.47	352								1	9	49	131	89	61	12					
3 10	0.67	5012								1	14	82	137	156	89	17	4	1			
TOTAL	9.86	5812						2	3	19	162	600	1886	2954	985	154	23	4			

TABLE C62c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
SAIGON, TAN SON NHUT AFB, VIETNAM

CM-FM BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 7	1.13	844								2	6	27	103	263	308	124	21	9	1		
2 4	1.54	989									11	28	116	323	327	140	35	8	1		
2 5	1.89	505								2	6	8	58	156	90	12	6	2			
2 6	0.51	544								1	2	36	91	113	150	96	41	6	4		2
3 3	0.94	588										4	35	131	158	65	4	4			
3 4	2.26	1490									10	95	169	361	321	172	21	2	1		
3 5	0.55	286								2	3	18	60	70	84	29	2				
3 6	1.20	824								1	5	12	89	117	146	80	19	6			
3 7	0.66	471								3	11	30	146	135	167	125	20	6	3		
4 5	0.89	606										19	64	117	17	2					
5 3	0.96	262										9	48	223	229	33	1				
5 4	0.88	529										3	48	223	229	33	1				
5 5	2.74	1753						1	2	7	13	146	332	722	200	21	5	2	2		
5 6	1.12	740							3	5	18	72	235	334	51	16	3	2	1		
TOTAL	17.29	10433						1	16	75	283	1325	3391	3719	1297	238	61	16	7	4	

TABLE C62d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TOUCH-AND-GO ROLL MISSION PHASE
FOR DATA ACQUIRED AT
SAIGON, TAN SON NHUT AFB, VIETNAM

CM-FM BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
5 4	0.51	308											12	78	170	43	3	2			
TOTAL	0.51	308											12	78	170	43	3	2			

TABLE C62a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
SAIGON, TAN BINH MISSION A/D, VIETNAM

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 7	0.05	43						1	1	3	8	9	10	6	3	1						
2 4	0.10	87				1		1	3	11	13	16	14	9	3	2	2	1				
2 9	0.10	58						1	1	12	13	11	6	1	2	3	2	1				
2 6	0.05	62				1		3	4	5	5	13	7	5	12	3	1	2	1			
3 3	0.10	86							4	4	9	19	29	10	3	5	3					
3 4	0.15	132					1	1	7	19	19	22	9	21	14	8	6	7	1	1		
3 5	0.05	38							1	6	10	6	4	9	2	1	1	1				
3 6	0.05	26							1	2	4	4	3	6	3	1	1	1				
3 7	0.05	49						3	7	4	7	7	1	3	3	7	4	1				
4 5	0.05	48					1	1	4	6	8	6	9	7	2	1	1	2				
5 3	0.05	34							1	2	11	5	2	9	2	2	2					
5 4	0.11	108						3	9	10	29	17	17	6	2	3	3	2	2			
5 5	0.15	99			1			1	4	9	23	10	7	12	6	5	6	3	1			
5 6	0.05	46						1	2	6	8	5	7	3	2	2	1	1				
TOTAL	1.11	913			1	2	4	17	37	88	148	188	134	117	76	54	30	25	9	4		

TABLE C63a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE MISSION PHASE
FOR DATA ACQUIRED AT
SCOTT AFB, ILLINOIS

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	3.03	84									30	40	6									
1 3	1.25	4									1	3										
1 4	19.62	918									26	433	488	6								
1 5	37.22	2078									13	1110	1694	59	2							
1 6	26.49	1296									27	866	642	40	1							
1 7	16.68	354										147	200	7								
TOTAL	119.09	5531									66	2287	3697	118	3							

TABLE C63b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
SCOTT AFB, ILLINOIS

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.20	154							1	3	23	62	33	13		1						
1 4	0.63	324						1	4	5	18	114	131	46	12	1						
1 5	3.24	1376							3	28	188	440	389	168	34	8	1					
1 6	0.74	351				1			4	2	1	28	127	129	53	13	1					
1 7	0.63	217									9	67	87	49	5							
TOTAL	5.52	2422				1	1	4	18	34	168	610	989	329	64	11	1					

TABLE C63c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
SCOTT AFB, ILLINOIS

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.27	112							1		18	48	39	14	2	1						
1 4	1.13	368								9	39	327	197	78	12	1						
1 5	3.33	2397						1	18	47	261	813	828	344	72	12	2	2				
1 6	1.48	1071						2	4	29	137	399	345	122	28	4	1					
TOTAL	6.46	4143						3	28	85	447	1484	1489	558	114	18	3	2				

TABLE C63d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
SCOTT AFB, ILLINOIS

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 2	0.05	27							1		3	7	3	5	1	4							
1 4	0.15	85								5	16	21	18	13	9	3							
1 5	0.40	274			1	2	3	4	9	12	23	24	51	32	29	22	7	8	14	5	6	1	1
1 6	0.15	112						1	3	3	11	20	19	20	17	8	2	5	2	1			
TOTAL	0.75	498			1	2	3	5	9	15	40	67	100	93	64	40	16	13	16	6	6	1	1

TABLE C64a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE MISSION PHASE
FOR DATA ACQUIRED AT
SHEPPARD AFB, TEXAS

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	12.57	1500								35	525	776	161	3								
1 4	23.27	1433							6	71	592	641	110	6	1							
1 5	46.94	5947							6	220	2210	3185	313	13								
TOTAL	82.79	8882							12	326	3327	4602	592	22	1							

TABLE C64b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
SHEPPARD AFB, TEXAS

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.30	280							1	11	113	100	48	5	1	1						
1 4	0.62	409							1	23	127	170	82	7								
1 5	7.08	1351							4	55	465	642	173	10	2							
TOTAL	3.00	2040							5	89	705	912	303	22	3	1						

TABLE C64c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
SHEPPARD AFB, TEXAS

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	2.51	2097					1	1	7	12	171	613	966	293	22	9	1	1				
1 4	1.13	719							1	3	64	214	265	149	21							
1 5	4.28	3744					1	6	19	86	493	1197	1201	557	142	36	5	1				
TOTAL	7.92	6560					2	7	27	103	728	2024	2432	990	185	45	6	2				

TABLE C64d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TOUCH-AND-GO ROLL MISSION PHASE
FOR DATA ACQUIRED AT
SHEPPARD AFB, TEXAS

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	3.98	3222			1		6	11	65	246	577	797	494	589	327	114	31	13	1			
1 4	2.05	2412					1	4	34	123	314	571	534	477	215	92	33	13				
1 5	0.49	607					2	6	17	33	74	123	140	136	60	12	1	3				
1 7	0.89	462						2	3	19	70	108	78	133	40	6	1	2				
1 8	1.21	744						2	4	18	113	178	210	169	37	12	1					
1 9	1.11	759						1	3	34	100	177	185	188	51	14	4	2				
TOTAL	10.53	8206			1		9	26	126	473	1198	1954	1642	1692	730	250	71	33	1			

TABLE C64e
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
SHEPPARD AFB, TEXAS

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.65	610					2	11	19	43	86	135	80	93	77	28	13	13	1	1		
1 4	0.50	394			3		2	4	24	26	46	78	68	60	37	22	12	7	3	2		
1 5	0.40	374				1	3	6	9	28	51	73	71	45	33	17	18	13	4	2		
1 7	0.10	44					3	1	5	2	8	2	5	5	3	3	2	2	3			
1 8	0.15	97						2	6	10	17	24	20	8	1	1	1					
1 9	0.15	94						1	1	14	25	21	23	6	1	1	1	1				
TOTAL	1.95	1613			3	1	10	22	60	106	223	330	277	246	166	72	45	36	8	3		

TABLE C65a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAXI MISSION PHASE
FOR DATA ACQUIRED AT
TAINAN A/D, TAIWAN, FORMOSA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																						
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0			
2 6	5.58	249									2	97	139	7											
3 5	5.29	301									19	108	183	11											
TOTAL	10.87	546									21	205	302	18											

TABLE C65b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
TAINAN A/D, TAIWAN, FORMOSA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																						
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0			
1 5	0.43	374			1		3	10	23	70	82	37	56	69	34	18	3	8							
TOTAL	0.43	374			1		3	10	23	70	82	37	56	69	34	18	3	8							

TABLE C65c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
TAINAN A/D, TAIWAN, FORMOSA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
2 6	0.90	969			1	8	43	27	45	95	160	121	247	127	39	27	12	5						
TOTAL	0.90	969			1	8	43	27	45	95	160	121	247	127	39	27	12	5						

TABLE C65d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
TAINAN A/D, TAIWAN, FORMOSA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																					
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0		
7 6	0.05	50					3	9	6	2	5	1	2	6	6	3	1	5	1					
TOTAL	0.05	50					3	9	6	2	5	1	2	6	6	3	1	5	1					

TABLE C66a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAXI MISSION PHASE
FOR DATA ACQUIRED AT
TARMI A/D, THAILAND

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 8	5.01	190								10	112	60											
5 4	5.45	36				1	1	2	1		3	21	3	1	1	1	1						
TOTAL	10.46	226				1	1	2	1		10	115	69	3	1	1	1	1					

TABLE C66b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
TARMI A/D, THAILAND

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 8	0.45	514				1	3		10	37	81	131	154	60	22	4	1	2					
TOTAL	0.45	514				1	3		10	37	81	131	154	60	22	4	1	2					

TABLE C66c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
TARMI A/D, THAILAND

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
5 4	1.01	824					1	2	5	21	92	316	234	117	25	6	3	2					
TOTAL	1.01	824					1	2	5	21	92	316	234	117	25	6	3	2					

TABLE C66d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
TARMI A/D, THAILAND

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
5 4	0.03	46						2		1	13	11	8	8	2							1	
TOTAL	0.03	46						2		1	13	11	8	8	2							1	

TABLE C67a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE MISSION PHASE
FOR DATA ACQUIRED AT
TINKER AFB, OKLAHOMA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 1	33.73	1975					1	1	9	24	122	631	987	140	66	9	3	2			
1 2	158.91	5676							4	13	165	2996	2928	175	26	7					
1 3	732.00	9298						1	2	14	252	3814	4926	263	23	2	1				
1 4	98.12	6529					1	2	8	42	377	2008	2866	978	149	16	2				
1 5	136.91	4573							2	17	157	1717	2385	161	17	1					
1 6	444.01	14993							8	59	517	6702	7144	444	67	2					
1 7	484.13	13744						2	11	73	680	6713	7758	532	93	7	1				
1 8	33.71	1860								4	56	755	970	70	4	1					
1 9	0.38	0																			
1 10	322.39	17390					3	5	31	114	744	6926	8633	782	111	30	7	2			
3 10	24.93	358									3	164	189								
TOTAL	2875.22	78596					5	11	75	342	2995	31014	38898	3545	496	75	14	4			

TABLE C67b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
TINKER AFB, OKLAHOMA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 2	0.99	328								2	10	20	106	141	40	6	2	1			
1 3	1.66	743							1	2	3	29	241	352	101	11	3				
1 4	2.25	1234								1	10	68	457	574	113	9	2				
1 5	5.62	3029								3	32	185	1841	1840	359	63	6				
1 6	17.50	9402				1	2	4	35	148	734	3130	3915	1200	183	34	14	2			
1 7	6.01	3466						1	6	60	287	1182	1372	449	73	11	4	1			
1 8	1.91	890								4	71	341	355	106	11						
1 10	30.30	19240		1	1	1	10	13	63	341	2045	4127	7329	2489	496	78	19	6		1	
3 10	1.22	888						1			27	53	75	120	24	7	1				
TOTAL	67.05	38637		1	1	2	14	18	112	630	3442	12700	15400	5185	859	137	38	9		1	

TABLE C67c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
TINKER AFB, OKLAHOMA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 1	1.90	904					1	5	8	14	33	345	324	104	30	14	3	1			
1 2	11.21	5181					1	7	21	104	501	1856	1824	524	125	27	7	2			
1 3	18.31	8879				1		4	26	149	853	3343	3586	895	174	37	9	2			
1 4	10.77	4597						2	19	94	339	1428	1590	587	111	20	4	1	2		
1 5	8.18	3772						4	14	78	399	1236	1588	423	115	24	9	2	1		
1 6	7.97	4232					3	5	18	104	421	1328	1588	449	184	24	12				1
1 7	23.55	13532					3	15	48	481	1895	6134	4944	1742	383	107	43	16	2	1	
1 8	0.94	847						2	12	68	122	171	282	147	72	32	8	4			
TOTAL	82.85	41788		1	8	44	186	1083	4587	24041	15461	6891	1114	289	95	28	5	2			

TABLE C67d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TOUCH-AND-GO ROLL MISSION PHASE
 FOR DATA ACQUIRED AT
 TINKER AFB, OKLAHOMA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 1	0.45	221						1	1	13	34	69	37	46	15	4	1						
1 2	2.37	1493					2	4	28	115	251	433	415	294	110	31	10						
1 3	4.57	2790					1	8	35	120	412	802	851	364	148	38	6	4	1				
1 4	6.86	4166		4	6	10	11	46	142	466	1239	1196	713	236	62	16	14	3	1	1			
1 5	3.56	2214					1	10	17	90	293	621	672	300	104	19	3	2	2				
1 6	0.75	507					1	3	16	33	73	87	146	106	26	13	3						
1 7	8.25	6101					6	27	119	296	896	1408	1952	1014	294	72	9	8					
1 8	5.48	5154		2	2	10	31	65	193	718	1282	1613	891	268	59	12	7	1					
1 9	5.52	4915		1	4	5	11	52	193	553	1291	1599	837	277	76	11	4	1					
1 10	0.19	160					1	1	7	24	42	56	26	1	1	1							
TOTAL	37.92	27921		7	13	36	106	380	1202	3720	7274	8537	4671	1479	375	72	39	8	1	1			

TABLE C67e
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 TINKER AFB, OKLAHOMA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 1	0.20	109							6	5	13	34	16	13	6	3	6	5	1	1			
1 2	1.45	979			1	1	12	12	48	80	131	217	154	125	84	58	29	18	1	6	2		
1 3	2.38	1402				5	6	19	31	103	216	334	307	185	93	39	30	23	4	5	2		
1 4	1.51	894		2	2	2	14	12	29	57	142	186	164	105	81	37	29	17	8	4	3		
1 5	1.09	610			1	2	4	10	27	55	86	121	118	89	52	16	8	6	7	5	3		
1 6	0.60	625			2	2	2	13	27	47	98	122	128	88	47	28	11	8	1	1			
1 7	3.13	2245			3	11	33	49	78	197	361	387	418	312	175	72	69	53	14	11	2		
1 8	0.98	856				1	4	14	31	58	113	174	205	136	61	26	16	11	4	1	1		
1 9	0.55	881					2	11	17	45	131	194	190	163	83	27	11	6	1				
1 10	0.05	56						2	2	5	17	8	3	5	5	2	4	2	1				
TOTAL	12.46	8657		2	9	24	77	142	296	652	1308	1777	1703	1221	687	309	213	149	42	14	13		

TABLE C68a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
TRAVIS AFB, CALIFORNIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 2	16.90	371								3	13	160	162	12	10	3							
1 3	34.40	3382							1	14	98	1460	1625	173	11								
1 4	38.49	1772								1	98	78	857	40	1								
1 5	28.22	1532								6	53	570	800	90	5								
1 6	82.65	3793								3	162	1608	1912	107	1								
1 7	50.34	909									3	297	681	18									
1 8	95.10	2286									13	1184	1067	21	1								
2 3	35.30	1172								4	26	399	722	70		1							
2 4	11.43	149									4	54	89	2		1							
2 5	5.09	432									4	211	211	6									
2 7	2.77	16										2	14										
2 8	3.92	16										7	9										
2 10	11.21	16										4	12										
3 4	3.51	4										1	3										
3 10	33.59	146									4	52	84	6									
4 3	17.75	423									28	203	190	2									
4 4	8.37	166									2	95	67	2									
4 6	13.05	85									1	35	46	3									
4 8	11.00	89										54	35										
4 10	10.95	4										1	3										
5 4	4.80	320									16	207	97										
5 8	19.35	119										55	63	1									
7 3	8.03	107									18	38	46	5									
7 4	2.99	24										9	14	1									
7 8	10.73	111								1	9	38	59	4									
7 9	1.80	0																					
TOTAL	598.76	17534							1	32	544	7535	8876	513	29	4							

TABLE C68b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
TRAVIS AFB, CALIFORNIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 5	1.62	933					1	7	12	48	142	218	285	116	71	27	11						
1 6	9.28	3196			2		3	15	25	112	377	1031	1157	509	121	32	8	4					
1 7	2.01	1252						1	5	12	127	408	484	184	44	6	1						
1 8	4.91	2238					1	3	16	68	215	919	707	238	51	15	5						
2 7	0.43	312					2	1	3	5	42	70	124	43	16	4	1	1					
2 8	0.41	164									8	90	62	4									
2 10	1.75	1029							3	19	133	336	394	130	12	2							
3 10	7.44	3437					1	2	7	77	464	1181	1106	516	73	8	1						
4 8	0.53	242							1	4	36	74	70	48	6	1							
4 10	0.61	240						1	1	1	11	72	123	27	3							1	
5 8	2.33	1813						4	9	48	216	537	696	242	52	6	2	1					
7 8	1.03	784						1	2	14	128	238	284	104	19	1	1						
TOTAL	28.37	15840			2		8	35	85	410	1901	5174	5462	2161	468	96	31	7					

TABLE C68c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
TRAVIS AFB, CALIFORNIA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 2	3.93	497								6	47	173	211	52	7	1							
1 3	7.76	3918				1	3	7	41	139	467	1841	1390	490	134	36	11	1	1				
1 4	11.29	5514			1				30	151	667	1862	1826	694	212	49	5	6					
1 5	7.68	4836							9	14	127	333	1272	1449	694	208	29	8	1				
1 6	7.74	4767						2	20	133	517	1923	1809	582	124	37	7	1					
2 3	8.59	1313				1	2	4	9	17	77	342	713	98	29	14	3	3	1				
2 4	3.17	741								2	5	65	382	310	44	13	7	5					
2 5	0.64	315									5	30	92	130	31	7							
3 4	1.11	290									28	186	120	24	1	1							
3 10	0.91	322									3	25	136	63	82	11	2						
4 3	1.98	966								6	16	181	175	224	37	5	1	1					
4 4	1.06	162									3	18	66	99	16	7	1						
4 6	1.77	648									5	39	164	188	45	3	1						
5 4	0.76	863							2	8	68	198	225	214	119	22	8	4					
7 3	0.48	355						1		9	16	67	70	110	66	14	2						
7 4	1.85	327									2	44	187	152	19	3							
TOTAL	59.62	24721			1	2	11	28	199	687	2895	8256	8656	3013	880	174	45	12	2				

TABLE C484
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TOUCH-AND-GO ROLL MISSION PHASE
 FOR DATA ACQUIRED AT
 TRAVIS AFB, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEARS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 3	1.37	895			2	1	7	7	29	64	150	160	206	147	71	32	15	4					
1 4	2.48	1506					4	13	29	99	212	302	368	280	112	46	19	13	1				
1 5	3.69	2080					6	17	32	107	313	610	594	270	93	23	11	3	1				
1 6	1.33	749					5	8	20	41	131	152	201	115	44	13	10	6	1				
TOTAL	9.87	5230			2	1	22	45	110	311	806	1224	1371	820	370	114	55	26	7				

TABLE C485
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 TRAVIS AFB, CALIFORNIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEARS	LOAD FACTOR DISTRIBUTION (G)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 2	0.10	49					7	4	21	2	8	10	13	2	1	2			1				
1 3	0.60	480							48	76	73	61	61	16	23	16	14	7	1				
1 4	0.79	552			1	5	17	16	21	52	69	75	83	70	45	40	21	17	13	6	1		
1 5	0.75	513			1	5	7	18	28	51	86	67	62	80	48	35	16	14	5	2			
1 6	0.50	375					6	6	17	38	61	57	70	38	30	16	11	8	12	5			
2 3	0.35	213			2		4	3	11	7	16	42	39	29	13	10	7	6	3	1			
2 4	0.10	71					1	2	2	10	11	9	12	9	4	5	3	1					
2 5	0.05	26							1	3	2	7	7	1	1	3		1					
3 4	0.05	38								2	6	12	9	7	2								
3 10	0.05	20									2	11	1	2	1								
4 3	0.10	72							1		6	22	31	9	1		1						
4 4	0.05	44					1	1	1	3	5	8	5	9	4	2	2	1					
4 6	0.05	50					1		1	5	13	5	4	2	10	4	4	1					
5 4	0.05	47						5	1	8	4	6	4	2	5	8	1	1	2				
7 3	0.05	34			1	2	1	2	4	4	5	6	3	1	2	2	2						
7 4	0.05	40							4	3	7	7	1	5	7	4							
TOTAL	3.65	2804			5	13	50	54	120	233	399	405	407	341	210	153	86	65	47	15	1		

TABLE C69a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
TULSA INTL, OKLAHOMA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	15.84	1053								2	41	342	597	68	2	1						
TOTAL	15.84	1053								2	41	342	597	68	2	1						

TABLE C69b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
TULSA INTL, OKLAHOMA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	0.66	500							10	34	82	117	160	117	42	20	4					
TOTAL	0.66	500							10	34	82	117	160	117	42	20	4					

TABLE C69c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
TULSA INTL, OKLAHOMA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 4	1.20	1162					1	1	3	43	136	372	363	196	37	9	1					
TOTAL	1.20	1162					1	1	3	43	136	372	363	196	37	9	1					

TABLE C69d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TOUCH-AND-GO ROLL MISSION PHASE
FOR DATA ACQUIRED AT
TULSA INTL, OKLAHOMA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	1.03	1087				5	17	24	57	117	214	378	395	309	129	120	66	43	3			
1 4	1.58	1706					1	6	40	80	229	437	393	327	120	51	11	1				
1 5	2.33	1569						1	16	75	234	545	481	160	46	7	1	1				
1 7	0.29	249					2	6	13	27	36	43	43	41	25	12	1					
1 8	1.17	1025					1	6	12	57	162	266	333	122	59	7	2	2				
1 9	1.27	1044					1	1	5	21	86	392	418	102	11	3	2	2				
TOTAL	2.47	7400				9	22	46	143	385	961	2061	2063	1061	386	208	83	53	3			

TABLE C69e
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
TULSA INTL, OKLAHOMA

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.85	320				3	1	4	11	18	54	71	64	41	30	17	7	4	1			
1 4	0.40	349					1	10	13	28	43	71	58	63	39	11	6	4	2			
1 5	0.25	190					3	3	3	10	28	49	54	23	7	3	1	1	1			
1 7	0.09	54								2	8	15	12	9	5	3	1	1				
1 8	0.20	169					1	2	5	14	24	34	42	24	10	4	2	2	1	1		
1 9	0.20	130					1	2	4	2	19	33	34	20	9	3	2	1				
TOTAL	1.45	1222				3	7	21	34	76	176	273	268	182	100	62	19	13	5	1		

TABLE C70a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAXI MISSION PHASE
FOR DATA ACQUIRED AT
UBON A/D, THAILAND

CW-FW BLOCK	BLOCK TYPE (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 7	4.78	98								2	76	19	1								
3 2	6.31	1227							1	25	163	465	482	79	11	1					
TOTAL	11.11	1325							1	25	165	541	501	80	11	1					

TABLE C70b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
UBON A/D, THAILAND

CW-FW BLOCK	BLOCK TYPE (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 7	0.83	579				1	13	23	46	53	79	64	102	66	66	42	18	4	1	1	
TOTAL	0.53	579				1	13	23	46	53	79	64	102	66	66	42	18	4	1	1	

TABLE C70c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
UBON A/D, THAILAND

CW-FW BLOCK	BLOCK TYPE (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 2	0.73	623					8	8	28	53	134	74	197	75	22	14	5	4	1		
TOTAL	0.73	623					8	8	28	53	134	74	197	75	22	14	5	4	1		

TABLE C70d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
UBON A/D, THAILAND

CW-FW BLOCK	BLOCK TYPE (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																		
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 2	0.89	46			1	1	5	5	7	4	5	1	3	3	2	2	1	3	3		
TOTAL	0.89	46			1	1	5	5	7	4	5	1	3	3	2	2	1	3	3		

TABLE C71a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
WAKE AIRPORT, WAKE ISLAND

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 2	5.03	5								2	3											
2 3	11.81	188								84	98											
2 9	7.24	356								61	119	141	24	2	1							
2 10	27.32	2630						1	5	39	333	917	1042	253	31	7	2					
3 2	4.38	0																				
3 3	29.29	126								8	51	62		5								
3 8	11.65	61									29	31		1								
3 9	7.05	701								5	5	72	253	280	66	18			2			
3 10	45.57	2212								2	17	155	911	932	182	11	2					
4 2	1.41	0																				
4 3	2.38	6																				
4 7	4.78	5																				
4 8	4.40	1103								6	31	133	315	419	167	28	4					
4 10	6.78	514								1		61	258	189	22	2	1					
5 3	6.99	60										8	26	23	3							
5 9	10.30	177										1	64	102	5							
5 10	5.70	1078						5	3	31	26	148	332	324	122	57	17	10	3			
7 4	0.60	34												4	29							
7 9	14.56	293												118	175							
TOTAL	219.88	9544						8	4	50	124	960	3484	3860	957	149	32	14	3			

TABLE C71b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RIM MISSION PHASE
FOR DATA ACQUIRED AT
WAKE AIRPORT, WAKE ISLAND

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 9	0.34	530								17	47	83	117	134	82	27	12	7		2		
2 10	2.02	1974								6	17	131	287	351	403	281	144	94	18	26	7	1
3 8	0.55	475								3	16	29	157	185	56	20	7	1				
3 9	0.59	600								8	15	35	97	125	129	75	32	25	13	7	2	7
3 10	4.80	3080								1	6	19	28	95	174	481	620	695	555	263	105	36
4 8	0.59	695								3	1	4	11	43	78	92	138	67	36	9	4	1
4 10	0.54	418								3	10	21	57	94	112	64	36	16	4	2	1	
5 9	0.61	474								1	1	4	9	23	55	81	59	93	74	46	17	8
5 10	0.55	549								1	3	12	11	34	59	100	58	99	92	48	22	4
7 4	1.38	1105								1	4	9	14	28	100	167	209	208	197	98	41	20
TOTAL	11.37	9695								6	24	96	133	346	674	1440	1882	2196	1543	772	246	135

TABLE C71c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-OUT MISSION PHASE
FOR DATA ACQUIRED AT
WAKE AIRPORT, WAKE ISLAND

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 2	1.17	279																				
2 3	1.63	1875																				
1 2	0.87	167																				
3 3	5.57	2770																				
4 3	1.10	216																				
4 7	0.99	257																				
5 2	1.94	727																				
7 4	1.90	1038																				
TOTAL	17.24	7350																				

TABLE C71d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
WAKE AIRPORT, WAKE ISLAND

CW-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
2 2	0.05	54																				
2 3	0.15	148																				
3 2	0.25	47																				
3 3	0.30	309																				
4 1	0.65	52																				
4 7	0.05	31																				
5 3	0.10	104																				
7 4	0.18	122																				
TOTAL	0.85	882																				

TABLE C72a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF MISSION PHASE
FOR DATA ACQUIRED AT
WHEELUS AB, LIBYA

CM-FW BLOCK BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
		0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 0	1.00									2	1										
4 3	7.53										1										
TOTAL	9.31									2	2										

TABLE C72b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TAKE-OFF RUN MISSION PHASE
FOR DATA ACQUIRED AT
WHEELUS AB, LIBYA

CM-FW BLOCK BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
		0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 0	0.49								5	2	31	137	124	35	3						1
TOTAL	0.49								5	2	31	137	124	35	3						1

TABLE C72c
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING ROLL-MIT MISSION PHASE
FOR DATA ACQUIRED AT
WHEELUS AB, LIBYA

CM-FW BLOCK BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
		0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
4 3	0.45								6	15	99	64	126	49	12	5					1
TOTAL	0.45								6	15	99	64	126	49	12	5					1

TABLE C72d
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
WHEELUS AB, LIBYA

CM-FW BLOCK BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
		0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
4 3	0.05								3	1	0	0	3	6	3	1					
TOTAL	0.05								3	1	0	0	3	6	3	1					

TABLE C73a
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
TOUCH-AND-GO ROLL MISSION PHASE
FOR DATA ACQUIRED AT
WHITMAN AFB, MISSOURI

CM-FW BLOCK BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
		0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.28							3	2	10	33	52	38	36	13	0					1
1 4	1.04						1	10	24	49	122	156	103	100	45	27					7
1 5	0.66						1	4	5	26	53	80	82	49	39	9					4
TOTAL	1.98						2	17	31	85	207	288	302	193	97	44					12

TABLE C73b
DISTRIBUTION OF GROUND LOAD FACTORS
FOR THE
LANDING IMPACT MISSION PHASE
FOR DATA ACQUIRED AT
WHITMAN AFB, MISSOURI

CM-FW BLOCK BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (G)																			
		0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 3	0.09							1						6	2						
1 4	0.20						1	1	5	10	26	31	34	21	13	0					1
1 5	0.10				1	1			1	4	6	2	9	6	3	2	1			1	1
TOTAL	0.39				1	1	1	2	6	16	38	38	49	29	16	11	1		1	1	1

TABLE C74a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI MISSION PHASE
 FOR DATA ACQUIRED AT
 WILKES-BARRE-SCRANTON, PENNSYLVANIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	4.69	0																				
3 6	4.33	0																				
TOTAL	9.02	0																				

TABLE C74b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 WILKES-BARRE-SCRANTON, PENNSYLVANIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
3 6	0.41	8																				
TOTAL	0.41	8																				

TABLE C74c
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 WILKES-BARRE-SCRANTON, PENNSYLVANIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	0.87	85								1	4	37	39	3	1							
TOTAL	0.87	85								1	4	37	39	3	1							

TABLE C74d
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 WILKES-BARRE-SCRANTON, PENNSYLVANIA

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	0.05	16								1		1	1	5		2	2	1	2	1		
TOTAL	0.05	16								1		1	1	5		2	2	1	2	1		

TABLE C76
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAXI MISSION PHASE
 FOR DATA ACQUIRED AT
 WRIGHT-PATTERSON AFB, OHIO

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	15.36	879								5	275	300	75									
1 7	9.12	556								13	216	275	12									
3 9	7.99	482								2	206	234										
TOTAL	32.47	1897								20	697	1007	85									

TABLE C77
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN MISSION PHASE
 FOR DATA ACQUIRED AT
 WRIGHT-PATTERSON AFB, OHIO

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	1.51	139								1	55	73	9									
1 7	0.34	349						1		1	8	30	141	115	30	14				1		
TOTAL	1.85	488					1		1	8	31	106	188	47	14				1			2

TABLE C78
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING ROLL-OUT MISSION PHASE
 FOR DATA ACQUIRED AT
 WRIGHT-PATTERSON AFB, OHIO

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	0.81	732								3	19	82	247	173	147	90	10	1				
3 9	0.90	574						2	1	3	14	96	219	187	44	5	1					
TOTAL	1.71	1306						2	1	6	33	178	466	360	193	95	11	1				

TABLE C79
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 LANDING IMPACT MISSION PHASE
 FOR DATA ACQUIRED AT
 WRIGHT-PATTERSON AFB, OHIO

CM-FW BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																			
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0
1 6	0.05	73								5	3	13	13	10	17	6	3	3				
3 9	0.05	42						2	1			5	8	5	6	4	1	2				
TOTAL	0.10	115						2	1	5	8	21	21	15	23	10	4	5				

TABLE C76a
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF PHASE
 FOR DATA ACQUIRED AT
 YOKOTA AB, JAPAN

CU-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 3	23.10	1270								4	111	525	692	26									
1 4	05.00	2070								3	107	777	1000	100	7								
1 5	01.04	1940								1	71	737	714	25									
1 6	0.00	523										299	303	11									
1 7	0.52	16										4	12										
1 9	0.27	301										152	146	1									
1 10	03.93	4227								15	141	1554	2311	194	9					1	2		
2 3	0.00	81									1	34	44	2									
2 4	23.07	417									4	197	210	5	1								
2 5	16.24	282									7	113	102										
2 8	0.04	280									1	102	172	11									
2 10	01.17	2177								1	60	911	1137	40									
3 1	29.39	1950							1	0	85	504	592	139	23	4							
3 4	29.99	770									14	354	347	7									
3 5	3.91	6										1	5										
3 8	13.44	603									1	190	405	5									
3 9	0.49	576								1	6	207	305	7								2	
3 10	100.00	3100							1	4	20	159	1323	1441	112	16	7	1					
4 3	14.61	1700							1	0	150	499	400	50	2								
4 4	11.07	204									11	112	79	7									
4 7	0.01	73										40	32	1									
4 8	14.20	1394								1	80	593	643	49									
4 9	10.99	400									20	210	225	15									
4 10	01.02	801									19	169	400	9									
5 1	10.40	102									1	59	34	6									
5 4	10.07	190									2	51	145										
5 7	0.04	343									4	173	182	4									
5 8	0.31	391									29	105	133	4									
5 9	3.91	110										20	95										
5 10	09.09	1410								2	15	530	810	44	1								
TOTAL	793.96	26262							1	6	64	1131	10705	13932	609	61	11	1			1	4	

TABLE C76b
 DISTRIBUTION OF GROUND LOAD FACTORS
 FOR THE
 TAKE-OFF RUN REVISION PHASE
 FOR DATA ACQUIRED AT
 YOKOTA AB, JAPAN

CU-PH BLOCK	BLOCK TIME (MIN.)	TOTAL PEAKS	LOAD FACTOR DISTRIBUTION (%)																				
			0.0	0.3	0.5	0.6	0.7	0.75	0.80	0.85	0.90	0.95	1.05	1.10	1.15	1.20	1.25	1.3	1.4	1.5	1.7	2.0	
1 6	0.44	537								4	25	66	136	164	79	39	4						
1 9	0.32	350									16	69	79	101	75	15	2						
1 10	5.01	4475									25	282	676	1051	1003	778	329	112					
2 8	0.94	244				2	13	1			25	84	282	676	1051	1003	778	329	112				
2 10	10.94	4004				1	8	34	60	142	377	715	1199	1073	834	332	199	62	43	6	1		
3 8	0.99	1001							2	4	26	130	309	312	143	58	15						
3 9	1.29	1202							3	20	91	208	340	322	179	80	15						
3 10	4.44	4140				1	11	52	114	320	790	994	1091	605	229	95	37	11					
4 8	0.96	804							5	34	124	190	226	211	71	11	4	1					
4 9	0.68	347				1	2	2	4	21	73	134	61	42	100	50	20	5	2	1	1		
4 10	3.14	2992				1	2	4	9	35	120	497	501	420	436	122	15	10	6				
5 7	0.62	531							3	24	87	151	157	88	17	4							
5 8	0.64	579							4	8	21	55	102	101	119	109	45	8	1				
5 9	0.65	609							9	41	94	130	150	151	140	47	14	12	2				
5 10	5.97	2994							4	4	20	151	423	761	723	612	203	36	19	29	1		
TOTAL	24.04	25001				3	13	74	181	594	1714	4300	9073	6262	4553	1667	919	179	107	14	2		

PRECEDING PAGE BLANK - NOT FIXED

APPENDIX D

ATMOSPHERIC TURBULENCE STUDY DATA

TABLE D1

List of Routes Over Which Atmospheric
Turbulence Study Data was Acquired

Route Flown	Total Time (Hours)	Total Distance (Nautical Miles)
Alameda NAS, California - (local)	0.77	283.0
Alameda NAS, California - Classified	8.20	2894.1
Anderson AB, Guam - Yokota AB, Japan	1.18	485.3
Anderson AB, Guam - Kadena AB, Okinawa	6.63	2642.8
Anderson AB, Guam - Mactan Island A/D, Cebu, Philippines	3.50	1375.4
Anderson AB, Guam - Saigon, Tan Son Nhut A/D, Vietnam	9.67	4221.9
Anderson AB, Guam - Don Muang A/D, Bangkok, Thailand	6.76	2851.5
Andrews AFB, Washington D. C. - Robins AFB, Georgia	1.61	642.8
Andrews AFB, Washington D. C. - McGuire AFB, New Jersey	0.65	166.6
Andrews AFB, Washington D. C. - Rhein Main A/D, Germany	8.59	3746.0
Andrews AFB, Washington D. C. - Howard AFB, Canal Zone	5.18	2224.9
Ascension Islands, South Atlantic - Zandery AD, Surinam	3.80	1647.0
Ascension Islands, South Atlantic - Guararapes, Recife, Brazil	3.07	1226.2
Asuncion, Paraguay - Buenos Aires, Argentina	1.77	650.7
Birmingham Municipal, Alabama - McCoy AFB, Florida	1.15	423.8
Brazilia, Brazil - Rio De Janeiro, Brazil	1.22	579.0
Buckley ANG Base, Colorado - (local)	2.04	701.0
Caracas, Venezuela - Brazilia, Brazil	4.89	2118.2
Charleston AFB/Municipal, South Carolina - (local)	287.77	72919.0
Charleston AFB/Municipal, South Carolina - McGuire AFB, New Jersey	9.21	3176.7
Charleston AFB/Municipal, South Carolina - Quonset Point NAS, Rhode Island	2.55	839.8
Charleston AFB/Municipal, South Carolina - Griffis AFB, New York	1.74	687.1
Charleston AFB/Municipal, South Carolina - Dobbins AFB/NAS, Georgia	4.93	1477.1
Charleston AFB/Municipal, South Carolina - Langley AFB, Virginia	1.11	366.1

TABLE DI continued

Route Flown	Total Time (Hours)	Total Distance (Nautical Miles)
Charleston AFB/Municipal, South Carolina - Elgin AFB, Florida	6.31	2430.0
Charleston AFB/Municipal, South Carolina - Laurence G. Hanscom Field, Massachusetts	1.91	736.2
Charleston AFB/Municipal, South Carolina - Seymour Johnson AFB, North Carolina	0.65	213.8
Charleston AFB/Municipal, South Carolina - Rhein Main A/D, Germany	8.78	3763.3
* Charleston AFB/Municipal, South Carolina - Torrejon De Ardoz AB, Spain	32.01	13499.5
Charleston AFB/Municipal, South Carolina - Rota NS, Spain	8.91	3757.2
Charleston AFB/Municipal, South Carolina - Toul Rosieres AB, France	8.63	3760.3
Charleston AFB/Municipal, South Carolina - Howard AFB, Canal Zone	9.16	3693.4
Charleston AFB/Municipal, South Carolina - Zandery AD, Surinam	6.69	2688.6
Charleston AFB/Municipal, South Carolina - Guararapes, Recife, Brazil	8.82	3766.6
Chateauroux AB, France - Lajes A/D, Azores	4.01	1835.2
Clark AB, Philippines - (local)	4.22	1717.8
* Clark AB, Philippines - Anderson AB, Guam	29.37	11886.4
* Clark AB, Philippines - Yokota AB, Japan	94.61	39761.2
Clark AB, Philippines - Kadena AB, Okinawa	14.19	5878.4
Clark AB, Philippines - Mactan Island A/D, Cebu, Philippines	4.57	1902.4
* Clark AB, Philippines - Saigon, Tan Son Nhut A/D, Vietnam	79.91	32150.6
Clark AB, Philippines - Don Muang A/D, Bangkok, Thailand	11.59	4905.9
Clark AB, Philippines - Pleiku A/D, Vietnam	3.98	1470.0
Clark AB, Philippines - Ubon A/D, Thailand	2.97	1234.1
Clark AB, Philippines - Udorn A/D, Thailand	3.00	1276.8
Dhahran A/D, Saudi Arabia - Karachi Civil A/D, Pakistan	8.24	3371.1
* Don Muang A/D, Bangkok, Thailand - New Delhi/Palam A/D, India	22.80	9687.3
Dover AFB, Delaware - (local)	281.57	76821.1
* Dover AFB, Delaware - Charleston AFB/Municipal, South Carolina	27.53	10331.3
Dover AFB, Delaware - McGuire AFB, New Jersey	0.51	118.1

TABLE D1 continued

Route Flown	Total Time (Hours)	Total Distance (Nautical Miles)
Dover AFB, Delaware - Quonset Point NAS, Rhode Island	0.88	297.1
Dover AFB, Delaware - Dobbins AFB/NAS, Georgia	16.35	6222.6
Dover AFB, Delaware - Birmingham Municipal, Alabama	1.88	751.9
Dover AFB, Delaware - McCoy AFB, Florida	2.14	843.7
Dover AFB, Delaware - Norfolk NAS, Virginia	0.62	163.1
Dover AFB, Delaware - Lakehurst NAS, New Jersey	10.63	2789.6
Dover AFB, Delaware - Elgin AFB, Florida	2.18	870.1
Dover AFB, Delaware - Pope AFB, North Carolina	4.95	1314.6
Dover AFB, Delaware - Laurence G. Hanscom Field, Massachusetts	1.97	636.1
* Dover AFB, Delaware - Chateauroux AB, France	41.12	18130.9
Dover AFB, Delaware - Mildenhall A/D, England	16.61	7242.4
Dover AFB, Delaware - Lajes A/D, Azores	3.55	1565.9
Dover AFB, Delaware - Rhein Main A/D, Germany	7.97	3257.2
Dover AFB, Delaware - Lyneham A/D, England	6.79	2920.2
Dover AFB, Delaware - Bodo A/D, Norway	11.91	5153.3
Elmendorf AFB, Alaska - (local)	0.87	301.7
Elmendorf AFB, Alaska - North Island NAS, California	5.00	2025.7
* Elmendorf AFB, Alaska - Dover AFB, Delaware	157.34	67083.3
* Elmendorf AFB, Alaska - Charleston AFB/Municipal, South Carolina	55.79	23542.7
* Elmendorf AFB, Alaska - McGuire AFB, New Jersey	24.49	10301.7
Elmendorf AFB, Alaska - Quonset Point NAS, Rhode Island	15.95	6813.9
Elmendorf AFB, Alaska - Elgin AFB, Florida	8.35	3670.4
* Elmendorf AFB, Alaska - Laurence G. Hanscom Field, Massachusetts	24.72	10365.3
* Elmendorf AFB, Alaska - Yokota AB, Japan	259.32	111092.7
Elmendorf AFB, Alaska - Kadena AB, Okinawa	5.81	2455.6
El Paso International, Texas - Dover AFB, Delaware	8.15	3349.2
El Toro MCAS, California - Kadena AB, Okinawa	12.82	5291.7

TABLE D1 continued

Route Flown	Total Time (Hours)	Total Distance (Nautical Miles)
England AFB, Louisiana - Dobbins AFB/NAS, Georgia	1.40	508.5
Hickam AFB, Hawaii - (local)	3.01	823.6
* Hickam AFB, Hawaii - Wake Airport, Wake Island	79.62	33948.2
* Hickam AFB, Hawaii - Clark AB, Philippines	134.27	57173.2
* Hickam AFB, Hawaii - Anderson AB, Guam	98.32	42179.8
* Hickam AFB, Hawaii - Yokota AB, Japan	22.28	9332.6
Hickam AFB, Hawaii - Naha AB, Okinawa	7.72	3390.0
Hickam AFB, Hawaii - Christ Church, New Zealand	19.55	8349.6
Hunter AFB, Georgia - McCoy AFB, Florida	0.77	250.5
* Kadena AB, Okinawa - Saigon, Tan Son Nhut A/D, Vietnam	21.32	8904.3
Kadena AB, Okinawa - Danang AB, Vietnam	3.50	1344.8
Kadena AB, Okinawa - Don Muang A/D, Bangkok, Thailand	4.16	1334.3
Kadena AB, Okinawa - Kimpo International Airport, Seoul, Korea	1.98	768.8
Karachi Civil A/D, Pakistan - New Delhi/Palam A/D, India	10.52	4039.6
Karachi Civil A/D, Pakistan - Nha Trang AD, Vietnam	2.86	1055.7
Kelly AFB, Texas - Alameda NAS, California	3.07	1254.8
* Kelly AFB, Texas - Elmendorf AFB, Alaska	76.18	32860.2
Kelly AFB, Texas - Scott AFB, Illinois	4.14	1637.4
* Kelly AFB, Texas - Dover AFB, Delaware	23.80	9879.0
Kelly AFB, Texas - Charleston AFB/Municipal, South Carolina	14.33	5850.3
Kelly AFB, Texas - Hunter AFB, Georgia	2.92	1145.7
Kelly AFB, Texas - Quonset Point NAS, Rhode Island	4.74	2047.2
Kelly AFB, Texas - Hickam AFB, Hawaii	17.92	7493.5
Lajes A/D, Azores - Sigonella A/D, Italy	5.13	2159.5
Lowry AFB, Colorado - Dover AFB, Delaware	4.22	1803.2
McClellan AFB, California - Lowry AFB, Colorado	2.88	1096.3
McClellan AFB, California - Hickam AFB, Hawaii	1.07	456.5
McGuire AFB, New Jersey - Griffis AFB, New York	0.95	312.3
McGuire AFB, New Jersey - Hickam AFB, Hawaii	6.27	2709.4

TABLE D1 continued

Route Flown	Total Time (Hours)	Total Distance (Nautical Miles)
McGuire AFB, New Jersey - Mildenhall A/D, England	7.45	3278.9
* McGuire AFB, New Jersey - Rhein Main A/D, Germany	108.55	46861.9
Nellis AFB, Nevada - Wake Airport, Wake Island	10.55	4724.9
Norfolk NAS, Virginia - Lajes A/D, Azores	5.26	2222.7
North Island NAS, California - Charleston AFB/Municipal, South Carolina	4.84	1912.7
Point Mugu NAS, California - Hickam AFB, Hawaii	6.45	2777.9
Rhein Main A/D, Germany - Lyneham A/D, England	1.22	464.0
Rhein Main A/D, Germany - Bodo AD, Norway	6.35	2638.6
Rhein Main A/D, Germany - Goose Bay, Labrador	5.00	2169.6
Rio De Janeiro, Brazil - Asuncion, Paraguay	2.24	874.6
Robins AFB, Georgia - Dover AFB, Delaware	13.12	4952.5
Robins AFB, Georgia - McCoy AFB, Florida	0.96	323.1
Saigon, Tan Son Nhut A/D, Vietnam - Danang AB, Vietnam	0.96	398.1
Saigon, Tan Son Nhut A/D, Vietnam - Don Muang A/D, Bangkok, Thailand	10.30	3838.2
Scott AFB, Illinois - Andrews AFB, Washington D. C.	1.65	640.9
Scott AFB, Illinois - Dover AFB, Delaware	3.77	1481.6
Scott AFB, Illinois - Charleston AFB/Municipal, South Carolina	6.22	2322.9
Scott AFB, Illinois - McGuire AFB, New Jersey	2.44	943.3
Scott AFB, Illinois - Buckley ANG Base, Colorado	3.75	1476.7
Seymour Johnson AFB, North Carolina - Bodo AD, Norway	7.42	3063.3
Shaw AFB, South Carolina - Toul Rosieres AB, France	2.39	1035.1
Sheppard AFB, Texas - Charleston AFB/Municipal, South Carolina	2.68	1076.2
* Tinker AFB, Oklahoma - Travis AFB, California	32.19	13054.3
Tinker AFB, Oklahoma - Dallas Love Field, Texas	0.66	200.4
Tinker AFB, Oklahoma - Robins AFB, Georgia	1.84	737.9

TABLE D1 continued

Route Flown	Total Time (Hours)	Total Distance (Nautical Miles)
Tinker AFB, Oklahoma - Dover AFB, Delaware Tinker AFB, Oklahoma -	3.08	1229.8
Charleston AFB/Municipal, South Carolina	2.02	825.4
Torrejon De Ardoz AB, Spain - Rota NS, Spain	1.07	375.3
* Torrejon De Ardoz AB, Spain - Dhahran A/D, Saudi Arabia	21.24	9009.1
Torrejon De Ardoz AB, Spain - Karachi Civil A/D, Pakistan	3.77	1634.3
Travis AFB, California - (local)	415.52	95489.9
Travis AFB, California - Portland International, Oregon	2.57	940.2
Travis AFB, California - McChord AFB, Washington	3.06	1205.6
Travis AFB, California - Dallas Love Field, Texas	3.95	1615.6
Travis AFB, California - Holloman AFB, New Mexico	4.74	1863.5
* Travis AFB, California - Kelly AFB, Texas	24.43	10316.4
Travis AFB, California - James Connally AFB, Texas	4.13	1629.6
Travis AFB, California - Yuma MCAS/International, Arizona	4.99	1628.5
Travis AFB, California - Nellis AFB, Nevada	1.14	425.7
Travis AFB, California - Elmendorf AFB, Alaska	13.92	5863.5
Travis AFB, California - Point Mugu NAS, California	0.85	291.6
Travis AFB, California - England AFB, Louisiana	4.77	2030.3
Travis AFB, California - Hill AFB, Utah	5.78	2199.1
Travis AFB, California - Stewart AFB, New York	12.24	4931.3
Travis AFB, California - Scott AFB, Illinois	3.74	1556.7
Travis AFB, California - Andrews AFB, Washington D. C.	6.37	2651.8
Travis AFB, California - Robins AFB, Georgia	5.59	2397.7
* Travis AFB, California - Dover AFB, Delaware	40.02	16648.9
* Travis AFB, California - Charleston AFB/Municipal, South Carolina	22.47	9545.1
* Travis AFB, California - McGuire AFB, New Jersey	23.66	10001.6
Travis AFB, California - Quonset Point NAS, Rhode Island	14.09	5933.9

TABLE D1 concluded

Route Flown	Total Time (Hours)	Total Distance (Nautical Miles)
Travis AFB, California - Langley AFB, Virginia	6.49	2702.7
* Travis AFB, California - Hickam AFB, Hawaii	289.95	122210.1
* Travis AFB, California - Wake Airport, Wake Island	454.29	191945.8
* Travis AFB, California - Yokota AB, Japan	159.89	67797.6
Travis AFB, California - Classified	4.45	1640.2
* Wake Airport, Wake Island - Clark AB, Philippines	164.09	70231.2
Wake Airport, Wake Island - Anderson AB, Guam	9.90	4014.2
Wake Airport, Wake Island - Yokota AB, Japan	6.31	2324.4
Wake Airport, Wake Island - Mactan Island A/D, Cebu, Philippines	6.69	2858.5
* Wake Airport, Wake Island - Saigon, Tan Son Nhut A/D, Vietnam	20.73	8935.0
Yokota AB, Japan - (local)	1.37	250.4
Yokota AB, Japan - Kadena AB, Okinawa	13.97	5667.6
Yokota AB, Japan - Naha AB, Okinawa	1.95	735.9
* Yokota AB, Japan - Saigon, Tan Son Nhut A/D, Vietnam	119.66	50911.8
Yokota AB, Japan - Danang AB, Vietnam	19.94	8388.6
Yokota AB, Japan - Don Muang A/D, Bangkok, Thailand	6.00	2486.9
Yokota AB, Japan - Ubon A/D, Thailand	10.87	4512.1
Yokota AB, Japan - Kimp'o International Airport, Seoul, Korea	1.94	740.0
Yuma MCAS/International, Arizona - (local)	16.28	4027.5

* Routes for which data is included in the composited Atmospheric Turbulence Study data sample

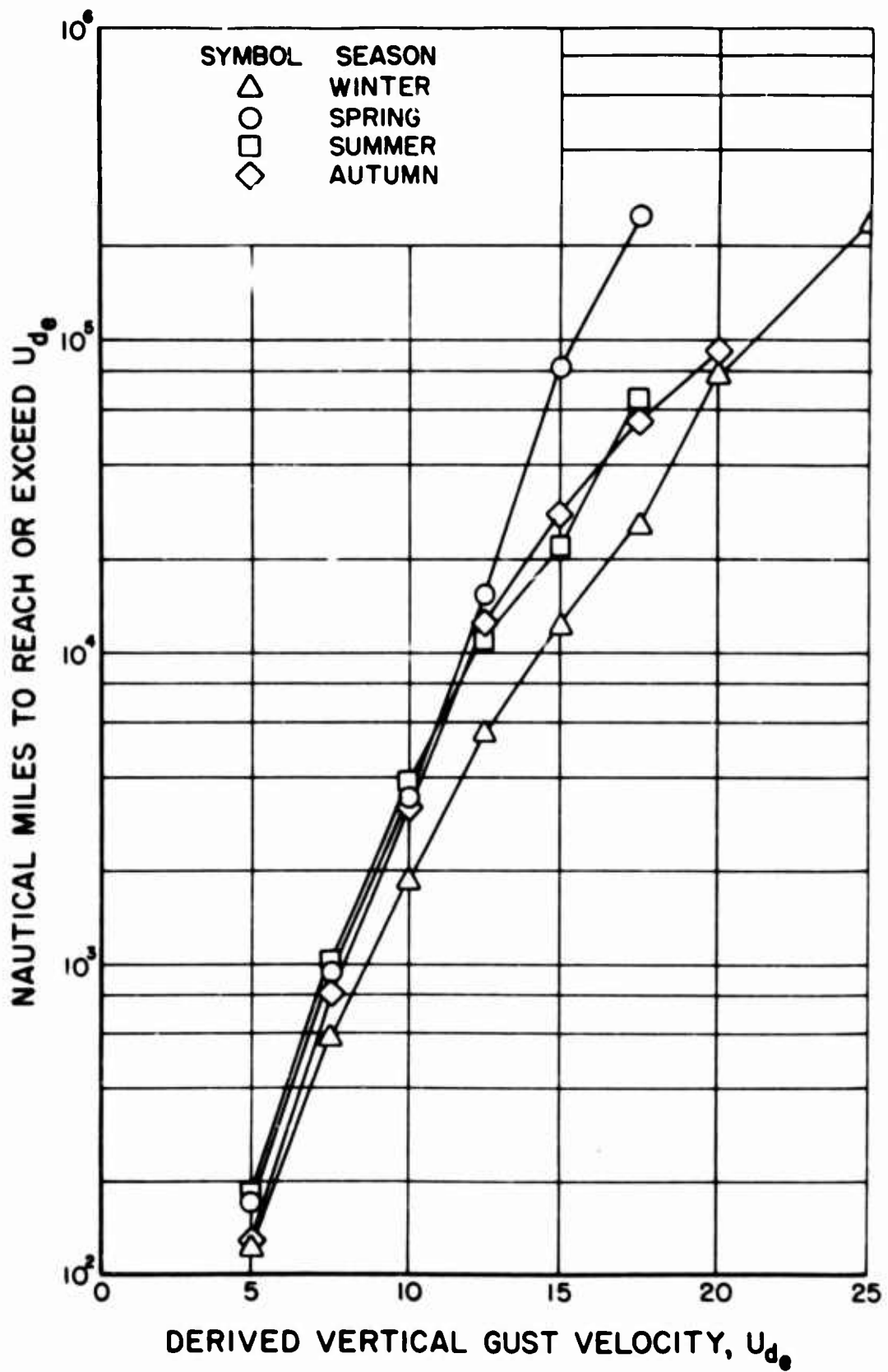


Figure D1. Comparison of the Positive Derived Vertical Gust Velocity Spectra by Season for Altitudes Greater than 30,000 feet

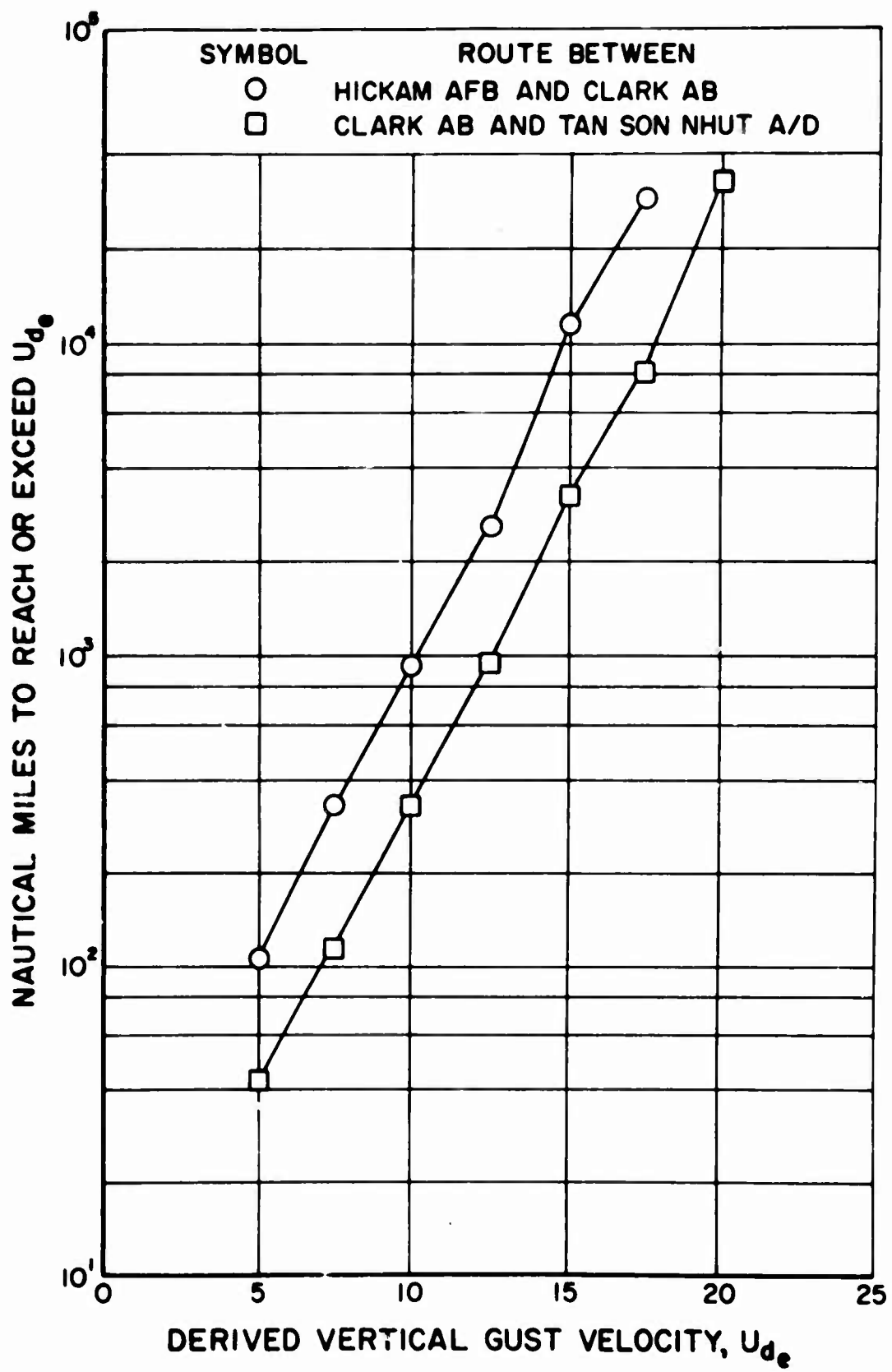


Figure D2. Comparison of the Positive Derived Vertical Gust Velocity Spectra of Two Routes Encountered in the Atmospheric Turbulence Study

TABLE D2a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																				
1 TO 2	0	0	0																				
2 TO 5	0	0	0																				
5 TO 10	0	0	0																				
10 TO 15	0	0	0																				
15 TO 20	44.18	16063.9	563																				
20 TO 25	75.47	30080.8	1382																				
25 TO 30	196.58	82251.8	1450																				
30 TO 35	832.86	361453.4	4575																				
ABOVE 35	1425.98	22923.9	6175																				
TOTAL	2557.46	1112758.8	14142																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	14.42	222.2	2603																				
1 TO 2	24.90	4116.6	3208																				
2 TO 5	52.74	11381.8	5122																				
5 TO 10	42.17	12143.0	1929																				
10 TO 15	37.79	12567.5	800																				
15 TO 20	1.98	708.9	30																				
20 TO 25	4.27	1667.5	130																				
25 TO 30	6.25	2644.0	120																				
30 TO 35	12.98	5573.1	492																				
ABOVE 35	3.73	13804.7	261																				
TOTAL	28.53	66823.3	16680																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	14.42	222.2	2603																				
1 TO 2	24.90	4116.6	3208																				
2 TO 5	52.74	11381.8	5122																				
5 TO 10	42.17	12143.0	1929																				
10 TO 15	37.79	12567.5	800																				
15 TO 20	46.16	16772.8	590																				
20 TO 25	40.13	31729.3	1512																				
25 TO 30	254.83	84895.9	1555																				
30 TO 35	845.84	367223.5	5067																				
ABOVE 35	1436.71	636728.5	6436																				
TOTAL	2785.99	1179579.3	28822																				

TABLE D8b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	4.53	603.0	771																			
1 TO 2	6.62	1077.9	762																			
2 TO 5	15.64	3322.6	1329																			
5 TO 10	11.57	3209.0	481																			
10 TO 15	10.47	3471.4	268																			
15 TO 20	11.60	4203.4	135																			
20 TO 25	21.27	8407.6	451																			
25 TO 30	78.95	32763.9	303																			
30 TO 35	136.81	59457.7	996																			
ABOVE 35	357.40	160225.1	1796																			
TOTAL	626.22	264854.7	3651																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	4.53	603.0	771																			
1 TO 2	6.62	1077.9	762																			
2 TO 5	15.64	3322.6	1329																			
5 TO 10	11.57	3209.0	481																			
10 TO 15	10.47	3471.4	268																			
15 TO 20	11.60	4203.4	135																			
20 TO 25	21.27	8407.6	451																			
25 TO 30	78.95	32763.9	303																			
30 TO 35	136.81	59457.7	996																			
ABOVE 35	357.40	160225.1	1796																			
TOTAL	76.78	24414.8	4232																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	4.53	603.0	771																			
1 TO 2	6.62	1077.9	762																			
2 TO 5	15.64	3322.6	1329																			
5 TO 10	11.57	3209.0	481																			
10 TO 15	10.47	3471.4	268																			
15 TO 20	11.60	4203.4	135																			
20 TO 25	21.27	8407.6	451																			
25 TO 30	78.95	32763.9	303																			
30 TO 35	136.81	59457.7	996																			
ABOVE 35	357.40	160225.1	1796																			
TOTAL	482.80	289274.4	7853																			

TABLE D2c
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	4.53	603.0	771																			
1 TO 2	6.62	1077.9	762																			
2 TO 5	15.64	3322.6	1329																			
5 TO 10	11.57	3209.0	481																			
10 TO 15	10.47	3471.4	268																			
15 TO 20	11.60	4203.4	135																			
20 TO 25	21.27	8407.6	451																			
25 TO 30	78.95	32763.9	303																			
30 TO 35	136.81	59457.7	996																			
ABOVE 35	357.40	160225.1	1796																			
TOTAL	596.75	262728.2	2793																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	4.53	603.0	771																			
1 TO 2	6.62	1077.9	762																			
2 TO 5	15.64	3322.6	1329																			
5 TO 10	11.57	3209.0	481																			
10 TO 15	10.47	3471.4	268																			
15 TO 20	11.60	4203.4	135																			
20 TO 25	21.27	8407.6	451																			
25 TO 30	78.95	32763.9	303																			
30 TO 35	136.81	59457.7	996																			
ABOVE 35	357.40	160225.1	1796																			
TOTAL	596.67	262728.0	3943																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	4.53	603.0	771																			
1 TO 2	6.62	1077.9	762																			
2 TO 5	15.64	3322.6	1329																			
5 TO 10	11.57	3209.0	481																			
10 TO 15	10.47	3471.4	268																			
15 TO 20	11.60	4203.4	135																			
20 TO 25	21.27	8407.6	451																			
25 TO 30	78.95	32763.9	303																			
30 TO 35	136.81	59457.7	996																			
ABOVE 35	357.40	160225.1	1796																			
TOTAL	636.41	273155.1	6756																			

TABLE D2d
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	0																			
1 TO 2	..	..	0																			
2 TO 5	..	..	0																			
5 TO 10	..	..	0																			
10 TO 15	..	..	0																			
15 TO 20	12.32	4499.0	280																			
20 TO 25	17.51	6972.4	280																			
25 TO 30	22.80	9756.9	109																			
30 TO 35	28.91	123179.6	1033																			
ABOVE 35	345.22	152103.1	1440																			
TOTAL	634.34	276513.7	5112																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.39	513.0	661																			
1 TO 2	7.27	1209.1	887																			
2 TO 5	11.78	2587.5	1175																			
5 TO 10	9.71	2829.8	436																			
10 TO 15	9.23	3081.4	211																			
15 TO 20	..	56.1	0																			
20 TO 25	..	238.4	..																			
25 TO 30	2.55	1494.2	11																			
30 TO 35	..	92.0	0																			
ABOVE 35	7.41	1359.4	8																			
TOTAL	47.22	12732.8	3389																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.39	513.0	661																			
1 TO 2	7.27	1209.1	887																			
2 TO 5	11.78	2587.5	1175																			
5 TO 10	9.71	2829.8	436																			
10 TO 15	9.23	3081.4	211																			
15 TO 20	..	56.1	0																			
20 TO 25	..	238.4	..																			
25 TO 30	2.55	1494.2	11																			
30 TO 35	..	92.0	0																			
ABOVE 35	7.41	1359.4	8																			
TOTAL	62.17	28924.5	6521																			

TABLE D2e
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	0																			
1 TO 2	..	..	0																			
2 TO 5	..	..	0																			
5 TO 10	..	..	0																			
10 TO 15	..	..	0																			
15 TO 20	1.77	3855.0	82																			
20 TO 25	22.98	9198.5	531																			
25 TO 30	66.82	27668.3	827																			
30 TO 35	286.41	122587.2	1872																			
ABOVE 35	332.77	145955.5	1274																			
TOTAL	719.75	308665.3	4586																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	6.31	649.6	652																			
1 TO 2	6.25	1662.6	777																			
2 TO 5	13.10	2825.0	901																			
5 TO 10	11.99	3409.9	365																			
10 TO 15	11.00	3407.1	199																			
15 TO 20	1.35	678.2	14																			
20 TO 25	1.87	779.0	26																			
25 TO 30	1.82	779.0	10																			
30 TO 35	7.35	3157.3	150																			
ABOVE 35	6.13	263.5	104																			
TOTAL	66.86	19262.7	3166																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	6.31	649.6	652																			
1 TO 2	6.25	1662.6	777																			
2 TO 5	13.10	2825.0	901																			
5 TO 10	11.99	3409.9	365																			
10 TO 15	11.00	3407.1	199																			
15 TO 20	1.35	678.2	14																			
20 TO 25	1.87	779.0	26																			
25 TO 30	1.82	779.0	10																			
30 TO 35	7.35	3157.3	150																			
ABOVE 35	130.92	148956.0	1378																			
TOTAL	784.61	127966.1	7732																			

TABLE D2f
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	9.36	1040.2	27								2	3	5	13	2	1							1
20 TO 25	10.13	4211.0	252								3	20	70	125	10	7						1	1
25 TO 30	25.42	8995.7	25										9	15	1						1		
30 TO 35	42.20	25724.3	465																				
ABOVE 35	149.76	66792.2	222								1	1	16	84	99	15	4	1	1				
TOTAL	245.42	106999.4	991								1	20	76	292	482	85	29	3	2	1			

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.73	256.4	340																				
1 TO 2	2.66	447.5	326																				
2 TO 5	5.49	1196.4	481			1																	
5 TO 10	3.71	1138.6	142																				
10 TO 15	4.20	1415.5	86																				
15 TO 20	5.15	1802.9	27																				
20 TO 25	6.11	43.3	0																				
25 TO 30	8.75	331.5	16																				
30 TO 35	11.24	110.0	0																				
ABOVE 35	6.46	2943.2	3																				
TOTAL	25.46	7889.9	1394			1			5	14	52	149	371	495	188	79	26	11	2	1			

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.73	256.4	340																				
1 TO 2	2.66	447.5	326																				
2 TO 5	5.49	1196.4	481			1																	
5 TO 10	3.71	1138.6	142																				
10 TO 15	4.20	1415.5	86																				
15 TO 20	5.15	1802.9	27																				
20 TO 25	6.11	43.3	0																				
25 TO 30	8.75	331.5	16																				
30 TO 35	11.24	110.0	0																				
ABOVE 35	6.46	2943.2	3																				
TOTAL	270.88	116899.3	2385			1			5	14	52	149	371	495	188	79	26	11	2	1			

TABLE D2g
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	3.17	1145.8	65																				
20 TO 25	5.43	2166.2	103																				
25 TO 30	27.69	11766.4	53																				
30 TO 35	39.69	17258.4	447																				
ABOVE 35	114.99	51559.2	1008																				
TOTAL	190.93	83898.0	1673																				

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.56	226.0	264																				
1 TO 2	2.22	357.7	251																				
2 TO 5	5.38	1133.8	486																				
5 TO 10	3.56	1029.7	237																				
10 TO 15	3.23	1049.5	99																				
15 TO 20	3.28	182.7	4																				
20 TO 25	1.61	999.1	92																				
25 TO 30	5.96	403.3	61																				
30 TO 35	3.42	1420.5	332																				
ABOVE 35	11.25	5129.9	18																				
TOTAL	33.20	11447.2	1824																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.56	226.0	264																				
1 TO 2	2.22	357.7	251																				
2 TO 5	5.38	1133.8	486																				
5 TO 10	3.56	1029.7	237																				
10 TO 15	3.23	1049.5	99																				
15 TO 20	3.45	1256.4	60																				
20 TO 25	7.64	2767.3	192																				
25 TO 30	20.59	12189.7	114																				
30 TO 35	63.38	18678.9	779																				
ABOVE 35	126.34	56688.7	1826																				
TOTAL	224.13	95345.1	3497																				

TABLE DBB
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF MARCH

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	0																				
1 TO 2	..	..	0																				
2 TO 5	..	..	0																				
5 TO 10	..	..	0																				
10 TO 15	..	..	0																				
15 TO 20	3.11	1198.5	12										6	6									
20 TO 25	5.47	2161.7	13										2	11									
25 TO 30	10.60	4378.1	71										1	4	22	37	4	2					
30 TO 35	62.66	10000.5	315										1	2	8	10	93	150	21	12			
ABOVE 35	136.23	61321.8	359										6	48	174	226	43	11			1		
TOTAL	190.67	88103.6	923										1	1	2	15	70	297	438	68	25	1	1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.72	107.6	140																				
1 TO 2	1.34	215.3	291																				
2 TO 5	4.96	1007.1	793																				
5 TO 10	3.64	973.7	271																				
10 TO 15	2.41	893.3	31																				
15 TO 20	..	..	0																				
20 TO 25	..	..	0																				
25 TO 30	..	..	0																				
30 TO 35	5.17	79.1	3																				
ABOVE 35	6.04	17.6	20																				
TOTAL	13.80	3199.8	1546																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.72	107.6	140																				
1 TO 2	1.34	215.3	291																				
2 TO 5	4.96	1007.1	793																				
5 TO 10	3.64	973.7	271																				
10 TO 15	2.41	893.3	31																				
15 TO 20	3.11	1198.5	12																				
20 TO 25	5.47	2161.7	13																				
25 TO 30	10.60	4378.1	71																				
30 TO 35	62.66	10000.5	315																				
ABOVE 35	136.27	61330.4	329																				
TOTAL	211.16	91300.6	2464																				

TABLE DBB
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	0																				
1 TO 2	..	..	0																				
2 TO 5	..	..	0																				
5 TO 10	..	..	0																				
10 TO 15	..	..	0																				
15 TO 20	2.73	995.7	31																				
20 TO 25	6.75	1827.8	60																				
25 TO 30	9.48	4278.7	40																				
30 TO 35	67.39	20879.9	157																				
ABOVE 35	99.64	43822.3	257																				
TOTAL	186.22	63292.6	545																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.96	144.1	110																				
1 TO 2	1.30	229.3	103																				
2 TO 5	3.76	816.0	314																				
5 TO 10	2.94	829.2	299																				
10 TO 15	2.66	817.7	67																				
15 TO 20	..	..	0																				
20 TO 25	..	..	0																				
25 TO 30	..	..	0																				
30 TO 35	6.25	39.9	3																				
ABOVE 35	6.91	308.9	63																				
TOTAL	12.46	3241.7	932																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.94	144.1	110																				
1 TO 2	1.30	229.3	103																				
2 TO 5	3.76	816.0	314																				
5 TO 10	2.94	829.2	299																				
10 TO 15	2.66	817.7	67																				
15 TO 20	2.73	995.7	31																				
20 TO 25	6.75	1827.8	60																				
25 TO 30	9.48	4278.7	40																				
30 TO 35	67.64	20909.9	157																				
ABOVE 35	100.35	44218.4	322																				
TOTAL	186.66	63396.3	1477																				

TABLE D1
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																				
1 TO 2	0	0	0																				
2 TO 5	0	0	0																				
5 TO 10	0	0	0																				
10 TO 15	0	0	0																				
15 TO 20	3.62	1334.6	93																				
20 TO 25	3.80	1503.0	47																				
25 TO 30	9.85	4099.0	100																				
30 TO 35	62.48	27774.5	232																				
ABOVE 35	134.92	59695.9	899																				
TOTAL	214.67	94355.0	1328																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.93	141.4	261																				
1 TO 2	1.92	322.0	328																				
2 TO 5	3.50	822.0	610																				
5 TO 10	3.22	895.4	171																				
10 TO 15	2.73	926.5	84																				
15 TO 20	1.17	23.0	11																				
20 TO 25	0.04	16.6	0																				
25 TO 30	0.03	16.3	0																				
30 TO 35	0.80	347.0	0																				
ABOVE 35	1.29	474.2	0																				
TOTAL	14.13	3995.5	1465																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.93	141.4	261																				
1 TO 2	1.92	322.0	328																				
2 TO 5	3.50	822.0	610																				
5 TO 10	3.22	895.4	171																				
10 TO 15	2.73	926.5	84																				
15 TO 20	3.69	1376.5	61																				
20 TO 25	3.84	1517.5	67																				
25 TO 30	9.88	4623.3	100																				
30 TO 35	63.28	28132.3	232																				
ABOVE 35	134.41	64170.1	899																				
TOTAL	228.80	98323.5	2793																				

TABLE D2h
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF JUNE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																				
1 TO 2	0	0	0																				
2 TO 5	0	0	0																				
5 TO 10	0	0	0																				
10 TO 15	0	0	0																				
15 TO 20	2.56	934.2	36																				
20 TO 25	3.16	1294.0	41																				
25 TO 30	8.51	3683.2	83																				
30 TO 35	56.87	26647.6	158																				
ABOVE 35	96.86	42954.8	287																				
TOTAL	167.98	73466.7	605																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.38	209.5	264																				
1 TO 2	2.81	478.1	279																				
2 TO 5	2.37	554.6	344																				
5 TO 10	2.27	687.1	63																				
10 TO 15	2.07	693.0	37																				
15 TO 20	0	0	0																				
20 TO 25	0	0	0																				
25 TO 30	0	0	0																				
30 TO 35	0	0	0																				
ABOVE 35	0	0	0																				
TOTAL	16.91	2422.3	981																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.38	209.5	264																				
1 TO 2	2.81	478.1	273																				
2 TO 5	2.37	554.6	344																				
5 TO 10	2.27	687.1	63																				
10 TO 15	2.07	693.0	37																				
15 TO 20	2.56	934.2	36																				
20 TO 25	3.16	1294.0	41																				
25 TO 30	8.51	3683.2	83																				
30 TO 35	56.89	26647.6	158																				
ABOVE 35	96.86	42954.8	287																				
TOTAL	178.89	76088.9	1504																				

TABLE D21
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	4.66	1716.5	148						3	2	6	16	27	55	17	11	6	4			1	
20 TO 25	6.60	2641.0	196						2	3	8	31	83	20	6	1						
25 TO 30	8.83	3749.7	18											7	10	1						
30 TO 35	94.25	37596.1	472																			
ABOVE 35	125.90	55364.7	609						1	5	18	29	136	210	37	22	5	6	3			
TOTAL	231.25	133568.0	1431						4	10	35	94	452	627	100	44	13	10	3	1		

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.22	154.6	230																			
1 TO 2	1.82	296.9	293																			
2 TO 5	4.46	955.4	404																			
5 TO 10	3.90	1131.7	131																			
10 TO 15	3.46	1161.6	81																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.91	389.6	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	1.27	549.6	2																			
TOTAL	16.04	6658.4	1149																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.22	154.6	230																			
1 TO 2	1.82	296.9	293																			
2 TO 5	4.46	955.4	404																			
5 TO 10	3.90	1131.7	131																			
10 TO 15	3.46	1161.6	81																			
15 TO 20	4.66	1716.5	148																			
20 TO 25	6.60	2641.0	196																			
25 TO 30	9.74	4139.3	18																			
30 TO 35	94.25	37596.1	472																			
ABOVE 35	127.17	55934.3	611																			
TOTAL	247.39	109226.4	2552																			

TABLE D22
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	5.11	1848.2	96																			
20 TO 25	7.84	3081.4	85																			
25 TO 30	5.54	2326.9	8																			
30 TO 35	95.78	41435.9	373																			
ABOVE 35	122.66	53783.6	544																			
TOTAL	256.71	102476.0	1106																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.99	149.7	199																			
1 TO 2	2.69	434.1	321																			
2 TO 5	4.95	1877.5	427																			
5 TO 10	3.93	1812.0	262																			
10 TO 15	3.70	1826.9	93																			
15 TO 20	0.15	56.1	0																			
20 TO 25	0.50	238.4	0																			
25 TO 30	1.64	704.6	11																			
30 TO 35	0.22	92.8	0																			
ABOVE 35	1.14	490.0	6																			
TOTAL	19.47	5492.1	1259																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.99	149.7	199																			
1 TO 2	2.69	434.1	321																			
2 TO 5	4.95	1877.5	427																			
5 TO 10	3.93	1812.0	262																			
10 TO 15	3.70	1826.9	93																			
15 TO 20	5.26	1904.3	96																			
20 TO 25	8.74	3209.8	85																			
25 TO 30	7.10	3031.5	19																			
30 TO 35	95.98	41520.7	373																			
ABOVE 35	123.66	54273.6	544																			
TOTAL	256.18	107988.1	2369																			

TABLE D2a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF SEPTEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.	0.	0																					
1 TO 2	0.	0.	0																					
2 TO 5	0.	0.	0																					
5 TO 10	0.	0.	0																					
10 TO 15	0.	0.	0																					
15 TO 20	1.50	569.1	11									4	7											
20 TO 25	3.26	1229.1	9									4	5											
25 TO 30	2.90	1206.4	42									7	14	7	3		2				1			
30 TO 35	59.59	25967.4	236									2	4	9	58	132	19	5	2	1	1	1		
ABOVE 35	57.55	25142.8	156									8	57	74	14	1								
TOTAL	124.66	93716.0	452									1	1	3	9	20	130	232	40	9	2	3	1	1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.53	83.4	84									1	10	21	25	10	7							
1 TO 2	1.33	223.3	101									1	2	8	20	44	10	4	3	1				
2 TO 5	1.66	388.4	113									2	1	6	26	48	16	6	2	3				
5 TO 10	2.06	585.5	49									1	3	11	21	5	6	1	1					
10 TO 15	1.65	555.2	20											9	9	1	1							
15 TO 20	0.27	95.6	3											2	1									
20 TO 25	3.34	130.7	0																					
25 TO 30	0.37	152.2	5												1	3	1							
30 TO 35	0.39	123.4	43											1	14	13	6	1						
ABOVE 35	0.14	59.9	1												1									
TOTAL	8.63	2394.5	416											1	3	5	35	103	165	66	25	6	6	1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																						
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35			
BELOW 1	0.53	83.4	84									1	10	21	25	10	7									
1 TO 2	1.33	223.3	101									1	2	8	20	44	10	4	3	1						
2 TO 5	1.66	388.4	113									2	1	6	26	48	16	6	2	3						
5 TO 10	2.06	585.5	49									1	3	11	21	5	6	1	1							
10 TO 15	1.65	555.2	20											9	9	1	1									
15 TO 20	1.84	664.7	14											4	9	1										
20 TO 25	3.30	1359.9	9											4	5											
25 TO 30	3.27	1356.5	47											1	17	8	3			2			1			
30 TO 35	59.69	25693.8	279											1	1	2	6	17	72	149	25	6	2	1	1	
ABOVE 35	57.70	25232.7	155												1	4	24	102	314	48	10	1				
TOTAL	133.31	96109.3	868											1	2	6	14	55	233	397	106	34	8	9	2	1

TABLE D2b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF OCTOBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	3.63	1289.7	22																				
20 TO 25	4.90	1661.5	24																				
25 TO 30	10.53	4678.6	11																				
30 TO 35	113.89	49078.9	293																				
ABOVE 35	117.33	52457.3	306																				
TOTAL	250.29	109165.4	930																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.54	231.3	206																				
1 TO 2	1.09	314.6	110																				
2 TO 5	4.95	1620.2	325																				
5 TO 10	4.42	1242.2	156																				
10 TO 15	3.72	1223.6	61																				
15 TO 20	0.86	310.2	0																				
20 TO 25	0.92	353.3	0																				
25 TO 30	1.12	444.9	2																				
30 TO 35	3.65	1566.4	110																				
ABOVE 35	4.25	1738.8	96																				
TOTAL	27.12	8467.4	1353																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.54	231.3	206																				
1 TO 2	1.09	314.6	110																				
2 TO 5	4.95	1620.2	325																				
5 TO 10	4.42	1242.2	156																				
10 TO 15	3.72	1223.6	61																				
15 TO 20	4.53	1600.0	2																				
20 TO 25	5.72	2214.8	17																				
25 TO 30	11.69	4963.6	1																				
30 TO 35	117.94	50666.9	607																				
ABOVE 35	121.38	54195.9	374																				
TOTAL	277.41	117132.8	2693																				

TABLE D3p
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF NOVEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																		
1 TO 2	0.	0.	0																		
2 TO 5	0.	0.	0																		
5 TO 10	0.	0.	0																		
10 TO 15	0.	0.	0																		
15 TO 20	5.56	1997.0	49																		
20 TO 25	15.26	6127.9	502																		
25 TO 30	11.10	21303.3	774																		
30 TO 35	11.10	47941.3	1343																		
ABOVE 35	157.08	68395.5	534																		
TOTAL	344.00	145700.1	3224	1	2	1	3	14	43	170	975	1625	276	65	12	4	2	2			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.24	335.0	272																		
1 TO 2	3.33	327.7	366																		
2 TO 5	6.48	1417.2	463																		
5 TO 10	5.51	1502.3	160																		
10 TO 15	5.11	1606.4	50																		
15 TO 20	2.22	72.4	11																		
20 TO 25	0.72	295.0	26																		
25 TO 30	2.43	162.8	1																		
30 TO 35	3.41	1465.5	5																		
ABOVE 35	1.93	831.8	13																		
TOTAL	29.00	8378.8	1377	2	1	2	11	40	160	352	471	295	73	42	4	5					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.24	335.0	272																		
1 TO 2	3.33	327.7	366																		
2 TO 5	6.48	1417.2	463																		
5 TO 10	5.51	1502.3	160																		
10 TO 15	5.11	1606.4	50																		
15 TO 20	5.70	2369.4	60																		
20 TO 25	15.76	6403.6	528																		
25 TO 30	53.02	21946.1	777																		
30 TO 35	116.34	49406.9	1346																		
ABOVE 35	159.01	60107.3	549																		
TOTAL	373.00	154103.0	4581	1	4	2	5	25	92	339	426	2896	481	130	54	10	7	2			

TABLE D3q
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY

FOR ALL ROUTES COMBINED

FOR THE
MONTH OF DECEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																		
1 TO 2	0.	0.	0																		
2 TO 5	0.	0.	0																		
5 TO 10	0.	0.	0																		
10 TO 15	0.	0.	0																		
15 TO 20	3.37	1206.4	13																		
20 TO 25	5.71	2220.4	99																		
25 TO 30	3.00	12401.8	225																		
30 TO 35	37.06	16495.1	64																		
ABOVE 35	92.65	41675.7	566																		
TOTAL	160.66	74007.3	987	1	3	3	10	37	175	421	76	17	8	1	2	1					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.26	105.3	107																		
1 TO 2	1.76	272.7	105																		
2 TO 5	4.77	990.9	362																		
5 TO 10	3.00	1070.7	132																		
10 TO 15	3.06	1006.4	83																		
15 TO 20	0.96	15.4	1																		
20 TO 25	0.33	15.2	12																		
25 TO 30	0.29	20.6	7																		
30 TO 35	0.76	348.0	2																		
ABOVE 35	2.64	1161.3	43																		
TOTAL	18.13	5082.7	964	1	1	3	13	34	86	293	339	156	63	19	4	3	3	1	1		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.26	105.3	107																		
1 TO 2	1.76	272.7	105																		
2 TO 5	4.77	990.9	362																		
5 TO 10	3.00	1070.7	132																		
10 TO 15	3.06	1006.4	83																		
15 TO 20	3.41	1221.8	14																		
20 TO 25	0.76	2241.6	111																		
25 TO 30	30.03	12422.6	232																		
30 TO 35	37.02	16495.1	66																		
ABOVE 35	95.29	42037.0	609																		
TOTAL	187.70	70590.0	1971	1	1	4	13	36	92	359	436	237	66	27	8	9	4	1	1		

TABLE D9a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TINER AFB, OKLAHOMA
AND
TRAVIS AFB, CALIFORNIA

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.67	229.0	3																			
20 TO 25	1.70	643.3	3																			
25 TO 30	11.23	4887.0	10																			
30 TO 35	7.76	3483.6	111																			
ABOVE 35	5.69	2623.2	3																			
TOTAL	27.31	11759.0	132																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.46	65.0	55																			
1 TO 2	0.50	80.5	75																			
2 TO 5	1.44	279.5	130																			
5 TO 10	0.71	196.6	21																			
10 TO 15	0.67	209.6	6																			
15 TO 20	2.11	35.2	0																			
20 TO 25	0.12	46.7	0																			
25 TO 30	0.17	71.6	3																			
30 TO 35	0.13	54.6	0																			
ABOVE 35	0.56	291.3	27																			
TOTAL	6.80	1298.5	320																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.46	65.0	55																			
1 TO 2	0.50	80.5	75																			
2 TO 5	1.44	279.5	130																			
5 TO 10	0.71	196.6	21																			
10 TO 15	0.67	209.6	6																			
15 TO 20	0.78	259.2	3																			
20 TO 25	1.92	687.8	3																			
25 TO 30	11.61	4909.5	13																			
30 TO 35	7.69	3483.2	111																			
ABOVE 35	6.42	2874.5	27																			
TOTAL	32.19	13094.3	452																			

TABLE D9b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TINER AFB, OKLAHOMA
AND
TRAVIS AFB, CALIFORNIA
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.17	58.1	0																			
20 TO 25	0.60	234.0	2																			
25 TO 30	5.69	2420.8	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	6.51	2712.9	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	25.6	3																			
1 TO 2	0.25	39.6	6																			
2 TO 5	0.27	58.0	7																			
5 TO 10	0.16	30.7	7																			
10 TO 15	0.10	57.8	2																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.02	228.4	25																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	25.6	3																			
1 TO 2	0.25	39.6	6																			
2 TO 5	0.27	58.0	7																			
5 TO 10	0.16	30.7	7																			
10 TO 15	0.10	57.8	2																			
15 TO 20	0.17	58.1	0																			
20 TO 25	0.60	234.0	2																			
25 TO 30	5.69	2420.8	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	7.53	2933.3	27																			

TABLE D3C
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TINER AFB, OKLAHOMA
AND
TRAVIS AFB, CALIFORNIA
FOR THE
AUTUMN SEASON

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.50	165.7	3								1	2											
20 TO 25	1.11	606.3	1								1												
25 TO 30	5.90	2417.1	10								4	3			1						1		
30 TO 35	7.76	3430.6	111			1					5	46	50	6	3	1							
ABOVE 35	5.85	2623.2	5								1	5											
TOTAL	20.60	9943.0	130			1					5	53	59	6	3	2							1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.28	39.3	52								1	4	0	11	0	12	1	2	1	1	1	1	
1 TO 2	0.25	48.9	69								1	4	5	14	27	12	5	2	1	1	1	1	
2 TO 5	1.17	220.7	131								1	7	14	27	50	19	11	1				1	
5 TO 10	0.57	157.9	14									2	4	6		2							
10 TO 15	0.48	151.9	4									2	1										
15 TO 20	0.11	35.2	0																				
20 TO 25	0.12	46.7	0																				
25 TO 30	0.17	71.6	3											1	2								
30 TO 35	0.13	56.6	0																				
ABOVE 35	0.56	251.3	22									2	7	13									
TOTAL	3.86	1076.2	295						1	2	15	31	66	108	63	19	6	1	1	1	2		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.28	39.3	52								1	4	0	11	0	12	1	2	1	1	1	1	
1 TO 2	0.25	48.9	69								1	4	5	14	27	12	5	2	1	1	1	1	
2 TO 5	1.17	220.7	131								1	7	14	27	50	19	11	1				1	
5 TO 10	0.57	157.9	14									2	4	6		2							
10 TO 15	0.48	151.9	4										2	1									
15 TO 20	0.11	35.2	0																				
20 TO 25	0.12	46.7	0																				
25 TO 30	0.17	71.6	3											1	2								
30 TO 35	0.13	56.6	0																				
ABOVE 35	0.56	251.3	22									2	8	17									
TOTAL	24.86	10121.0	425			1			1	2	15	36	119	167	69	22	8	1	1	1	3		

TABLE D3D
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TINER AFB, OKLAHOMA
AND
TRAVIS AFB, CALIFORNIA
FOR THE
MONTH OF OCTOBER

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.22	73.6	3										1	2									
20 TO 25	0.21	244.3	0																				
25 TO 30	0.42	171.6	0																				
30 TO 35	0.26	2700.1	33											1	14	13							
ABOVE 35	0.85	2623.2	5											1	4								
TOTAL	13.24	5818.2	41											1	20	19							1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.6	10.1	47								1	1	4	6	10	0	11	1	1	1	1	1	
1 TO 2	0.12	20.1	60										4	12	23	10	5	2					
2 TO 5	0.92	170.0	128								1	7	14	27	47	19	11	1				1	
5 TO 10	0.39	108.6	1										1	1									
10 TO 15	0.34	102.5	4											2	1								
15 TO 20	0.11	35.2	0																				
20 TO 25	0.12	46.7	0																				
25 TO 30	0.15	61.5	0																				
30 TO 35	0.13	56.6	0																				
ABOVE 35	0.56	251.3	22									2	7	13									
TOTAL	2.91	860.5	267								1	2	15	26	59	93	42	17	5	1	1	1	2

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	10.1	47								1	1	4	6	10	0	11	1	1	1	1	1	
1 TO 2	0.12	20.1	60										4	12	23	10	5	2					
2 TO 5	0.92	170.0	128								1	7	14	27	47	19	11	1				1	
5 TO 10	0.39	108.6	1										1	1									
10 TO 15	0.34	102.5	4											2	1								
15 TO 20	0.11	35.2	0																				
20 TO 25	0.12	46.7	0																				
25 TO 30	0.15	61.5	0																				
30 TO 35	0.13	56.6	0																				
ABOVE 35	0.42	2700.1	33									1	18	13									
TOTAL	16.17	6676.5	303								1	2	15	27	79	112	60	18	5	1	1	1	2

TABLE D24
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TINLER AFB, OKLAHOMA
AND
TRAVIS AFB, CALIFORNIA
FOR THE
MONTH OF NOVEMBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)															
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																
1 TO 2	0	0	0																
2 TO 5	0	0	0																
5 TO 10	0	0	0																
10 TO 15	0	0	0																
15 TO 20	0.27	92.1	0																
20 TO 25	0.41	137.0	1																
25 TO 30	0.17	2265.4	10	1															
30 TO 35	1.69	732.5	70	4	20	37	6	2	1										
ABOVE 35	0	0	0																
TOTAL	7.54	3229.0	89	1	4	33	43	6	2	2									

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)															
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	29.2	5	2	1														
1 TO 2	0.13	28.9	9	1	2	4	2												
2 TO 5	0.25	50.7	3																
5 TO 10	0.17	49.3	13	2	3	6													
10 TO 15	0.15	49.4	0																
15 TO 20	0	0	0																
20 TO 25	0	0	0																
25 TO 30	0.22	18.1	3	1	2														
30 TO 35	0	0	0																
ABOVE 35	0	0	0																
TOTAL	0.94	217.5	33	5	7	15	3	2	1										

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)															
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	29.2	5	2	1														
1 TO 2	0.13	28.9	9	1	2	4	2												
2 TO 5	0.25	50.7	3																
5 TO 10	0.17	49.3	13	2	3	6													
10 TO 15	0.15	49.4	0																
15 TO 20	0.27	92.1	0																
20 TO 25	0.41	137.0	1																
25 TO 30	0.10	2259.5	13	1	5														
30 TO 35	1.69	732.5	70	4	20	37	6	2	1										
ABOVE 35	0	0	0																
TOTAL	8.40	3442.6	122	1	9	45	55	9	4	3									

TABLE D31
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TINLER AFB, OKLAHOMA
AND
TRAVIS AFB, CALIFORNIA
FOR THE
MONTH OF DECEMBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)															
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																
1 TO 2	0	0	0																
2 TO 5	0	0	0																
5 TO 10	0	0	0																
10 TO 15	0	0	0																
15 TO 20	0.17	90.1	0																
20 TO 25	0.60	234.0	2																
25 TO 30	0.65	420.0	0																
30 TO 35	0	0	0																
ABOVE 35	0	0	0																
TOTAL	0.51	2712.0	2																

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)															
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	25.0	3	1	1	1	1												
1 TO 2	0.25	39.0	6	1	1	1	3												
2 TO 5	0.27	50.0	7	1	1	4	1												
5 TO 10	0.16	30.7	7	3	6														
10 TO 15	0.10	37.0	2	1	1														
15 TO 20	0	0	0																
20 TO 25	0	0	0																
25 TO 30	0	0	0																
30 TO 35	0	0	0																
ABOVE 35	0	0	0																
TOTAL	1.02	220.4	25	2	6	11	4	2											

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)															
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	25.0	3	1	1	1	1												
1 TO 2	0.25	39.0	6	1	1	1	3												
2 TO 5	0.27	50.0	7	1	1	4	1												
5 TO 10	0.16	30.7	7	3	6														
10 TO 15	0.10	37.0	2	1	1														
15 TO 20	0.17	90.1	0																
20 TO 25	0.60	234.0	2																
25 TO 30	0.65	420.0	0																
30 TO 35	0	0	0																
ABOVE 35	0	0	0																
TOTAL	7.53	2058.3	27	7	6	13	4	2											

TABLE D4a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
KELLY AFB, TEXAS

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.3	10																			
1 TO 2	0.13	19.3	0																			
2 TO 5	0.13	19.3	0																			
5 TO 10	0.13	19.3	0																			
10 TO 15	0.13	19.3	1																			
15 TO 20	0.45	133.7	1																			
20 TO 25	2.94	1276.2	42																			
25 TO 30	0.93	399.2	0																			
30 TO 35	9.25	4275.0	1																			
ABOVE 35	7.67	3532.3	4																			
TOTAL	21.25	9446.3	50																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.3	10																			
1 TO 2	0.13	19.3	67																			
2 TO 5	1.74	215.9	62																			
5 TO 10	0.56	166.8	20																			
10 TO 15	0.53	176.5	21																			
15 TO 20	0.55	17.0	1																			
20 TO 25	0.51	210.9	12																			
25 TO 30	0.13	19.3	0																			
30 TO 35	0.13	19.3	0																			
ABOVE 35	0.13	19.3	0																			
TOTAL	3.18	873.2	105																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.3	10																			
1 TO 2	0.13	19.3	60																			
2 TO 5	1.74	215.9	62																			
5 TO 10	0.56	166.8	20																			
10 TO 15	0.53	176.5	21																			
15 TO 20	0.55	17.0	1																			
20 TO 25	0.51	210.9	12																			
25 TO 30	0.13	19.3	0																			
30 TO 35	0.13	19.3	0																			
ABOVE 35	0.13	19.3	0																			
TOTAL	26.43	10315.4	235																			

TABLE D4b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
KELLY AFB, TEXAS
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.3	0																			
1 TO 2	0.13	19.3	0																			
2 TO 5	0.13	19.3	0																			
5 TO 10	0.13	19.3	0																			
10 TO 15	0.13	19.3	0																			
15 TO 20	0.20	72.2	1																			
20 TO 25	0.26	96.9	0																			
25 TO 30	0.26	107.1	0																			
30 TO 35	1.76	313.5	1																			
ABOVE 35	7.67	3532.3	4																			
TOTAL	10.12	4619.6	6																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.3	0																			
1 TO 2	0.13	19.3	14																			
2 TO 5	0.56	166.8	26																			
5 TO 10	0.26	75.7	7																			
10 TO 15	0.19	66.1	1																			
15 TO 20	0.13	19.3	0																			
20 TO 25	0.13	19.3	0																			
25 TO 30	0.13	19.3	0																			
30 TO 35	0.13	19.3	0																			
ABOVE 35	0.13	19.3	0																			
TOTAL	1.13	257.5	48																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.3	0																			
1 TO 2	0.10	16.6	14																			
2 TO 5	0.56	166.8	26																			
5 TO 10	0.26	75.7	7																			
10 TO 15	0.19	66.1	1																			
15 TO 20	0.13	19.3	0																			
20 TO 25	0.26	96.9	0																			
25 TO 30	0.26	107.1	0																			
30 TO 35	1.76	313.5	1																			
ABOVE 35	7.67	3532.3	4																			
TOTAL	11.26	4876.9	54																			

TABLE D46
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
KELLY AFB, TEXAS
FOR THE
MONTH OF MAR 26

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.20	72.2	1																				
20 TO 25	0.26	94.3	0																				
25 TO 30	0.26	107.1	0																				
30 TO 35	1.76	613.5	1																				
ABOVE 35	7.67	3532.3	4																				
TOTAL	12.12	4619.4	6																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	2.5	0																				
1 TO 2	0.12	14.6	14																				
2 TO 5	0.56	124.6	26																				
5 TO 10	0.26	75.7	7																				
10 TO 15	0.19	64.1	1																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	1.13	257.5	48																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	2.5	0																				
1 TO 2	0.12	14.6	14																				
2 TO 5	0.56	124.6	26																				
5 TO 10	0.26	75.7	7																				
10 TO 15	0.19	64.1	1																				
15 TO 20	0.20	72.2	1																				
20 TO 25	0.26	94.3	0																				
25 TO 30	0.26	107.1	0																				
30 TO 35	1.76	613.5	1																				
ABOVE 35	7.67	3532.3	4																				
TOTAL	11.26	4676.9	54																				

TABLE D46
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
KELLY AFB, TEXAS
FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.17	62.4	0																				
20 TO 25	0.17	67.4	0																				
25 TO 30	0.19	70.7	0																				
30 TO 35	5.36	2336.7	2																				
ABOVE 35	0.	0.	0																				
TOTAL	6.02	2543.2	2																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	13.3	6																				
1 TO 2	0.12	20.4	6																				
2 TO 5	0.25	55.3	1																				
5 TO 10	0.25	50.4	0																				
10 TO 15	0.21	60.3	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.87	215.7	13																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	13.3	6																				
1 TO 2	0.12	23.6	6																				
2 TO 5	0.25	55.3	1																				
5 TO 10	0.20	50.4	0																				
10 TO 15	0.21	60.3	0																				
15 TO 20	0.17	62.4	0																				
20 TO 25	0.17	67.4	0																				
25 TO 30	0.19	70.7	0																				
30 TO 35	5.36	2336.7	2																				
ABOVE 35	0.	0.	0																				
TOTAL	6.77	2750.0	15																				

TABLE D4g
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 KFFLY AFB, TEXAS
 FOR THE
 MONTH OF NOVEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	3.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.07	29.1	0																				
20 TO 25	2.53	1114.4	42																				
25 TO 30	0.48	213.4	0																				
30 TO 35	2.13	926.8	0																				
ABOVE 35	0.	0.	0																				
TOTAL	5.22	2293.7	42																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.5	4																				
1 TO 2	0.13	19.7	40																				
2 TO 5	0.23	60.0	35																				
5 TO 10	0.10	32.7	13																				
10 TO 15	0.13	44.4	20																				
15 TO 20	0.35	17.0	0																				
20 TO 25	0.51	210.9	12																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	1.14	366.9	124																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.5	4																				
1 TO 2	0.13	19.7	43																				
2 TO 5	0.23	60.0	35																				
5 TO 10	0.10	32.7	13																				
10 TO 15	0.13	44.4	20																				
15 TO 20	0.12	47.0	0																				
20 TO 25	3.04	1233.3	54																				
25 TO 30	0.48	213.4	0																				
30 TO 35	2.13	926.8	0																				
ABOVE 35	0.	0.	0																				
TOTAL	6.40	2600.7	166																				

TABLE D9a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
DOVER AFB, DELAWARE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	1.33	495.0	11																			
20 TO 25	2.23	903.6	15																			
25 TO 30	0.07	367.9	14																			
30 TO 35	0.50	3649.1	12																			
ABOVE 35	23.46	10391.7	8																			
TOTAL	26.10	15004.3	60																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.31	45.3	61																			
1 TO 2	0.62	105.4	76																			
2 TO 5	1.42	297.1	27																			
5 TO 10	0.74	213.5	12																			
10 TO 15	0.53	176.1	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.02	7.2	11																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.63	844.6	107																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.31	45.3	61																			
1 TO 2	0.62	105.4	76																			
2 TO 5	1.42	297.1	27																			
5 TO 10	0.74	213.5	12																			
10 TO 15	0.53	176.1	0																			
15 TO 20	1.33	495.0	11																			
20 TO 25	2.23	903.6	15																			
25 TO 30	0.09	375.1	25																			
30 TO 35	0.50	3649.1	12																			
ABOVE 35	23.46	10391.7	8																			
TOTAL	40.32	16648.0	247																			

TABLE D9b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
DOVER AFB, DELAWARE
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	1.25	391.0	3																			
20 TO 25	1.75	700.2	14																			
25 TO 30	0.67	190.0	10																			
30 TO 35	0.67	200.5	12																			
ABOVE 35	21.12	9365.2	8																			
TOTAL	25.66	12993.9	47																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.15	22.2	29																			
1 TO 2	0.30	60.0	43																			
2 TO 5	0.70	100.0	10																			
5 TO 10	0.34	101.4	10																			
10 TO 15	0.29	60.2	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.02	7.2	11																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.00	432.0	111																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.15	22.2	29																			
1 TO 2	0.30	60.0	43																			
2 TO 5	0.70	100.0	10																			
5 TO 10	0.34	101.4	10																			
10 TO 15	0.29	60.2	0																			
15 TO 20	1.25	391.0	3																			
20 TO 25	1.75	700.2	14																			
25 TO 30	0.69	200.5	21																			
30 TO 35	0.67	200.5	12																			
ABOVE 35	21.12	9365.2	8																			
TOTAL	26.99	11406.3	160																			

TABLE D5c
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 DOVER AFB, DELAWARE
 FOR THE
 SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.20	30.1	0																			
20 TO 25	0.13	94.1	0																			
25 TO 30	0.08	35.7	0																			
30 TO 35	2.44	1647.7	0																			
ABOVE 35	2.17	954.0	0																			
TOTAL	6.90	2121.7	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.24	6.5	26																			
1 TO 2	0.25	8.3	15																			
2 TO 5	0.10	43.9	0																			
5 TO 10	0.27	23.7	0																			
10 TO 15	0.07	25.6	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.42	102.6	41																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.5	26																			
1 TO 2	0.25	8.3	15																			
2 TO 5	0.10	43.9	0																			
5 TO 10	0.27	23.7	0																			
10 TO 15	0.27	23.6	0																			
15 TO 20	0.20	30.1	0																			
20 TO 25	0.13	94.1	0																			
25 TO 30	0.08	35.7	0																			
30 TO 35	2.44	1647.7	0																			
ABOVE 35	2.17	954.0	0																			
TOTAL	5.32	2224.3	41																			

TABLE D5d
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 DOVER AFB, DELAWARE
 FOR THE
 AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.20	73.0	0																			
20 TO 25	0.35	137.3	1																			
25 TO 30	0.32	133.4	4																			
30 TO 35	5.39	2312.0	0																			
ABOVE 35	0.17	72.5	0																			
TOTAL	6.42	2729.1	15																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	6																			
1 TO 2	0.10	27.2	10																			
2 TO 5	0.55	97.5	9																			
5 TO 10	0.33	91.4	2																			
10 TO 15	0.17	56.4	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.32	289.2	35																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	6																			
1 TO 2	0.10	27.2	10																			
2 TO 5	0.55	97.5	9																			
5 TO 10	0.33	91.4	2																			
10 TO 15	0.17	56.4	0																			
15 TO 20	0.20	73.0	0																			
20 TO 25	0.35	137.3	1																			
25 TO 30	0.32	133.4	4																			
30 TO 35	5.39	2312.0	0																			
ABOVE 35	0.17	72.5	0																			
TOTAL	7.75	3018.5	40																			

TABLE D56
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
DOVER AFB, DELAWARE
FOR THE
MONTH OF JANUARY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.95	356.2	3											1	2								
20 TO 25	1.65	609.6	14										3	4	6	1							
25 TO 30	3.14	133.2	10											5	5								
30 TO 35	0.3	230.7	12											4	6								
ABOVE 35	15.61	6882.9	5											3	2								
TOTAL	19.10	8292.7	44										3	17	23	1							

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	15.9	29											1	6	5	8	8	1				
1 TO 2	0.28	50.3	41											1	8	11	14	5	2				
2 TO 5	0.60	129.5	17												4	13							
5 TO 10	0.21	61.3	4												3	1							
10 TO 15	0.20	65.1	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.32	7.2	11											1	5	4	1						
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	1.61	329.3	102										2	15	24	40	14	3					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	15.9	29											1	6	5	8	8	1				
1 TO 2	0.28	50.3	41											1	8	11	14	5	2				
2 TO 5	0.60	129.5	17												4	13							
5 TO 10	0.21	61.3	4												3	1							
10 TO 15	0.20	65.1	0																				
15 TO 20	0.95	356.2	3											1	2								
20 TO 25	1.65	609.6	14											3	4	6	1						
25 TO 30	0.38	162.6	21											1	10	9	1						
30 TO 35	0.53	230.7	12												4	6							
ABOVE 35	15.61	6882.9	5												3	2							
TOTAL	2.51	8621.9	146										2	18	45	63	14	4					

TABLE D57
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
DOVER AFB, DELAWARE
FOR THE
MONTH OF FEBRUARY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.10	39.6	0																				
20 TO 25	0.10	39.6	0																				
25 TO 30	0.11	45.6	0																				
30 TO 35	0.13	57.7	0																				
ABOVE 35	9.52	2482.2	3											1	2								
TOTAL	9.96	2669.8	3											1	2								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.2	0																				
1 TO 2	0.11	19.5	2											1	1								
2 TO 5	0.11	26.6	1																				
5 TO 10	0.13	40.1	6																				
10 TO 15	0.09	31.1	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.48	123.6	9											1	1	6	1						

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.2	0																				
1 TO 2	0.11	19.5	2											1	1								
2 TO 5	0.11	26.6	1																				
5 TO 10	0.13	40.1	6																				
10 TO 15	0.09	31.1	0																				
15 TO 20	0.10	39.6	0																				
20 TO 25	0.10	39.6	0																				
25 TO 30	0.11	45.6	0																				
30 TO 35	0.13	57.7	0																				
ABOVE 35	9.52	2482.2	3																				
TOTAL	6.66	2786.4	12											1	2	6	1						

TABLE D9b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
DOVER AFB, DELAWARE
FOR THE
MONTH OF MAY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.08	30.1	0																			
20 TO 25	0.13	54.1	0																			
25 TO 30	0.08	35.7	0																			
30 TO 35	2.44	1247.7	0																			
ABOVE 35	2.17	954.0	0																			
TOTAL	4.90	2121.7	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.5	26																			
1 TO 2	0.35	6.3	15																			
2 TO 5	0.18	43.9	0																			
5 TO 10	0.37	23.7	0																			
10 TO 15	0.37	23.6	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.42	102.6	41																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.5	26																			
1 TO 2	0.35	6.3	15																			
2 TO 5	0.18	43.9	0																			
5 TO 10	0.37	23.7	0																			
10 TO 15	0.37	23.6	0																			
15 TO 20	0.30	30.1	0																			
20 TO 25	0.13	54.1	0																			
25 TO 30	0.08	35.7	0																			
30 TO 35	2.44	1247.7	0																			
ABOVE 35	2.17	954.0	0																			
TOTAL	5.32	2224.3	41																			

TABLE D9c
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
DOVER AFB, DELAWARE
FOR THE
MONTH OF NOVEMBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.20	73.0	8																			
20 TO 25	0.35	137.3	1																			
25 TO 30	0.32	133.4	4																			
30 TO 35	5.39	2312.9	0																			
ABOVE 35	0.17	72.9	0																			
TOTAL	6.42	2729.1	13																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	6																			
1 TO 2	0.10	27.2	10																			
2 TO 5	0.53	97.5	9																			
5 TO 10	0.33	91.4	2																			
10 TO 15	0.17	56.4	0																			
15 TO 20	0.20	73.0	8																			
20 TO 25	0.35	137.3	1																			
25 TO 30	0.32	133.4	4																			
30 TO 35	5.39	2312.9	0																			
ABOVE 35	0.17	72.9	0																			
TOTAL	1.32	209.2	35																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	6																			
1 TO 2	0.10	27.2	10																			
2 TO 5	0.53	97.5	9																			
5 TO 10	0.33	91.4	2																			
10 TO 15	0.17	56.4	0																			
15 TO 20	0.20	73.0	8																			
20 TO 25	0.35	137.3	1																			
25 TO 30	0.32	133.4	4																			
30 TO 35	5.39	2312.9	0																			
ABOVE 35	0.17	72.9	0																			
TOTAL	7.75	3010.3	46																			

TABLE D6a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
CHARLESTON AFB/MUNI, SOUTH CAROLINA

NON-STORM CONDITIONS

ALTY (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																		
1 TO 2	0.	0.	0																		
2 TO 5	0.	0.	0																		
5 TO 10	0.	0.	0																		
10 TO 15	0.	0.	0																		
15 TO 20	0.35	128.9	0																		
20 TO 25	0.32	130.6	0																		
25 TO 30	3.04	1289.2	17																		
30 TO 35	1.24	526.7	129						1		6	39	60	11	10	1	1				
ABOVE 35	14.53	6389.0	14								1	1	11								
TOTAL	19.90	8656.4	160						1		6	40	62	11	10	1	1				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	26.4	12																		
1 TO 2	0.31	56.1	21																		
2 TO 5	0.74	181.5	35																		
5 TO 10	0.42	134.3	10																		
10 TO 15	0.35	121.7	5																		
15 TO 20	0.05	18.9	0																		
20 TO 25	0.03	13.1	1																		
25 TO 30	0.06	23.0	30						1	4	17	9	1	3	1						
30 TO 35	0.81	113.5	231						1	1	1	2	5	63	120	23	4	2	1		
ABOVE 35	0.	0.	0																		
TOTAL	2.97	888.7	373						1	1	1	8	24	106	166	43	18	4	1		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	26.4	12																		
1 TO 2	0.31	56.1	21																		
2 TO 5	0.74	181.5	35																		
5 TO 10	0.42	134.3	10																		
10 TO 15	0.35	121.7	5																		
15 TO 20	0.40	147.4	0																		
20 TO 25	0.34	143.7	1																		
25 TO 30	3.10	1300.8	55						1	4	23	20	1	3	1						
30 TO 35	2.07	840.2	360						1	1	2	2	11	102	169	34	14	3	2		
ABOVE 35	14.53	6389.0	14																		
TOTAL	22.47	9544.1	533						1	1	2	8	30	154	249	54	28	5	2		

TABLE D6b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
CHARLESTON AFB/MUNI, SOUTH CAROLINA
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																		
1 TO 2	0.	0.	0																		
2 TO 5	0.	0.	0																		
5 TO 10	0.	0.	0																		
10 TO 15	0.	0.	0																		
15 TO 20	0.00	31.2	0																		
20 TO 25	0.10	49.3	0																		
25 TO 30	2.72	1151.7	17																		
30 TO 35	0.83	361.9	129								1		6	39	60	11	10	1	1		
ABOVE 35	0.96	291.7	1										1	1	11						
TOTAL	4.58	1816.7	147								1		6	46	71	11	10	1	1		

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	13.6	11																		
1 TO 2	0.13	20.0	0																		
2 TO 5	0.15	43.0	6										3	3							
5 TO 10	0.09	26.0	5											5							
10 TO 15	0.12	41.6	5										4	1							
15 TO 20	0.03	18.9	0																		
20 TO 25	0.03	13.1	1																		
25 TO 30	0.04	23.6	30								1	4	17	9	3	3	1				
30 TO 35	0.81	113.5	231								1	1	1	2	5	63	120	23	4	2	1
ABOVE 35	0.	0.	0																		
TOTAL	1.54	521.7	297								1	1	1	4	10	89	151	27	9	3	1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	13.6	11																		
1 TO 2	0.13	20.0	0																		
2 TO 5	0.15	43.0	6											3	3						
5 TO 10	0.09	26.0	5											5							
10 TO 15	0.12	41.6	5											4	1						
15 TO 20	0.13	49.7	0																		
20 TO 25	0.13	93.4	1																		
25 TO 30	2.70	1179.3	55								1	4	23	20	3	3	1				
30 TO 35	1.64	653.6	360								1	1	2	2	11	102	169	34	14	3	2
ABOVE 35	0.96	291.7	1																		
TOTAL	5.83	2996.4	644								1	1	2	4	16	139	222	38	18	4	2

TABLE D6c
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
CHARLESTON AFB/MUNI, SOUTH CAROLINA
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.27	97.7	0																			
20 TO 25	0.27	92.4	0																			
25 TO 30	0.32	133.6	0																			
30 TO 35	0.42	186.8	0																			
ABOVE 35	13.97	6333.3	13																			
TOTAL	15.20	6839.7	13																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.29	12.8	21																			
1 TO 2	0.19	28.1	21																			
2 TO 5	0.59	136.5	29																			
5 TO 10	0.34	107.5	9																			
10 TO 15	0.23	80.1	5																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.44	367.0	76																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.29	12.8	21																			
1 TO 2	0.19	28.1	21																			
2 TO 5	0.59	136.5	29																			
5 TO 10	0.34	107.5	9																			
10 TO 15	0.23	80.1	5																			
15 TO 20	0.27	97.7	0																			
20 TO 25	0.27	92.4	0																			
25 TO 30	0.32	133.6	0																			
30 TO 35	0.42	186.8	0																			
ABOVE 35	13.97	6333.3	13																			
TOTAL	16.64	7206.7	89																			

TABLE D6d
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
CHARLESTON AFB/MUNI, SOUTH CAROLINA
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.3	12.2	0																			
20 TO 25	0.33	13.1	0																			
25 TO 30	0.35	20.9	0																			
30 TO 35	0.33	16.6	0																			
ABOVE 35	0.56	251.7	1																			
TOTAL	0.71	312.3	1																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	5.5	7																			
1 TO 2	0.33	14.6	0																			
2 TO 5	0.37	19.7	2																			
5 TO 10	0.22	7.9	0																			
10 TO 15	0.02	8.4	1																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.17	48.0	10																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	5.5	7																			
1 TO 2	0.33	14.6	0																			
2 TO 5	0.37	19.7	2																			
5 TO 10	0.22	7.9	0																			
10 TO 15	0.22	8.4	1																			
15 TO 20	0.33	12.2	0																			
20 TO 25	0.33	13.1	0																			
25 TO 30	0.35	20.9	0																			
30 TO 35	0.33	16.6	0																			
ABOVE 35	0.56	251.7	1																			
TOTAL	0.88	360.3	11																			

TABLE D66
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
CHARLESTON AFB/AFB, SOUTH CAROLINA
FOR THE
MONTH OF FEBRUARY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																		
1 TO 2	0.	0.	0																		
2 TO 5	0.	0.	0																		
5 TO 10	0.	0.	0																		
10 TO 15	0.	0.	0																		
15 TO 20	0.09	18.9	0																		
20 TO 25	0.07	27.2	0																		
25 TO 30	2.67	1190.7	17								6	11									
30 TO 35	0.00	327.5	129								6	59	60	11	10		1	1			
ABOVE 35	0.	0.	0																		
TOTAL	3.80	1694.5	146								1	6	45	71	11	10	1	1			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.27	12.1	4																		
1 TO 2	0.15	14.4	4																		
2 TO 5	0.38	23.3	4																		
5 TO 10	0.06	19.0	5								1	5									
10 TO 15	0.10	33.2	4								3	1									
15 TO 20	0.25	18.9	0																		
20 TO 25	0.33	13.1	1								1	1									
25 TO 30	0.26	23.4	38							1	4	17	9	3	3	1	1				
30 TO 35	0.91	315.5	231							1	1	2	5	43	128	23	4	2	1		
ABOVE 35	0.	0.	0																		
TOTAL	1.37	471.8	287							1	1	1	3	9	85	148	27	8	3	1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.27	12.1	4																		
1 TO 2	0.15	14.4	4																		
2 TO 5	0.38	23.3	4																		
5 TO 10	0.26	19.0	5								1	3									
10 TO 15	0.10	33.2	4								3	1									
15 TO 20	0.25	18.9	0																		
20 TO 25	0.10	42.3	1								1	1									
25 TO 30	2.73	1154.3	55							1	4	23	20	3	3	1	1				
30 TO 35	1.01	641.0	160							1	1	2	2	11	102	188	34	14	3	2	
ABOVE 35	0.	0.	0																		
TOTAL	4.94	1978.1	459							1	1	2	3	15	190	219	38	18	4	2	

TABLE D67
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
CHARLESTON AFB/AFB, SOUTH CAROLINA
FOR THE
MONTH OF JULY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																		
1 TO 2	0.	0.	0																		
2 TO 5	0.	0.	0																		
5 TO 10	0.	0.	0																		
10 TO 15	0.	0.	0																		
15 TO 20	0.10	36.1	0																		
20 TO 25	0.28	32.9	0																		
25 TO 30	0.13	55.8	0																		
30 TO 35	0.25	107.4	0																		
ABOVE 35	4.33	1908.2	0																		
TOTAL	4.90	2143.8	0																		

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.24	5.4	17								1	2	2	1	7	5	1				
1 TO 2	0.06	9.0	19								2	4	2	1	6	5					
2 TO 5	0.19	46.4	17								2	4	5	7	1						
5 TO 10	0.10	33.0	1																		
10 TO 15	0.09	31.1	0								1	1									
15 TO 20	0.	0.	0																		
20 TO 25	0.	0.	0																		
25 TO 30	0.	0.	0																		
30 TO 35	0.	0.	0																		
ABOVE 35	0.	0.	0																		
TOTAL	0.49	125.7	54								3	10	10	8	14	8	1				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.24	5.4	17								1	2	2	1	7	5	1				
1 TO 2	0.06	9.0	19								2	4	2	1	7	5					
2 TO 5	0.19	46.4	17								2	4	5	7	1						
5 TO 10	0.10	33.0	1																		
10 TO 15	0.09	31.1	0								1	1									
15 TO 20	0.10	36.1	0																		
20 TO 25	0.28	32.9	0																		
25 TO 30	0.13	55.8	0																		
30 TO 35	0.25	107.4	0																		
ABOVE 35	4.33	1908.2	0																		
TOTAL	5.59	2266.5	54								3	10	10	8	14	8	1				

TABLE D6
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 CHARLESTON AFB/AJMT, SOUTH CAROLINA
 FOR THE
 MONTH OF AUGUST
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.17	41.6	0																				
20 TO 25	0.14	37.5	0																				
25 TO 30	0.18	77.0	0																				
30 TO 35	0.17	76.9	0																				
ABOVE 35	9.63	4425.1	13										2	11									
TOTAL	10.30	4690.9	13										2	11									

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	7.5	4										2										
1 TO 2	0.12	19.1	2										1										
2 TO 5	0.40	92.1	12									1	1	7	3								
5 TO 10	0.23	73.7	4												4								
10 TO 15	0.14	49.0	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.95	241.3	22										1	4	7	7	2	1					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.5	4										2										
1 TO 2	0.12	19.1	2										1										
2 TO 5	0.40	92.1	12									1	1	7	3								
5 TO 10	0.23	73.7	4												4								
10 TO 15	0.14	49.0	0																				
15 TO 20	0.17	61.6	0																				
20 TO 25	0.14	37.5	0																				
25 TO 30	0.18	77.0	0																				
30 TO 35	0.17	76.9	0																				
ABOVE 35	9.63	4425.1	13																				
TOTAL	11.25	4900.2	35										1	4	9	10	2	1					

TABLE D7a
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 MCGUIRE AFB, NEW JERSEY

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (PT./SEC.)																								
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35					
NON-STORM CONDITIONS																												
BELOW 1	0	0	0																									
1 TO 2	0	0	0																									
2 TO 5	0	0	0																									
5 TO 10	0	0	0																									
10 TO 15	0	0	0																									
15 TO 20	0.31	112.2	0																									
20 TO 25	0.28	100.8	0																									
25 TO 30	0.36	133.3	0																									
30 TO 35	7.32	1003.1	170																									
ABOVE 35	10.12	4401.8	18	1	2	11	49	85	10	7	5	1	2	1														
TOTAL	18.08	7830.2	198	1	2	11	54	93	19	7	5	1	2	1														

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (PT./SEC.)																							
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35				
STORM CONDITIONS																											
BELOW 1	0.22	32.6	83																								
1 TO 2	0.23	32.9	91	1	2	10	15	13	10	7	5	1	2														
2 TO 5	0.67	157.7	142	1	3	18	19	9	1																		
5 TO 10	0.44	155.5	0	1	7	15	26	66	19	5	1																
10 TO 15	0.39	131.6	0																								
15 TO 20	0.05	19.2	0																								
20 TO 25	0.05	20.1	0																								
25 TO 30	0.73	323.0	5																								
30 TO 35	4.33	15.4	0																								
ABOVE 35	2.78	1293.3	0																								
TOTAL	5.57	2183.5	261	2	10	28	62	100	38	13	6	2															

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (PT./SEC.)																									
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35						
STORM PLUS NON-STORM																													
BELOW 1	0.22	32.6	83																										
1 TO 2	0.23	32.9	91	1	2	10	15	13	10	7	5	1	2																
2 TO 5	0.67	157.7	142	1	3	18	19	9	1																				
5 TO 10	0.44	155.5	0	1	7	15	26	66	19	5	1																		
10 TO 15	0.39	131.6	0																										
15 TO 20	0.16	131.4	0																										
20 TO 25	0.33	120.9	0																										
25 TO 30	1.09	473.3	5																										
30 TO 35	7.35	3020.7	170																										
ABOVE 35	12.90	5757.1	18	1	2	11	49	85	10	7	5	1	2	1															
TOTAL	23.66	10001.6	455	1	2	12	39	116	193	57	20	9	3	2	1														

TABLE D7b
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 MCGUIRE AFB, NEW JERSEY
 FOR THE
 WINTER SEASON

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (PT./SEC.)																								
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35					
NON-STORM CONDITIONS																												
BELOW 1	0	0	0																									
1 TO 2	0	0	0																									
2 TO 5	0	0	0																									
5 TO 10	0	0	0																									
10 TO 15	0	0	0																									
15 TO 20	0.19	68.7	0																									
20 TO 25	0.18	66.1	0																									
25 TO 30	0.25	134.5	0																									
30 TO 35	1.01	781.2	124																									
ABOVE 35	1.12	4401.8	18	1	2	11	51	47	19	7	5	1	2	1														
TOTAL	12.55	5685.2	140	1	2	11	56	57	17	7	5	1	2	1														

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (PT./SEC.)																					
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35		
STORM CONDITIONS																									
BELOW 1	0.16	23.4	24																						
1 TO 2	0.12	19.1	11																						
2 TO 5	0.62	94.7	89																						
5 TO 10	0.35	109.7	0	1	5	10	15	40	12	5	3														
10 TO 15	0.28	93.0	0																						
15 TO 20	0.05	19.2	0																						
20 TO 25	0.05	20.1	0																						
25 TO 30	0.73	323.0	5																						
30 TO 35	4.33	15.4	0																						
ABOVE 35	2.78	1293.3	0																						
TOTAL	4.98	2009.8	129	1	5	14	24	57	19	6	3														

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (PT./SEC.)																									
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35						
STORM PLUS NON-STORM																													
BELOW 1	0.16	23.4	24																										
1 TO 2	0.12	19.1	11																										
2 TO 5	0.62	94.7	89																										
5 TO 10	0.35	109.7	0	1	5	10	15	40	12	5	3																		
10 TO 15	0.28	93.0	0																										
15 TO 20	0.24	87.9	2																										
20 TO 25	0.23	80.2	0																										
25 TO 30	0.99	427.4	5																										
30 TO 35	1.84	796.8	174																										
ABOVE 35	12.90	5757.1	18	1	2	11	51	47	19	7	5	1	2	1															
TOTAL	17.53	7495.1	269	1	1	7	25	62	114	38	11	6	1	2	1														

TABLE D76
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA

AND
MCGUIRE AFB, NEW JERSEY
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.12	43.5	0																			
20 TO 25	0.10	39.7	0																			
25 TO 30	0.11	45.0	0																			
30 TO 35	5.21	2223.9	94																			
ABOVE 35	0.	0.	0																			
TOTAL	5.53	2392.9	94																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.36	9.2	39																			
1 TO 2	0.30	13.9	43																			
2 TO 5	0.25	13.0	53																			
5 TO 10	0.39	29.0	0																			
10 TO 15	0.11	37.0	0																			
15 TO 20	0.12	43.5	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	6.60	193.6	192																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.36	9.2	39																			
1 TO 2	0.30	13.9	43																			
2 TO 5	0.25	13.0	53																			
5 TO 10	0.39	29.0	0																			
10 TO 15	0.11	37.0	0																			
15 TO 20	0.12	43.5	0																			
20 TO 25	0.10	39.7	0																			
25 TO 30	0.11	45.0	0																			
30 TO 35	5.21	2223.9	94																			
ABOVE 35	0.	0.	0																			
TOTAL	6.13	2306.6	106																			

TABLE D76
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA

AND
MCGUIRE AFB, NEW JERSEY
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.33	12.5	0																			
25 TO 30	0.33	13.3	0																			
30 TO 35	0.37	28.4	0																			
ABOVE 35	1.37	463.9	3																			
TOTAL	1.95	720.2	3																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.32	3.0	0																			
1 TO 2	0.26	16.9	3																			
2 TO 5	0.39	19.4	4																			
5 TO 10	0.11	33.4	0																			
10 TO 15	0.12	43.4	0																			
15 TO 20	0.35	19.2	0																			
20 TO 25	0.39	29.1	0																			
25 TO 30	0.73	123.0	5																			
30 TO 35	0.33	19.6	3																			
ABOVE 35	2.78	1295.3	0																			
TOTAL	4.36	1783.6	21																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.32	3.0	0																			
1 TO 2	0.36	16.9	3																			
2 TO 5	0.39	19.4	4																			
5 TO 10	0.11	33.4	0																			
10 TO 15	0.12	43.4	0																			
15 TO 20	0.35	19.2	0																			
20 TO 25	0.39	29.1	0																			
25 TO 30	0.73	123.0	5																			
30 TO 35	0.33	19.6	3																			
ABOVE 35	4.15	1438.0	3																			
TOTAL	5.61	2893.6	24																			

TABLE D8a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	5.23	1079.4	66																			
20 TO 25	8.15	1286.4	50				1	2														
25 TO 30	23.13	9637.1	83																			
30 TO 35	93.57	40596.9	492																			
ABOVE 35	131.88	54159.7	370																			
TOTAL	261.74	114553.6	1269				1	2														

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.1	302.0	487																			
1 TO 2	2.22	490.9	371																			
2 TO 5	7.57	1599.7	433																			
5 TO 10	7.21	1986.6	215																			
10 TO 15	4.87	1581.7	66																			
15 TO 20	3.37	1331.6	2																			
20 TO 25	6.16	1321.6	42																			
25 TO 30	6.41	171.7	0																			
30 TO 35	1.11	484.0	67																			
ABOVE 35	1.07	821.1	14																			
TOTAL	24.21	7656.5	1697																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.1	302.0	487																			
1 TO 2	2.22	490.9	371																			
2 TO 5	7.57	1599.7	433																			
5 TO 10	7.21	1986.6	215																			
10 TO 15	4.67	1561.7	66																			
15 TO 20	5.31	1983.0	60																			
20 TO 25	8.49	3417.0	101																			
25 TO 30	23.34	9837.9	83																			
30 TO 35	93.68	41211.7	559																			
ABOVE 35	131.53	59976.8	584																			
TOTAL	249.95	122211.1	2966																			

TABLE D8b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	2.25	1064.1	61																			
20 TO 25	2.61	1125.5	40																			
25 TO 30	11.36	4917.5	46																			
30 TO 35	28.27	12901.1	218																			
ABOVE 35	71.22	31242.1	462																			
TOTAL	114.61	50184.2	827																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	6.83	123.9	152																			
1 TO 2	1.23	205.2	72																			
2 TO 5	3.60	773.4	100																			
5 TO 10	2.84	826.2	190																			
10 TO 15	1.81	613.4	96																			
15 TO 20	0.10	36.3	2																			
20 TO 25	1.36	22.3	28																			
25 TO 30	0.4	17.6	0																			
30 TO 35	6.29	127.1	67																			
ABOVE 35	0.	0.	0																			
TOTAL	15.81	2739.5	725																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	6.83	123.9	152																			
1 TO 2	1.23	205.2	72																			
2 TO 5	3.60	773.4	100																			
5 TO 10	2.84	826.2	190																			
10 TO 15	1.81	613.4	96																			
15 TO 20	2.25	1064.1	61																			
20 TO 25	2.67	1147.9	60																			
25 TO 30	11.10	4920.0	66																			
30 TO 35	28.56	12627.2	289																			
ABOVE 35	70.22	31242.1	462																			
TOTAL	125.41	52923.8	1552																			

TABLE D03
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.21	75.0	1																			
20 TO 25	0.35	134.5	2									1	1									
25 TO 30	0.97	423.0	1										1	1								
30 TO 35	6.40	2072.2	6									1	4	1								
ABOVE 35	7.42	3132.6	9									4	5									
TOTAL	15.43	6637.9	19									7	11	1								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	19.3	30																			
1 TO 2	0.11	22.2	28									1	2	6	1	12	6	1	1			
2 TO 5	0.27	50.9	22					1	1	1	1	10	8	6								
5 TO 10	0.29	85.0	10									2	3	12	3	1						
10 TO 15	0.25	83.3	1									1	5	4								
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.22	96.0	0																			
ABOVE 35	0.49	206.5	14										4	10								
TOTAL	1.77	572.0	105					1	1	2	6	20	36	21	7	2	1					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	19.3	30																			
1 TO 2	0.11	22.2	28									1	2	6	1	12	6	1	1			
2 TO 5	0.27	50.9	22					1	1	1	1	10	8	6								
5 TO 10	0.29	85.0	10									2	3	12	3	1						
10 TO 15	0.25	83.3	1									1	5	4								
15 TO 20	0.21	75.0	1																			
20 TO 25	0.35	134.5	2																			
25 TO 30	0.97	423.0	1																			
30 TO 35	6.70	2960.2	6																			
ABOVE 35	7.92	3339.1	23										8	15								
TOTAL	17.20	7209.9	124					1	1	2	6	35	47	22	7	2	1					

TABLE D04
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.77	280.9	0																			
20 TO 25	0.71	270.9	0																			
25 TO 30	0.81	343.7	1																			
30 TO 35	17.45	7703.0	166									1	5	14	15	42	49	15	12	5	5	3
ABOVE 35	16.35	7146.5	1																			
TOTAL	36.39	15753.0	168									1	5	14	15	42	51	15	12	5	5	3

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.29	44.3	104																			
1 TO 2	0.33	50.0	71									5	16	21	24	22	11	3				1
2 TO 5	0.60	154.0	50									3	10	16	24	12	5					1
5 TO 10	1.02	291.9	14									1	3	11	24	7	4					
10 TO 15	0.64	210.2	0											1	12		1					
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.95	767.1	239									1	9	29	49	84	41	21	3		1	1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.20	44.3	104																			
1 TO 2	0.33	50.0	71									5	16	21	24	22	11	3				1
2 TO 5	0.60	154.0	50									3	10	16	24	12	5					1
5 TO 10	1.02	291.9	14									1	3	11	24	7	4					
10 TO 15	0.64	210.2	0											1	12		1					
15 TO 20	0.77	280.9	0																			
20 TO 25	0.71	270.9	0																			
25 TO 30	0.81	343.7	1																			
30 TO 35	17.45	7703.0	166									1	5	14	15	42	49	15	12	5	5	3
ABOVE 35	16.35	7146.5	1																			
TOTAL	36.04	16020.0	407									1	9	29	44	91	139	56	33	8	5	4

TABLE D00
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII
FOR THE
AUTUMN SEASON

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																		
1 TO 2	0.	0.	0																		
2 TO 5	0.	0.	0																		
5 TO 10	0.	0.	0																		
10 TO 15	0.	0.	0																		
15 TO 20	2.31	717.4	4																		
20 TO 25	4.28	1745.9	16									5	11								
25 TO 30	10.29	4359.2	35								3	12	15	3	1	1					
30 TO 35	40.36	17521.7	102								6	17	71	6	2						
ABOVE 35	30.47	17434.5	90								5	24	59	8	2						
TOTAL	95.01	41970.4	295								14	58	100	17	9	1					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.77	110.2	201								12	23	33	52	45	20	10	2	3	1			
1 TO 2	1.25	204.7	200								2	6	15	49	74	33	9	9	2	1			
2 TO 5	3.02	613.5	163								2	5	11	12	38	57	16	14	7	1			
5 TO 10	2.05	782.7	41											12	27	2							
10 TO 15	1.00	651.9	9											4	4	1							
15 TO 20	0.10	67.1	0																				
20 TO 25	0.28	113.3	14									2	1	7	3				1				
25 TO 30	7.37	193.2	0																				
30 TO 35	0.40	261.7	0																				
ABOVE 35	1.30	614.6	0																				
TOTAL	12.60	3570.0	620									2	7	29	52	137	221	100	43	27	5	4	1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.77	110.2	201								12	23	33	52	45	20	10	2	3	1		
1 TO 2	1.25	204.7	200								2	6	15	49	74	33	9	9	2	1		
2 TO 5	3.02	613.5	163								2	5	11	12	38	57	16	14	7	1		
5 TO 10	2.05	782.7	41											12	27	2						
10 TO 15	1.00	651.9	9											4	4	1						
15 TO 20	2.19	704.5	4											4								
20 TO 25	4.57	1855.0	37								2	6	10	3							1	
25 TO 30	10.66	4312.4	35								3	12	15	3	1	1						
30 TO 35	40.36	17703.4	102								6	17	71	6	2							
ABOVE 35	40.36	18249.1	90								5	24	59	8	2							
TOTAL	100.29	45550.4	683								2	7	29	66	195	381	117	48	28	5	4	1

TABLE D01
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																		
1 TO 2	0.	0.	0																		
2 TO 5	0.	0.	0																		
5 TO 10	0.	0.	0																		
10 TO 15	0.	0.	0																		
15 TO 20	0.94	197.1	2																		
20 TO 25	0.56	220.3	0																		
25 TO 30	0.72	309.7	3										1	1	2						
30 TO 35	3.76	1804.1	10									1	5	42	58	0	2				1
ABOVE 35	29.04	12041.6	117								1	5	42	58	0	2					1
TOTAL	34.63	15248.0	132								1	1	6	45	60	0	3				1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.19	28.0	37																		
1 TO 2	0.29	94.0	22									1	1	5	7	7	5	3	3		
2 TO 5	0.60	134.0	27																		
5 TO 10	0.52	159.0	16																		
10 TO 15	0.46	155.0	1																		
15 TO 20	0.	0.	0																		
20 TO 25	0.	0.	0																		
25 TO 30	0.	0.	0																		
30 TO 35	0.	0.	0																		
ABOVE 35	0.	0.	0																		
TOTAL	2.38	529.2	133																		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.19	28.0	37																		
1 TO 2	0.29	94.0	22																		
2 TO 5	0.60	134.0	27																		
5 TO 10	0.52	159.0	16																		
10 TO 15	0.46	155.0	1																		
15 TO 20	0.94	197.1	2																		
20 TO 25	0.56	220.3	0																		
25 TO 30	0.72	309.7	3																		
30 TO 35	3.76	1804.1	10																		
ABOVE 35	29.04	12041.6	117																		
TOTAL	36.71	15777.0	259								2	1	13	75	106	21	9	4	4		

TABLE D0c
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 HICKAM AFB, HAWAII
 FOR THE
 MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.86	310.3	36					1	1			3	5	20	17	6	3						
20 TO 25	1.66	672.6	15									3	3	8	2	2							
25 TO 30	4.27	1719.3	10									1	1	8									
30 TO 35	16.14	7091.9	103									1	2	12	72	86	10	1		1			
ABOVE 35	24.38	19825.8	213									1	10	39	126	13	2	2	2				
TOTAL	47.11	20619.9	477					1	1	1	1	6	20	155	243	31	8	2	2	1			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	34.6	50									2	3	9	7	12	6	7	4				
1 TO 2	1.45	71.5	22									4	5	7	2	3	1	1					
2 TO 5	1.19	263.9	86									6	19	37	12	3	1	1					
5 TO 10	1.29	371.1	125				1	1	4	1		6	19	37	12	3	1	1					
10 TO 15	0.72	239.9	53									3	20	31	30	10	7	3	3	1			
15 TO 20	0.10	36.5	2									5	14	25	1	4	4						
20 TO 25	0.36	22.3	8									1	1	1									
25 TO 30	0.34	17.6	5									1	14	11	2								
30 TO 35	1.29	127.1	67									2	5	4	9	14	17	7	4	2	1	1	1
ABOVE 35	0.	0.	0																				
TOTAL	4.35	1184.6	431					1	3	9	10	48	107	143	54	27	17	9	2				1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	34.6	50									2	3	9	7	12	6	7	4				
1 TO 2	1.45	71.5	22									4	5	7	2	3	1	1					
2 TO 5	1.19	263.9	86									6	19	37	12	3	1	1					
5 TO 10	1.29	371.1	125				1	1	4	1		6	19	37	12	3	1	1					
10 TO 15	0.72	239.9	53									3	20	31	30	10	7	3	3	1			
15 TO 20	0.10	36.5	2									5	14	25	1	4	4						
20 TO 25	0.36	22.3	8									1	1	1									
25 TO 30	0.34	17.6	5									1	1	8									
30 TO 35	1.29	127.1	67									2	6	6	21	86	101	17	5	2	2	1	1
ABOVE 35	24.38	19825.8	213									2	6	10	16	76	262	386	85	35	19	10	2
TOTAL	51.69	21864.4	908									2	6	10	16	76	262	386	85	35	19	10	2

TABLE D0d
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 HICKAM AFB, HAWAII
 FOR THE
 MONTH OF MARCH

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.11	41.8	2																				
20 TO 25	0.71	316.5	0																				
30 TO 35	4.26	1932.1	0																				
ABOVE 35	0.	0.	0																				
TOTAL	4.97	2233.0	3																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	10.9	15									1	1	5	7	2							
1 TO 2	0.26	14.4	22									1	1	8	6	5	1						
2 TO 5	0.24	12.4	12									2	9	1									
5 TO 10	0.05	19.3	1																				
10 TO 15	0.27	24.5	1																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.17	75.1	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.46	152.3	51									1	2	16	16	13	2	1					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	10.9	15									1	1	5	7	2							
1 TO 2	0.30	14.4	22									1	1	8	6	5	1						
2 TO 5	0.04	12.4	12									2	9	1									
5 TO 10	0.05	19.3	1																				
10 TO 15	0.07	24.5	1																				
15 TO 20	0.26	24.5	1																				
20 TO 25	0.11	41.8	2																				
25 TO 30	0.71	316.5	0																				
30 TO 35	4.26	1932.1	0																				
ABOVE 35	0.	0.	0																				
TOTAL	5.66	2366.1	54									1	2	18	17	13	2	1					

TABLE DB1
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS APB, CALIFORNIA
AND
HICKAM APB, HAWAII
FOR THE
MONTH OF APRIL
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.12	42.3	0																			
20 TO 25	0.15	57.6	0																			
25 TO 30	0.17	72.1	0																			
30 TO 35	1.15	480.2	6																			
ABOVE 35	3.07	1674.5	9																			
TOTAL	5.56	2326.6	15																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0.04	6.6	0																			
2 TO 5	0.19	36.4	10																			
5 TO 10	0.21	63.0	9																			
10 TO 15	0.15	50.3	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0.05	20.9	0																			
ABOVE 35	1.49	264.5	14																			
TOTAL	1.19	387.3	39																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	6.6	0																			
1 TO 2	0.04	6.6	0																			
2 TO 5	0.19	36.4	10																			
5 TO 10	0.21	63.0	9																			
10 TO 15	0.15	50.3	0																			
15 TO 20	0.12	42.3	0																			
20 TO 25	0.15	57.6	0																			
25 TO 30	0.17	72.1	0																			
30 TO 35	1.20	501.1	6																			
ABOVE 35	4.46	1881.6	23																			
TOTAL	6.74	2713.9	94																			

TABLE DB2
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS APB, CALIFORNIA
AND
HICKAM APB, HAWAII
FOR THE
MONTH OF MAY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.05	12.2	0																			
20 TO 25	0.09	35.1	1																			
25 TO 30	0.09	35.2	1																			
30 TO 35	1.24	556.9	0																			
ABOVE 35	3.46	1458.1	0																			
TOTAL	4.90	2077.5	1																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	1.9	0																			
1 TO 2	0.01	1.1	4																			
2 TO 5	0.04	10.1	0																			
5 TO 10	0.03	10.0	0																			
10 TO 15	0.02	8.5	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.12	32.4	15																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	1.9	0																			
1 TO 2	0	1.1	4																			
2 TO 5	0.04	10.1	0																			
5 TO 10	0.03	10.0	0																			
10 TO 15	0.02	8.5	0																			
15 TO 20	0.03	12.2	0																			
20 TO 25	0.09	35.1	0																			
25 TO 30	0.09	35.2	1																			
30 TO 35	1.24	556.9	0																			
ABOVE 35	3.46	1458.1	0																			
TOTAL	5.32	2109.0	16																			

TABLE DBA
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII
FOR THE
MONTH OF JUNE
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	68.1	0																			
20 TO 25	0.16	62.1	0																			
25 TO 30	0.19	65.7	0																			
30 TO 35	0.47	2032.6	0																			
ABOVE 35	2.95	1294.5	0																			
TOTAL	9.95	4337.9	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.07	12.0	33																			
1 TO 2	0.09	16.8	24																			
2 TO 5	0.11	28.4	7																			
5 TO 10	0.20	84.7	7																			
10 TO 15	0.17	60.3	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.73	202.2	71																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.07	12.0	33																			
1 TO 2	0.09	16.8	24																			
2 TO 5	0.11	28.4	7																			
5 TO 10	0.20	84.7	7																			
10 TO 15	0.17	60.3	0																			
15 TO 20	0.18	68.1	0																			
20 TO 25	0.16	62.1	0																			
25 TO 30	0.19	65.7	0																			
30 TO 35	0.47	2032.6	0																			
ABOVE 35	2.95	1294.5	0																			
TOTAL	10.60	4547.1	71																			

TABLE DBB
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII
FOR THE
MONTH OF JULY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.27	100.9	0																			
20 TO 25	0.32	124.9	0																			
25 TO 30	0.34	143.9	0																			
30 TO 35	0.43	3745.0	140																			
ABOVE 35	5.28	2333.1	1																			
TOTAL	14.64	6417.9	141																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	21.4	51																			
1 TO 2	0.14	21.0	20																			
2 TO 5	0.41	78.6	17																			
5 TO 10	0.40	127.6	6																			
10 TO 15	0.24	81.6	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.41	331.0	94																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	21.4	51																			
1 TO 2	0.14	21.0	20																			
2 TO 5	0.41	78.6	17																			
5 TO 10	0.40	127.6	6																			
10 TO 15	0.24	81.6	0																			
15 TO 20	0.27	100.9	0																			
20 TO 25	0.32	124.9	0																			
25 TO 30	0.34	143.9	0																			
30 TO 35	0.43	3745.0	140																			
ABOVE 35	5.28	2333.1	1																			
TOTAL	16.35	6748.9	235																			

TABLE D8a
 DISTRIBUTIONS OF OBSERVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 HICKAM AFB, HAWAII
 FOR THE
 MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.31	111.9	0																			
20 TO 25	0.23	91.9	0																			
25 TO 30	0.28	119.1	1																			
30 TO 35	2.56	1125.4	26									1										
ABOVE 35	8.11	3548.9	0									0	10									
TOTAL	11.50	4997.2	27									0	10									

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.27	17.8	20									1	4	2	4	6	3					
1 TO 2	0.29	23.2	27									4	5	6	8	7						
2 TO 5	0.16	46.9	26									1	5	12	4	4						
5 TO 10	0.25	79.6	1																			
10 TO 15	0.22	76.3	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.81	233.9	74									1	9	12	23	10	10				1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	13.8	20									1	4	2	4	6	3					
1 TO 2	0.29	23.2	27									4	5	6	8	7						
2 TO 5	0.16	46.9	26									1	5	12	4	4						
5 TO 10	0.25	79.6	1																			
10 TO 15	0.22	76.3	0																			
15 TO 20	0.31	111.9	0																			
20 TO 25	0.23	91.9	0																			
25 TO 30	0.28	119.1	1																			
30 TO 35	2.56	1125.4	26									0	10									
ABOVE 35	8.11	3548.9	0																			
TOTAL	12.31	5311.1	101									1	9	20	42	10	10				1	

TABLE D8a
 DISTRIBUTIONS OF OBSERVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 HICKAM AFB, HAWAII
 FOR THE
 MONTH OF SEPTEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.27	96.1	0																			
20 TO 25	0.37	141.9	4									1										
25 TO 30	0.32	129.0	0																			
30 TO 35	10.69	4322.6	1																			
ABOVE 35	7.97	3304.0	1																			
TOTAL	19.62	8275.0	6									1	1									

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	9.7	25									3	5	10	6	1						
1 TO 2	0.28	43.5	50									4	8	25	6	3	3	1				
2 TO 5	0.37	80.3	17									4	10	6	1	2						
5 TO 10	0.49	133.7	2											2								
10 TO 15	0.33	109.8	0																			
15 TO 20	0.33	120.0	0																			
20 TO 25	0.07	25.0	0																			
25 TO 30	0.07	25.0	0																			
30 TO 35	0.06	24.5	0																			
ABOVE 35	0.07	29.4	0																			
TOTAL	1.64	695.8	94									7	17	47	12	5	5	1				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	9.7	25									3	5	10	6	1						
1 TO 2	0.28	43.5	50									4	8	25	6	3	3	1				
2 TO 5	0.37	80.3	17									4	10	6	1	2						
5 TO 10	0.49	133.7	2											2								
10 TO 15	0.33	109.8	0																			
15 TO 20	0.31	111.9	0																			
20 TO 25	0.43	147.9	4									3	1									
25 TO 30	0.38	156.6	0																			
30 TO 35	10.75	4346.5	1																			
ABOVE 35	8.04	3413.4	1																			
TOTAL	21.44	8778.0	100									7	20	50	12	5	5	1				

TABLE D6
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII
FOR THE
MONTH OF OCTOBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.63	229.4	2																			
20 TO 25	0.57	222.4	2																			
25 TO 30	4.17	1819.2	2																			
30 TO 35	19.23	6713.4	0																			
ABOVE 35	19.40	7423.2	63																			
TOTAL	36.39	16602.6	67																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	36.8	77																			
1 TO 2	0.36	57.5	72																			
2 TO 5	1.18	228.2	75																			
5 TO 10	1.26	276.7	18																			
10 TO 15	0.72	238.2	2																			
15 TO 20	0.12	42.9	2																			
20 TO 25	0.15	59.1	0																			
25 TO 30	0.20	84.2	0																			
30 TO 35	0.9	37.3	0																			
ABOVE 35	0.65	292.1	3																			
TOTAL	4.79	1351.0	244																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	36.8	77																			
1 TO 2	0.36	57.5	72																			
2 TO 5	1.18	228.2	75																			
5 TO 10	1.26	276.7	18																			
10 TO 15	0.72	238.2	2																			
15 TO 20	0.75	288.3	2																			
20 TO 25	0.72	281.6	2																			
25 TO 30	4.37	1903.4	2																			
30 TO 35	15.31	6747.7	0																			
ABOVE 35	10.45	7015.3	63																			
TOTAL	41.10	17953.6	311																			

TABLE D6p
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
HICKAM AFB, HAWAII
FOR THE
MONTH OF NOVEMBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	1.13	393.9	2																			
20 TO 25	3.35	1381.2	12																			
25 TO 30	5.81	2413.9	33																			
30 TO 35	14.44	6289.4	101																			
ABOVE 35	14.40	6427.3	34																			
TOTAL	39.59	17192.8	182																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.48	71.7	99																			
1 TO 2	0.60	139.8	78																			
2 TO 5	1.47	305.3	71																			
5 TO 10	1.30	372.3	21																			
10 TO 15	0.91	303.8	7																			
15 TO 20	0.33	12.2	3																			
20 TO 25	0.37	25.6	14																			
25 TO 30	0.17	41.4	0																			
30 TO 35	0.46	199.8	0																			
ABOVE 35	0.65	293.1	3																			
TOTAL	6.35	1729.1	290																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.48	71.7	99																			
1 TO 2	0.60	139.8	78																			
2 TO 5	1.47	305.3	71																			
5 TO 10	1.30	372.3	21																			
10 TO 15	0.91	303.8	7																			
15 TO 20	1.13	406.1	2																			
20 TO 25	3.42	1406.8	26																			
25 TO 30	5.91	2437.4	33																			
30 TO 35	14.40	6489.2	101																			
ABOVE 35	15.35	6920.4	34																			
TOTAL	49.69	18891.9	472																			

TABLE D8
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 HICKAM AFB, HAWAII
 FOR THE
 MONTH OF DECEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.65	298.7	3																			
20 TO 25	0.59	232.5	25																			
25 TO 30	6.27	2485.5	33																			
30 TO 35	8.37	3744.1	25																			
ABOVE 35	16.79	7595.0	132																			
TOTAL	32.87	14315.0	210																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	58.3	65																			
1 TO 2	0.49	78.0	28																			
2 TO 5	1.81	374.9	87																			
5 TO 10	1.33	299.1	9																			
10 TO 15	0.63	214.7	2																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	4.34	1025.7	191																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	58.3	65																			
1 TO 2	0.49	78.0	28																			
2 TO 5	1.81	374.9	87																			
5 TO 10	1.33	299.1	9																			
10 TO 15	0.63	214.7	2																			
15 TO 20	0.65	298.7	3																			
20 TO 25	0.59	232.5	25																			
25 TO 30	6.27	2485.5	33																			
30 TO 35	8.37	3744.1	25																			
ABOVE 35	16.79	7595.0	132																			
TOTAL	37.21	14341.5	409																			

TABLE D9a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
MARE AIRPORT, MARE ISLAND

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.00	0.0	0																			
5 TO 10	0.00	0.0	0																			
10 TO 15	0.00	0.0	0																			
15 TO 20	0.62	1499.7	59																			
20 TO 25	0.62	2644.1	34																			
25 TO 30	31.18	11893.2	236																			
30 TO 35	95.33	42796.8	749																			
ABOVE 35	293.62	128496.1	1513																			
TOTAL	432.36	185439.7	2787																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.40	354.0	221																			
1 TO 2	3.76	638.1	253																			
2 TO 5	5.62	1351.1	332																			
5 TO 10	4.57	1347.0	91																			
10 TO 15	4.23	1395.1	69																			
15 TO 20	0.43	185.4	0																			
20 TO 25	0.39	149.9	0																			
25 TO 30	0.43	179.2	0																			
30 TO 35	1.69	292.2	1																			
ABOVE 35	1.51	643.0	21																			
TOTAL	24.23	6504.0	988																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.40	354.0	221																			
1 TO 2	3.76	638.1	253																			
2 TO 5	5.62	1351.1	332																			
5 TO 10	4.57	1347.0	91																			
10 TO 15	4.23	1395.1	69																			
15 TO 20	4.50	1655.4	59																			
20 TO 25	7.31	2794.0	34																			
25 TO 30	30.59	11982.2	236																			
30 TO 35	96.22	41899.0	946																			
ABOVE 35	293.13	129339.1	1534																			
TOTAL	434.29	191449.7	3775																			

TABLE D9b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
MARE AIRPORT, MARE ISLAND
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.00	0.0	0																			
5 TO 10	0.00	0.0	0																			
10 TO 15	0.00	0.0	0																			
15 TO 20	0.62	223.5	2																			
20 TO 25	0.73	284.6	13																			
25 TO 30	0.78	325.2	2																			
30 TO 35	10.39	4576.2	391																			
ABOVE 35	31.09	22341.0	298																			
TOTAL	63.92	27933.5	736																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.31	43.7	38																			
1 TO 2	0.28	42.1	7																			
2 TO 5	0.86	182.3	33																			
5 TO 10	0.68	189.9	22																			
10 TO 15	0.53	174.9	13																			
15 TO 20	0.00	0.0	0																			
20 TO 25	0.00	0.0	0																			
25 TO 30	0.00	0.0	0																			
30 TO 35	0.00	0.0	0																			
ABOVE 35	0.31	135.1	6																			
TOTAL	2.97	767.9	119																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.31	43.7	38																			
1 TO 2	0.28	42.1	7																			
2 TO 5	0.86	182.3	33																			
5 TO 10	0.68	189.9	22																			
10 TO 15	0.53	174.9	13																			
15 TO 20	0.62	223.5	2																			
20 TO 25	0.73	284.6	13																			
25 TO 30	0.78	325.2	2																			
30 TO 35	10.39	4576.2	391																			
ABOVE 35	31.31	22476.1	304																			
TOTAL	66.49	28718.4	825																			

TABLE D90
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	2.32	838.0	28							1	13	10	4									
20 TO 25	4.71	1694.5	13							1	9	5	2								1	
25 TO 30	22.51	8799.0	226							1	4	9	63	110	2	7					1	
30 TO 35	46.47	27954.4	531							2	13	204	292	35	5						1	
ABOVE 35	152.29	66314.5	771							1	11	34	220	415	71	9	1					
TOTAL	249.10	105767.4	1589						1	2	17	57	514	840	134	21	1	2				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.37	193.1	85							1	1	9	22	26	16	9						
1 TO 2	1.94	329.0	143							1	4	21	43	48	18	6	2					
2 TO 5	3.45	802.0	217							1	1	17	75	98	23	2	2				1	
5 TO 10	2.66	788.0	41							1	2	3	13	19	1	1				1		
10 TO 15	2.64	866.0	22																			
15 TO 20	2.43	155.0	0																			
20 TO 25	0.39	149.0	0																			
25 TO 30	0.43	179.2	0																			
30 TO 35	0.69	292.2	1											1								
ABOVE 35	1.19	537.0	15									4	4	2	3							
TOTAL	15.14	4263.5	524							3	9	59	163	210	62	17	6	1	1			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.37	193.1	85							1	1	9	22	26	16	9						
1 TO 2	1.94	329.0	143							1	4	21	43	48	18	6	2					
2 TO 5	3.45	802.0	217							1	1	17	75	98	23	2	2					1
5 TO 10	2.66	788.0	41							1	2	3	13	19	1	1				1		
10 TO 15	2.64	866.0	22																			
15 TO 20	2.75	944.5	28										1	13	10	4						
20 TO 25	5.10	2649.3	13										5	5	2							1
25 TO 30	22.44	8939.1	226							1	1	4	9	63	110	22	7				1	
30 TO 35	47.16	29246.6	532							2	13	205	292	35	5						1	
ABOVE 35	154.18	66822.4	786							1	11	30	235	417	74	9	1					
TOTAL	244.14	110572.9	2113						1	5	26	112	674	1057	196	38	7	3	1			

TABLE D91
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.11	39.5	1											1								
20 TO 25	0.12	45.6	13											1	10	7						
25 TO 30	0.16	59.2	2											2								
30 TO 35	1.81	705.7	382											14	35	92	177	46	16	2		
ABOVE 35	0.98	3821.8	56											1	10	23	16	4	2			
TOTAL	10.46	4671.0	694											15	45	110	206	52	18	2		

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.36	6.6	3											1								
1 TO 2	0.36	9.7	0																			
2 TO 5	0.17	21.8	1																			
5 TO 10	0.16	41.1	17							1	2	1	2	8	3							
10 TO 15	0.10	33.5	1											1								
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	2.46	114.6	22							1	2	1	3	9	4	1						1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.36	6.6	3											1								
1 TO 2	0.36	9.7	0																			
2 TO 5	0.10	21.8	1																			
5 TO 10	0.14	41.1	17							1	2	1	2	8	3							
10 TO 15	0.10	33.5	1											1								
15 TO 20	0.11	39.5	1											1								
20 TO 25	0.12	45.6	13																			
25 TO 30	0.16	59.2	2											2								
30 TO 35	1.81	705.7	382											14	35	92	177	46	16	2		
ABOVE 35	0.98	3821.8	56											1	10	23	16	4	2			
TOTAL	11.42	4786.4	676							1	17	46	119	215	56	19	2					1

**TABLE DMB
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
MONTH OF FEBRUARY
NON-STORM CONDITIONS**

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.24	66.0	1																				
20 TO 25	0.20	100.0	0																				
25 TO 30	0.27	111.9	0																				
30 TO 35	1.01	2370.0	2																				
ABOVE 35	16.01	7300.0	56																				
TOTAL	20.00	10238.0	59																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	14.1	20																				
1 TO 2	0.00	12.0	1																				
2 TO 5	0.21	45.0	2																				
5 TO 10	0.10	46.4	1																				
10 TO 15	0.19	90.7	11																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.31	130.1	4																				
TOTAL	1.07	313.6	49																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	14.1	20																				
1 TO 2	0.00	12.0	1																				
2 TO 5	0.21	45.0	2																				
5 TO 10	0.10	46.4	1																				
10 TO 15	0.19	90.7	11																				
15 TO 20	0.24	66.0	1																				
20 TO 25	0.20	100.0	0																				
25 TO 30	0.27	111.9	0																				
30 TO 35	1.01	2370.0	2																				
ABOVE 35	17.23	7490.0	62																				
TOTAL	20.06	10551.6	100																				

**TABLE DMB
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
MONTH OF MARCH
NON-STORM CONDITIONS**

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.00	39.2	0																				
20 TO 25	0.00	39.0	0																				
25 TO 30	0.11	44.9	0																				
30 TO 35	0.00	39.0	0																				
ABOVE 35	9.23	4104.0	6																				
TOTAL	9.61	4336.0	6																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	5.6	3																				
1 TO 2	0.04	6.7	4																				
2 TO 5	0.11	31.2	3																				
5 TO 10	0.07	26.2	0																				
10 TO 15	0.00	20.0	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.34	101.0	10																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	5.6	3																				
1 TO 2	0.04	6.7	4																				
2 TO 5	0.11	31.2	3																				
5 TO 10	0.07	26.2	0																				
10 TO 15	0.00	20.0	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	9.23	4104.0	6																				
TOTAL	9.62	4437.6	16																				

TABLE D8
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.22	82.0	0																			
20 TO 25	0.17	64.1	0																			
25 TO 30	0.19	70.2	0																			
30 TO 35	10.65	4733.7	0																			
ABOVE 35	8.55	3633.6	18																			
TOTAL	19.79	8591.6	18									6	10	1	1							
												6	10	1	1							

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	14.9	26																			
1 TO 2	0.19	31.4	26								1	1	1	2	0	3	6	3	1			
2 TO 5	0.38	89.8	20								1	3	1	8	5	2	2	2		3	1	
5 TO 10	0.16	48.2	2										2	5	2	0	1	2				
10 TO 15	0.16	53.3	2										2	1	3	9	1	4				
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.98	237.5	74								1	2	6	6	24	21	17	10	3	3	1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	14.9	26																			
1 TO 2	0.19	31.4	26								1	1	1	2	0	3	6	3	1			
2 TO 5	0.38	89.8	20								1	3	1	8	5	2	2	2		3	1	
5 TO 10	0.16	48.2	2										2	5	2	0	1	2				
10 TO 15	0.16	53.3	2										2	1	3	9	1	4				
15 TO 20	0.22	82.0	0																			
20 TO 25	0.17	64.1	0																			
25 TO 30	0.19	70.2	0																			
30 TO 35	10.65	4733.7	0																			
ABOVE 35	8.55	3633.6	18																			
TOTAL	20.77	8829.1	112								1	2	6	6	30	31	10	11	3	3	1	

TABLE D9
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.33	129.6	15								1	1	1	4	7	1						
20 TO 25	0.33	129.7	8										1	1	5	1						
25 TO 30	5.92	2284.7	7										2	1	3	1						
30 TO 35	1.81	807.3	1												1							
ABOVE 35	24.87	11089.5	54										1	3	2	27	23	2				
TOTAL	33.16	14431.7	85										1	3	5	36	35	5				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	22.9	10																			
1 TO 2	0.28	48.4	27																			
2 TO 5	0.50	124.3	47																			
5 TO 10	0.41	127.1	5																			
10 TO 15	0.29	98.9	4																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	1.64	421.6	101																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WGE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	22.9	10																			
1 TO 2	0.28	48.4	27																			
2 TO 5	0.50	124.3	47																			
5 TO 10	0.41	127.1	5																			
10 TO 15	0.29	98.9	4																			
15 TO 20	0.33	129.6	15								1	1	1	4	7	1	1					
20 TO 25	0.33	129.7	8										1	1	5	1						
25 TO 30	5.92	2284.7	7										2	1	3	1						
30 TO 35	1.81	807.3	1												1							
ABOVE 35	24.87	11089.5	54										1	3	2	27	23	2				
TOTAL	34.90	14851.4	106										1	3	5	36	35	5				

TABLE D98
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
MARF AIRPORT, MARF ISLAND
FOR THE
MONTH OF JUNE
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.17	62.9	14																			
20 TO 25	0.19	73.0	0																			
25 TO 30	0.25	105.0	0																			
30 TO 35	0.04	370.0	0																			
ABOVE 35	17.15	7867.0	30																			
TOTAL	18.00	8400.9	44																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	95.0	20																			
1 TO 2	0.02	141.0	32																			
2 TO 5	0.10	26.7	2																			
5 TO 10	0.17	46.7	5																			
10 TO 15	0.20	99.9	10																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.00	328.9	77																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	95.0	20																			
1 TO 2	0.02	141.0	32																			
2 TO 5	0.10	26.7	2																			
5 TO 10	0.17	46.7	5																			
10 TO 15	0.20	99.9	10																			
15 TO 20	0.17	62.9	14																			
20 TO 25	0.19	73.0	0																			
25 TO 30	0.25	105.0	0																			
30 TO 35	0.04	370.0	0																			
ABOVE 35	17.15	7867.0	30																			
TOTAL	20.20	8817.0	121																			

TABLE D91
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
MARF AIRPORT, MARF ISLAND
FOR THE
MONTH OF JULY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.21	76.4	0																			
25 TO 30	0.22	85.7	0																			
30 TO 35	1.00	799.7	0																			
ABOVE 35	17.40	7706.3	1																			
TOTAL	19.02	8706.0	1																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.27	12.9	19																			
1 TO 2	0.08	15.0	12																			
2 TO 5	0.20	47.3	6																			
5 TO 10	0.17	53.1	0																			
10 TO 15	0.17	57.2	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.60	105.5	37																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.07	12.9	19																			
1 TO 2	0.08	15.0	12																			
2 TO 5	0.20	47.3	6																			
5 TO 10	0.17	53.1	0																			
10 TO 15	0.17	57.2	0																			
15 TO 20	0.21	76.4	0																			
20 TO 25	0.22	85.7	0																			
25 TO 30	0.23	90.5	0																			
30 TO 35	1.00	799.7	0																			
ABOVE 35	17.40	7706.3	1																			
TOTAL	20.51	8972.1	30																			

TABLE D9a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS APB, CALIFORNIA
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																		
1 TO 2	0.	0.	0																		
2 TO 5	0.	0.	0																		
5 TO 10	0.	0.	0																		
10 TO 15	0.	0.	0																		
15 TO 20	0.17	64.2	0																		
20 TO 25	0.18	74.8	0																		
25 TO 30	0.26	105.9	1																		
30 TO 35	3.60	1530.9	2																		
ABOVE 35	12.35	5299.1	335																		
TOTAL	16.56	7087.3	338	1						35	102	136	37	9	4		1				

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.1	4																		
1 TO 2	0.12	21.0	2																		
2 TO 5	0.23	50.6	4																		
5 TO 10	0.24	67.7	16																		
10 TO 15	0.16	56.1	0																		
15 TO 20	0.	0.	0																		
20 TO 25	0.	0.	0																		
25 TO 30	0.	0.	0																		
30 TO 35	0.	0.	0																		
ABOVE 35	0.	0.	0																		
TOTAL	0.79	199.4	26							1	2	7	6	5		2					

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.1	4																	
1 TO 2	0.12	21.0	2																	
2 TO 5	0.23	50.6	4																	
5 TO 10	0.24	67.7	16																	
10 TO 15	0.16	56.1	0																	
15 TO 20	0.17	67.2	0																	
20 TO 25	0.18	74.8	0																	
25 TO 30	0.26	105.9	1																	
30 TO 35	3.60	1530.9	2																	
ABOVE 35	12.35	5299.1	335																	
TOTAL	17.35	7286.3	364	1						36	102	136	37	9	4		1			

TABLE D9b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS APB, CALIFORNIA
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
MONTH OF SEPTEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)															
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																
1 TO 2	0.	0.	0																
2 TO 5	0.	0.	0																
5 TO 10	0.	0.	0																
10 TO 15	0.	0.	0																
15 TO 20	0.26	91.9	1																
20 TO 25	1.30	544.7	3																
25 TO 30	0.43	175.4	0																
30 TO 35	12.90	5425.9	20																
ABOVE 35	15.22	6983.3	68																
TOTAL	35.11	12021.3	92																

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)															
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	25.0	35																
1 TO 2	0.32	55.2	16																
2 TO 5	0.39	92.9	22																
5 TO 10	0.33	101.3	1																
10 TO 15	0.29	97.2	1																
15 TO 20	0.12	42.3	0																
20 TO 25	0.11	44.2	0																
25 TO 30	0.39	38.0	0																
30 TO 35	0.24	16.3	1																
ABOVE 35	0.	0.	0																
TOTAL	1.85	512.3	76																

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)															
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	25.0	35																
1 TO 2	0.32	55.2	16																
2 TO 5	0.39	92.9	22																
5 TO 10	0.33	101.3	1																
10 TO 15	0.29	97.2	1																
15 TO 20	0.37	134.2	1																
20 TO 25	1.41	568.0	3																
25 TO 30	0.52	213.6	0																
30 TO 35	12.96	5442.3	21																
ABOVE 35	15.22	6983.3	68																
TOTAL	31.97	13333.3	168																

TABLE D9a
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 MONTH OF OCTOBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.76	274.9	3								2	1											
20 TO 25	0.96	378.1	2									2											
25 TO 30	1.18	495.9	0																				
30 TO 35	27.40	11013.4	76								2	3	23	43	4	1							
ABOVE 35	50.16	29376.5	429							1	4	15	111	252	40	5	1						
TOTAL	80.46	30533.7	513							1	6	18	136	290	44	6	1						

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	17																				
1 TO 2	0.64	107.9	43								1	3	7	12	11	5	4						
2 TO 5	1.23	202.7	32																				
5 TO 10	1.05	320.4	14								1												
10 TO 15	0.95	310.2	4																				
15 TO 20	0.31	113.3	0																				
20 TO 25	0.27	109.7	0																				
25 TO 30	0.34	141.2	0																				
30 TO 35	6.65	275.9	9																				
ABOVE 35	0.97	415.4	2																				
TOTAL	6.90	2156.6	112								1	4	8	33	42	16	4	1	1				

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	17																				
1 TO 2	0.64	137.9	43								1	3	7	12	11	5	4						
2 TO 5	1.23	202.7	32																				
5 TO 10	1.05	320.4	14								1												
10 TO 15	0.95	310.2	4																				
15 TO 20	0.31	113.3	0																				
20 TO 25	0.27	109.7	0																				
25 TO 30	0.34	141.2	0																				
30 TO 35	6.65	275.9	9																				
ABOVE 35	0.97	415.4	2																				
TOTAL	95.36	40688.6	622								2	10	26	169	340	60	12	2	1				

TABLE D9b
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 MONTH OF NOVEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	1.31	472.1	24																				
20 TO 25	2.45	976.7	8																				
25 TO 30	20.90	8006.6	226																				
30 TO 35	24.16	10718.3	455								1	4	9	63	110	22	7						
ABOVE 35	79.61	34156.7	274																				
TOTAL	130.62	54612.4	987								1	11	34	346	498	79	15						

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	33																				
1 TO 2	0.66	166.8	84								1	3	9	11	4	3	1						
2 TO 5	1.03	425.3	163																				
5 TO 10	1.28	366.2	26								1	1	3	9	11	1							
10 TO 15	1.40	450.4	17																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.22	92.3	13																				
TOTAL	6.38	1596.6	333								2	5	40	110	133	33	7	5					

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	33																				
1 TO 2	0.66	166.8	84								1	3	9	11	4	3	1						
2 TO 5	1.03	425.3	163																				
5 TO 10	1.28	366.2	26								1	1	3	9	11	1							
10 TO 15	1.40	450.4	17																				
15 TO 20	1.31	472.1	24																				
20 TO 25	2.45	976.7	8																				
25 TO 30	20.90	8006.6	226																				
30 TO 35	24.16	10718.3	455								1	4	9	63	110	22	7						
ABOVE 35	79.61	34156.7	274																				
TOTAL	130.61	54609.0	1323								1	3	16	74	456	631	112	22	5	2	1		

TABLE Dm
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 MONTH OF DECEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.27	97.2	0																				
20 TO 25	0.36	136.7	0																				
25 TO 30	0.37	134.1	0																				
30 TO 35	2.07	1291.0	7																				
ABOVE 35	25.10	11390.9	106								2	11	01	70	10	3	1						
TOTAL	26.97	13040.4	109								2	11	02	76	10	3	1						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	21.0	7								1		2	1	3								
1 TO 2	0.14	20.1	6								1		3	1	2								
2 TO 5	0.55	116.7	30								1	1	7	10	3								
5 TO 10	0.36	100.4	4										4										
10 TO 15	0.24	81.7	1										1										
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	1.43	340.8	48								2	1	17	19	6		1						

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	21.0	7								1		2	1	3								
1 TO 2	0.14	20.1	6								1		3	1	2								
2 TO 5	0.55	116.7	30								1	1	7	10	3								
5 TO 10	0.36	100.4	4										4										
10 TO 15	0.24	81.7	1										1										
15 TO 20	0.27	97.2	0																				
20 TO 25	0.36	136.7	0																				
25 TO 30	0.37	134.1	0																				
30 TO 35	2.07	1291.0	7										1	6									
ABOVE 35	25.10	11390.9	106								2	11	01	70	10	3	1						
TOTAL	30.40	13380.4	241								4	12	99	95	26	3	2						

TABLE D106
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	1.77	662.5	9								2	7										
20 TO 25	2.05	793.2	2									2										
25 TO 30	11.53	4572.2	160				1	1	1	6	17	67	50	11	3	3						
30 TO 35	66.82	2618.9	429				1	3	9	26	163	183	34	6	3							
ABOVE 35	66.44	29273.4	455							6	47	147	202	40	12	1						1
TOTAL	148.61	63897.2	1555				1	2	4	21	90	379	444	85	21	7						1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.62	91.2	112																			
1 TO 2	0.69	112.6	136								5	3	19	26	23	26	10					1
2 TO 5	1.16	268.7	95								2	7	21	29	34	31	10					2
5 TO 10	1.71	476.2	109				1	1	1	2	3	15	20	39	13	4	2	1	1			
10 TO 15	1.37	457.7	23								2	2	6	10	1	2						
15 TO 20	0.11	38.6	0																			
20 TO 25	0.10	37.5	0																			
25 TO 30	0.12	49.9	0																			
30 TO 35	1.71	740.1	4								1	2	1									
ABOVE 35	3.67	1647.9	3										3									
TOTAL	11.27	3903.4	482				1	1	1	9	19	65	110	142	88	34	9	1	2			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.62	91.2	112																			
1 TO 2	0.69	112.6	136								5	3	19	26	23	26	10					1
2 TO 5	1.16	268.7	95								2	7	21	29	34	31	10					2
5 TO 10	1.71	476.2	109				1	1	1	2	3	15	20	39	13	4	2	1	1			
10 TO 15	1.37	457.7	23								2	2	6	10	1	2						
15 TO 20	0.11	38.6	0																			
20 TO 25	0.10	37.5	0																			
25 TO 30	0.12	49.9	0																			
30 TO 35	1.71	740.1	4								1	2	1									
ABOVE 35	3.67	1647.9	3										3									
TOTAL	19.09	67797.6	1537				1	2	3	13	40	155	489	586	173	55	16	1	3			

TABLE D106
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.21	76.3	0																			
20 TO 25	0.24	94.0	0																			
25 TO 30	9.35	3662.4	148																			
30 TO 35	3.14	1416.5	0																			
ABOVE 35	1.67	768.7	0																			
TOTAL	14.61	5996.0	148																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	9.4	16																			
1 TO 2	0.16	25.9	19								3	1	5	4	1							
2 TO 5	0.13	28.4	17									1	9	7	1	1						
5 TO 10	0.32	83.4	0									2	2	9	1	1	1	1				
10 TO 15	0.17	59.9	1																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.21	95.2	0																			
ABOVE 35	3.67	1647.9	3																			
TOTAL	4.71	1949.6	34																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.68	9.4	16																			
1 TO 2	0.16	25.9	19																			
2 TO 5	0.13	28.4	17																			
5 TO 10	0.32	83.4	0																			
10 TO 15	0.17	59.9	1																			
15 TO 20	0.21	76.3	0																			
20 TO 25	0.24	94.0	0																			
25 TO 30	9.35	3662.4	148																			
30 TO 35	3.35	1511.7	0																			
ABOVE 35	5.35	2396.6	3																			
TOTAL	19.33	7945.6	222																			

**TABLE D103
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN
FOR THE
SPRING SEASON**

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	C.17	62.5	0																				
20 TO 25	0.15	59.1	0																				
25 TO 30	0.25	109.0	12																				
30 TO 35	2.45	1066.4	101											1	3	7	1						
ABOVE 35	16.47	6481.6	407											5	44	120	101	30	10				
TOTAL	17.40	7793.2	520											6	50	163	243	45	12				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	3.6	3																				
1 TO 2	0.05	3.4	6																				
2 TO 5	0.08	18.9	25																				
5 TO 10	0.09	29.2	25																				
10 TO 15	0.14	46.7	3																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.37	104.6	62																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	3.6	3																				
1 TO 2	0.05	3.4	6																				
2 TO 5	0.08	18.9	25																				
5 TO 10	0.09	29.2	25																				
10 TO 15	0.14	46.7	3																				
15 TO 20	0.17	62.5	0																				
20 TO 25	0.15	59.1	0																				
25 TO 30	0.25	109.0	12																				
30 TO 35	2.45	1066.4	101											1	3	7	1						
ABOVE 35	16.47	6481.6	407											5	44	120	101	30	10				
TOTAL	17.66	7897.2	582											1	1	10	50	169	269	59	17		

**TABLE D104
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN
FOR THE
SUMMER SEASON**

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.30	107.3	1																				
20 TO 25	0.28	111.1	2																				
25 TO 30	0.25	106.3	0																				
30 TO 35	9.70	4307.0	107																				
ABOVE 35	11.41	5054.5	13																				
TOTAL	21.95	9686.9	123																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.6	12																				
1 TO 2	0.07	12.1	26																				
2 TO 5	0.18	36.6	10																				
5 TO 10	0.23	63.9	0																				
10 TO 15	0.23	79.1	2																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.76	196.9	48																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.6	12																				
1 TO 2	0.07	12.1	26																				
2 TO 5	0.18	36.6	10																				
5 TO 10	0.23	63.9	0																				
10 TO 15	0.23	79.1	2																				
15 TO 20	0.30	107.3	1																				
20 TO 25	0.28	111.1	2																				
25 TO 30	0.25	106.3	0																				
30 TO 35	9.70	4307.0	107																				
ABOVE 35	11.41	5054.5	13																				
TOTAL	22.71	9889.8	171																				

TABLE D100
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN
FOR THE
AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	1.10	396.4	8								1	7										
20 TO 25	1.37	525.9	0																			
25 TO 30	1.68	699.9	0																			
30 TO 35	91.53	21000.2	221						1	1	6	11	92	94	11	3	2					
ABOVE 35	38.88	16988.6	35																			
TOTAL	94.56	40419.0	264						1	1	6	13	100	110	12	3	2					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.48	70.6	83																			
1 TO 2	0.42	69.6	87																			
2 TO 5	8.78	164.7	43																			
5 TO 10	1.09	300.0	84																			
10 TO 15	3.82	272.1	17																			
15 TO 20	6.11	38.6	0																			
20 TO 25	0.10	37.5	0																			
25 TO 30	0.12	49.9	0																			
30 TO 35	1.50	644.9	4																			
ABOVE 35	0.	0.	0																			
TOTAL	5.43	1647.0	318																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.48	70.6	83																			
1 TO 2	0.42	69.6	87																			
2 TO 5	8.78	164.7	43																			
5 TO 10	1.09	300.0	84																			
10 TO 15	3.82	272.1	17																			
15 TO 20	1.20	435.0	0																			
20 TO 25	1.47	543.4	0																			
25 TO 30	1.81	749.0	0																			
30 TO 35	93.03	22453.1	225																			
ABOVE 35	38.88	16988.6	35																			
TOTAL	99.99	42047.0	582																			

TABLE D101
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.39	33.9	0																			
20 TO 25	0.07	29.7	0																			
25 TO 30	0.15	63.0	0																			
30 TO 35	3.14	1414.5	0																			
ABOVE 35	1.67	748.7	0																			
TOTAL	5.13	2292.0	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.4	14																			
1 TO 2	0.28	13.5	18																			
2 TO 5	0.07	14.5	17																			
5 TO 10	0.07	21.4	0																			
10 TO 15	0.07	22.7	1																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.21	95.2	0																			
ABOVE 35	3.67	1647.9	3																			
TOTAL	4.20	1818.5	53																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.4	14																			
1 TO 2	0.30	13.5	18																			
2 TO 5	0.37	14.5	17																			
5 TO 10	0.07	21.4	0																			
10 TO 15	0.07	22.7	1																			
15 TO 20	0.39	33.9	0																			
20 TO 25	0.07	29.7	0																			
25 TO 30	0.15	63.0	0																			
30 TO 35	3.35	1511.7	0																			
ABOVE 35	5.35	2396.6	3																			
TOTAL	9.33	4111.0	53																			

TABLE D10g
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF MARCH

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDF DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.12	43.9	0																			
20 TO 25	0.12	46.5	0																			
25 TO 30	0.18	77.2	11																			
30 TO 35	2.35	1042.4	101																			
ABOVE 35	12.49	5572.2	406																			
TOTAL	15.26	6782.1	518																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDF DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.33	3.6	3																			
1 TO 2	0.32	3.0	5																			
2 TO 5	0.15	16.1	16																			
5 TO 10	0.36	10.7	8																			
10 TO 15	0.29	31.3	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.25	70.7	32																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDF DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.33	3.6	3																			
1 TO 2	0.32	3.0	5																			
2 TO 5	0.35	16.1	16																			
5 TO 10	0.36	10.7	8																			
10 TO 15	0.29	31.3	0																			
15 TO 20	0.12	43.9	0																			
20 TO 25	0.12	46.5	0																			
25 TO 30	0.18	77.2	11																			
30 TO 35	2.35	1042.4	101																			
ABOVE 35	12.49	5572.2	406																			
TOTAL	15.91	6952.0	552																			

TABLE D10h
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDF DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.5	10.7	1																			
20 TO 25	0.03	12.7	0																			
25 TO 30	0.07	20.5	1																			
30 TO 35	0.10	44.0	0																			
ABOVE 35	1.98	909.4	1																			
TOTAL	2.23	1013.2	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDF DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.02	2.4	1																			
2 TO 5	0.2	4.9	9																			
5 TO 10	0.23	10.5	17																			
10 TO 15	0.24	15.5	3																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.12	33.2	30																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDF DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.02	2.4	1																			
2 TO 5	0.22	4.9	9																			
5 TO 10	0.23	10.5	17																			
10 TO 15	0.24	15.5	3																			
15 TO 20	0.25	10.7	0																			
20 TO 25	0.03	12.7	0																			
25 TO 30	0.07	20.5	1																			
30 TO 35	0.10	44.0	0																			
ABOVE 35	1.98	909.4	1																			
TOTAL	2.34	1066.4	32																			

TABLE D10
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF JUNE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	37.0	1								1											
20 TO 25	0.15	60.9	2									2										
25 TO 30	0.12	50.7	0																			
30 TO 35	7.19	3197.5	107							2	2	10	39	34	16	2	1		1			
ABOVE 35	5.34	2450.0	11							1	1	4	2	1	2							
TOTAL	12.90	5796.1	121							2	3	11	44	30	17	4	1		1			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.4	6																			
1 TO 2	0.02	4.3	6																			
2 TO 5	0.04	13.0	10								1											
5 TO 10	0.06	20.6	0								1		4	1	1		1					
10 TO 15	0.12	44.1	2																			
15 TO 20	0.	0.	0									2										
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.27	85.5	24								2		4	12	2	3	1					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.4	6																			
1 TO 2	0.02	4.3	6																			
2 TO 5	0.04	13.0	10								1											
5 TO 10	0.06	20.6	0								1		6	1	1		1					
10 TO 15	0.12	44.1	2																			
15 TO 20	0.10	37.0	1																			
20 TO 25	0.15	60.9	2																			
25 TO 30	0.12	50.7	0																			
30 TO 35	7.19	3197.5	107								2	2	10	39	34	16	2	1		1		
ABOVE 35	5.34	2450.0	11								1	1	4	2	1	2						
TOTAL	12.17	5061.6	145								2	3	11	40	30	19	7	2		1		

TABLE D10J
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	..																
1 TO 2	..	..	..																
2 TO 5	..	..	..																
5 TO 10	..	..	..																
10 TO 15	..	..	..																
15 TO 20	0.20	73.3	0																			
20 TO 25	0.13	50.2	0																			
25 TO 30	0.13	50.6	0																			
30 TO 35	2.52	1113.3	0																			
ABOVE 35	6.27	2644.4	2																			
TOTAL	9.15	3892.8	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.23	6.1	6																			
1 TO 2	0.5	7.8	18																			
2 TO 5	0.13	23.6	0																			
5 TO 10	0.17	42.9	0																			
10 TO 15	0.11	35.0	0																			
15 TO 20	..	..	..																
20 TO 25	..	..	..																
25 TO 30	..	..	..																
30 TO 35	..	..	..																
ABOVE 35	0.	0.	0																			
TOTAL	6.49	113.4	24																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.23	6.1	6																			
1 TO 2	0.48	7.8	18																			
2 TO 5	0.13	23.6	0																			
5 TO 10	0.17	42.9	0																			
10 TO 15	0.11	35.0	0																			
15 TO 20	0.20	73.3	0																			
20 TO 25	0.13	50.2	0																			
25 TO 30	0.13	50.6	0																			
30 TO 35	2.52	1113.3	0																			
ABOVE 35	6.27	2644.4	2																			
TOTAL	9.54	4007.2	26																			

TABLE D10
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF OCTOBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	6.77	203.2	4																			
20 TO 25	6.97	371.1	0																			
25 TO 30	1.14	400.9	0																			
30 TO 35	30.01	14027.6	124																			
ABOVE 35	26.22	842.9	25																			
TOTAL	66.98	2,003.4	153																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.40	59.1	02																			
1 TO 2	0.27	43.0	52																			
2 TO 5	0.32	110.4	17																			
5 TO 10	1.76	211.3	03																			
10 TO 15	0.96	107.0	13																			
15 TO 20	0.11	30.6	0																			
20 TO 25	0.10	37.3	0																			
25 TO 30	0.12	40.9	0																			
30 TO 35	0.30	8.7	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.84	736.3	227																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.40	59.1	02																			
1 TO 2	0.27	43.0	52																			
2 TO 5	0.32	110.4	17																			
5 TO 10	1.76	211.3	03																			
10 TO 15	0.96	107.0	13																			
15 TO 20	0.08	21.9	4																			
20 TO 25	1.37	400.6	0																			
25 TO 30	1.26	332.4	0																			
30 TO 35	30.01	14028.3	124																			
ABOVE 35	26.22	842.9	25																			
TOTAL	63.76	26743.7	300																			

TABLE D11
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TRAVIS AFB, CALIFORNIA
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF NOVEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.32	113.1	4																			
20 TO 25	0.41	194.0	0																			
25 TO 30	3.94	219.4	0																			
30 TO 35	13.32	5700.0	97																			
ABOVE 35	10.05	8100.7	10																			
TOTAL	33.04	14413.0	111																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	11.3	1																			
1 TO 2	0.15	20.0	05																			
2 TO 5	0.25	94.3	26																			
5 TO 10	0.33	80.7	21																			
10 TO 15	0.26	90.0	4																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	1.00	646.2	4																			
ABOVE 35	0.	0.	0																			
TOTAL	2.89	900.0	91																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	11.3	1																			
1 TO 2	0.15	20.0	05																			
2 TO 5	0.25	94.3	26																			
5 TO 10	0.33	80.7	21																			
10 TO 15	0.26	90.0	4																			
15 TO 20	0.32	113.1	4																			
20 TO 25	0.41	194.0	0																			
25 TO 30	3.94	219.4	0																			
30 TO 35	13.32	5700.0	101																			
ABOVE 35	10.05	8100.7	10																			
TOTAL	36.23	15323.2	202																			

TABLE D10m
 DISTRIBUTIONS OF DERIVED VERTICAL DUST VELOCITY
 FOR THE ROUTE BETWEEN
 TRAVIS AFB, CALIFORNIA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF DECEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.12	42.4	0																			
20 TO 25	0.17	64.4	0																			
25 TO 30	9.20	3996.0	140				1	1	1	6	16	64	43	11	2	3						
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	9.40	3703.5	140				1	1	1	6	16	64	43	11	2	3						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.0	0																			
1 TO 2	0.08	12.0	1									1										
2 TO 5	0.06	13.9	0																			
5 TO 10	0.22	62.0	0																			
10 TO 15	0.11	37.2	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.51	131.1	1									1										

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.0	0																			
1 TO 2	0.08	12.0	1									1										
2 TO 5	0.06	13.9	0																			
5 TO 10	0.22	62.0	0																			
10 TO 15	0.11	37.2	0																			
15 TO 20	0.12	42.4	0																			
20 TO 25	0.17	64.4	0																			
25 TO 30	9.20	3996.0	140				1	1	1	6	16	64	43	11	2	3						
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	10.00	3634.6	140				1	1	1	6	17	64	43	11	2	3						

TABLE D11a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KELLY AFB, TEXAS
AND
ELMENDORF AFB, ALASKA

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	3.	0																			
15 TO 20	0.75	275.1	2							1			1									
20 TO 25	0.90	306.6	3																			
25 TO 30	3.10	1301.7	17							1	3	2	1	5				2			1	
30 TO 35	20.04	8906.6	27							3	1	3	10	2	2			2		1	1	
ABOVE 35	07.11	21233.6	100							1	10	50	70	17	5			1		1	1	
TOTAL	72.89	32011.5	226							1	7	23	62	121	19	5		3	1	1		

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	34.7	97																			
1 TO 2	0.30	62.9	76							1	2	6	7	4	3	14	0	0	1	1		
2 TO 5	0.90	183.0	123							1	1	3	4	11	20	30	20	5	2	1		
5 TO 10	0.94	202.7	99										1	5	32	41	0	1	1			
10 TO 15	0.93	200.6	26											1	10	13	2	1				
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	3.20	840.7	371							1	1	1	0	17	31	64	110	66	24	16	2	1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	34.7	97																				
1 TO 2	0.30	62.9	76							1	2	6	7	4	3	14	0	0	1	1			
2 TO 5	0.90	183.0	123							1	1	3	4	11	20	30	20	5	2	1			
5 TO 10	0.94	202.7	99										1	5	32	41	0	1	1				
10 TO 15	0.93	200.6	26											1	10	13	2	1					
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	07.11	21233.6	100							1	1	2	0	24	64	144	220	66	32	16	3	2	1
TOTAL	76.10	32007.2	597							1	1	2	0	24	64	144	220	66	32	16	3	2	1

TABLE D11b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KELLY AFB, TEXAS
AND
ELMENDORF AFB, ALASKA

FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.25	72.7	2											1								
20 TO 25	0.40	162.0	0																			
25 TO 30	0.40	164.0	1																			
30 TO 35	7.90	3119.1	13												1	11	1					
ABOVE 35	10.90	4660.0	140											1	10	30	50	17	5			1
TOTAL	19.47	9405.6	196											1	10	40	72	10	5			1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.20	12.0	22																			
1 TO 2	0.11	17.0	40							1	2	1	3	2	5	3	5					
2 TO 5	0.31	61.0	42							1	1	2	1	3	0	10	7	4	1			
5 TO 10	0.10	60.0	20									1	3	7	11	4	1	1				
10 TO 15	0.30	66.0	6										1	3								
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.93	297.0	144							1	1	1	5	9	13	26	40	23	0	0		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	12.0	22																			
1 TO 2	0.11	17.0	40							1	2	1	3	2	5	3	5					
2 TO 5	0.31	61.0	42							1	1	2	1	3	0	10	7	4	1			
5 TO 10	0.10	60.0	20									1	3	7	11	4	1	1				
10 TO 15	0.30	66.0	6										1	3								
15 TO 20	0.20	72.7	2											1								
20 TO 25	0.40	162.0	0																			
25 TO 30	0.40	164.0	1																			
30 TO 35	7.90	3119.1	13												1	11	1					
ABOVE 35	10.90	4660.0	140											1	10	30	50	17	5			1
TOTAL	20.42	9405.6	300							1	1	1	5	9	10	26	40	23	0	0		1

TABLE D11c
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KELLY AFB, TEXAS
AND
ELMENDORF AFB, ALASKA
FOR THE
SPRING SEASON
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.40	149.1	0																			
20 TO 25	0.47	183.3	0																			
25 TO 30	2.57	1124.0	3																			
30 TO 35	9.48	4139.0	1																			
ABOVE 35	30.33	13590.6	24																			
TOTAL	43.25	19190.0	28																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.0	20																			
1 TO 2	0.16	25.5	27																			
2 TO 5	0.47	97.8	59																			
5 TO 10	0.58	173.2	61																			
10 TO 15	0.45	152.1	9																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	1.78	467.6	176																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.0	20																			
1 TO 2	0.16	25.5	27																			
2 TO 5	0.47	97.8	59																			
5 TO 10	0.58	173.2	61																			
10 TO 15	0.45	152.1	9																			
15 TO 20	0.40	149.1	0																			
20 TO 25	0.47	183.3	0																			
25 TO 30	2.57	1124.0	3																			
30 TO 35	9.48	4139.0	1																			
ABOVE 35	30.33	13590.6	24																			
TOTAL	45.03	19657.6	204																			

TABLE D11d
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KELLY AFB, TEXAS
AND
ELMENDORF AFB, ALASKA
FOR THE
SUMMER SEASON
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0	0	0																			
20 TO 25	0.37	26.7	0																			
25 TO 30	0.38	35.9	0																			
30 TO 35	1.32	460.7	5																			
ABOVE 35	3.36	1342.1	5																			
TOTAL	4.27	1809.9	10																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	2.5	10																			
1 TO 2	0.01	2.5	1																			
2 TO 5	0.34	8.9	10																			
5 TO 10	0.33	13.0	0																			
10 TO 15	0.33	11.4	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.13	36.1	21																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	2.5	10																			
1 TO 2	0.01	2.5	1																			
2 TO 5	0.34	8.9	10																			
5 TO 10	0.33	13.0	0																			
10 TO 15	0.33	11.4	0																			
15 TO 20	0	0	0																			
20 TO 25	0.37	26.7	0																			
25 TO 30	0.38	35.9	0																			
30 TO 35	1.32	460.7	5																			
ABOVE 35	3.36	1342.1	5																			
TOTAL	6.41	1925.9	31																			

TABLE D110
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 KELLY AFB, TEXAS
 AND
 ELMENDORF AFB, ALASKA
 FOR THE
 AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.00	30.0	0																			
20 TO 25	0.00	30.0	0																			
25 TO 30	0.10	97.0	10																			
30 TO 35	2.01	1217.0	0																			
ABOVE 35	2.70	1224.2	11																			
TOTAL	5.90	2646.2	32																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	4.0	0																			
1 TO 2	0.10	17.1	0																			
2 TO 5	0.30	19.0	12																			
5 TO 10	0.10	40.4	0																			
10 TO 15	0.30	31.1	10																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.40	100.1	30																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	4.0	0																			
1 TO 2	0.10	17.1	0																			
2 TO 5	0.40	19.0	12																			
5 TO 10	0.14	40.4	0																			
10 TO 15	0.60	31.1	10																			
15 TO 20	0.00	30.0	0																			
20 TO 25	0.00	30.0	0																			
25 TO 30	0.10	97.0	10																			
30 TO 35	2.01	1217.0	0																			
ABOVE 35	2.70	1224.2	11																			
TOTAL	6.32	2674.3	62																			

TABLE D111
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 KELLY AFB, TEXAS
 AND
 ELMENDORF AFB, ALASKA
 FOR THE
 MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.00	20.2	0																			
20 TO 25	0.00	30.0	0																			
25 TO 30	0.10	97.0	1																			
30 TO 35	0.00	1000.0	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.22	2170.7	7																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	0.0	2																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.10	0.0	0																			
5 TO 10	0.00	0.0	0																			
10 TO 15	0.00	0.0	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.15	60.9	2																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	0.0	2																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.02	0.0	0																			
5 TO 10	0.00	0.0	0																			
10 TO 15	0.00	0.0	0																			
15 TO 20	0.00	0.0	0																			
20 TO 25	0.00	0.0	0																			
25 TO 30	0.10	0.0	1																			
30 TO 35	0.00	1000.0	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.37	2170.0	9																			

TABLE D111
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KELLY AFB, TEXAS
AND
ELMENDORF AFB, ALASKA
FOR THE
MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	2.14	50.5	2																			
20 TO 25	4.27	103.0	2																			
25 TO 30	6.22	91.7	0																			
30 TO 35	2.67	1120.0	7																			
ABOVE 35	10.95	4060.0	140																			
TOTAL	14.25	6235.6	149																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.1	20																			
1 TO 2	0.10	17.0	40																			
2 TO 5	0.29	50.2	42																			
5 TO 10	0.16	47.5	20																			
10 TO 15	0.19	61.2	4																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.00	190.1	142																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.1	20																			
1 TO 2	0.10	17.0	40																			
2 TO 5	0.29	50.2	42																			
5 TO 10	0.16	47.5	20																			
10 TO 15	0.19	61.2	4																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	15.25	6425.7	291																			

TABLE D112
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KELLY AFB, TEXAS
AND
ELMENDORF AFB, ALASKA
FOR THE
MONTH OF MARCH

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	2.43	145.1	0																			
20 TO 25	6.47	103.3	0																			
25 TO 30	2.57	1124.0	3																			
30 TO 35	9.40	4139.0	1																			
ABOVE 35	10.33	13990.0	24																			
TOTAL	43.25	19102.0	28																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.0	20																			
1 TO 2	0.16	25.5	27																			
2 TO 5	0.47	97.0	59																			
5 TO 10	0.50	173.2	61																			
10 TO 15	0.45	152.1	9																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.70	667.0	170																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	19.0	20																			
1 TO 2	0.16	25.5	27																			
2 TO 5	0.47	97.0	59																			
5 TO 10	0.50	173.2	61																			
10 TO 15	0.45	152.1	9																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	45.33	19607.0	294																			

TABLE DIII
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KELLY AFB, TEXAS
AND
ELMENDORF AFB, ALASKA
FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.37	24.5	0																			
20 TO 25	0.07	26.7	0																			
25 TO 30	0.00	35.9	0																			
30 TO 35	1.02	440.7	5																			
ABOVE 35	3.34	1342.1	5																			
TOTAL	4.27	1009.9	10																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.2	2.5	10																			
1 TO 2	0.31	2.5	1																			
2 TO 5	0.04	0.9	10																			
5 TO 10	0.3	10.0	0																			
10 TO 15	0.3	11.4	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.13	36.1	21																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	2.5	10																			
1 TO 2	0.31	2.5	1																			
2 TO 5	0.04	0.9	10																			
5 TO 10	0.3	10.0	0																			
10 TO 15	0.3	11.4	0																			
15 TO 20	0.37	24.5	0																			
20 TO 25	0.07	26.7	0																			
25 TO 30	0.00	35.9	0																			
30 TO 35	1.02	440.7	5																			
ABOVE 35	3.34	1342.1	5																			
TOTAL	4.41	1025.9	31																			

TABLE DIII
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KELLY AFB, TEXAS
AND
ELMENDORF AFB, ALASKA
FOR THE
MONTH OF SEPTEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.39	36.5	0																			
30 TO 35	2.13	97.0	13																			
ABOVE 35	2.01	1217.0	0																			
TOTAL	5.90	2560.2	32																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.33	4.3	9																			
1 TO 2	0.10	17.1	0																			
2 TO 5	0.06	15.3	12																			
5 TO 10	0.16	40.4	0																			
10 TO 15	0.09	31.1	13																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.42	100.1	30																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.33	4.3	9																			
1 TO 2	0.10	17.1	0																			
2 TO 5	0.06	15.3	12																			
5 TO 10	0.16	40.4	0																			
10 TO 15	0.09	31.1	13																			
15 TO 20	0.00	30.0	0																			
20 TO 25	0.00	30.5	0																			
25 TO 30	0.13	97.0	13																			
30 TO 35	2.01	1217.0	0																			
ABOVE 35	2.70	1224.2	11																			
TOTAL	6.32	2676.3	62																			

TABLE D12
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
APFLY AFB, TEXAS
AND
DOVER AFB, DELAWARE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.44	190.5	0																			
20 TO 25	0.71	281.5	2																			
25 TO 30	0.61	250.0	1																			
30 TO 35	0.59	255.1	9																			
ABOVE 35	10.81	8296.8	19																			
TOTAL	21.16	9269.7	31																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	27																			
1 TO 2	0.25	37.4	77																			
2 TO 5	1.23	257.8	205																			
5 TO 10	0.59	165.8	16																			
10 TO 15	0.40	133.9	2																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0.36	17.6	20																			
TOTAL	2.63	629.3	427																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	27																			
1 TO 2	0.25	37.4	77																			
2 TO 5	1.23	257.8	205																			
5 TO 10	0.59	165.8	16																			
10 TO 15	0.40	133.9	2																			
15 TO 20	0.44	190.5	0																			
20 TO 25	0.71	281.5	2																			
25 TO 30	0.61	250.0	1																			
30 TO 35	0.59	255.1	9																			
ABOVE 35	10.85	8312.4	39																			
TOTAL	23.80	9879.0	458																			

TABLE D13
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KELLY AFB, TEXAS
AND
DOVER AFB, DELAWARE
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.44	190.5	0																			
20 TO 25	0.71	281.5	2																			
25 TO 30	0.61	250.0	1																			
30 TO 35	0.59	255.1	9																			
ABOVE 35	10.81	8296.8	19																			
TOTAL	21.16	9269.7	31																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	27																			
1 TO 2	0.25	37.4	77																			
2 TO 5	1.23	257.8	205																			
5 TO 10	0.59	165.8	16																			
10 TO 15	0.40	133.9	2																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0.36	17.6	20																			
TOTAL	2.63	629.3	427																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	27																			
1 TO 2	0.25	37.4	77																			
2 TO 5	1.23	257.8	205																			
5 TO 10	0.59	165.8	16																			
10 TO 15	0.40	133.9	2																			
15 TO 20	0.44	190.5	0																			
20 TO 25	0.71	281.5	2																			
25 TO 30	0.61	250.0	1																			
30 TO 35	0.59	255.1	9																			
ABOVE 35	10.85	8312.4	39																			
TOTAL	23.80	9879.0	458																			

TABLE D12c
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 KELLY AFB, TEXAS
 AND
 DOVER AFB, DELAWARE
 FOR THE
 MONTH OF MARCH
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.44	150.5	0																			
20 TO 25	0.71	201.5	2																			
25 TO 30	0.61	259.0	1																			
30 TO 35	0.59	255.1	0																			
ABOVE 35	10.01	0294.0	10																			
TOTAL	21.16	0249.7	31																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	27																			
1 TO 2	0.25	37.4	77																			
2 TO 5	1.23	257.0	205																			
5 TO 10	0.59	165.0	16																			
10 TO 15	0.40	133.9	2																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.04	17.6	20																			
TOTAL	2.63	629.3	427																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	16.7	27																			
1 TO 2	0.25	37.4	77																			
2 TO 5	1.23	257.0	205																			
5 TO 10	0.59	165.0	16																			
10 TO 15	0.40	133.9	2																			
15 TO 20	0.44	150.5	0																			
20 TO 25	0.71	201.5	2																			
25 TO 30	0.61	259.0	1																			
30 TO 35	0.59	255.1	0																			
ABOVE 35	10.05	0312.4	30																			
TOTAL	23.00	0079.0	450																			

TABLE D13a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
DOVER AFB, DELAWARE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	2.10	773.0	100							1	1	3	10	30	30	6	6					1
20 TO 25	2.16	850.0	82								2	2	3	11	40	9	6	1				
25 TO 30	2.90	1233.3	20										1	7	15	5						
30 TO 35	41.75	10100.0	74										2	20	36	6	1					
ABOVE 35	99.45	43949.6	154							1			3	50	84	6	2	2				
TOTAL	148.44	64919.5	430							2	3	5	19	130	221	30	15	3				1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.01	151.7	210																			
1 TO 2	2.53	427.0	302																			
2 TO 5	2.14	573.0	446																			
5 TO 10	1.56	465.0	113								1	3	4	14	44	104	170	57	30	13	5	1
10 TO 15	1.63	545.0	30										1	1	3	14	12	5	1	1		
15 TO 20	3.03	8.5	11																			1
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.90	2167.0	1129							1	4	7	24	133	296	430	155	70	20	7	3	1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	1.71	151.7	210																			
1 TO 2	2.53	427.0	302																			
2 TO 5	2.14	573.0	446																			
5 TO 10	1.56	465.0	113								1	3	4	14	44	104	170	57	30	13	5	1
10 TO 15	1.63	545.0	30										1	1	3	14	12	5	1	1		
15 TO 20	2.21	781.5	111										1	1	3	13	35	42	0	6		1
20 TO 25	2.16	850.0	82											2	2	3	11	40	9	6	1	
25 TO 30	2.90	1233.3	20												1	7	15	5				
30 TO 35	41.75	10100.0	74												2	20	36	6				
ABOVE 35	99.45	43949.6	154							1			3	50	84	6	2	2				
TOTAL	157.34	67003.3	1567							1	6	10	29	152	435	621	189	85	31	7	3	1

TABLE D13b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
DOVER AFB, DELAWARE
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	6.65	239.9	33																			1
20 TO 25	6.00	350.5	49																			
25 TO 30	1.40	603.7	23																			
30 TO 35	15.25	6703.9	9																			
ABOVE 35	64.00	26339.4	40																			
TOTAL	84.29	28436.9	154																			1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	39.3	50																			
1 TO 2	0.60	113.3	52																			
2 TO 5	1.10	282.3	200																			
5 TO 10	0.55	170.1	34																			
10 TO 15	0.57	193.9	22																			
15 TO 20	0.85	240.0	44																			
20 TO 25	0.89	350.5	49																			
25 TO 30	1.40	603.7	23																			
30 TO 35	15.25	6703.9	9																			
ABOVE 35	64.00	26339.4	40																			
TOTAL	3.19	607.3	300																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.26	39.3	50																			
1 TO 2	0.60	113.3	52																			
2 TO 5	1.10	282.3	200																			
5 TO 10	0.55	170.1	34																			
10 TO 15	0.57	193.9	22																			
15 TO 20	0.85	240.0	44																			
20 TO 25	0.89	350.5	49																			
25 TO 30	1.40	603.7	23																			
30 TO 35	15.25	6703.9	9																			
ABOVE 35	64.00	26339.4	40																			
TOTAL	67.60	29244.2	943																			

TABLE D13C
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 DOVER AFB, DELAWARE
 FOR THE
 SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 15	0.	0.	0																				
15 TO 25	1.32	459.2	65							2	2	7	20	27	4	5							
25 TO 35	6.98	309.2	33							2	2	6	13	3	4	1							
35 TO 55	1.26	531.3	5									2	2	2	1								
ABOVE 55	26.21	11293.1	64									2	23	32	6	1							
TOTAL	68.52	29590.5	270							2	4	13	95	120	17	10	1						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.70	106.6	103									2	19	43	35	17	7						
1 TO 2	1.52	297.7	236							1	3	28	72	92	26	11	3						
2 TO 5	6.89	240.8	226							1	3	4	10	23	49	73	32	20	6	4			1
5 TO 15	6.80	245.9	79									1	10	31	25	9	2	1					
15 TO 25	6.80	289.9	16										2	6	4	2	1	1					
25 TO 35	0.	0.	0																				
35 TO 55	0.	0.	0																				
ABOVE 55	0.	0.	0																				
TOTAL	6.83	1147.0	723							1	3	5	16	82	195	239	104	51	18	4	1	1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.70	106.6	103									2	19	37	45	35	17	7					
1 TO 2	1.52	297.7	236							1	3	20	72	92	26	11	3						
2 TO 5	6.90	240.8	226							1	3	4	10	23	49	73	32	20	6	4			1
5 TO 15	6.80	245.9	79									1	10	31	25	9	2	1					
15 TO 25	6.80	289.9	16										2	6	4	2	1	1					
25 TO 35	0.	0.	0																				
35 TO 55	0.	0.	0																				
ABOVE 55	0.	0.	0																				
TOTAL	73.37	33736.3	990							1	3	7	20	99	260	367	121	61	19	4	1	1	

TABLE D13D
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 DOVER AFB, DELAWARE
 FOR THE
 AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 15	0.	0.	0																				
15 TO 25	0.21	76.3	2																				
25 TO 35	0.20	111.0	0																				
35 TO 55	0.23	98.3	0																				
ABOVE 55	0.20	121.9	1																				
TOTAL	16.62	6482.6	11																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.6	6																				
1 TO 2	0.04	56.8	16																				
2 TO 5	0.16	61.9	6																				
5 TO 15	0.16	64.1	0																				
15 TO 25	0.10	62.1	3																				
25 TO 35	0.	0.	0																				
35 TO 55	0.	0.	0																				
ABOVE 55	0.	0.	0																				
TOTAL	0.66	212.6	23																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.6	6																				
1 TO 2	0.04	56.8	16																				
2 TO 5	0.16	61.9	6																				
5 TO 15	0.16	64.1	0																				
15 TO 25	0.21	76.3	2																				
25 TO 35	0.20	111.0	0																				
35 TO 55	0.20	121.9	1																				
ABOVE 55	0.62	6482.6	11																				
TOTAL	16.69	7102.6	34																				

TABLE D13a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
DOVER AFB, DELAWARE
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.36	130.9	5																			
20 TO 25	0.45	176.2	47																			
25 TO 30	0.95	411.1	13																			
30 TO 35	0.65	3046.0	4																			
ABOVE 35	21.71	9711.6	20																			
TOTAL	32.10	14276.6	89																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	25.6	27																			
1 TO 2	0.21	37.7	19																			
2 TO 5	0.65	161.0	32																			
5 TO 10	0.27	83.4	8																			
10 TO 15	0.27	92.2	7																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.56	399.9	87																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	25.6	27																			
1 TO 2	0.21	37.7	19																			
2 TO 5	0.65	161.0	32																			
5 TO 10	0.27	83.4	8																			
10 TO 15	0.27	92.2	7																			
15 TO 20	0.36	130.9	5																			
20 TO 25	0.45	176.2	47																			
25 TO 30	0.95	411.1	13																			
30 TO 35	0.65	3046.0	4																			
ABOVE 35	21.71	9711.6	20																			
TOTAL	33.67	14676.5	176																			

TABLE D13b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
DOVER AFB, DELAWARE
FOR THE
MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.36	130.9	5																			
20 TO 25	0.45	176.2	47																			
25 TO 30	0.95	411.1	13																			
30 TO 35	0.65	3046.0	4																			
ABOVE 35	24.30	10027.0	20																			
TOTAL	32.10	14163.3	65																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	13.0	23																			
1 TO 2	0.46	79.6	33																			
2 TO 5	0.45	121.3	100																			
5 TO 10	0.39	86.6	26																			
10 TO 15	0.30	101.6	21																			
15 TO 20	0.3	8.5	11																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.63	497.4	302																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	13.0	23																			
1 TO 2	0.46	79.6	33																			
2 TO 5	0.45	121.3	100																			
5 TO 10	0.39	86.6	26																			
10 TO 15	0.30	101.6	21																			
15 TO 20	0.32	117.0	30																			
20 TO 25	0.45	176.2	2																			
25 TO 30	0.46	192.6	10																			
30 TO 35	0.46	2097.1	5																			
ABOVE 35	24.30	10027.0	20																			
TOTAL	34.02	14967.7	367																			

TABLE DISg
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 DOVER AFB, DELAWARE
 FOR THE
 MONTH OF JUNE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.50	170.3	5																			
20 TO 25	0.52	207.4	13																			
25 TO 30	0.50	250.7	4																			
30 TO 35	12.54	5420.6	3																			
ABOVE 35	15.00	7004.0	34																			
TOTAL	32.02	13119.0	59																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	97.5	80																			
1 TO 2	1.31	167.4	130																			
2 TO 5	0.44	122.4	140																			
5 TO 10	0.30	91.7	13																			
10 TO 15	0.36	122.9	1																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	7.50	561.9	354																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	97.5	80																			
1 TO 2	1.31	167.4	104																			
2 TO 5	0.44	122.4	146																			
5 TO 10	0.30	91.7	13																			
10 TO 15	0.36	122.9	1																			
15 TO 20	0.50	170.3	5																			
20 TO 25	0.52	207.4	13																			
25 TO 30	0.50	250.7	4																			
30 TO 35	12.54	5420.6	3																			
ABOVE 35	15.00	7004.0	34																			
TOTAL	32.53	13601.7	413																			

TABLE DISh
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 DOVER AFB, DELAWARE
 FOR THE
 MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.41	140.2	23																			
20 TO 25	0.27	103.0	20																			
25 TO 30	0.39	163.3	1																			
30 TO 35	4.00	2670.6	26																			
ABOVE 35	16.77	7210.1	41																			
TOTAL	22.64	9711.1	111																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	20.0	20																			
1 TO 2	0.27	60.4	40																			
2 TO 5	0.25	71.0	0																			
5 TO 10	0.27	60.0	3																			
10 TO 15	0.34	110.0	10																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.31	362.0	90																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	20.0	20																			
1 TO 2	0.27	60.4	40																			
2 TO 5	0.25	71.0	0																			
5 TO 10	0.27	60.0	3																			
10 TO 15	0.34	110.0	10																			
15 TO 20	0.41	140.2	23																			
20 TO 25	0.27	103.0	20																			
25 TO 30	0.39	163.3	1																			
30 TO 35	4.00	2670.6	26																			
ABOVE 35	16.77	7210.1	41																			
TOTAL	23.95	10004.0	291																			

TABLE DIM
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
DOVER AFB, DELAWARE
FOR THE
MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.41	133.7	37							1	4	14	13	3	2							
20 TO 25	0.20	78.0	0																			
25 TO 30	0.20	117.3	0																			
30 TO 35	0.07	3703.9	39									2	16	14	3							
ABOVE 35	0.10	2666.6	28										13	14	1							
TOTAL	15.04	6799.6	120							1	6	43	41	7	2							

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	18.4	46																			
1 TO 2	0.24	41.8	90																			
2 TO 5	0.20	56.4	72																			
5 TO 10	0.20	73.3	63																			
10 TO 15	0.17	53.2	5																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.33	243.1	276							1	2	3	5	42	75	77	46	29	4	3		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	18.4	46																			
1 TO 2	0.24	41.8	90																			
2 TO 5	0.20	56.4	72																			
5 TO 10	0.20	73.3	63																			
10 TO 15	0.17	53.2	5																			
15 TO 20	0.41	133.7	37																			
20 TO 25	0.20	78.0	0																			
25 TO 30	0.20	117.3	0																			
30 TO 35	0.07	3703.9	39																			
ABOVE 35	0.10	2666.6	28																			
TOTAL	16.09	7002.6	376							1	2	3	6	48	110	110	51	22	4	3		

TABLE DIM
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
DOVER AFB, DELAWARE
FOR THE
MONTH OF SEPTEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.21	76.3	2										1	1								
20 TO 25	0.20	111.0	0																			
25 TO 30	0.23	90.3	0																			
30 TO 35	0.20	121.9	1																			
ABOVE 35	14.62	6482.6	11											1	4	6						
TOTAL	15.62	6888.2	14											1	6	7						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.0	6																			
1 TO 2	0.34	56.0	14																			
2 TO 5	0.14	41.9	0																			
5 TO 10	0.14	44.1	0																			
10 TO 15	0.18	62.1	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.86	212.6	20																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.0	6																			
1 TO 2	0.34	56.0	14																			
2 TO 5	0.14	41.9	0																			
5 TO 10	0.14	44.1	0																			
10 TO 15	0.18	62.1	0																			
15 TO 20	0.21	76.3	2																			
20 TO 25	0.20	111.0	0																			
25 TO 30	0.23	90.3	0																			
30 TO 35	0.20	121.9	1																			
ABOVE 35	14.62	6482.6	11																			
TOTAL	16.49	7103.8	34																			

TABLE D14a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
CHARLESTON AFB/NUMC, SOUTH CAROLINA

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.79	209.9	0											2	6	1						
20 TO 25	0.69	200.9	0																			
25 TO 30	0.92	302.0	0																			
30 TO 35	14.29	6114.9	15											3	11	1						
ABOVE 35	37.44	16337.0	134											6	45	75	8					
TOTAL	55.43	23050.3	150											6	90	92	9					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	26.9	20											2	3	6	6	5	6			
1 TO 2	0.49	81.3	20											4	8	11	4	1				
2 TO 5	0.35	89.5	41											3	7	21	9	1				
5 TO 10	0.48	142.0	10												8	10						
10 TO 15	0.46	151.9	16											1	3	10	2					
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.96	492.5	131											2	11	32	50	20	8			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	26.9	20											2	3	6	6	5	6			
1 TO 2	0.49	81.3	20											4	4	11	4	1				
2 TO 5	0.35	89.5	41											3	7	21	9	1				
5 TO 10	0.48	142.0	10												8	10						
10 TO 15	0.46	151.9	16											1	3	10	2					
15 TO 20	0.79	209.9	0																			
20 TO 25	0.69	200.9	0																			
25 TO 30	0.92	302.0	0																			
30 TO 35	14.29	6114.9	15																			
ABOVE 35	37.44	16337.0	134												6	45	75	8				
TOTAL	55.79	23942.7	200											2	17	82	150	29	8			

TABLE D14b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
CHARLESTON AFB/NUMC, SOUTH CAROLINA
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.32	114.0	0																			
20 TO 25	0.31	120.0	0																			
25 TO 30	0.37	155.6	0																			
30 TO 35	11.97	5190.1	6																			
ABOVE 35	13.95	6125.6	55												2	25	26	2				
TOTAL	26.92	11726.1	61												2	25	32	2				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	16.0	24											2	3	6	5	5	3			
1 TO 2	0.21	35.2	11											2	2	4	4	1				
2 TO 5	0.20	51.7	10											1	3	9	5	1				
5 TO 10	0.27	80.2	8												4	4						
10 TO 15	0.22	73.5	5												2	3						
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.31	296.6	66											2	6	17	27	13	4			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	16.0	24											2	3	6	5	5	3			
1 TO 2	0.21	35.2	11											2	2	4	4	1				
2 TO 5	0.20	51.7	10											1	3	9	5	1				
5 TO 10	0.27	80.2	8												4	4						
10 TO 15	0.22	73.5	5												2	3						
15 TO 20	0.32	114.0	0																			
20 TO 25	0.31	120.0	0																			
25 TO 30	0.37	155.6	0																			
30 TO 35	11.97	5190.1	6																			
ABOVE 35	13.95	6125.6	55												2	25	26	2				
TOTAL	27.93	11962.7	127											2	8	47	59	12	4			

TABLE D143
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 CHARLESTON AFB/RUN1, SOUTH CAROLINA
 FOR THE
 SUMMER SEASON

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.47	171.9	9																			
20 TO 25	0.38	148.1	0																			
25 TO 30	0.45	187.1	0																			
30 TO 35	2.12	924.0	9																			
ABOVE 35	23.49	9912.2	79																			
TOTAL	26.91	11344.2	97																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.07	11.0	0																			
1 TO 2	0.20	60.1	17																			
2 TO 5	0.15	37.0	23																			
5 TO 10	0.21	62.6	10																			
10 TO 15	0.24	78.4	11																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.95	236.9	65																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	11.0	0																			
1 TO 2	0.28	60.1	17																			
2 TO 5	0.15	37.0	23																			
5 TO 10	0.21	62.6	10																			
10 TO 15	0.24	78.4	11																			
15 TO 20	0.47	171.9	9																			
20 TO 25	0.38	148.1	0																			
25 TO 30	0.45	187.1	0																			
30 TO 35	2.12	924.0	9																			
ABOVE 35	23.69	9912.2	79																			
TOTAL	27.07	11937.1	162																			

TABLE D144
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 CHARLESTON AFB/RUN1, SOUTH CAROLINA
 FOR THE
 MONTH OF APRIL

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.16	37.2	0																			
20 TO 25	0.14	33.0	0																			
25 TO 30	0.22	61.3	0																			
30 TO 35	0.57	1682.0	6																			
ABOVE 35	5.72	2496.6	54																			
TOTAL	14.02	6381.4	60																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	11.0	0																			
1 TO 2	0.17	20.2	1																			
2 TO 5	0.14	15.0	1																			
5 TO 10	0.16	46.0	0																			
10 TO 15	0.11	37.0	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.54	137.2	7																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	11.0	0																			
1 TO 2	0.17	20.2	1																			
2 TO 5	0.04	15.0	1																			
5 TO 10	0.16	46.0	0																			
10 TO 15	0.11	37.0	0																			
15 TO 20	0.16	37.2	0																			
20 TO 25	0.14	33.0	0																			
25 TO 30	0.22	61.3	0																			
30 TO 35	0.57	1682.0	6																			
ABOVE 35	5.72	2496.6	54																			
TOTAL	15.30	6510.6	67																			

TABLE D14a
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 CHARLESTON AFB/FUNN, SOUTH CAROLINA
 FOR THE
 MONTH OF MAY
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																			
1 TO 2	0.0	0.0	0																			
2 TO 5	0.0	0.0	0																			
5 TO 10	0.0	0.0	0																			
10 TO 15	0.0	0.0	0																			
15 TO 20	0.16	56.0	3																			
20 TO 25	0.17	67.2	0																			
25 TO 30	0.15	64.0	0																			
30 TO 35	3.40	1207.6	0																			
ABOVE 35	0.22	3629.0	1																			
TOTAL	12.10	5324.7	1																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	5.0	10																			
1 TO 2	0.04	7.0	10																			
2 TO 5	0.15	36.7	17																			
5 TO 10	0.12	34.2	0																			
10 TO 15	0.11	35.7	5																			
15 TO 20	0.0	0.0	0																			
20 TO 25	0.0	0.0	0																			
25 TO 30	0.0	0.0	0																			
30 TO 35	0.0	0.0	0																			
ABOVE 35	0.0	0.0	0																			
TOTAL	0.44	119.4	34																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	5.0	10																			
1 TO 2	0.04	7.0	10																			
2 TO 5	0.15	36.7	17																			
5 TO 10	0.12	34.2	0																			
10 TO 15	0.11	35.7	5																			
15 TO 20	0.16	56.0	3																			
20 TO 25	0.17	67.2	0																			
25 TO 30	0.15	64.0	0																			
30 TO 35	3.40	1207.6	0																			
ABOVE 35	0.22	3629.0	1																			
TOTAL	12.34	5444.1	60																			

TABLE D14b
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 CHARLESTON AFB/FUNN, SOUTH CAROLINA
 FOR THE
 MONTH OF JUNE
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																			
1 TO 2	0.0	0.0	0																			
2 TO 5	0.0	0.0	0																			
5 TO 10	0.0	0.0	0																			
10 TO 15	0.0	0.0	0																			
15 TO 20	0.32	109.5	0																			
20 TO 25	0.17	64.0	0																			
25 TO 30	0.23	96.0	0																			
30 TO 35	0.20	82.5	0																			
ABOVE 35	13.44	5922.4	70																			
TOTAL	14.36	5954.9	70																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.0	0																			
1 TO 2	0.14	22.2	0																			
2 TO 5	0.37	101.1	13																			
5 TO 10	0.11	32.3	17																			
10 TO 15	0.11	35.7	11																			
15 TO 20	0.0	0.0	0																			
20 TO 25	0.0	0.0	0																			
25 TO 30	0.0	0.0	0																			
30 TO 35	0.0	0.0	0																			
ABOVE 35	0.0	0.0	0																			
TOTAL	0.40	114.7	33																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.0	0																			
1 TO 2	0.14	22.2	0																			
2 TO 5	0.37	101.1	12																			
5 TO 10	0.11	32.3	10																			
10 TO 15	0.11	35.7	11																			
15 TO 20	0.30	109.5	0																			
20 TO 25	0.17	64.0	0																			
25 TO 30	0.23	96.0	0																			
30 TO 35	0.20	82.5	0																			
ABOVE 35	13.44	5922.4	70																			
TOTAL	14.83	6449.6	107																			

TABLE D14
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 CHARLESTON AFB/AFMC, SOUTH CAROLINA
 FOR THE
 MONTH OF JULY
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.32	9.1	0																			
20 TO 25	0.05	19.3	0																			
25 TO 30	0.35	21.0	0																			
30 TO 35	1.75	772.1	0																			
ABOVE 35	1.31	549.0	1									3	4	1								
TOTAL	3.19	1391.4	1									4	4	1								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.32	2.5	1																			
1 TO 2	0.31	1.4	0																			
2 TO 5	0.32	0.7	0																			
5 TO 10	0.92	7.0	0											7	1							
10 TO 15	0.03	11.3	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	3.	0																			
TOTAL	6.11	29.7	1											7	1							

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.32	2.5	1																			
1 TO 2	0.31	1.4	0																			
2 TO 5	0.32	0.7	0																			
5 TO 10	0.92	7.0	0											7	1							
10 TO 15	0.03	11.3	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	1.75	772.1	0																			
ABOVE 35	1.31	549.0	1									3	4	1								
TOTAL	6.33	1421.1	1									4	12	1	1							

TABLE D14b
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 CHARLESTON AFB/AFMC, SOUTH CAROLINA
 FOR THE
 MONTH OF AUGUST
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.15	53.3	0																			
20 TO 25	0.17	64.0	0											2	6	1						
25 TO 30	0.17	64.0	0																			
30 TO 35	0.17	70.2	1																			
ABOVE 35	0.72	376.0	2											1	1							
TOTAL	0.37	409.0	12											3	8	1						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	2.1	3																			
1 TO 2	0.13	22.5	17																			
2 TO 5	0.35	13.0	3											2	6	5	6					
5 TO 10	0.37	22.5	3											1	1	1	1					
10 TO 15	0.15	31.4	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.37	91.5	23											3	6	6	6	6				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	2.1	3																			
1 TO 2	0.13	22.5	17																			
2 TO 5	0.35	13.0	3																			
5 TO 10	0.37	22.5	3											1	1	1	1					
10 TO 15	0.15	31.4	0																			
15 TO 20	0.15	53.3	0																			
20 TO 25	0.17	64.0	0											2	6	1						
25 TO 30	0.17	64.0	0																			
30 TO 35	0.17	70.2	1																			
ABOVE 35	0.72	376.0	2											1	1							
TOTAL	0.73	4109.4	35											3	9	14	5	6				

TABLE DISA
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
MCQUIRE AFB, NEW JERSEY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																				
1 TO 2	0	0	0																				
2 TO 5	0	0	0																				
5 TO 10	0	0	0																				
10 TO 15	0	0	0																				
15 TO 20	0.40	140.0	30								2	2	3	6	8	6	5	5	2				
20 TO 25	0.32	128.0	0																				
25 TO 30	0.30	127.5	0																				
30 TO 35	0.42	2700.1	66								1	3	20	35	6	1							
ABOVE 35	15.55	6700.0	20										6	10	4								
TOTAL	22.90	9995.0	133								2	3	6	32	61	16	6	5	2				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	17.1	22																				
1 TO 2	0.60	90.0	33																				
2 TO 5	0.19	43.9	20																				
5 TO 10	0.20	70.0	17																				
10 TO 15	0.32	109.5	5																				
15 TO 20	0	0	0																				
20 TO 25	0	0	0																				
25 TO 30	0	0	0																				
30 TO 35	0	0	0																				
ABOVE 35	0	0	0																				
TOTAL	1.51	346.1	97								2	1	1	9	21	32	25	5	1				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	17.1	22																				
1 TO 2	0.60	90.0	33																				
2 TO 5	0.19	43.9	20																				
5 TO 10	0.20	70.0	17																				
10 TO 15	0.32	109.5	5																				
15 TO 20	0	0	0																				
20 TO 25	0.32	128.0	0																				
25 TO 30	0.30	127.5	0																				
30 TO 35	0.42	2700.1	66																				
ABOVE 35	15.55	6700.0	20																				
TOTAL	24.49	10301.7	230								2	3	4	19	53	93	41	11	6	2			

TABLE DISB
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
MCQUIRE AFB, NEW JERSEY
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																				
1 TO 2	0	0	0																				
2 TO 5	0	0	0																				
5 TO 10	0	0	0																				
10 TO 15	0	0	0																				
15 TO 20	0.40	140.0	30																				
20 TO 25	0.32	128.0	0																				
25 TO 30	0.30	127.5	0																				
30 TO 35	0.42	2700.1	66																				
ABOVE 35	15.55	6700.0	20																				
TOTAL	22.90	9995.0	133								2	3	6	32	61	16	6	5	2				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	17.1	22																				
1 TO 2	0.60	90.0	33																				
2 TO 5	0.19	43.9	20																				
5 TO 10	0.20	70.0	17																				
10 TO 15	0.32	109.5	5																				
15 TO 20	0	0	0																				
20 TO 25	0	0	0																				
25 TO 30	0	0	0																				
30 TO 35	0	0	0																				
ABOVE 35	0	0	0																				
TOTAL	1.51	346.1	97								2	1	1	9	21	32	25	5	1				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	17.1	22																				
1 TO 2	0.60	90.0	33																				
2 TO 5	0.19	43.9	20																				
5 TO 10	0.20	70.0	17																				
10 TO 15	0.32	109.5	5																				
15 TO 20	0.40	140.0	30																				
20 TO 25	0.32	128.0	0																				
25 TO 30	0.30	127.5	0																				
30 TO 35	0.42	2700.1	66																				
ABOVE 35	15.55	6700.0	20																				
TOTAL	24.49	10301.7	230								2	3	4	19	53	93	41	11	6	2			

TABLE DISa
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
FLAMINGO AFB, ALASKA
AND
MCQUIRE AFB, NEW JERSEY
FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.12	42.5	39																			
20 TO 25	0.39	36.0	0																			
25 TO 30	0.09	30.3	0																			
30 TO 35	2.92	1248.0	52																			
ABOVE 35	4.49	1099.7	24																			
TOTAL	7.71	3269.0	115																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.7	13																			
1 TO 2	0.14	23.0	17																			
2 TO 5	0.24	13.6	11																			
5 TO 10	0.07	22.2	17																			
10 TO 15	0.10	32.0	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.40	96.1	50																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.04	6.7	13																			
1 TO 2	0.14	23.0	17																			
2 TO 5	0.34	13.6	11																			
5 TO 10	0.17	22.2	17																			
10 TO 15	0.10	32.0	0																			
15 TO 20	0.12	42.5	39																			
20 TO 25	0.09	36.0	0																			
25 TO 30	0.09	30.3	0																			
30 TO 35	2.92	1248.0	52																			
ABOVE 35	4.49	1099.7	24																			
TOTAL	0.11	3261.1	173																			

TABLE DISb
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
FLAMINGO AFB, ALASKA
AND
MCQUIRE AFB, NEW JERSEY
FOR THE
MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.20	135.5	0																			
25 TO 30	0.22	89.5	0																			
30 TO 35	0.21	89.1	0																			
30 TO 35	3.50	1537.5	14																			
ABOVE 35	11.36	4869.3	4																			
TOTAL	15.27	6690.6	18																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	13.4	9																			
1 TO 2	0.46	72.0	16																			
2 TO 5	0.14	33.3	9																			
5 TO 10	0.21	56.0	0																			
10 TO 15	0.22	76.7	5																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.11	251.3	39																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	13.4	9																			
1 TO 2	0.46	72.0	16																			
2 TO 5	0.14	33.3	9																			
5 TO 10	0.21	56.0	0																			
10 TO 15	0.22	76.7	5																			
15 TO 20	0.20	135.5	0																			
20 TO 25	0.22	89.5	0																			
25 TO 30	0.21	89.1	0																			
30 TO 35	3.50	1537.5	14																			
ABOVE 35	11.06	4869.3	4																			
TOTAL	16.30	6940.6	57																			

TABLE D16a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
LAWRENCE G. HANSCOM FIELD, MASS.

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.49	176.0	1																			
20 TO 25	0.37	147.1	0																			
25 TO 30	1.37	483.0	0																			
30 TO 35	10.00	4532.0	63																			
ABOVE 35	10.97	4015.0	22																			
TOTAL	25.02	10131.0	86																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	12.0	4																			
1 TO 2	0.21	36.0	17																			
2 TO 5	0.13	32.0	47																			
5 TO 10	0.23	69.0	41																			
10 TO 15	0.23	81.1	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.90	231.0	117																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	12.0	4																			
1 TO 2	0.21	36.0	17																			
2 TO 5	0.13	32.0	47																			
5 TO 10	0.23	69.0	41																			
10 TO 15	0.23	81.1	0																			
15 TO 20	0.49	176.0	1																			
20 TO 25	0.37	147.1	0																			
25 TO 30	1.37	483.0	0																			
30 TO 35	10.00	4532.0	63																			
ABOVE 35	1.97	4015.0	22																			
TOTAL	24.77	13368.0	203																			

TABLE D16b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
LAWRENCE G. HANSCOM FIELD, MASS.
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.49	176.0	1																			
20 TO 25	0.37	147.1	0																			
25 TO 30	1.37	483.0	0																			
30 TO 35	10.00	4532.0	63																			
ABOVE 35	10.97	4015.0	22																			
TOTAL	24.02	10131.0	86																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	12.0	4																			
1 TO 2	0.21	36.0	17																			
2 TO 5	0.13	32.0	47																			
5 TO 10	0.23	69.0	41																			
10 TO 15	0.23	81.1	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.90	231.0	117																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	12.0	4																			
1 TO 2	0.21	36.0	17																			
2 TO 5	0.13	32.0	47																			
5 TO 10	0.23	69.0	41																			
10 TO 15	0.23	81.1	0																			
15 TO 20	0.49	176.0	1																			
20 TO 25	0.37	147.1	0																			
25 TO 30	1.37	483.0	0																			
30 TO 35	10.00	4532.0	63																			
ABOVE 35	10.97	4015.0	22																			
TOTAL	24.77	13368.0	203																			

TABLE D14
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
LAURENCE G. HANSCOM FIELD, MASS.
FOR THE
MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.49	176.5	1																			
20 TO 25	0.37	147.1	0																			
25 TO 30	1.07	443.9	0																			
30 TO 35	10.90	4382.0	63									1	16	41	5							
ABOVE 35	10.97	4815.5	22										5	17								
TOTAL	23.02	10133.0	86									1	21	59	5							

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	12.0	4																			
1 TO 2	0.21	36.5	17																			
2 TO 5	0.13	32.0	47																			
5 TO 10	0.23	69.9	41																			
10 TO 15	0.25	81.1	8																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.90	231.4	117									1	1	1	1	12	16	51	27	7		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	12.0	4																			
1 TO 2	0.21	36.5	17																			
2 TO 5	0.13	32.0	47																			
5 TO 10	0.23	69.9	41																			
10 TO 15	0.25	81.1	8																			
15 TO 20	0.49	176.5	1																			
20 TO 25	0.37	147.1	0																			
25 TO 30	1.07	443.9	0																			
30 TO 35	10.90	4382.0	63																			
ABOVE 35	10.97	4815.5	22																			
TOTAL	24.72	10366.3	203									1	1	1	1	13	37	110	32	7		

TABLE D17
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
YOKOTA AB, JAPAN

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	2.71	982.4	30																			
20 TO 25	3.00	1491.0	49																			
25 TO 30	9.27	3964.4	10																			
30 TO 35	92.54	39943.4	101																			
ABOVE 35	136.91	60683.5	854																			
TOTAL	244.84	106961.7	1132																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	2.85	134.5	160																			
1 TO 2	1.62	268.2	270																			
2 TO 5	3.69	776.3	639																			
5 TO 10	2.76	811.8	215																			
10 TO 15	2.48	833.9	49																			
15 TO 20	0.12	44.3	0																			
20 TO 25	0.45	109.0	0																			
25 TO 30	2.50	1073.1	11																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	14.48	4131.0	1332																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.85	134.5	160																			
1 TO 2	1.62	268.2	270																			
2 TO 5	3.69	776.3	639																			
5 TO 10	2.76	811.8	215																			
10 TO 15	2.48	833.9	49																			
15 TO 20	2.83	1026.7	30																			
20 TO 25	4.25	1679.9	49																			
25 TO 30	11.77	5017.3	21																			
30 TO 35	92.54	39943.4	101																			
ABOVE 35	136.91	60683.5	854																			
TOTAL	259.32	111982.7	2664																			

TABLE D17
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
YOKOTA AB, JAPAN
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.19	67.9	2																			
20 TO 25	3.23	91.6	1																			
25 TO 30	3.45	106.5	0																			
30 TO 35	5.66	2329.7	19																			
ABOVE 35	7.76	3453.6	1																			
TOTAL	14.20	6260.3	23																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	6.37	11.9	3																			
1 TO 2	8.09	11.0	0																			
2 TO 5	8.31	64.7	66																			
5 TO 10	0.16	67.6	9																			
10 TO 15	0.12	42.3	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	6.76	182.0	89																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	6.37	11.9	3																			
1 TO 2	8.09	11.0	0																			
2 TO 5	8.31	64.7	66																			
5 TO 10	0.16	67.6	9																			
10 TO 15	0.12	42.3	0																			
15 TO 20	0.19	67.9	2																			
20 TO 25	3.23	91.6	1																			
25 TO 30	3.45	106.5	0																			
30 TO 35	5.66	2329.7	19																			
ABOVE 35	7.76	3453.6	1																			
TOTAL	19.04	6442.7	100																			

TABLE D173
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	1.04	381.7	9								1	3	5										
20 TO 25	1.60	626.3	29									6	8	3	2								
25 TO 30	2.51	1076.2	4								1	1	2										
30 TO 35	30.22	13224.0	99								1	5	6	25	51	10	1						
ABOVE 35	75.51	33553.4	655								1	3	1	21	47	197	298	60	21	7			
TOTAL	111.91	48895.6	796								1	3	1	26	55	232	374	73	24	7			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.31	49.7	45																					
1 TO 2	1.72	119.3	123								1	8	4	7	2	0	4	9	1	1				
2 TO 5	1.94	392.2	330									3	16	29	34	24	15	1	1	1				
5 TO 10	1.28	347.3	159								2	3	10	20	92	115	52	10	10	3	3	1	1	
10 TO 15	1.03	341.0	31									1	9	42	60	22	4	1						
15 TO 20	0.	0.	0										1	10	12	0	1							
20 TO 25	0.	0.	0											1	1	2								
25 TO 30	0.	0.	0																					
30 TO 35	0.	0.	0																					
ABOVE 35	0.	0.	0																					
TOTAL	5.29	1269.4	696								2	1	3	22	57	100	243	114	42	21	5	6	1	1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.31	49.7	45																					
1 TO 2	1.72	119.3	123								1	8	4	7	2	0	4	9	1	1				
2 TO 5	1.94	392.2	330									3	16	29	34	24	15	1	1	1				
5 TO 10	1.28	347.3	159								2	3	10	20	92	115	52	10	10	3	3	1	1	
10 TO 15	1.03	341.0	31									1	9	42	60	22	4	1						
15 TO 20	0.	0.	0											1	10	12	0	1						
20 TO 25	0.	0.	0											1	1	2								
25 TO 30	0.	0.	0																					
30 TO 35	0.	0.	0																					
ABOVE 35	0.	0.	0																					
TOTAL	116.20	50125.0	1492								3	4	4	40	112	412	617	107	66	20	5	6	1	1

TABLE D174
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	1.20	443.2	25								1		4	0	0	4							
20 TO 25	1.77	607.9	19									1	1	4	10	2	1						
25 TO 30	6.09	2597.0	6											5	1								
30 TO 35	52.00	22740.6	53											1	22	26	4						
ABOVE 35	44.70	19623.1	196											6	17	100	47	9	3				
TOTAL	136.72	46126.8	293								1		7	23	147	92	19	4					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																						
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35			
BELOW 1	0.41	65.0	60																							
1 TO 2	1.75	125.3	144									1	1	7	24	27	34	33	14	1	1	1				
2 TO 5	1.34	293.0	234									1	2	4	4	30	60	90	23	11	6	2	1			
5 TO 10	1.21	359.2	42										1	1	7	0	19	3	1	1	1					
10 TO 15	1.19	402.9	14												0	10										
15 TO 20	0.12	44.3	0																							
20 TO 25	0.63	109.0	0																							
25 TO 30	2.50	1373.1	11												5	6										
30 TO 35	0.	0.	0																							
ABOVE 35	0.	0.	0																							
TOTAL	7.46	2550.6	537												1	3	6	15	77	120	100	71	33	14	7	2

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																							
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35				
BELOW 1	0.41	65.0	60																								
1 TO 2	1.75	125.3	144										1	1	7	24	27	34	33	14	1	1	1				
2 TO 5	1.34	293.0	234										1	2	4	4	30	60	90	23	11	6	2	1			
5 TO 10	1.21	359.2	42											1	1	7	0	19	3	1	1	1					
10 TO 15	1.19	402.9	14													0	10										
15 TO 20	1.40	507.5	25												1	4	0	4									
20 TO 25	2.22	806.9	19												1	1	4	10	2	1							
25 TO 30	6.09	2570.1	17													1	7										
30 TO 35	52.00	22740.6	53													1	22	26	4								
ABOVE 35	44.70	19623.1	190													6	17	100	47	9	3						
TOTAL	114.60	46677.4	830													1	4	4	22	100	275	272	90	37	14	7	2

TABLE D676
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMEBROF AFB, ALASKA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 AUTUMN SEASON
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	..																	
1 TO 2	..	..	..																	
2 TO 5	..	..	..																	
5 TO 10	..	..	..																	
10 TO 15	..	..	..																	
15 TO 20	..19	69.6	2											1	1								
20 TO 25	..19	75.2	..																				
25 TO 30	..22	90.7	..																				
30 TO 35	3.70	1047.1	10																				
ABOVE 35	0.94	3010.0	8										2	6	2								
TOTAL	12.02	5090.3	27										4	14	2								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..5	9.3	4																			
1 TO 2	..5	8.1	3																			
2 TO 5	..10	26.6	2																			
5 TO 10	..12	37.7	5																			
10 TO 15	..14	47.7	..																			
15 TO 20	..	..	..																
20 TO 25	..	..	..																
25 TO 30	..	..	..																
30 TO 35	..	..	..																
ABOVE 35	..	..	..																
TOTAL	..47	129.3	14																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..25	9.8	4																			
1 TO 2	..25	8.1	3																			
2 TO 5	..10	26.6	2																			
5 TO 10	..12	37.7	5																			
10 TO 15	..14	47.7	..																			
15 TO 20	..19	69.6	2																			
20 TO 25	..19	75.2	..																			
25 TO 30	..22	90.7	..																			
30 TO 35	3.70	1047.1	10																			
ABOVE 35	0.94	3010.0	8																			
TOTAL	13.90	5027.0	34																			

TABLE D677
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMEBROF AFB, ALASKA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF JANUARY
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	..																
1 TO 2	..	..	..																
2 TO 5	..	..	..																
5 TO 10	..	..	..																
10 TO 15	..	..	..																
15 TO 20	..25	19.6	1																			
20 TO 25	..27	29.6	1																			
25 TO 30	..16	62.8	3																			
30 TO 35	6.72	1932.3	17																			
ABOVE 35	..	..	..																
TOTAL	5.1	2444.3	19																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..2	6.2	..																			
1 TO 2	..21	7.3	3																			
2 TO 5	0.20	9.1	4																			
5 TO 10	..30	11.7	..																			
10 TO 15	..25	16.1	..																			
15 TO 20	..	..	..																
20 TO 25	..	..	..																
25 TO 30	..	..	..																
30 TO 35	..	..	..																
ABOVE 35	..	..	..																
TOTAL	3.19	43.3	7																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..2	6.2	0																			
1 TO 2	3.21	2.9	3																			
2 TO 5	0.20	9.1	4																			
5 TO 10	0.20	11.7	4																			
10 TO 15	0.25	16.1	4																			
15 TO 20	..5	19.6	1																			
20 TO 25	6.07	29.6	1																			
25 TO 30	..16	62.8	3																			
30 TO 35	6.72	1932.3	17																			
ABOVE 35	..	..	..																
TOTAL	5.16	2207.6	26																			

TABLE D17
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																			
1 TO 2	0.0	0.0	0																			
2 TO 5	0.0	0.0	0																			
5 TO 10	0.0	0.0	0																			
10 TO 15	0.0	0.0	0																			
15 TO 20	0.13	40.3	1																			
20 TO 25	0.16	62.0	0																			
25 TO 30	0.29	123.7	0																			
30 TO 35	0.93	300.4	2																			
ABOVE 35	7.76	3613.6	1																			
TOTAL	9.27	4236.0	4																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.0	3																			
1 TO 2	0.08	13.2	5																			
2 TO 5	0.20	55.6	61																			
5 TO 10	0.12	35.9	9																			
10 TO 15	0.08	20.2	0																			
15 TO 20	0.0	0.0	0																			
20 TO 25	0.0	0.0	0																			
25 TO 30	0.0	0.0	0																			
30 TO 35	0.0	0.0	0																			
ABOVE 35	0.0	0.0	0																			
TOTAL	0.61	130.7	70																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.0	3																			
1 TO 2	0.08	13.2	5																			
2 TO 5	0.20	55.6	61																			
5 TO 10	0.12	35.9	9																			
10 TO 15	0.08	20.2	0																			
15 TO 20	0.13	40.3	1																			
20 TO 25	0.16	62.0	0																			
25 TO 30	0.29	123.7	0																			
30 TO 35	0.93	300.4	2																			
ABOVE 35	7.76	3613.6	1																			
TOTAL	9.89	4376.7	82																			

TABLE D17
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF MARCH

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																			
1 TO 2	0.0	0.0	0																			
2 TO 5	0.0	0.0	0																			
5 TO 10	0.0	0.0	0																			
10 TO 15	0.0	0.0	0																			
15 TO 20	0.42	150.9	5																			
20 TO 25	0.31	350.8	5																			
25 TO 30	1.33	570.8	0																			
30 TO 35	1.32	4570.6	0																			
ABOVE 35	36.28	15476.0	39																			
TOTAL	40.24	21120.1	139																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.20	15.0	14																			
1 TO 2	0.29	45.9	37																			
2 TO 5	1.01	190.5	157																			
5 TO 10	0.40	170.9	85																			
10 TO 15	0.45	182.2	10																			
15 TO 20	0.0	0.0	0																			
20 TO 25	0.0	0.0	0																			
25 TO 30	0.0	0.0	0																			
30 TO 35	0.0	0.0	0																			
ABOVE 35	0.0	0.0	0																			
TOTAL	2.39	552.9	303																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																			
1 TO 2	0.29	45.9	37																			
2 TO 5	1.31	190.5	157																			
5 TO 10	0.40	170.9	85																			
10 TO 15	0.40	182.2	10																			
15 TO 20	0.42	150.9	5																			
20 TO 25	0.31	350.8	5																			
25 TO 30	1.33	570.8	0																			
30 TO 35	1.32	4570.6	0																			
ABOVE 35	36.28	15476.0	39																			
TOTAL	40.64	21672.9	442																			

TABLE D17
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMHORNF AFB, ALASKA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-27	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																				
1 TO 2	0.00	0.0	0																				
2 TO 5	0.00	0.0	0																				
5 TO 10	0.00	0.0	0																				
10 TO 15	0.24	86.5	2																				
15 TO 20	0.20	112.0	12																				
20 TO 25	0.70	296.0	2																				
25 TO 30	12.00	5617.1	4																				
ABOVE 30	14.12	6260.2	10																				
TOTAL	20.25	12374.4	30																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	12.0	4																				
1 TO 2	0.12	19.7	10																				
2 TO 5	0.57	119.1	42																				
5 TO 10	0.20	81.0	5																				
10 TO 15	0.20	82.4	0																				
15 TO 20	0.00	0.0	0																				
20 TO 25	0.00	0.0	0																				
25 TO 30	0.00	0.0	0																				
30 TO 35	0.00	0.0	0																				
ABOVE 35	0.00	0.0	0																				
TOTAL	1.31	311.0	61																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	12.0	4																				
1 TO 2	0.12	19.7	10																				
2 TO 5	0.57	119.1	42																				
5 TO 10	0.20	81.0	5																				
10 TO 15	0.20	82.4	0																				
15 TO 20	0.24	86.5	2																				
20 TO 25	0.20	112.0	12																				
25 TO 30	0.70	296.0	2																				
30 TO 35	12.00	5617.1	4																				
ABOVE 35	14.12	6260.2	10																				
TOTAL	20.56	12605.4	90																				

TABLE D17)
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMHORNF AFB, ALASKA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																				
1 TO 2	0.00	0.0	0																				
2 TO 5	0.00	0.0	0																				
5 TO 10	0.00	0.0	0																				
10 TO 15	0.00	0.0	0																				
15 TO 20	0.43	144.3	2																				
20 TO 25	0.41	159.0	12																				
25 TO 30	0.40	201.4	2																				
30 TO 35	7.00	3006.4	5																				
ABOVE 35	27.12	11019.2	500																				
TOTAL	30.41	15361.1	610																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																				
1 TO 2	0.15	23.1	27																				
2 TO 5	0.31	53.7	70																				
5 TO 10	0.36	86.6	130																				
10 TO 15	0.30	119.0	60																				
15 TO 20	0.37	126.4	21																				
20 TO 25	0.00	0.0	0																				
25 TO 30	0.00	0.0	0																				
30 TO 35	0.00	0.0	0																				
ABOVE 35	0.00	0.0	0																				
TOTAL	1.90	405.6	332																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																				
1 TO 2	0.15	23.1	27																				
2 TO 5	0.31	53.7	70																				
5 TO 10	0.36	86.6	130																				
10 TO 15	0.30	119.0	60																				
15 TO 20	0.37	126.4	21																				
20 TO 25	0.41	159.0	12																				
25 TO 30	0.40	201.4	2																				
30 TO 35	7.00	3006.4	5																				
ABOVE 35	27.12	11019.2	500																				
TOTAL	30.00	15766.7	931																				

TABLE D17
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF JUNE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																				
1 TO 2	0	0	0																				
2 TO 5	0	0	0																				
5 TO 10	0	0	0																				
10 TO 15	0	0	0																				
15 TO 20	0.36	132.3	1												1								
20 TO 25	0.77	307.2	1												1								
25 TO 30	0.53	274.4	2																				
30 TO 35	19.84	8482.4	10																				
ABOVE 35	12.83	5944.9	7																				
TOTAL	34.34	14693.2	32												13	16	2	1					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.21	33.0	64																				
1 TO 2	0.27	45.3	76																				
2 TO 5	0.10	85.5	117																				
5 TO 10	0.48	165.4	9																				
10 TO 15	0.29	98.4	2																				
15 TO 20	0	0	0																				
20 TO 25	0	0	0																				
25 TO 30	0	0	0																				
30 TO 35	0	0	0																				
ABOVE 35	0	0	0																				
TOTAL	1.63	407.7	262							2	2	13	30	63	79	37	23	7	2	1			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.21	33.0	64																				
1 TO 2	0.27	45.3	76																				
2 TO 5	0.30	85.5	117																				
5 TO 10	0.48	165.4	9																				
10 TO 15	0.29	98.4	2																				
15 TO 20	0.36	132.3	1																				
20 TO 25	0.77	307.2	12																				
25 TO 30	0.53	274.4	2																				
30 TO 35	19.84	8482.4	10																				
ABOVE 35	12.83	5944.9	7																				
TOTAL	35.97	15103.0	294							2	2	15	39	73	95	39	24	7	2	1			

TABLE D18
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
ELMENDORF AFB, ALASKA
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																				
1 TO 2	0	0	0																				
2 TO 5	0	0	0																				
5 TO 10	0	0	0																				
10 TO 15	0	0	0																				
15 TO 20	0.43	157.3	18																				
20 TO 25	0.47	187.5	7																				
25 TO 30	4.94	2114.0	3																				
30 TO 35	16.11	6189.7	26																				
ABOVE 35	8.77	3413.9	152																				
TOTAL	28.77	12359.3	204																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.20	11.6	13																				
1 TO 2	0.25	42.4	24																				
2 TO 5	0.42	87.3	51																				
5 TO 10	0.35	96.0	9																				
10 TO 15	0.32	99.7	2																				
15 TO 20	0	0	0																				
20 TO 25	0	0	0																				
25 TO 30	2.41	389.6	3																				
30 TO 35	0	0	0																				
ABOVE 35	0	0	0																				
TOTAL	2.31	729.4	79																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.20	11.6	13																				
1 TO 2	0.25	42.4	24																				
2 TO 5	0.42	87.3	51																				
5 TO 10	0.35	96.0	9																				
10 TO 15	0.30	99.7	2																				
15 TO 20	0.43	157.3	18																				
20 TO 25	0.47	187.5	7																				
25 TO 30	5.05	4904.5	3																				
30 TO 35	16.11	6189.7	26																				
ABOVE 35	8.77	3413.9	152																				
TOTAL	31.3	12284.7	305																				

TABLE D17a
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF AUGUST
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.00	170.0	0								2	2	2									
20 TO 25	0.02	237.7	0																			
25 TO 30	0.02	237.7	1									1										
30 TO 35	10.93	600.5	17									4	0	3								
ABOVE 35	25.11	10190.2	31									13	16	2								
TOTAL	43.66	10676.0	59								2	21	27	5								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.11	19.2	11																			
1 TO 2	0.23	39.5	20																			
2 TO 5	0.94	120.2	60																			
5 TO 10	0.30	117.1	24				1	1	2	3	6	11	11	17	2	1	1	2				
10 TO 15	0.59	204.0	14							1	1	7	5	5	2	1	1	1				
15 TO 20	0.12	64.0	0									7	7									
20 TO 25	0.45	100.0	0																			
25 TO 30	1.59	600.5	11										5	6								
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	6.32	1417.5	170				1	1	3	4	10	42	64	26	7	5	4	1				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	19.2	11																			
1 TO 2	0.23	39.5	20																			
2 TO 5	0.94	120.2	60																			
5 TO 10	0.30	117.1	24																			
10 TO 15	0.59	204.0	14																			
15 TO 20	0.62	217.0	6																			
20 TO 25	0.97	302.2	0																			
25 TO 30	2.21	961.7	12																			
30 TO 35	10.93	600.5	17																			
ABOVE 35	25.11	10190.2	31																			
TOTAL	47.60	12291.0	231				1	1	3	4	20	63	91	31	7	5	4	1				

TABLE D17b
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 ELMENDORF AFB, ALASKA
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF SEPTEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	69.6	2																			
20 TO 25	0.10	75.2	0																			
25 TO 30	0.22	90.7	0																			
30 TO 35	3.70	1647.1	10																			
ABOVE 35	0.94	3016.4	0																			
TOTAL	12.42	5699.0	20																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	0.0	0																			
1 TO 2	0.25	0.0	0																			
2 TO 5	0.12	26.4	2																			
5 TO 10	0.12	37.7	5																			
10 TO 15	0.14	47.7	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.67	129.0	14																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	0.0	0																			
1 TO 2	0.25	0.0	0																			
2 TO 5	0.10	26.4	2																			
5 TO 10	0.12	37.7	5																			
10 TO 15	0.14	47.7	0																			
15 TO 20	0.10	69.6	2																			
20 TO 25	0.10	75.2	0																			
25 TO 30	0.22	90.7	0																			
30 TO 35	3.70	1647.1	10																			
ABOVE 35	0.94	3016.4	0																			
TOTAL	13.39	5027.0	24																			

TABLE D10
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DUWEL AFB, DELAWARE
AND
CHARLESTON AFB/RAAF, SOUTH CAROLINA

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																				
1 TO 2	0	0	0																				
2 TO 5	0	0	0																				
5 TO 10	0	0	0																				
10 TO 15	0	0	0																				
15 TO 20	1.05	305.2	3																				
20 TO 25	2.30	506.2	53																				
25 TO 30	3.30	1345.7	17																				
30 TO 35	4.05	1727.3	9																				
ABOVE 35	6.20	2671.6	6																				
TOTAL	16.61	7071.0	98																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.76	107.5	105																				
1 TO 2	1.20	193.9	105																				
2 TO 5	2.30	506.2	243																				
5 TO 10	1.10	357.0	65																				
10 TO 15	1.32	343.7	24																				
15 TO 20	0.00	20.1	3																				
20 TO 25	1.43	529.9	61																				
25 TO 30	0.70	332.7	12																				
30 TO 35	1.97	636.0	22																				
ABOVE 35	0.22	96.9	1																				
TOTAL	11.92	3302.6	755																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.76	137.5	105																				
1 TO 2	1.20	193.9	105																				
2 TO 5	2.30	506.2	243																				
5 TO 10	1.10	357.0	65																				
10 TO 15	1.32	343.7	24																				
15 TO 20	1.14	413.3	3																				
20 TO 25	3.60	1420.0	114																				
25 TO 30	3.70	1646.5	29																				
30 TO 35	5.90	2566.1	31																				
ABOVE 35	6.91	2732.5	7																				
TOTAL	17.53	10331.3	803																				

TABLE D10B
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DUWEL AFB, DELAWARE
AND
CHARLESTON AFB/RAAF, SOUTH CAROLINA
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																				
1 TO 2	0	0	0																				
2 TO 5	0	0	0																				
5 TO 10	0	0	0																				
10 TO 15	0	0	0																				
15 TO 20	0.40	172.6	3																				
20 TO 25	0.86	332.3	65																				
25 TO 30	1.30	595.4	14																				
30 TO 35	1.50	650.3	9																				
ABOVE 35	5.75	2425.7	1																				
TOTAL	9.97	4179.1	72																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	41.3	90																				
1 TO 2	0.72	112.1	91																				
2 TO 5	1.52	306.4	223																				
5 TO 10	0.52	157.3	49																				
10 TO 15	0.50	163.7	3																				
15 TO 20	0.00	20.1	3																				
20 TO 25	1.43	529.9	61																				
25 TO 30	0.70	332.7	12																				
30 TO 35	1.97	636.0	22																				
ABOVE 35	0.22	96.9	1																				
TOTAL	7.90	2575.3	557																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	41.3	90																				
1 TO 2	0.72	112.1	91																				
2 TO 5	1.52	306.4	223																				
5 TO 10	0.52	157.3	49																				
10 TO 15	0.50	163.7	3																				
15 TO 20	0.56	200.3	3																				
20 TO 25	2.29	665.2	106																				
25 TO 30	2.30	696.1	26																				
30 TO 35	3.47	1407.1	31																				
ABOVE 35	5.90	2522.6	2																				
TOTAL	17.95	6756.6	620																				

TABLE D10c
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 DOVER AFB, DELAWARE
 AND
 CHARLESTON AFB/AFB, SOUTH CAROLINA
 FOR THE
 SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	3.	0																			
1 TO 2	..	3.	0																			
2 TO 5	..	3.	0																			
5 TO 10	..	3.	0																			
10 TO 15	..	3.	0																			
15 TO 20	0.36	120.3	0																			
20 TO 25	1.17	476.3	0																			
25 TO 30	2.95	617.0	1																			
30 TO 35	1.70	700.4	0																			
ABOVE 35	0.25	22.4	0																			
TOTAL	6.29	1829.4	1																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	50.0	65																			
1 TO 2	1.30	64.6	73																			
2 TO 5	0.46	112.2	16																			
5 TO 10	0.60	160.1	3																			
10 TO 15	0.37	124.0	10																			
15 TO 20	..	..	..																
20 TO 25	..	..	..																
25 TO 30	..	..	..																
30 TO 35	..	..	..																
ABOVE 35	..	..	..																
TOTAL	2.76	695.7	167																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	50.0	65																			
1 TO 2	0.30	64.6	73																			
2 TO 5	0.46	112.2	16																			
5 TO 10	0.60	160.1	3																			
10 TO 15	0.37	124.0	10																			
15 TO 20	0.36	120.3	0																			
20 TO 25	1.17	476.3	0																			
25 TO 30	2.95	617.0	1																			
30 TO 35	1.70	700.4	0																			
ABOVE 35	0.25	22.4	0																			
TOTAL	6.29	2325.2	168																			

TABLE D10d
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 DOVER AFB, DELAWARE
 AND
 CHARLESTON AFB/AFB, SOUTH CAROLINA
 FOR THE
 SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	3.	0																			
1 TO 2	..	3.	0																			
2 TO 5	..	3.	0																			
5 TO 10	..	3.	0																			
10 TO 15	..	3.	0																			
15 TO 20	0.23	60.5	0																			
20 TO 25	0.22	60.3	0																			
25 TO 30	0.76	333.4	2																			
30 TO 35	0.65	287.6	0																			
ABOVE 35	0.40	225.6	5																			
TOTAL	2.35	1322.3	15																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	12.2	5																			
1 TO 2	0.15	17.1	1																			
2 TO 5	0.37	60.6	1																			
5 TO 10	0.19	60.4	13																			
10 TO 15	0.15	52.2	11																			
15 TO 20	..	..	..																
20 TO 25	..	..	..																
25 TO 30	..	..	..																
30 TO 35	..	..	..																
ABOVE 35	..	..	..																
TOTAL	1.69	229.5	31																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	12.2	5																			
1 TO 2	0.10	17.1	1																			
2 TO 5	0.17	60.6	1																			
5 TO 10	0.19	60.4	13																			
10 TO 15	0.15	52.2	11																			
15 TO 20	0.23	60.5	0																			
20 TO 25	0.22	60.3	0																			
25 TO 30	0.76	333.4	2																			
30 TO 35	0.65	287.6	0																			
ABOVE 35	0.40	225.6	5																			
TOTAL	3.23	1251.8	66																			

TABLE D16
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 DRYER AFB, DELAWARE
 AND
 CHARLESTON AFB/MARL, SOUTH CAROLINA
 FOR THE
 MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	..																
1 TO 2	..	..	..																
2 TO 5	..	..	..																
5 TO 10	..	..	..																
10 TO 15	..	..	..																
15 TO 20	0.29	106.5	0																			
20 TO 25	0.43	160.7	1																			
25 TO 30	1.10	405.1	4																			
30 TO 35	1.27	549.6	9																			
ABOVE 35	5.75	2425.7	1																			
TOTAL	8.91	3743.6	15																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	22.5	91																			
1 TO 2	0.25	42.0	17																			
2 TO 5	0.63	144.5	120																			
5 TO 10	0.29	96.4	25																			
10 TO 15	0.29	96.7	2																			
15 TO 20	..	..	..																
20 TO 25	..	..	..																
25 TO 30	..	..	..																
30 TO 35	..	..	..																
ABOVE 35	..	..	..																
TOTAL	1.62	392.9	223																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	22.5	91																			
1 TO 2	0.25	42.0	17																			
2 TO 5	0.63	144.5	120																			
5 TO 10	0.29	96.4	25																			
10 TO 15	0.29	96.7	2																			
15 TO 20	0.29	106.5	0																			
20 TO 25	0.43	160.7	1																			
25 TO 30	1.10	405.1	4																			
30 TO 35	1.27	549.6	9																			
ABOVE 35	5.75	2425.7	1																			
TOTAL	10.53	4136.5	230																			

TABLE D17
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 DRYER AFB, DELAWARE
 AND
 CHARLESTON AFB/MARL, SOUTH CAROLINA
 FOR THE
 MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	..																
1 TO 2	..	..	..																
2 TO 5	..	..	..																
5 TO 10	..	..	..																
10 TO 15	..	..	..																
15 TO 20	0.19	67.0	1																			
20 TO 25	0.43	160.6	66																			
25 TO 30	0.23	102.5	10																			
30 TO 35	0.22	100.7	9																			
ABOVE 35	..	..	..																
TOTAL	1.26	433.5	97																			

STORM CONDITION

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	18.0	66																			
1 TO 2	0.44	71.3	76																			
2 TO 5	0.69	159.9	95																			
5 TO 10	0.22	66.0	24																			
10 TO 15	0.22	71.1	1																			
15 TO 20	0.19	67.0	0																			
20 TO 25	1.63	529.9	61																			
25 TO 30	0.70	302.7	12																			
30 TO 35	1.97	834.0	22																			
ABOVE 35	6.22	96.9	1																			
TOTAL	6.36	2102.6	334																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	18.0	66																			
1 TO 2	0.64	71.3	76																			
2 TO 5	0.69	159.9	95																			
5 TO 10	0.22	66.0	24																			
10 TO 15	0.22	71.1	1																			
15 TO 20	0.19	67.0	0																			
20 TO 25	1.64	696.5	100																			
25 TO 30	0.93	431.0	22																			
30 TO 35	2.20	937.6	22																			
ABOVE 35	6.22	96.9	1																			
TOTAL	7.62	2617.9	391																			

TABLE D80
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOVER AFB, DELAWARE
AND
CHARLESTON AFB/MUNI, SOUTH CAROLINA
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	0																			
1 TO 2	0.	3.	0																			
2 TO 5	0.	3.	0																			
5 TO 10	0.	3.	0																			
10 TO 15	..	..	0																			
15 TO 20	0.15	96.2	0																			
20 TO 25	0.96	306.2	0																			
25 TO 30	0.90	39.0	0																			
30 TO 35	0.67	296.7	0																			
ABOVE 35	..	..	0																			
TOTAL	1.66	773.0	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	20.0	0																			
1 TO 2	0.11	16.0	1																			
2 TO 5	0.10	66.3	12																			
5 TO 10	0.15	69.3	3																			
10 TO 15	0.15	69.4	10																			
15 TO 20	0.	0.	0																			
20 TO 25	..	..	0																			
25 TO 30	..	..	0																			
30 TO 35	..	..	0																			
ABOVE 35	..	..	0																			
TOTAL	0.76	182.1	34																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	70.6	0																			
1 TO 2	0.11	16.0	1																			
2 TO 5	0.10	66.3	12																			
5 TO 10	0.15	69.3	3																			
10 TO 15	0.15	69.4	10																			
15 TO 20	0.15	66.2	0																			
20 TO 25	0.96	306.2	0																			
25 TO 30	0.90	39.0	0																			
30 TO 35	0.67	296.7	0																			
ABOVE 35	..	..	0																			
TOTAL	2.63	955.1	34																			

TABLE D81
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOVER AFB, DELAWARE
AND
CHARLESTON AFB/MUNI, SOUTH CAROLINA
FOR THE
MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	0																			
1 TO 2	..	..	0																			
2 TO 5	..	..	0																			
5 TO 10	..	..	0																			
10 TO 15	..	..	0																			
15 TO 20	0.19	70.1	0																			
20 TO 25	0.22	84.1	0																			
25 TO 30	0.07	361.2	1																			
30 TO 35	1.12	496.7	0																			
ABOVE 35	0.05	22.4	0																			
TOTAL	2.45	1054.5	1																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.19	27.4	57																			
1 TO 2	0.20	67.0	72																			
2 TO 5	0.27	63.9	4																			
5 TO 10	0.33	95.2	0																			
10 TO 15	0.24	79.4	0																			
15 TO 20	..	..	0																			
20 TO 25	..	..	0																			
25 TO 30	..	..	0																			
30 TO 35	..	..	0																			
ABOVE 35	..	..	0																			
TOTAL	1.34	313.6	133																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.19	27.4	57																			
1 TO 2	0.20	67.0	72																			
2 TO 5	0.27	63.9	4																			
5 TO 10	0.33	95.2	0																			
10 TO 15	0.24	79.4	0																			
15 TO 20	0.19	70.1	0																			
20 TO 25	0.22	84.1	0																			
25 TO 30	0.07	361.2	1																			
30 TO 35	1.12	496.7	0																			
ABOVE 35	0.05	22.4	0																			
TOTAL	2.75	1373.1	134																			

TABLE DIB
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOVER AFB, DELAWARE
AND
CHARLESTON AFB/AFMC, SOUTH CAROLINA
FOR THE
MONTH OF JUNE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.22	82.5	0																				
20 TO 25	0.20	80.0	0																				
25 TO 30	0.71	313.7	2																				
30 TO 35	0.37	29.1	3																				
ABOVE 35	0.40	225.6	5																				
TOTAL	1.67	726.0	15																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	9.2	2																				
1 TO 2	0.17	16.3	1																				
2 TO 5	0.27	55.3	0																				
5 TO 10	0.17	55.3	13																				
10 TO 15	0.13	43.7	11																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.73	183.0	27																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	9.2	2																				
1 TO 2	0.17	16.3	1																				
2 TO 5	0.27	55.3	0																				
5 TO 10	0.17	55.3	13																				
10 TO 15	0.13	43.7	11																				
15 TO 20	0.22	82.5	0																				
20 TO 25	0.20	80.0	0																				
25 TO 30	0.71	313.7	2																				
30 TO 35	0.37	29.1	3																				
ABOVE 35	0.40	225.6	5																				
TOTAL	2.60	908.0	42																				

TABLE DIB
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOVER AFB, DELAWARE
AND
CHARLESTON AFB/AFMC, SOUTH CAROLINA
FOR THE
MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.22	82.5	0																				
20 TO 25	0.20	80.0	0																				
25 TO 30	0.32	92.3	0																				
30 TO 35	0.50	250.5	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.67	293.5	0																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.31	1.0	3																				
1 TO 2	0.00	0.0	0																				
2 TO 5	0.11	34.3	1																				
5 TO 10	0.01	4.0	0																				
10 TO 15	0.02	6.5	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.16	49.5	4																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.31	1.0	3																				
1 TO 2	0.30	0.0	0																				
2 TO 5	0.11	34.3	1																				
5 TO 10	0.01	4.0	0																				
10 TO 15	0.02	6.5	0																				
15 TO 20	0.22	82.5	0																				
20 TO 25	0.20	80.0	0																				
25 TO 30	0.32	92.3	0																				
30 TO 35	0.50	250.5	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.83	343.0	4																				

TABLE D19a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOVER AFB, DELAWARE
AND
CHATEAUBOURG AB, FRANCE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.57	212.6	0																			
20 TO 25	0.79	311.0	0																			
25 TO 30	0.84	353.1	0																			
30 TO 35	3.56	1577.0	1																			
ABOVE 35	33.37	15196.1	35																			
TOTAL	39.13	17691.6	36																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.24	34.1	40																			
1 TO 2	0.36	55.2	8																			
2 TO 5	0.57	134.1	18																			
5 TO 10	0.35	105.4	6																			
10 TO 15	0.46	152.7	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.99	479.5	72																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.24	34.1	40																			
1 TO 2	0.36	55.2	8																			
2 TO 5	0.57	134.1	18																			
5 TO 10	0.35	105.4	6																			
10 TO 15	0.46	152.7	0																			
15 TO 20	0.57	212.6	0																			
20 TO 25	0.79	311.0	0																			
25 TO 30	0.84	353.1	0																			
30 TO 35	3.56	1577.0	1																			
ABOVE 35	33.37	15196.1	35																			
TOTAL	41.12	18130.9	100																			

TABLE D19b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOVER AFB, DELAWARE
AND
CHATEAUBOURG AB, FRANCE
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.57	212.6	0																			
20 TO 25	0.79	311.0	0																			
25 TO 30	0.84	353.1	0																			
30 TO 35	3.56	1577.0	1																			
ABOVE 35	33.37	15196.1	35																			
TOTAL	39.13	17691.6	36																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.24	34.1	40																			
1 TO 2	0.36	55.2	8																			
2 TO 5	0.57	134.1	18																			
5 TO 10	0.35	105.4	6																			
10 TO 15	0.46	152.7	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.99	479.5	72																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.24	34.1	40																			
1 TO 2	0.36	55.2	8																			
2 TO 5	0.57	134.1	18																			
5 TO 10	0.35	105.4	6																			
10 TO 15	0.46	152.7	0																			
15 TO 20	0.57	212.6	0																			
20 TO 25	0.79	311.0	0																			
25 TO 30	0.84	353.1	0																			
30 TO 35	3.56	1577.0	1																			
ABOVE 35	33.37	15196.1	35																			
TOTAL	41.12	18130.9	100																			

TABLE D19c
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 DOVER AFB, DELAWARE
 AND
 CHATEAUGUARD AB, FRANCE
 FOR THE
 MONTH OF JANUARY
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.42	147.6	0																			
20 TO 25	0.62	246.5	0																			
25 TO 30	0.62	203.0	0																			
30 TO 35	1.79	796.1	1																			
ABOVE 35	25.95	11924.9	15																			
TOTAL	26.38	13370.1	16																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	27.1	34																			
1 TO 2	0.24	35.0	0																			
2 TO 5	0.44	90.7	11																			
5 TO 10	0.24	79.3	5																			
10 TO 15	0.34	110.1	3																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	1.45	342.0	50																			
TOTAL	1.45	342.0	50																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	27.1	34																			
1 TO 2	0.24	35.0	0																			
2 TO 5	0.44	90.7	11																			
5 TO 10	0.24	79.3	5																			
10 TO 15	0.34	110.1	3																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	1.45	342.0	50																			
TOTAL	1.45	342.0	50																			

TABLE D19d
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 DOVER AFB, DELAWARE
 AND
 CHATEAUGUARD AB, FRANCE
 FOR THE
 MONTH OF FEBRUARY
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.17	65.0	0																			
20 TO 25	0.17	65.0	0																			
25 TO 30	0.22	93.2	0																			
30 TO 35	1.77	781.7	20																			
ABOVE 35	7.42	3271.1	20																			
TOTAL	9.75	4273.3	20																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.0	0																			
1 TO 2	0.12	19.4	0																			
2 TO 5	0.16	35.9	7																			
5 TO 10	0.11	35.1	1																			
10 TO 15	0.12	40.5	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.53	137.5	14																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.0	0																			
1 TO 2	0.12	19.4	0																			
2 TO 5	0.16	35.9	7																			
5 TO 10	0.11	35.1	1																			
10 TO 15	0.12	40.5	0																			
15 TO 20	0.17	65.0	0																			
20 TO 25	0.17	65.0	0																			
25 TO 30	0.22	93.2	0																			
30 TO 35	1.77	781.7	20																			
ABOVE 35	7.42	3271.1	20																			
TOTAL	10.29	4610.0	34																			

TABLE D20a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CHARLESTON AIRPORT, SOUTH CAROLINA
AND
TORREJON DE ARDEZ AB, SPAIN

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0																			
1 TO 2	0																			
2 TO 5	0																			
5 TO 10	0																			
10 TO 15	0																			
15 TO 20	0.30	131.0	13				1		2	3	1	3					1	1		1		
20 TO 25	0.42	160.0	0																			
25 TO 30	0.42	170.0	0																			
30 TO 35	0.41	1620.3	34									14	10	1	1							
ABOVE 35	20.00	8990.0	80								6	37	30	0								
TOTAL	32.49	13000.0	127				1		2	9	45	50	7	1	1	1	1		1			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.25	0.0	17				1	1	2	5	3	9	6	0			2	3	1			
2 TO 5	0.40	00.0	35						3	5	5	5	1									
5 TO 10	0.42	110.0	16						3	4	7	12	6	2	1							
10 TO 15	0.55	100.0	10								7	7	1									
15 TO 20	..	..	0								2	7	1								
20 TO 25	..	..	0																		
25 TO 30	..	..	0																		
30 TO 35	..	..	0																		
ABOVE 35	..	..	0																		
TOTAL	1.52	401.0	110				1	1	5	12	10	43	20	12	3	3	1					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.25	0.0	17				1	1	2	5	3	9	6	0			2	3	1			
2 TO 5	0.40	00.0	35						3	4	7	12	6	2	1							
5 TO 10	0.42	110.0	16								7	7	1									
10 TO 15	0.55	100.0	10								7	7	1									
15 TO 20	..	..	0																		
20 TO 25	..	..	0																		
25 TO 30	..	..	0																		
30 TO 35	0.41	1620.3	34								14	10	1	1								
ABOVE 35	20.00	8990.0	80								6	37	30	0								
TOTAL	32.11	13000.0	244				2	1	7	21	63	102	27	13	4	4	1	1				

TABLE D20b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CHARLESTON AIRPORT, SOUTH CAROLINA
AND
TORREJON DE ARDEZ AB, SPAIN
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	..	..	0																			
1 TO 2	..	..	0																			
2 TO 5	..	..	0																			
5 TO 10	..	..	0																			
10 TO 15	..	..	0																			
15 TO 20	0.17	60.0	0																			
20 TO 25	0.19	70.0	0																			
25 TO 30	0.17	70.0	0																			
30 TO 35	0.07	30.0	7								0	3										
ABOVE 35	13.20	5700.0	3								2	1										
TOTAL	15.00	6570.0	10								2	4										

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.20	0.0	5				1	1	2	3	1	3	0	4	7	1	1	1				
2 TO 5	0.20	0.0	7								1	1	3									
5 TO 10	0.10	00.0	1								1	2	4									
10 TO 15	0.17	60.0	1																			
15 TO 20	..	..	0																		
20 TO 25	..	..	0																		
25 TO 30	..	..	0																		
30 TO 35	..	..	0																		
ABOVE 35	..	..	0																		
TOTAL	0.65	160.0	42				1	1	2	5	5	10	4	7	1	1	1					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.20	0.0	5				1	1	2	3	1	3	0	4	7	1	1	1				
2 TO 5	0.20	0.0	7								1	1	3									
5 TO 10	0.10	00.0	1								1	2	4									
10 TO 15	0.17	60.0	1																			
15 TO 20	..	..	0																		
20 TO 25	..	..	0																		
25 TO 30	..	..	0																		
30 TO 35	0.07	30.0	7								0	3										
ABOVE 35	13.20	5700.0	3								2	1										
TOTAL	15.35	6570.0	52				1	1	2	5	9	20	4	7	1	1	1					

TABLE D203
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CHARLESTON AFB/NM, SOUTH CAROLINA
AND
TORREJON DE ARDOZ AB, SPAIN
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	66.6	13				1		2	3	1	3				1	1		1			
20 TO 25	0.25	90.9	0																			
25 TO 30	0.25	103.9	0																			
30 TO 35	7.53	3246.5	27								10	15	1	1								
ABOVE 35	7.60	3247.7	77							6	20	37	6									
TOTAL	16.00	6757.6	117				1		2	9	50	55	7	1	1	1		1				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	4.6	12								2	3	1	2	1	1	2				
1 TO 2	0.02	3.0	12								2	2	2	5	1	1	2				
2 TO 5	0.10	33.6	20							3	3	5	0	6	2	1					
5 TO 10	0.27	72.4	14								3	10	2	1							
10 TO 15	0.37	123.3	9								2	6	1								
15 TO 20	0.	0.	0																		
20 TO 25	0.	0.	0																		
25 TO 30	0.	0.	0																		
30 TO 35	0.	0.	0																		
ABOVE 35	0.	0.	0																		
TOTAL	0.67	237.8	77							3	7	15	27	16	5	2	1				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	4.6	12								2	3	1	2	1	1	2				
1 TO 2	0.02	3.0	12								2	2	2	5	1	1	2				
2 TO 5	0.10	33.6	20							3	3	5	0	6	2	1					
5 TO 10	0.27	72.4	14								3	10	2	1							
10 TO 15	0.37	123.3	9								2	6	1								
15 TO 20	0.	0.	0																		
20 TO 25	0.25	90.9	0																		
25 TO 30	0.25	103.9	0																		
30 TO 35	7.53	3246.5	27								10	15	1	1							
ABOVE 35	7.60	3247.7	77								6	20	37	6							
TOTAL	16.67	6995.4	194				1		9	16	54	62	23	6	3	3		1			

TABLE D204
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CHARLESTON AFB/NM, SOUTH CAROLINA
AND
TORREJON DE ARDOZ AB, SPAIN
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.07	24.1	0																			
20 TO 25	0.00	32.7	0																			
25 TO 30	0.07	25.8	0																			
30 TO 35	0.10	43.0	0																			
ABOVE 35	6.90	3017.4	3										2	1								
TOTAL	7.22	3144.1	3										2	1								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																	
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	22								1	1	2	2	4	4	5	1	1	1	
1 TO 2	0.01	1.0	4										1	1	2						
2 TO 5	0.17	32.3	4										1	3							
5 TO 10	0.07	19.9	0																		
10 TO 15	0.07	24.0	1											1							
15 TO 20	0.	0.	0																		
20 TO 25	0.	0.	0																		
25 TO 30	0.	0.	0																		
30 TO 35	0.	0.	0																		
ABOVE 35	0.	0.	0																		
TOTAL	0.34	98.4	31							1	1	2	3	2	10	4	5	1	1	1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	22																			
1 TO 2	0.01	1.0	4											1	2							
2 TO 5	0.17	32.3	4											1	3							
5 TO 10	0.07	19.9	0																			
10 TO 15	0.07	24.0	1																			
15 TO 20	0.07	24.1	0																			
20 TO 25	0.00	32.7	0																			
25 TO 30	0.07	25.8	0																			
30 TO 35	0.10	43.0	0																			
ABOVE 35	6.90	3017.4	3											2	1							
TOTAL	7.30	3244.7	35							1	1	2	3	2	11	4	5	1	1	1		

TABLE D207
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CHARLESTON APPROXIMATE, SOUTH CAROLINA
AND
TORREJON DE ARDOZ AD, SPAIN
FOR THE
MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.11	39.0	0																			
20 TO 25	0.11	43.0	0																			
25 TO 30	0.10	42.2	0																			
30 TO 35	0.77	337.0	7																			
ABOVE 35	6.30	2731.5	0										4	3								
TOTAL	7.47	3194.5	7										4	3								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.6	7																			
1 TO 2	0.02	2.6	1																			
2 TO 5	0.09	10.7	3																			
5 TO 10	0.09	26.3	3										1	1	1							
10 TO 15	0.10	32.0	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.32	81.1	11										2	1	6							2

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.6	7																			
1 TO 2	0.02	2.6	1																			
2 TO 5	0.09	10.7	3																			
5 TO 10	0.09	26.3	3										1	1	1							
10 TO 15	0.10	32.0	0																			
15 TO 20	0.11	39.0	0																			
20 TO 25	0.11	43.0	0																			
25 TO 30	0.10	42.2	0																			
30 TO 35	0.77	337.0	7																			
ABOVE 35	6.30	2731.5	0										4	3								
TOTAL	7.79	3277.5	10										2	1	9							2

TABLE D207
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CHARLESTON APPROXIMATE, SOUTH CAROLINA
AND
TORREJON DE ARDOZ AD, SPAIN
FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	3.10	66.6	13																			
20 TO 25	3.23	90.8	0																			
25 TO 30	0.25	103.9	0																			
30 TO 35	7.53	3248.5	27																			
ABOVE 35	7.60	3247.7	77																			
TOTAL	15.00	6797.0	117										1	2	9	34	55	7	1	1	1	1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.33	4.6	12																			
1 TO 2	0.02	3.0	12																			
2 TO 5	0.10	33.6	20																			
5 TO 10	0.27	72.4	16																			
10 TO 15	0.37	123.3	9																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.67	237.0	77										3	7	15	27	16	5	2	2		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.33	4.6	12																			
1 TO 2	0.02	3.0	12																			
2 TO 5	0.10	33.6	20																			
5 TO 10	0.27	72.4	16																			
10 TO 15	0.37	123.3	9																			
15 TO 20	0.10	36.6	13																			
20 TO 25	0.23	90.8	0																			
25 TO 30	0.25	103.9	0																			
30 TO 35	7.53	3248.5	27																			
ABOVE 35	7.60	3247.7	77																			
TOTAL	16.67	6995.0	194										1	9	16	34	62	25	6	3	3	1

TABLE DIII
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
MCQUIRE AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
SPRING SEASON

RHEIN MAIN AFB, GERMANY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	2.2	942.0	10																			
20 TO 25	2.76	1075.4	11																			
25 TO 30	2.63	1118.0	24																			
30 TO 35	67.35	29839.3	229																			
ABOVE 35	27.99	12517.2	209																			
TOTAL	102.99	46592.7	543																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.35	56.7	70																			
1 TO 2	0.66	110.4	99																			
2 TO 5	1.00	433.1	150																			
5 TO 10	1.43	414.0	76																			
10 TO 15	1.32	456.9	25																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	5.97	1469.2	470																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.35	56.7	70																			
1 TO 2	0.66	110.4	99																			
2 TO 5	1.00	433.1	150																			
5 TO 10	1.43	414.0	76																			
10 TO 15	1.32	456.9	25																			
15 TO 20	2.25	942.0	10																			
20 TO 25	2.76	1075.4	11																			
25 TO 30	2.63	1118.0	24																			
30 TO 35	67.35	29839.3	229																			
ABOVE 35	27.99	12517.2	209																			
TOTAL	106.99	48061.9	983																			

TABLE DIII
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
MCQUIRE AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	1.37	538.5	5																			
20 TO 25	1.26	499.7	8																			
25 TO 30	0.94	404.8	22																			
30 TO 35	29.64	15402.3	24																			
ABOVE 35	14.30	6813.0	294																			
TOTAL	47.52	21341.0	291																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	24.1	50																			
1 TO 2	0.23	41.7	70																			
2 TO 5	0.22	179.5	131																			
5 TO 10	0.81	159.0	42																			
10 TO 15	0.62	216.4	23																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.24	617.6	333																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	24.1	50																			
1 TO 2	0.23	41.7	70																			
2 TO 5	0.26	179.5	131																			
5 TO 10	0.81	159.0	42																			
10 TO 15	0.62	216.4	23																			
15 TO 20	1.37	538.5	5																			
20 TO 25	1.26	499.7	8																			
25 TO 30	0.94	404.8	22																			
30 TO 35	29.64	15402.3	24																			
ABOVE 35	14.30	6813.0	294																			
TOTAL	49.79	21958.0	634																			

TABLE DR14
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
REQUIRE AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.02	105.2	1																			
20 TO 25	0.05	327.6	2																			
25 TO 30	0.47	197.7	1																			
30 TO 35	10.00	6501.0	169																			
ABOVE 35	0.00	3994.5	42																			
TOTAL	30.62	13259.0	219																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	10.4	0																			
1 TO 2	0.33	55.2	4																			
2 TO 5	0.04	170.5	0																			
5 TO 10	0.29	89.7	7																			
10 TO 15	0.30	99.3	2																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.69	432.0	29																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	10.4	0																			
1 TO 2	0.33	55.2	4																			
2 TO 5	0.04	170.5	0																			
5 TO 10	0.29	89.7	7																			
10 TO 15	0.30	99.3	2																			
15 TO 20	0.02	105.2	1																			
20 TO 25	0.05	327.6	2																			
25 TO 30	0.47	197.7	1																			
30 TO 35	10.00	6501.0	169																			
ABOVE 35	0.00	3994.5	42																			
TOTAL	32.32	13650.7	244																			

TABLE DR15
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
REQUIRE AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.15	127.3	4																			
20 TO 25	0.05	290.3	1																			
25 TO 30	1.21	319.0	1																			
30 TO 35	17.02	7000.0	30																			
ABOVE 35	4.00	2000.0	13																			
TOTAL	26.03	10020.0	57																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	14.3	3																			
1 TO 2	0.10	17.5	17																			
2 TO 5	0.40	87.1	11																			
5 TO 10	0.02	104.9	27																			
10 TO 15	0.40	155.2	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.61	410.0	50																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	14.3	3																			
1 TO 2	0.10	17.5	17																			
2 TO 5	0.40	87.1	11																			
5 TO 10	0.02	104.9	27																			
10 TO 15	0.40	155.2	0																			
15 TO 20	0.02	127.3	4																			
20 TO 25	0.05	290.3	1																			
25 TO 30	1.21	319.0	1																			
30 TO 35	17.02	7000.0	30																			
ABOVE 35	4.00	2000.0	13																			
TOTAL	26.04	11040.0	110																			

TABLE D210
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
MCUIRE AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																				
1 TO 2	0.0	0.0	0																				
2 TO 5	0.0	0.0	0																				
5 TO 10	0.0	0.0	0																				
10 TO 15	0.0	0.0	0																				
15 TO 20	0.10	35.3	0																				
20 TO 25	0.20	109.0	0																				
25 TO 30	0.20	85.0	0																				
30 TO 35	2.05	1183.6	0																				
ABOVE 35	7.37	3183.7	60																				
TOTAL	10.71	4596.6	60																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.2	7.4	0																				
1 TO 2	0.35	6.3	17																				
2 TO 5	0.16	35.6	29																				
5 TO 10	0.11	36.1	9																				
10 TO 15	0.15	47.5	3																				
15 TO 20	0.0	0.0	0																				
20 TO 25	0.0	0.0	0																				
25 TO 30	0.0	0.0	0																				
30 TO 35	0.0	0.0	0																				
ABOVE 35	0.0	0.0	0																				
TOTAL	0.68	132.2	36																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	7.4	0																				
1 TO 2	0.35	6.3	17																				
2 TO 5	0.16	35.6	29																				
5 TO 10	0.11	36.1	9																				
10 TO 15	0.15	47.5	3																				
15 TO 20	0.0	0.0	0																				
20 TO 25	0.20	109.0	0																				
25 TO 30	0.20	85.0	0																				
30 TO 35	2.05	1183.6	0																				
ABOVE 35	7.37	3183.7	60																				
TOTAL	10.79	4728.8	110																				

TABLE D211
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
MCUIRE AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																				
1 TO 2	0.0	0.0	0																				
2 TO 5	0.0	0.0	0																				
5 TO 10	0.0	0.0	0																				
10 TO 15	0.0	0.0	0																				
15 TO 20	1.27	494.9	3																				
20 TO 25	0.97	302.7	0																				
25 TO 30	0.74	319.0	22																				
30 TO 35	27.00	12216.7	24																				
ABOVE 35	7.23	3330.2	174																				
TOTAL	37.22	16744.6	231																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	21.6	34																				
1 TO 2	0.10	33.2	61																				
2 TO 5	0.60	190.0	102																				
5 TO 10	0.40	125.0	33																				
10 TO 15	0.47	166.0	20																				
15 TO 20	0.0	0.0	0																				
20 TO 25	0.0	0.0	0																				
25 TO 30	0.0	0.0	0																				
30 TO 35	0.0	0.0	0																				
ABOVE 35	0.0	0.0	0																				
TOTAL	1.78	487.6	275																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	21.6	34																				
1 TO 2	0.10	33.2	61																				
2 TO 5	0.60	190.0	102																				
5 TO 10	0.40	125.0	33																				
10 TO 15	0.47	166.0	20																				
15 TO 20	1.27	494.9	3																				
20 TO 25	0.97	302.7	0																				
25 TO 30	0.74	319.0	22																				
30 TO 35	27.00	12216.7	24																				
ABOVE 35	7.23	3330.2	174																				
TOTAL	39.99	17231.0	506																				

TABLE 281a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
RESQUIT AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
MONTH OF JUNE
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.09	35.6	0																			
20 TO 25	0.17	70.4	0																			
25 TO 30	0.12	49.1	0																			
30 TO 35	0.20	125.0	2																			
ABOVE 35	7.00	3000.0	42										12	24	9	1						
TOTAL	0.55	3700.6	44										12	24	9	1						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.7	1																			
1 TO 2	0.11	19.6	4										1	1	1							
2 TO 5	0.10	25.0	0										1	2	1							
5 TO 10	0.09	29.5	0																			
10 TO 15	0.08	28.6	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.41	104.5	7										2	3	2							

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.7	1																			
1 TO 2	0.11	19.6	4										1	1	1							
2 TO 5	0.10	25.0	0										1	2	1							
5 TO 10	0.09	29.5	0																			
10 TO 15	0.08	28.6	0																			
15 TO 20	0.09	35.6	0																			
20 TO 25	0.17	70.4	0																			
25 TO 30	0.12	49.1	0																			
30 TO 35	0.20	125.0	2																			
ABOVE 35	7.00	3000.0	42											12	24	9	1					
TOTAL	0.56	3600.0	47										2	15	24	7	1					

TABLE 281b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
RESQUIT AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
MONTH OF JULY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.15	50.0	0																			
20 TO 25	0.20	70.4	0																			
25 TO 30	0.13	35.6	1																			
30 TO 35	0.20	200.0	92											5	24	56	6	1				
ABOVE 35	0.	0.	0											5	24	57	6	1				
TOTAL	7.33	3132.1	93										5	24	57	6	1					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	7.0	1																			
1 TO 2	0.05	4.7	0																			
2 TO 5	0.12	27.1	2										1	1	1							
5 TO 10	0.07	19.6	2										1	1	1							
10 TO 15	0.07	21.6	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.33	88.7	4										2	2	2							

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	7.0	1																			
1 TO 2	0.05	4.7	0																			
2 TO 5	0.12	27.1	2										1	1	1							
5 TO 10	0.07	19.6	2										1	1	1							
10 TO 15	0.07	21.6	0																			
15 TO 20	0.15	50.0	0																			
20 TO 25	0.20	70.4	0																			
25 TO 30	0.13	35.6	1																			
30 TO 35	0.20	200.0	92											5	24	56	6	1				
ABOVE 35	0.	0.	0											5	24	57	6	1				
TOTAL	7.67	3212.0	96										5	24	59	6	1					

TABLE D01
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
REQUIRE AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
MONTH OF AUGUST
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.20	101.0	1																			
20 TO 25	0.47	170.0	2																			
25 TO 30	0.22	93.1	0																			
30 TO 35	12.76	5900.0	75																			
ABOVE 35	1.00	424.0	0																			
TOTAL	14.74	6307.1	78																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	0.7	4																			
1 TO 2	0.19	30.0	0																			
2 TO 5	0.42	110.0	5																			
5 TO 10	0.13	40.2	5																			
10 TO 15	0.15	49.3	2																			
15 TO 20	..	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.95	247.0	16																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	0.7	4																			
1 TO 2	0.19	30.0	0																			
2 TO 5	0.42	110.0	5																			
5 TO 10	0.13	40.2	5																			
10 TO 15	0.15	49.3	2																			
15 TO 20	0.20	101.0	1																			
20 TO 25	0.47	170.0	2																			
25 TO 30	0.22	93.1	0																			
30 TO 35	12.76	5900.0	75																			
ABOVE 35	1.00	424.0	0																			
TOTAL	15.09	6339.0	94																			

TABLE D01
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
REQUIRE AFB, NEW JERSEY
AND
RHEIN MAIN AFB, GERMANY
FOR THE
MONTH OF SEPTEMBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.35	127.3	4																			
20 TO 25	0.65	258.3	1																			
25 TO 30	1.21	515.0	1																			
30 TO 35	17.02	7094.0	36																			
ABOVE 35	4.00	2040.0	13																			
TOTAL	24.03	10026.0	57																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	10.3	3																			
1 TO 2	0.10	17.0	17																			
2 TO 5	0.40	87.1	11																			
5 TO 10	0.62	104.9	27																			
10 TO 15	0.40	155.2	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.61	410.5	50																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	10.3	3																			
1 TO 2	0.10	17.0	17																			
2 TO 5	0.40	87.1	11																			
5 TO 10	0.62	104.9	27																			
10 TO 15	0.40	155.2	0																			
15 TO 20	0.35	127.3	4																			
20 TO 25	0.65	258.3	1																			
25 TO 30	1.21	515.0	1																			
30 TO 35	17.02	7094.0	36																			
ABOVE 35	4.00	2040.0	13																			
TOTAL	26.04	11244.0	110																			

TABLE D22a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
WAKE AIRPORT, WAKE ISLAND

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	1.31	483.3	7																				
20 TO 25	4.25	1704.4	216									1	17	73	101	17	5						
25 TO 30	3.77	1613.2	14										1	4	9								
30 TO 35	11.49	5367.2	6											1	4	1							
ABOVE 35	71.16	27825.4	223									1	7	13	93	82	24	1				1	1
TOTAL	72.18	31693.5	466									1	11	31	175	190	42	6				1	1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.58	84.7	64																				
1 TO 2	0.74	117.1	65																				
2 TO 5	1.73	305.9	106			1																	
5 TO 10	1.14	366.4	40					1															
10 TO 15	1.20	412.1	11																				
15 TO 20	0.	0.	0																				
20 TO 25	0.33	13.4	1																				
25 TO 30	0.37	28.2	0																				
30 TO 35	0.05	21.5	0																				
ABOVE 35	1.89	853.4	0																				
TOTAL	7.43	2397.7	267			1		1		1	0	32	70	105	46	17	6						

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.58	84.7	64																				
1 TO 2	1.74	117.1	65																				
2 TO 5	1.73	305.9	106			1																	
5 TO 10	1.14	366.4	40					1															
10 TO 15	1.20	410.1	11																				
15 TO 20	1.31	483.3	7																				
20 TO 25	4.28	1717.0	217																				
25 TO 30	3.84	1638.4	14																				
30 TO 35	11.74	5068.7	6																				
ABOVE 35	53.35	23675.8	223									1	7	13	93	82	24	1				1	1
TOTAL	79.62	33968.2	753			1		1		1	0	32	70	105	46	17	6					1	1

TABLE D22b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	1.13	417.5	6																				
20 TO 25	4.05	1624.6	216																				
25 TO 30	3.42	1462.9	6																				
30 TO 35	10.18	4622.7	6																				
ABOVE 35	62.05	18669.4	223									1	7	13	93	82	24	1				1	1
TOTAL	67.03	26797.1	457									1	11	31	172	192	42	6				1	1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.33	75.9	63																				
1 TO 2	0.67	109.6	64																				
2 TO 5	1.59	353.2	104			1																	
5 TO 10	0.99	383.7	38					1															
10 TO 15	1.24	356.1	11																				
15 TO 20	0.	0.	0																				
20 TO 25	0.33	13.4	1																				
25 TO 30	0.37	28.2	0																				
30 TO 35	0.05	21.5	0																				
ABOVE 35	1.89	853.4	0																				
TOTAL	6.07	2134.9	271			1		1		1	7	28	62	103	46	16	6						

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.53	79.9	63																				
1 TO 2	0.67	109.6	64																				
2 TO 5	1.59	353.2	104			1																	
5 TO 10	0.99	383.7	38					1															
10 TO 15	1.04	356.1	11																				
15 TO 20	1.13	417.5	6																				
20 TO 25	4.08	1639.1	217																				
25 TO 30	3.49	1491.0	6																				
30 TO 35	10.23	4644.1	6																				
ABOVE 35	63.93	19719.8	223									1	7	13	93	82	24	1				1	1
TOTAL	67.70	26982.0	728			1		1		1	7	28	62	103	46	16	6					1	1

TABLE D22c
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 NICKAH AFB, HAWAII
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 SPRING SEASON
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.04	14.9	0																			
20 TO 25	0.07	28.1	0																			
25 TO 30	0.14	59.1	2																			
30 TO 35	0.82	347.8	0																			
ABOVE 35	3.90	1652.6	0																			
TOTAL	4.97	2094.5	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	1																			
1 TO 2	0.01	1.4	0																			
2 TO 5	0.03	7.6	1																			
5 TO 10	0.04	12.9	0																			
10 TO 15	0.04	14.9	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.14	38.5	0																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	1																			
1 TO 2	0.01	1.4	0																			
2 TO 5	0.03	7.6	1																			
5 TO 10	0.04	12.9	0																			
10 TO 15	0.04	14.9	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.82	347.8	0																			
ABOVE 35	3.90	1652.6	0																			
TOTAL	5.11	2136.9	10																			

TABLE D22d
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 NICKAH AFB, HAWAII
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 SUMMER SEASON
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.09	32.2	0																			
20 TO 25	0.06	25.1	0																			
25 TO 30	0.09	36.1	2																			
30 TO 35	0.59	257.4	0																			
ABOVE 35	3.47	1526.6	0																			
TOTAL	4.30	1879.6	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	0																			
1 TO 2	0.05	6.6	1																			
2 TO 5	0.07	17.6	1																			
5 TO 10	0.07	28.9	0																			
10 TO 15	0.07	25.4	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.29	75.0	2																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	0																			
1 TO 2	0.05	6.6	1																			
2 TO 5	0.07	17.6	1																			
5 TO 10	0.07	28.9	0																			
10 TO 15	0.07	25.4	0																			
15 TO 20	0.09	32.2	0																			
20 TO 25	0.06	25.1	0																			
25 TO 30	0.09	36.1	2																			
30 TO 35	0.59	257.4	0																			
ABOVE 35	3.47	1526.6	0																			
TOTAL	4.59	1999.5	4																			

TABLE D21
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.05	14.7	1																			
20 TO 25	0.07	26.6	0																			
25 TO 30	0.12	90.1	4																			
30 TO 35	0.10	43.3	0																			
ABOVE 35	1.74	776.8	0																			
TOTAL	2.08	915.5	5																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	0																			
1 TO 2	0.01	1.5	0																			
2 TO 5	0.03	7.5	0																			
5 TO 10	0.04	12.3	4																			
10 TO 15	0.04	14.6	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.13	58.4	6																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	0																			
1 TO 2	0.01	1.5	0																			
2 TO 5	0.03	7.5	0																			
5 TO 10	0.04	12.3	4																			
10 TO 15	0.04	14.6	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.12	90.1	4																			
30 TO 35	0.10	43.3	0																			
ABOVE 35	1.74	776.8	0																			
TOTAL	2.21	933.9	11																			

TABLE D22
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.48	176.2	2																			
20 TO 25	3.42	1378.5	204																			
25 TO 30	2.62	1127.4	2																			
30 TO 35	4.72	2062.5	3																			
ABOVE 35	17.96	8017.7	5																			
TOTAL	29.21	12781.9	216																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.24	35.5	29																			
1 TO 2	0.32	51.1	24																			
2 TO 5	0.62	147.0	26																			
5 TO 10	0.43	135.0	14																			
10 TO 15	0.48	164.0	2																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.10	536.2	95																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.24	35.5	29																			
1 TO 2	0.32	51.1	24																			
2 TO 5	0.62	147.0	26																			
5 TO 10	0.43	135.0	14																			
10 TO 15	0.48	164.0	2																			
15 TO 20	0.48	176.2	2																			
20 TO 25	3.42	1378.5	204																			
25 TO 30	2.62	1127.4	2																			
30 TO 35	4.72	2062.5	3																			
ABOVE 35	17.96	8017.7	5																			
TOTAL	31.81	13318.2	311																			

TABLE D22
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
MONTH OF FEBRUARY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.24	87.5	0																			
20 TO 25	0.22	87.4	0																			
25 TO 30	0.22	94.2	0																			
30 TO 35	4.71	2011.6	0																			
ABOVE 35	4.28	1919.7	2																			
TOTAL	9.67	4292.4	10																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	20.1	5																			
1 TO 2	0.12	20.0	10																			
2 TO 5	0.33	70.3	36																			
5 TO 10	0.18	54.1	7																			
10 TO 15	0.20	68.0	9																			
15 TO 20	0.	0.	0																			
20 TO 25	0.03	13.4	1																			
25 TO 30	0.07	28.2	0																			
30 TO 35	0.05	21.5	0																			
ABOVE 35	1.89	853.4	0																			
TOTAL	3.02	1146.8	68																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	20.1	5																			
1 TO 2	0.12	20.0	10																			
2 TO 5	0.33	70.3	36																			
5 TO 10	0.18	54.1	7																			
10 TO 15	0.20	68.0	9																			
15 TO 20	0.24	87.5	0																			
20 TO 25	0.26	100.8	9																			
25 TO 30	0.29	122.4	0																			
30 TO 35	4.76	2033.1	0																			
ABOVE 35	6.17	2770.1	2																			
TOTAL	12.69	5347.2	78																			

TABLE D22
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
WAKE AIRPORT, WAKE ISLAND
FOR THE
MONTH OF APRIL
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.04	14.9	0																			
20 TO 25	0.07	28.1	0																			
25 TO 30	0.14	59.1	2																			
30 TO 35	0.82	343.8	0																			
ABOVE 35	3.99	1632.4	0																			
TOTAL	4.97	2098.5	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	2.5	1																			
1 TO 2	0.21	1.4	0																			
2 TO 5	0.33	7.6	1																			
5 TO 10	0.26	12.9	0																			
10 TO 15	0.24	14.0	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.14	38.5	8																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.2	2.5	1																			
1 TO 2	0.21	1.4	0																			
2 TO 5	0.33	7.6	1																			
5 TO 10	0.26	12.9	0																			
10 TO 15	0.24	14.0	0																			
15 TO 20	0.36	14.9	0																			
20 TO 25	0.37	28.1	0																			
25 TO 30	0.14	59.1	2																			
30 TO 35	0.82	343.8	0																			
ABOVE 35	3.99	1632.4	0																			
TOTAL	5.11	2136.9	10																			

TABLE D221
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 MONTH OF JUNE
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.09	32.2	0																			
20 TO 25	0.06	25.1	0																			
25 TO 30	0.09	30.1	2																			
30 TO 35	0.59	257.4	0																			
ABOVE 35	1.67	5.6	0																			
TOTAL	4.33	5.6	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.7	0																			
1 TO 2	0.05	4.6	1																			
2 TO 5	0.07	17.6	1																			
5 TO 10	0.07	23.5	0																			
10 TO 15	0.07	25.4	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.29	75.9	2																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.7	0																			
1 TO 2	0.05	4.6	1																			
2 TO 5	0.07	17.6	1																			
5 TO 10	0.07	23.5	0																			
10 TO 15	0.07	25.4	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0.59	257.4	0																			
ABOVE 35	1.67	1576.6	0																			
TOTAL	4.59	1950.5	4																			

TABLE D222
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 MONTH OF NOVEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.05	18.7	1																			
20 TO 25	0.07	26.0	0																			
25 TO 30	0.12	55.1	4																			
30 TO 35	0.10	43.3	0																			
ABOVE 35	1.74	776.8	0																			
TOTAL	2.34	915.5	5																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	0																			
1 TO 2	0.01	1.5	0																			
2 TO 5	0.03	7.5	0																			
5 TO 10	0.04	12.3	6																			
10 TO 15	0.04	14.6	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.13	38.4	6																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.5	0																			
1 TO 2	0.01	1.5	0																			
2 TO 5	0.03	7.5	0																			
5 TO 10	0.04	12.3	6																			
10 TO 15	0.04	14.6	0																			
15 TO 20	0.05	18.7	1																			
20 TO 25	0.07	26.0	0																			
25 TO 30	0.12	55.1	4																			
30 TO 35	0.10	43.3	0																			
ABOVE 35	1.74	776.8	0																			
TOTAL	2.21	953.9	11																			

TABLE D22
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 WAKE AIRPORT, WAKE ISLAND
 FOR THE
 MONTH OF DECEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.42	153.0	4						1			2	1									
20 TO 25	0.40	150.0	4									2	2									
25 TO 30	0.57	241.5	4							1		2	1									
30 TO 35	0.74	320.0	3											1								
ABOVE 35	19.81	6932.1	216					1	7	13	90	70	24	1					1	1		
TOTAL	21.94	9814.0	231					1	8	14	96	84	29	1					1	1		

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	20.3	29						1			3	5	4	12	2						
1 TO 2	0.23	34.5	30									3	5	0	4	5	4					
2 TO 5	0.64	135.1	42									2	5	10	17	6	2					
5 TO 10	0.38	111.0	7									1		2	4							
10 TO 15	0.36	120.4	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.76	421.0	108						1	3	13	22	34	22	9	4						

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	20.3	29						1			3	5	4	12	2						
1 TO 2	0.23	34.5	30									2	5	10	17	6	2					
2 TO 5	0.64	135.1	42									1	5	10	17	6	2					
5 TO 10	0.38	111.0	7									1		2	4							
10 TO 15	0.36	120.4	0																			
15 TO 20	0.42	153.0	4						1			2	1									
20 TO 25	0.40	150.0	4																			
25 TO 30	0.57	241.5	4									1	2	1								
30 TO 35	0.74	320.0	3																			
ABOVE 35	19.81	6932.1	216					1	7	13	90	70	24	1					1	1		
TOTAL	23.70	10236.0	339					2	11	27	110	110	47	10	4				1	1		

TABLE D23c
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
CLARK AB, PHILIPPINES
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.22	82.1	4																			
20 TO 25	0.26	131.5	14																			
25 TO 30	0.28	119.4	73																			
30 TO 35	5.67	2504.1	1																			
ABOVE 35	18.39	8145.4	17																			
TOTAL	24.76	10932.5	109																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	6.9	10																			
1 TO 2	0.23	5.0	2																			
2 TO 5	0.16	34.1	22																			
5 TO 10	0.16	48.3	14																			
10 TO 15	0.22	74.7	3																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.61	169.2	51																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	6.9	10																			
1 TO 2	0.23	5.0	2																			
2 TO 5	0.16	34.1	22																			
5 TO 10	0.16	48.3	14																			
10 TO 15	0.22	74.7	3																			
15 TO 20	0.22	82.1	4																			
20 TO 25	0.26	101.5	14																			
25 TO 30	0.28	119.4	73																			
30 TO 35	5.60	2504.1	1																			
ABOVE 35	18.39	8145.4	17																			
TOTAL	25.38	11121.5	160																			

TABLE D23d
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
CLARK AB, PHILIPPINES
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.22	81.4	2																			
20 TO 25	0.26	99.6	24																			
25 TO 30	0.27	113.0	3																			
30 TO 35	4.98	2065.0	2																			
ABOVE 35	22.99	10096.6	38																			
TOTAL	26.23	12456.4	69																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	6.8	25																			
1 TO 2	0.19	25.1	65																			
2 TO 5	0.31	66.0	61																			
5 TO 10	0.25	77.9	40																			
10 TO 15	0.23	79.4	5																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	1.27	549.6	2																			
TOTAL	2.26	824.9	193																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.25	6.8	25																			
1 TO 2	0.19	25.1	65																			
2 TO 5	0.31	66.0	61																			
5 TO 10	0.25	77.9	40																			
10 TO 15	0.23	79.4	5																			
15 TO 20	0.22	81.4	2																			
20 TO 25	0.26	99.6	24																			
25 TO 30	0.27	113.0	3																			
30 TO 35	4.98	2065.0	2																			
ABOVE 35	24.15	10066.2	40																			
TOTAL	30.49	13281.5	262																			

TABLE D23
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 CLARK AB, PHILIPPINES
 FOR THE
 AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.27	96.9	6										4	2								
20 TO 25	0.47	187.3	0																			
25 TO 30	0.67	266.8	2										1	1								
30 TO 35	14.36	5986.2	111										3	11	43	42	7	4			1	
ABOVE 35	11.93	5219.5	17												7	10						
TOTAL	27.71	11747.8	136										3	11	55	55	7	4			1	

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.07	9.9	6																			
1 TO 2	0.26	9.9	7																			
2 TO 5	0.30	63.2	26																			
5 TO 10	0.26	73.2	2										1	12	11	1	1					
10 TO 15	0.26	85.6	4																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.96	238.9	45										1	18	20	3	3					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.07	9.9	6																			
1 TO 2	0.06	9.9	7																			
2 TO 5	0.30	63.2	26																			
5 TO 10	0.26	73.2	2										1	12	11	1	1					
10 TO 15	0.26	85.6	4																			
15 TO 20	0.27	96.9	6																			
20 TO 25	0.47	187.3	0																			
25 TO 30	0.67	266.8	2																			
30 TO 35	14.36	5986.2	111										3	11	43	42	7	4			1	
ABOVE 35	11.93	5219.5	17												7	10						
TOTAL	28.66	11986.7	181										3	12	73	75	10	7			1	

TABLE D23E
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 CLARK AB, PHILIPPINES
 FOR THE
 MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.36	131.1	10										2	3	2	5	2	1				1
20 TO 25	0.51	204.6	0																			
25 TO 30	3.05	1940.9	0																			
30 TO 35	10.13	4137.6	18												5	12	1					
ABOVE 35	16.18	7196.2	16												1	6	7	2				
TOTAL	31.03	13204.5	90										2	4	13	24	5	1				1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.07	10.7	11																			
1 TO 2	0.12	19.3	23																			
2 TO 5	0.51	105.7	32																			
5 TO 10	0.41	120.3	6																			
10 TO 15	0.34	115.1	2																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.46	371.1	74										1	1	7	19	25	12	6	2		1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.07	10.7	11																			
1 TO 2	0.12	19.3	23																			
2 TO 5	0.51	105.7	32																			
5 TO 10	0.41	120.3	6																			
10 TO 15	0.34	115.1	2																			
15 TO 20	0.36	131.1	10										2	3	2	5	2	1				1
20 TO 25	0.51	204.6	0																			
25 TO 30	3.05	1940.9	0																			
30 TO 35	10.13	4137.6	18												5	12	1					
ABOVE 35	16.18	7196.2	16												1	6	7	2				
TOTAL	32.49	13575.6	124										1	3	11	32	49	17	7	2		2

TABLE D25
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
CLARK AB, PHILIPPINES
FOR THE
MONTH OF MARCH
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.37	24.0	3																			
20 TO 25	0.07	26.0	0																			
25 TO 30	0.30	35.1	10																			
30 TO 35	1.78	797.6	0																			
ABOVE 35	3.06	1703.0	0																			
TOTAL	5.86	2589.0	21																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.6	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.32	5.2	1																			
5 TO 10	0.74	12.6	0																			
10 TO 15	0.39	16.9	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.13	37.3	1																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.32	2.6	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.32	5.2	1																			
5 TO 10	0.74	12.6	0																			
10 TO 15	0.39	16.9	0																			
15 TO 20	0.07	24.0	3																			
20 TO 25	0.37	26.0	0																			
25 TO 30	0.30	35.1	10																			
30 TO 35	1.78	797.6	0																			
ABOVE 35	3.06	1703.0	0																			
TOTAL	5.99	2623.1	22																			

TABLE D26
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
CLARK AB, PHILIPPINES
FOR THE
MONTH OF APRIL
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	36.5	1																			
20 TO 25	0.12	49.2	0																			
25 TO 30	0.12	49.1	0																			
30 TO 35	3.34	1492.0	1																			
ABOVE 35	5.75	2912.7	8																			
TOTAL	6.43	4139.5	10																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	4.3	10																			
1 TO 2	0.01	1.5	2																			
2 TO 5	0.11	20.5	12																			
5 TO 10	0.37	22.1	10																			
10 TO 15	0.10	36.5	1																			
15 TO 20	0.10	36.5	1																			
20 TO 25	0.12	49.2	0																			
25 TO 30	0.12	49.1	0																			
30 TO 35	3.34	1492.0	1																			
ABOVE 35	5.75	2912.7	8																			
TOTAL	6.32	4223	34																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	4.3	10																			
1 TO 2	0.01	1.5	2																			
2 TO 5	0.11	20.5	12																			
5 TO 10	0.37	22.1	10																			
10 TO 15	0.10	36.5	1																			
15 TO 20	0.10	36.5	1																			
20 TO 25	0.12	49.2	0																			
25 TO 30	0.12	49.1	0																			
30 TO 35	3.34	1492.0	1																			
ABOVE 35	5.75	2912.7	8																			
TOTAL	6.76	4222.0	44																			

TABLE B2B
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
CLARK AB, PHILIPPINES
FOR THE
MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.06	21.6	0																			
20 TO 25	0.07	26.4	14																			
25 TO 30	0.08	35.1	55																			
30 TO 35	0.40	214.9	9																			
ABOVE 35	0.70	3929.6	9																			
TOTAL	0.47	4227.2	70																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0	0																			
1 TO 2	0.02	3.6	0																			
2 TO 5	0.03	6.4	9																			
5 TO 10	0.04	13.6	4																			
10 TO 15	0.07	23.7	3																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.16	49.2	16																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.02	3.6	0																			
2 TO 5	0.03	6.4	9																			
5 TO 10	0.04	13.6	4																			
10 TO 15	0.07	23.7	3																			
15 TO 20	0.06	21.6	0																			
20 TO 25	0.07	26.4	14																			
25 TO 30	0.08	35.1	55																			
30 TO 35	0.40	214.9	9																			
ABOVE 35	0.70	3929.6	9																			
TOTAL	0.63	4276.5	96																			

TABLE D2B
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
CLARK AB, PHILIPPINES
FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.22	81.4	7																			
20 TO 25	0.26	99.6	24																			
25 TO 30	0.27	113.0	3																			
30 TO 35	4.58	2065.0	2																			
ABOVE 35	7.89	10096.4	30																			
TOTAL	20.23	12456.4	69																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	6.0	25																			
1 TO 2	0.15	25.1	65																			
2 TO 5	0.31	66.0	61																			
5 TO 10	0.25	77.9	40																			
10 TO 15	0.23	79.4	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	1.27	567.6	2																			
TOTAL	2.26	824.9	193																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	6.0	25																			
1 TO 2	0.15	25.1	65																			
2 TO 5	0.31	66.0	61																			
5 TO 10	0.25	77.9	40																			
10 TO 15	0.23	79.4	0																			
15 TO 20	0.22	81.4	2																			
20 TO 25	0.26	99.6	24																			
25 TO 30	0.27	113.0	3																			
30 TO 35	4.58	2065.0	2																			
ABOVE 35	7.89	10096.4	30																			
TOTAL	20.49	12281.9	262																			

TABLE D244
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
ANDERSON AB, GUAM
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	15.2	44																			
1 TO 2	0.31	47.4	50																			
2 TO 5	1.33	181.2	63																			
5 TO 10	0.35	105.8	7																			
10 TO 15	0.35	110.6	2																			
15 TO 20	0.38	139.4	9																			
20 TO 25	0.50	197.6	13																			
25 TO 30	1.55	225.0	17																			
30 TO 35	9.06	3965.7	16																			
ABOVE 35	22.46	9051.6	64																			
TOTAL	32.93	14472.4	119																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	15.2	44																			
1 TO 2	0.31	47.4	50																			
2 TO 5	1.33	181.2	63																			
5 TO 10	0.35	105.8	7																			
10 TO 15	0.35	110.6	2																			
15 TO 20	0.38	139.4	9																			
20 TO 25	0.50	197.6	13																			
25 TO 30	0.55	225.0	17																			
30 TO 35	9.06	3965.7	16																			
ABOVE 35	22.46	9051.6	64																			
TOTAL	2.16	668.2	166																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	15.2	44																			
1 TO 2	0.31	47.4	50																			
2 TO 5	1.33	181.2	63																			
5 TO 10	0.35	105.8	7																			
10 TO 15	0.35	110.6	2																			
15 TO 20	0.38	139.4	9																			
20 TO 25	0.50	197.6	13																			
25 TO 30	0.55	225.0	17																			
30 TO 35	9.06	3965.7	16																			
ABOVE 35	22.46	9051.6	64																			
TOTAL	35.09	14940.6	285																			

TABLE D244
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
ANDERSON AB, GUAM
FOR THE
AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.15	15.2	44																			
1 TO 2	0.31	47.4	50																			
2 TO 5	1.33	181.2	63																			
5 TO 10	0.35	105.8	7																			
10 TO 15	0.35	110.6	2																			
15 TO 20	0.38	139.4	9																			
20 TO 25	0.50	197.6	13																			
25 TO 30	0.55	225.0	17																			
30 TO 35	9.06	3965.7	16																			
ABOVE 35	22.46	9051.6	64																			
TOTAL	20.49	8570.3	962																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	16.0	16																			
1 TO 2	0.36	11.2	13																			
2 TO 5	0.12	29.0	19																			
5 TO 10	0.19	56.4	1																			
10 TO 15	0.17	58.7	1																			
15 TO 20	0.21	76.6	2																			
20 TO 25	0.22	110.6	432																			
25 TO 30	0.04	1903.7	429																			
30 TO 35	0.77	2907.1	0																			
ABOVE 35	0.74	2921.5	99																			
TOTAL	0.61	162.2	50																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.16	16.0	16																			
1 TO 2	0.36	11.2	13																			
2 TO 5	0.12	29.0	19																			
5 TO 10	0.19	56.4	1																			
10 TO 15	0.17	58.7	1																			
15 TO 20	0.21	76.6	2																			
20 TO 25	2.92	1103.4	432																			
25 TO 30	0.04	1903.7	429																			
30 TO 35	0.77	2907.1	0																			
ABOVE 35	0.74	2921.5	99																			
TOTAL	21.12	8792.5	1312																			

TABLE D240
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
ANDERSON AB, GUAM
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.15	56.8	0																			
20 TO 25	0.19	74.2	1																			
25 TO 30	0.22	94.8	0																			
30 TO 35	0.22	94.9	0																			
ABOVE 35	7.40	3294.4	1																			
TOTAL	8.19	3617.1	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	21.3	18																			
1 TO 2	0.36	59.6	32																			
2 TO 5	0.63	114.2	35																			
5 TO 10	0.14	43.4	0																			
10 TO 15	0.15	51.3	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.42	286.8	85																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	21.3	18																			
1 TO 2	0.36	59.6	32																			
2 TO 5	0.63	114.2	35																			
5 TO 10	0.14	43.4	0																			
10 TO 15	0.15	51.3	0																			
15 TO 20	0.15	56.8	0																			
20 TO 25	0.19	74.2	1																			
25 TO 30	0.22	94.8	0																			
30 TO 35	0.22	94.9	0																			
ABOVE 35	7.40	3294.4	1																			
TOTAL	9.61	3903.9	87																			

TABLE D241
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
ANDERSON AB, GUAM
FOR THE
MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.23	84.2	1																			
20 TO 25	0.30	117.0	27																			
25 TO 30	1.25	535.8	0																			
30 TO 35	3.47	204.6	0																			
ABOVE 35	23.50	10896.6	554																			
TOTAL	25.75	11838.1	584																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.36	8.4	18																			
1 TO 2	0.36	8.9	12																			
2 TO 5	0.23	50.5	21																			
5 TO 10	0.20	62.3	8																			
10 TO 15	0.19	62.1	4																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.74	193.7	63																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.36	8.4	18																			
1 TO 2	0.36	8.9	12																			
2 TO 5	0.23	50.5	21																			
5 TO 10	0.20	62.3	8																			
10 TO 15	0.19	62.1	4																			
15 TO 20	0.23	84.2	1																			
20 TO 25	0.30	117.0	27																			
25 TO 30	1.25	535.8	0																			
30 TO 35	3.47	204.6	0																			
ABOVE 35	23.50	10896.6	554																			
TOTAL	26.49	12031.3	647																			

TABLE D04a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
NICKAN AFB, HAWAII
AND
ANDERSON AB, GUAM
FOR THE
MONTH OF JUNE

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.12	43.4	0																			
20 TO 25	0.15	59.0	0																			
25 TO 30	0.15	64.0	16																			
30 TO 35	4.77	2095.4	16																			
ABOVE 35	4.11	1789.9	33																			
TOTAL	9.30	4513.3	65																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	5.0	2																			
1 TO 2	0.03	8.0	5																			
2 TO 5	0.04	12.0	4																			
5 TO 10	0.08	27.3	0																			
10 TO 15	0.09	31.1	3																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.20	84.3	29																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	5.0	20																			
1 TO 2	0.03	8.0	5																			
2 TO 5	0.04	12.0	4																			
5 TO 10	0.08	27.3	0																			
10 TO 15	0.09	31.1	0																			
15 TO 20	0.12	43.4	0																			
20 TO 25	0.15	59.0	0																			
25 TO 30	0.15	64.0	0																			
30 TO 35	4.77	2095.4	16																			
ABOVE 35	4.11	1789.9	33																			
TOTAL	9.59	4097.6	94																			

TABLE D04b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
NICKAN AFB, HAWAII
AND
ANDERSON AB, GUAM
FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.19	69.6	0																			
20 TO 25	0.22	85.0	7																			
25 TO 30	0.25	105.2	0																			
30 TO 35	4.15	1857.0	0																			
ABOVE 35	10.47	4992.7	1																			
TOTAL	15.27	6709.6	8																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.5	0																			
1 TO 2	0.08	12.5	24																			
2 TO 5	0.31	58.3	25																			
5 TO 10	0.19	58.2	0																			
10 TO 15	0.19	63.6	0																			
15 TO 20	0.19	69.6	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.80	196.1	57																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.5	0																			
1 TO 2	0.08	12.5	24																			
2 TO 5	0.31	58.3	25																			
5 TO 10	0.19	58.2	0																			
10 TO 15	0.19	63.6	0																			
15 TO 20	0.19	69.6	0																			
20 TO 25	0.22	85.0	7																			
25 TO 30	0.25	105.2	0																			
30 TO 35	4.15	1857.0	0																			
ABOVE 35	10.47	4992.7	1																			
TOTAL	16.08	6909.7	68																			

TABLE D24
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 ANDERSON AB, GUAM
 FOR THE
 MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.7	26.4	9																			
20 TO 25	0.13	45.8	6																			
25 TO 30	0.15	55.0	1																			
30 TO 35	0.13	53.3	3																			
ABOVE 35	7.88	3569.3	37																			
TOTAL	8.37	3749.5	46																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	5.9	16																			
1 TO 2	0.19	26.9	21																			
2 TO 5	0.68	113.9	34																			
5 TO 10	0.37	24.2	7																			
10 TO 15	0.37	23.8	2																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	1.5	187.7	80																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.4	5.9	16																			
1 TO 2	0.19	26.9	21																			
2 TO 5	0.68	113.9	34																			
5 TO 10	0.37	24.2	7																			
10 TO 15	0.37	23.8	2																			
15 TO 20	0.7	26.4	9																			
20 TO 25	0.13	45.8	6																			
25 TO 30	0.15	55.0	1																			
30 TO 35	0.13	53.3	3																			
ABOVE 35	7.88	3569.3	30																			
TOTAL	9.43	3937.2	126																			

TABLE D24
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 ANDERSON AB, GUAM
 FOR THE
 MONTH OF NOVEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	2.21	74.6	2																			
20 TO 25	2.92	1163.4	432																			
25 TO 30	3.44	1523.7	427																			
30 TO 35	6.77	2907.1	0																			
ABOVE 35	6.74	2921.5	99																			
TOTAL	20.49	8570.3	962																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	8.8	16																			
1 TO 2	0.36	11.2	13																			
2 TO 5	0.12	29.3	19																			
5 TO 10	0.19	54.4	1																			
10 TO 15	0.17	54.7	1																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.61	162.2	50																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	8.8	16																			
1 TO 2	0.36	11.2	13																			
2 TO 5	0.12	29.3	19																			
5 TO 10	0.19	54.4	1																			
10 TO 15	0.17	54.7	1																			
15 TO 20	0.21	74.6	2																			
20 TO 25	2.92	1163.4	432																			
25 TO 30	3.44	1523.7	429																			
30 TO 35	6.77	2907.1	0																			
ABOVE 35	6.74	2921.5	99																			
TOTAL	21.13	8732.5	1312																			

TABLE D24h
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
WICKAM AFB, HAWAII
AND
ANDERSON AB, GUAM
FOR THE
MONTH OF DECEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.05	10.2	0																				
20 TO 25	0.08	32.4	0																				
25 TO 30	0.08	34.2	0																				
30 TO 35	3.61	1573.0	1																				
ABOVE 35	2.35	871.9	0																				
TOTAL	5.00	2529.6	1																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.01	2.3	7																				
1 TO 2	0.01	1.5	2																				
2 TO 5	0.32	5.5	4																				
5 TO 10	0.24	12.6	0																				
10 TO 15	0.06	19.9	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	5.14	41.9	13																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.01	2.3	7																				
1 TO 2	0.01	1.5	2																				
2 TO 5	0.32	5.5	4																				
5 TO 10	0.24	12.6	0																				
10 TO 15	0.06	19.9	0																				
15 TO 20	0.05	10.2	0																				
20 TO 25	0.08	32.4	0																				
25 TO 30	0.08	34.2	0																				
30 TO 35	3.61	1573.0	1																				
ABOVE 35	2.35	871.9	0																				
TOTAL	6.32	2571.5	14																				

TABLE D25a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
YOKOTA AB, JAPAN

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.19	72.4	0																			
20 TO 25	0.22	88.0	0																			
25 TO 30	7.28	3187.6	11										1	7	3							
30 TO 35	3.46	1487.1	0																			
ABOVE 35	7.96	3432.4	102										4	23	67	7	1					
TOTAL	19.12	8268.4	113										5	30	76	7	1					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	26.3	51										1	10	12	8	5	6				
1 TO 2	0.24	39.5	37											1	18	7	10	2				
2 TO 5	0.53	129.3	25											1	7	12	5					
5 TO 10	0.30	93.9	5												2	3						
10 TO 15	0.31	105.2	0																			
15 TO 20	0.29	33.3	11												4	6	1					
20 TO 25	0.12	45.4	0																			
25 TO 30	0.13	55.9	0																			
30 TO 35	0.21	86.4	0																			
ABOVE 35	1.36	456.4	129											1	11	40	40	24	7	6		
TOTAL	3.16	1064.2	129											1	11	40	40	24	7	6		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	26.3	51											1	10	9	12	8	5	6		
1 TO 2	0.24	39.5	37												18	7	10	2				
2 TO 5	0.53	129.3	25											1	7	12	5					
5 TO 10	0.30	93.9	5												2	3						
10 TO 15	0.31	105.2	0																			
15 TO 20	0.29	105.7	11												4	6	1					
20 TO 25	0.12	134.2	0																			
25 TO 30	7.42	3243.1	11											1	7	3						
30 TO 35	3.67	1576.4	0																			
ABOVE 35	9.32	3878.9	102											4	23	67	7	1				
TOTAL	22.28	9332.6	242											1	18	77	110	31	8	6		

TABLE D25b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
HICKAM AFB, HAWAII
AND
YOKOTA AB, JAPAN
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.09	33.9	0																			
20 TO 25	0.11	42.4	0																			
25 TO 30	7.13	3124.9	11											1	7	3						
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	7.33	3201.3	11											1	7	3						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	9.0	20											5	3	7	4	1				
1 TO 2	0.11	19.3	21												9	6	5	1				
2 TO 5	0.21	56.7	2												0	6	5	1				
5 TO 10	0.08	28.1	0													1	1					
10 TO 15	0.13	43.9	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.59	149.9	43											5	12	14	10	2				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	9.0	20											5	3	7	4	1				
1 TO 2	0.11	19.3	21												9	6	5	1				
2 TO 5	0.21	56.7	2												0	6	5	1				
5 TO 10	0.08	28.1	0													1	1					
10 TO 15	0.13	43.9	0																			
15 TO 20	0.09	33.9	0																			
20 TO 25	0.11	42.4	0																			
25 TO 30	7.13	3124.9	11											1	7	3						
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	7.92	3331.2	54											6	19	17	10	2				

TABLE D294
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 YOKOTA AB, JAPAN
 FOR THE
 AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	30.0	0																			
20 TO 25	0.12	40.0	0																			
25 TO 30	0.15	45.0	0																			
30 TO 35	0.46	1407.1	0																			
ABOVE 35	7.96	3432.4	102																			
TOTAL	11.79	9067.1	102																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	17.3	31																			
1 TO 2	0.13	20.2	16																			
2 TO 5	0.32	74.6	23																			
5 TO 10	0.22	70.9	5																			
10 TO 15	0.18	61.3	0																			
15 TO 20	0.19	57.3	11																			
20 TO 25	0.12	40.0	0																			
25 TO 30	0.13	39.0	0																			
30 TO 35	0.21	60.4	0																			
ABOVE 35	1.06	446.4	0																			
TOTAL	2.57	914.3	66																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	17.3	31																			
1 TO 2	0.13	20.2	16																			
2 TO 5	0.32	74.6	23																			
5 TO 10	0.22	70.9	5																			
10 TO 15	0.18	61.3	0																			
15 TO 20	0.19	57.3	11																			
20 TO 25	0.23	69.8	0																			
25 TO 30	0.20	59.2	0																			
30 TO 35	0.67	1576.4	0																			
ABOVE 35	9.32	3070.9	102																			
TOTAL	14.36	5961.4	188																			

TABLE D294
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 HICKAM AFB, HAWAII
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.09	33.9	0																			
20 TO 25	0.11	42.4	0																			
25 TO 30	7.13	3124.9	11																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	7.33	3207.3	11																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	9.0	20																			
1 TO 2	0.11	19.3	21																			
2 TO 5	0.21	54.7	2																			
5 TO 10	0.30	23.1	0																			
10 TO 15	0.13	43.9	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.59	149.9	43																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	9.0	20																			
1 TO 2	0.11	19.3	21																			
2 TO 5	0.21	54.7	2																			
5 TO 10	0.30	23.1	0																			
10 TO 15	0.13	43.9	0																			
15 TO 20	0.39	33.9	0																			
20 TO 25	0.11	42.4	0																			
25 TO 30	7.13	3124.9	11																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	7.92	3231.2	54																			

TABLE D890
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
NICKAN AFB, HAWAII
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF NOVEMBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	30.3	0																			
20 TO 25	0.12	40.6	0																			
25 TO 30	0.15	62.7	0																			
30 TO 35	3.40	1487.1	0																			
ABOVE 35	7.96	3432.4	102																			
TOTAL	11.70	5067.1	102																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	17.3	31																			
1 TO 2	0.13	20.2	16																			
2 TO 5	0.32	74.6	23																			
5 TO 10	0.22	70.9	5																			
10 TO 15	0.10	61.3	0																			
15 TO 20	0.09	33.3	11																			
20 TO 25	0.12	45.4	0																			
25 TO 30	0.15	55.3	0																			
30 TO 35	0.21	89.4	0																			
ABOVE 35	1.06	440.4	0																			
TOTAL	2.97	914.3	66																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	17.3	31																			
1 TO 2	0.13	20.2	16																			
2 TO 5	0.32	74.6	23																			
5 TO 10	0.22	70.9	5																			
10 TO 15	0.10	61.3	0																			
15 TO 20	0.10	71.0	11																			
20 TO 25	0.23	91.0	0																			
25 TO 30	0.20	110.2	0																			
30 TO 35	3.07	1576.4	0																			
ABOVE 35	7.02	3070.9	102																			
TOTAL	14.36	5067.1	168																			

TABLE 286a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
WAKE AIRPORT, WAKE ISLAND
AND
CLARK AB, PHILIPPINES

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																			
1 TO 2	0.0	0.0	0																			
2 TO 5	0.0	0.0	0																			
5 TO 10	0.0	0.0	0																			
10 TO 15	0.0	0.0	0																			
15 TO 20	2.50	933.3	20																			
20 TO 25	3.65	1417.7	12																			
25 TO 30	11.30	4050.3	10																			
30 TO 35	33.36	2315.0	38																			
ABOVE 35	79.46	3593.7	157																			
TOTAL	149.03	65110.0	745																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.76	112.4	136																			
1 TO 2	0.72	139.6	141																			
2 TO 5	1.97	431.3	24																			
5 TO 10	2.37	695.0	98																			
10 TO 15	2.47	625.9	25																			
15 TO 20	0.25	90.0	5																			
20 TO 25	0.35	137.3	0																			
25 TO 30	0.42	179.1	6																			
30 TO 35	2.42	1397.0	86																			
ABOVE 35	3.32	1441.3	145																			
TOTAL	19.33	9123.6	800																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.76	122.4	136																			
1 TO 2	0.72	139.6	141																			
2 TO 5	1.97	431.3	240																			
5 TO 10	2.37	695.0	98																			
10 TO 15	2.47	625.9	25																			
15 TO 20	0.25	90.0	5																			
20 TO 25	0.42	179.1	12																			
25 TO 30	10.42	4197.4	24																			
30 TO 35	55.78	24208.2	624																			
ABOVE 35	62.70	37035.0	302																			
TOTAL	144.09	75231.2	1629																			

TABLE 286b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
WAKE AIRPORT, WAKE ISLAND
AND
CLARK AB, PHILIPPINES
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																			
1 TO 2	0.0	0.0	0																			
2 TO 5	0.0	0.0	0																			
5 TO 10	0.0	0.0	0																			
10 TO 15	0.0	0.0	0																			
15 TO 20	0.70	200.4	2																			
20 TO 25	1.31	506.0	1																			
25 TO 30	1.23	510.0	0																			
30 TO 35	15.11	6020.2	5																			
ABOVE 35	23.44	10970.4	12																			
TOTAL	41.88	18486.4	23																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.23	37.4	49																			
1 TO 2	0.24	41.0	70																			
2 TO 5	0.36	112.0	109																			
5 TO 10	0.71	210.4	24																			
10 TO 15	0.61	203.0	3																			
15 TO 20	0.0	0.0	0																			
20 TO 25	0.0	0.0	0																			
25 TO 30	0.0	0.0	0																			
30 TO 35	0.72	333.0	0																			
ABOVE 35	1.36	506.1	21																			
TOTAL	4.19	1537.0	272																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.23	37.4	49																			
1 TO 2	0.24	41.0	70																			
2 TO 5	0.36	112.0	109																			
5 TO 10	0.71	210.4	24																			
10 TO 15	0.61	203.0	3																			
15 TO 20	0.0	0.0	0																			
20 TO 25	0.0	0.0	0																			
25 TO 30	1.31	506.0	1																			
30 TO 35	1.23	510.0	0																			
ABOVE 35	15.84	6020.2	5																			
TOTAL	46.27	20025.4	292																			

TABLE D86g
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
WAKE AIRPORT, WAKE ISLAND
AND
CLARK AB, PHILIPPINES
FOR THE
MONTH OF MARCH

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.25	10.6	0																			
20 TO 25	0.35	20.0	0																			
25 TO 30	0.50	35.6	0																			
30 TO 35	0.50	36.2	0																			
ABOVE 35	3.24	1470.4	0																			
TOTAL	3.51	1506.9	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.3	0																			
1 TO 2	0.01	1.0	0																			
2 TO 5	0.32	6.3	2																			
5 TO 10	0.03	10.6	0																			
10 TO 15	0.03	17.2	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.13	38.4	2																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.3	0																			
1 TO 2	0.01	1.0	0																			
2 TO 5	0.32	6.3	2																			
5 TO 10	0.03	10.6	0																			
10 TO 15	0.03	17.2	0																			
15 TO 20	0.35	18.6	0																			
20 TO 25	0.35	20.0	0																			
25 TO 30	0.50	35.6	0																			
30 TO 35	0.50	36.2	0																			
ABOVE 35	3.24	1470.4	0																			
TOTAL	3.64	1619.3	2																			

TABLE D86h
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
WAKE AIRPORT, WAKE ISLAND
AND
CLARK AB, PHILIPPINES
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.30	106.3	0																			
20 TO 25	0.45	171.6	0																			
25 TO 30	0.23	96.5	0																			
30 TO 35	5.03	2317.0	7																			
ABOVE 35	5.29	2374.3	15								2	7	5	1								
TOTAL	12.11	5266.3	15								2	7	5	1								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	6.0	5																			
1 TO 2	0.36	9.9	13																			
2 TO 5	0.25	49.3	25																			
5 TO 10	0.29	73.3	10																			
10 TO 15	0.19	62.4	12																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	3.42	182.4	51								2	15	20	2	2							
TOTAL	1.24	383.3	116								2	1	6	20	54	16	4	3	1			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	6.0	5																			
1 TO 2	0.36	9.9	13																			
2 TO 5	0.25	49.3	25																			
5 TO 10	0.29	73.3	10																			
10 TO 15	0.19	62.4	12																			
15 TO 20	0.30	106.3	0																			
20 TO 25	0.45	171.6	0																			
25 TO 30	0.23	96.5	0																			
30 TO 35	5.03	2317.0	0																			
ABOVE 35	5.71	2556.7	66								2	1	4	22	33	3	2					
TOTAL	13.35	5649.6	131								2	1	8	36	59	17	4	3	1			

TABLE D244
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 WAKE AIRPORT, WAKE ISLAND
 AND
 CLARK AB, PHILIPPINES
 FOR THE
 MONTH OF DECEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.35	126.4	0																			
20 TO 25	0.40	109.3	0																			
25 TO 30	0.50	211.1	0																			
30 TO 35	3.99	1639.3	0																			
ABOVE 35	11.90	5179.3	12																			
TOTAL	16.43	7336.6	12																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	12.9	0																			
1 TO 2	0.13	21.6	20																			
2 TO 5	0.26	54.1	44																			
5 TO 10	0.37	106.6	16																			
10 TO 15	0.20	93.6	3																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.72	335.9	0																			
ABOVE 35	1.36	900.1	21																			
TOTAL	3.20	1220.3	120																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	12.9	0																			
1 TO 2	0.13	21.6	20																			
2 TO 5	0.26	54.1	44																			
5 TO 10	0.37	106.6	16																			
10 TO 15	0.20	93.6	3																			
15 TO 20	0.35	126.4	0																			
20 TO 25	0.40	109.3	0																			
25 TO 30	0.50	211.1	0																			
30 TO 35	4.32	1972.0	0																			
ABOVE 35	12.06	5700.6	33																			
TOTAL	19.63	6956.0	132																			

TABLE D273
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
NAKHE AIRPORT, NAKHE ISLAND
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.04	0.5	4																					
1 TO 2	0.06	0.9	0																					
2 TO 5	0.21	49.1	3																					
5 TO 10	0.23	66.0	2																					
10 TO 15	0.21	72.0	3																					
15 TO 20	0.26	95.0	3																					
20 TO 25	0.25	98.4	2																					
25 TO 30	0.34	143.0	2																					
30 TO 35	0.81	2546.1	1																					
ABOVE 35	9.53	4262.9	6																					
TOTAL	16.18	7686.2	7																					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.04	0.5	4																					
1 TO 2	0.06	0.9	2																					
2 TO 5	0.21	49.1	3																					
5 TO 10	0.23	66.0	2																					
10 TO 15	0.21	72.0	3																					
15 TO 20	0.26	95.0	3																					
20 TO 25	0.25	98.4	2																					
25 TO 30	0.34	143.0	2																					
30 TO 35	0.81	2546.1	1																					
ABOVE 35	9.53	4262.9	6																					
TOTAL	16.75	202.7	11																					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.04	0.5	4																					
1 TO 2	0.06	0.9	2																					
2 TO 5	0.21	49.1	3																					
5 TO 10	0.23	66.0	2																					
10 TO 15	0.21	72.0	3																					
15 TO 20	0.26	95.0	3																					
20 TO 25	0.25	98.4	2																					
25 TO 30	0.34	143.0	2																					
30 TO 35	0.81	2546.1	1																					
ABOVE 35	9.53	4262.9	6																					
TOTAL	16.93	7286.9	19																					

TABLE D274
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
NAKHE AIRPORT, NAKHE ISLAND
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.04	0.5	0																					
1 TO 2	0.06	0.9	0																					
2 TO 5	0.21	49.1	0																					
5 TO 10	0.23	66.0	0																					
10 TO 15	0.21	72.0	0																					
15 TO 20	0.26	95.0	0																					
20 TO 25	0.25	98.4	0																					
25 TO 30	0.34	143.0	0																					
30 TO 35	2.63	1179.0	0																					
ABOVE 35	0.73	322.5	0																					
TOTAL	3.61	1593.0	0																					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.02	2.6	0																					
1 TO 2	0.01	1.0	1																					
2 TO 5	0.23	55.0	0																					
5 TO 10	0.23	66.0	0																					
10 TO 15	0.26	95.0	0																					
15 TO 20	0.26	95.0	0																					
20 TO 25	0.25	98.4	0																					
25 TO 30	0.34	143.0	0																					
30 TO 35	0.73	322.5	0																					
ABOVE 35	0.73	322.5	0																					
TOTAL	3.19	95.2	9																					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																				
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.02	2.6	0																					
1 TO 2	0.01	1.0	1																					
2 TO 5	0.23	55.0	0																					
5 TO 10	0.23	66.0	0																					
10 TO 15	0.26	95.0	0																					
15 TO 20	0.26	95.0	0																					
20 TO 25	0.25	98.4	0																					
25 TO 30	0.34	143.0	0																					
30 TO 35	2.63	1179.0	0																					
ABOVE 35	0.73	322.5	0																					
TOTAL	3.00	1648.1	9																					

TABLE D27
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
NAKAE AIRPORT, NAKAE ISLAND
AND
SAIGON, TAN SON NHUT A/P, VIETNAM
FOR THE
MONTH OF APRIL

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.	3.	0																			
1 TO 2	3.	3.	0																			
2 TO 5	0.	3.	0																			
5 TO 10	0.	3.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.36	21.1	0																			
20 TO 25	0.46	22.5	0																			
25 TO 30	0.29	17.0	0																			
30 TO 35	3.22	1266.7	0																			
ABOVE 35	0.77	330.0	0																			
TOTAL	4.03	1499.0	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.31	1.3	0																			
1 TO 2	0.22	3.7	0																			
2 TO 5	0.02	0.9	0																			
5 TO 10	0.34	12.9	0																			
10 TO 15	0.35	17.1	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.14	41.9	0																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.31	1.3	0																			
1 TO 2	0.22	3.7	0																			
2 TO 5	0.02	0.9	0																			
5 TO 10	0.4	12.9	0																			
10 TO 15	0.35	17.1	0																			
15 TO 20	0.36	21.1	0																			
20 TO 25	0.36	22.5	0																			
25 TO 30	0.29	17.0	0																			
30 TO 35	3.02	1266.7	0																			
ABOVE 35	0.77	330.0	0																			
TOTAL	4.14	1743.9	0																			

TABLE D27
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
NAKAE AIRPORT, NAKAE ISLAND
AND
SAIGON, TAN SON NHUT A/P, VIETNAM
FOR THE
MONTH OF MAY

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.23	73.9	0																			
20 TO 25	0.19	76.0	0																			
25 TO 30	0.23	109.9	0																			
30 TO 35	2.79	1299.4	0																			
ABOVE 35	0.75	3072.0	0																			
TOTAL	12.10	5507.2	7																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	9.2	4																			
1 TO 2	0.34	6.6	2																			
2 TO 5	3.10	30.1	3																			
5 TO 10	2.10	93.0	2																			
10 TO 15	0.16	95.0	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	6.61	190.0	11																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	9.2	4																			
1 TO 2	0.04	6.6	2																			
2 TO 5	0.10	30.1	3																			
5 TO 10	0.10	93.0	2																			
10 TO 15	0.16	95.0	0																			
15 TO 20	0.20	73.9	0																			
20 TO 25	0.19	76.0	0																			
25 TO 30	0.23	109.9	0																			
30 TO 35	2.79	1299.4	0																			
ABOVE 35	0.75	3072.0	0																			
TOTAL	12.70	5540.0	10																			

TABLE D004
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
ANDERSON AB, GUAM

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.79	201.4	5																			
20 TO 25	1.13	431.9	1																			
25 TO 30	3.03	1939.1	3																			
30 TO 35	13.94	6127.4	12																			
ABOVE 35	5.72	2001.5	3																			
TOTAL	24.12	10663.0	24																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.27	43.3	46																			
1 TO 2	0.69	106.9	69																			
2 TO 5	1.34	271.3	90																			
5 TO 10	0.87	234.0	64																			
10 TO 15	0.89	272.0	22																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.69	207.7	0																			
ABOVE 35	0.	0.	0																			
TOTAL	4.65	1222.0	291																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.27	43.3	46																			
1 TO 2	0.69	106.9	69																			
2 TO 5	1.34	271.3	90																			
5 TO 10	0.87	234.0	64																			
10 TO 15	0.89	272.0	22																			
15 TO 20	0.79	201.4	5																			
20 TO 25	1.13	431.9	1																			
25 TO 30	3.03	1939.1	3																			
30 TO 35	13.94	6127.4	12																			
ABOVE 35	5.72	2001.5	3																			
TOTAL	29.37	11066.4	319																			

TABLE D206
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
ANDERSON AB, GUAM
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.23	79.0	1																			
20 TO 25	0.42	194.1	1																			
25 TO 30	0.53	221.0	1																			
30 TO 35	3.03	1320.0	0																			
ABOVE 35	5.42	2444.0	3																			
TOTAL	9.63	4220.1	6																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	17.1	21																			
1 TO 2	0.27	43.0	24																			
2 TO 5	0.43	86.3	12																			
5 TO 10	0.30	76.2	10																			
10 TO 15	0.30	80.6	6																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.42	311.2	73																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	17.1	21																			
1 TO 2	0.27	43.0	24																			
2 TO 5	0.43	86.3	12																			
5 TO 10	0.30	76.2	10																			
10 TO 15	0.30	80.6	6																			
15 TO 20	0.23	79.0	1																			
20 TO 25	0.42	194.1	1																			
25 TO 30	0.53	221.0	1																			
30 TO 35	3.03	1320.0	0																			
ABOVE 35	5.42	2444.0	3																			
TOTAL	11.35	4539.3	79																			

TABLE D283
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
ANDERSON AB, GUAM
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.18	66.0	0																			
20 TO 25	0.19	75.3	0																			
25 TO 30	0.25	105.5	2																			
30 TO 35	0.10	2344.6	0																			
ABOVE 35	0.30	136.7	0																			
TOTAL	0.10	2726.0	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	8.6	3																			
1 TO 2	0.19	29.9	24																			
2 TO 5	0.60	116.2	50																			
5 TO 10	0.31	77.5	44																			
10 TO 15	0.25	83.6	19																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.41	313.5	144																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.06	8.6	3																			
1 TO 2	0.19	29.9	24																			
2 TO 5	0.69	116.2	50																			
5 TO 10	0.31	77.5	44																			
10 TO 15	0.25	83.6	19																			
15 TO 20	0.	0.	0																			
20 TO 25	0.19	75.3	0																			
25 TO 30	0.25	105.5	2																			
30 TO 35	0.10	2344.6	0																			
ABOVE 35	0.30	136.7	0																			
TOTAL	1.51	3042.3	152																			

TABLE D284
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
ANDERSON AB, GUAM
FOR THE
AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.37	135.0	0																			
20 TO 25	0.52	202.0	0																			
25 TO 30	3.05	1211.9	0																			
30 TO 35	5.34	2197.5	12																			
ABOVE 35	0.	0.	0																			
TOTAL	8.98	3736.7	12																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.69	16.3	22																			
1 TO 2	0.17	36.1	21																			
2 TO 5	0.30	75.0	20																			
5 TO 10	0.27	81.1	10																			
10 TO 15	0.29	99.0	1																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.69	297.7	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.02	598.0	74																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	16.3	22																			
1 TO 2	0.17	36.1	21																			
2 TO 5	0.30	75.0	20																			
5 TO 10	0.27	81.1	10																			
10 TO 15	0.29	99.0	1																			
15 TO 20	0.37	135.0	0																			
20 TO 25	0.52	202.0	0																			
25 TO 30	3.05	1211.9	0																			
30 TO 35	5.73	2499.0	12																			
ABOVE 35	0.	0.	0																			
TOTAL	10.00	4304.0	84																			

TABLE D88
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
ANDERSON AB, GUAM
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	3.	3																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.37	25.4	0																			
20 TO 25	0.24	86.0	0																			
25 TO 30	0.10	43.5	0																			
30 TO 35	0.15	64.9	0																			
ABOVE 35	2.72	1216.9	1																			
TOTAL	3.29	1436.6	1																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	1.3	14																			
1 TO 2	0.39	15.0	14																			
2 TO 5	0.23	44.3	11																			
5 TO 10	0.38	23.6	0																			
10 TO 15	0.06	23.0	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.94	113.2	39																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	16.3	14																			
1 TO 2	0.39	15.0	14																			
2 TO 5	0.23	44.3	11																			
5 TO 10	0.38	23.6	0																			
10 TO 15	0.06	23.0	0																			
15 TO 20	0.07	25.4	0																			
20 TO 25	0.24	86.0	0																			
25 TO 30	0.10	43.5	0																			
30 TO 35	0.15	64.9	0																			
ABOVE 35	2.72	1216.9	1																			
TOTAL	3.83	1540.9	40																			

TABLE D89
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
ANDERSON AB, GUAM
FOR THE
MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	3.	3																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.06	19.7	1																			
20 TO 25	0.08	22.0	1																			
25 TO 30	0.32	130.0	1																			
30 TO 35	0.10	43.0	0																			
ABOVE 35	2.69	1227.9	2																			
TOTAL	3.26	1660.2	5																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.05	3.8	0																			
2 TO 5	0.12	26.3	1																			
5 TO 10	0.15	31.7	0																			
10 TO 15	0.16	39.9	0																			
15 TO 20	0.06	19.7	1																			
20 TO 25	0.08	22.0	1																			
25 TO 30	0.32	130.0	1																			
30 TO 35	0.10	43.0	0																			
ABOVE 35	2.69	1227.9	2																			
TOTAL	6.45	95.0	21																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.05	3.8	0																			
2 TO 5	0.12	26.3	1																			
5 TO 10	0.15	31.7	0																			
10 TO 15	0.16	39.9	0																			
15 TO 20	0.06	19.7	1																			
20 TO 25	0.08	22.0	1																			
25 TO 30	0.32	130.0	1																			
30 TO 35	0.10	43.0	0																			
ABOVE 35	2.69	1227.9	2																			
TOTAL	3.71	1556.0	26																			

TABLE D28a
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 CLARK AB, PHILIPPINES
 AND
 ANDERSON AB, GUAM
 FOR THE
 MONTH OF JULY
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 15	0.	0.	0																			
15 TO 25	0.30	30.7	4																			
20 TO 25	0.00	32.0	4																			
25 TO 30	0.13	30.1	2																			
30 TO 35	2.45	1103.4	0																			
ABOVE 35	0.30	130.7	0																			
TOTAL	3.5	1359.9	6																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.25	7.3	2																			
2 TO 5	0.23	45.5	5																			
5 TO 15	0.11	30.5	0																			
15 TO 25	0.11	36.0	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.49	122.2	7																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.5	7.3	2																			
2 TO 5	0.23	45.5	5																			
5 TO 15	0.11	30.5	0																			
15 TO 25	0.11	36.0	0																			
20 TO 25	0.00	32.0	4																			
25 TO 30	0.13	30.1	2																			
30 TO 35	2.45	1103.4	0																			
ABOVE 35	0.30	130.7	0																			
TOTAL	3.94	1400.1	13																			

TABLE D28b
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 CLARK AB, PHILIPPINES
 AND
 ANDERSON AB, GUAM
 FOR THE
 MONTH OF AUGUST
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 15	0.	0.	0																			
15 TO 25	0.	0.	0																			
20 TO 25	0.10	36.2	0																			
25 TO 30	0.11	42.5	0																			
30 TO 35	0.12	49.4	0																			
ABOVE 35	2.73	1242.0	0																			
TOTAL	3.35	1368.9	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.36	6.4	3																			
1 TO 2	0.14	22.5	22																			
2 TO 5	0.37	60.7	53																			
5 TO 15	0.20	46.0	44																			
15 TO 25	0.14	46.0	15																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.92	193.3	137																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.14	22.5	22																			
2 TO 5	0.37	60.7	53																			
5 TO 15	0.20	46.0	44																			
15 TO 25	0.14	46.0	15																			
20 TO 25	0.10	36.2	0																			
25 TO 30	0.11	42.5	0																			
30 TO 35	0.12	49.4	0																			
ABOVE 35	2.73	1242.0	0																			
TOTAL	3.97	1562.2	137																			

TABLE D28
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
ANDERSON AB, GUAM
FOR THE
MONTH OF NOVEMBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 25	0.37	139.0	0																			
25 TO 35	0.82	292.4	0																			
35 TO 39	1.35	1211.9	0																			
39 TO 39	5.46	2187.3	12										5	7								
ABOVE 39	0.	0.	0																			
TOTAL	8.98	3786.7	12										5	7								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	14.5	22									1	5	6	4	5	1					
1 TO 2	0.17	34.1	21									4	4	11	2							
2 TO 5	0.30	72.0	24									1	5	10	3			1				
5 TO 15	0.27	81.1	10									1	3	6								
10 TO 15	0.29	99.0	1								1											
15 TO 25	0.	0.	0																			
25 TO 35	0.	0.	0																			
35 TO 39	0.69	297.7	0																			
ABOVE 39	0.	0.	0																			
TOTAL	1.62	598.0	74									2	11	18	31	10	1	1				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	14.5	22									1	5	6	4	5	1					
1 TO 2	0.17	34.1	21									4	4	11	2							
2 TO 5	0.30	72.0	24									1	5	10	3			1				
5 TO 15	0.27	81.1	10									1	3	6								
10 TO 15	0.29	99.0	1								1											
15 TO 25	0.37	139.0	0																			
25 TO 35	0.82	292.4	0																			
35 TO 39	1.35	1211.9	0																			
39 TO 39	5.73	2489.0	12										5	7								
ABOVE 39	0.	0.	0																			
TOTAL	10.62	4354.6	86									2	11	23	38	10	1	1				

TABLE D29
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
ANDERSON AB, GUAM
FOR THE
MONTH OF DECEMBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 25	0.10	39.5	0																			
20 TO 25	0.10	37.3	0																			
25 TO 35	0.10	39.2	0																			
35 TO 35	2.78	1219.3	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.08	1331.2	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	6.8	7									1	1	1	2	2						
1 TO 2	0.15	24.1	4												2	2						
2 TO 5	0.30	21.7	0																			
5 TO 10	0.36	23.8	2										1	1								
10 TO 15	0.38	28.8	0																			
15 TO 25	0.	0.	0																			
25 TO 35	0.	0.	0																			
35 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.43	102.3	13									1	2	4	4	2						

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.39	6.8	7									1	1	1	2	2						
1 TO 2	0.15	24.1	4												2	2						
2 TO 5	0.30	21.7	0																			
5 TO 15	0.36	23.8	2										1	1								
10 TO 15	0.38	28.8	0																			
15 TO 25	0.10	39.5	0																			
20 TO 25	0.10	37.3	0																			
25 TO 35	0.10	39.2	0																			
35 TO 35	2.78	1219.3	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.51	1433.5	13									1	2	4	4	2						

TABLE D89
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	2.09	730.9	7										2	5								
20 TO 25	6.09	2069.4	100									4	27	67	9	2						
25 TO 30	13.04	5029.4	92									4	27	67	12	2						
30 TO 35	31.26	13726.9	266									1	8	14	70	129	15	17	2	3		
ABOVE 35	32.25	14533.2	236									2	2	16	88	108	16	3	1			1
TOTAL	86.74	37495.7	737									1	1	7	11	38	212	353	52	24	3	4

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.47	68.1	54										2	12	15	10	7	5	2	1		
1 TO 2	1.16	180.7	130										4	27	33	47	17	9				
2 TO 5	2.09	490.4	282										2	4	5	27	74	106	42	15	3	4
5 TO 10	1.76	501.2	137										2	11	43	46	19	8	7			
10 TO 15	2.10	683.6	62										1	1	2	2	22	21	6	1	1	3
15 TO 20	0.30	27.2	0																			
20 TO 25	0.38	28.2	0																			
25 TO 30	0.17	51.7	0																			
30 TO 35	0.55	234.9	1																			
ABOVE 35	0	0	0																			
TOTAL	8.87	2265.9	667																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.47	68.1	54										2	12	15	10	7	5	2	1		
1 TO 2	1.16	180.7	130										4	27	33	47	17	9				
2 TO 5	2.09	492.4	282										2	4	5	27	74	106	42	15	3	4
5 TO 10	1.76	501.2	137										2	10	43	46	19	8	2			
10 TO 15	2.10	683.6	62										1	1	2	2	22	21	6	1	1	3
15 TO 20	2.18	766.2	7																			
20 TO 25	6.77	2697.5	100																			
25 TO 30	13.61	5081.1	92																			
30 TO 35	31.81	13959.3	265																			
ABOVE 35	32.25	14533.2	236																			
TOTAL	86.61	37761.2	1374																			

TABLE D89
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.67	235.0	0																			
20 TO 25	1.34	535.0	19																			
25 TO 30	4.18	1662.2	0																			
30 TO 35	6.73	327.7	1																			
ABOVE 35	9.38	2438.6	1																			
TOTAL	12.30	5399.4	21																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.35	7.0	0																			
1 TO 2	0.27	39.4	45																			
2 TO 5	0.61	112.0	45																			
5 TO 10	0.24	68.4	4																			
10 TO 15	0.73	244.3	18																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	1.90	671.9	126																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.35	7.0	0																			
1 TO 2	0.27	39.4	45																			
2 TO 5	0.61	112.0	45																			
5 TO 10	0.24	68.4	4																			
10 TO 15	0.73	244.3	18																			
15 TO 20	0.67	235.0	0																			
20 TO 25	1.34	535.0	19																			
25 TO 30	4.18	1662.2	0																			
30 TO 35	6.73	327.7	1																			
ABOVE 35	9.38	2438.6	1																			
TOTAL	14.20	5871.5	141																			

TABLE D89a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.92	191.2	1																			
20 TO 25	2.35	920.3	6																			
25 TO 30	7.50	3242.3	57																			
30 TO 35	9.56	4303.3	69																			
ABOVE 35	13.48	6159.9	20																			
TOTAL	33.42	14973.1	193																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	24.3	23																			
1 TO 2	0.33	92.9	97																			
2 TO 5	0.70	155.9	113																			
5 TO 10	0.91	144.9	64																			
10 TO 15	0.97	182.4	9																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.36	560.3	266																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	24.3	23																			
1 TO 2	0.33	92.9	97																			
2 TO 5	0.70	155.9	113																			
5 TO 10	0.91	144.9	64																			
10 TO 15	0.97	182.4	9																			
15 TO 20	0.92	191.2	1																			
20 TO 25	2.35	920.3	6																			
25 TO 30	7.50	3242.3	57																			
30 TO 35	9.56	4303.3	69																			
ABOVE 35	13.48	6159.9	20																			
TOTAL	35.79	15393.1	419																			

TABLE D89b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.42	149.3	5																			
20 TO 25	2.36	908.0	81																			
25 TO 30	6.90	296.4	7																			
30 TO 35	9.70	2997.2	47																			
ABOVE 35	9.37	4181.7	195																			
TOTAL	19.17	8102.9	335																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	11.9	13																			
1 TO 2	0.21	39.0	10																			
2 TO 5	0.60	129.9	53																			
5 TO 10	0.94	160.1	16																			
10 TO 15	0.40	133.0	3																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.63	462.4	97																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	11.9	10																			
1 TO 2	0.21	39.0	10																			
2 TO 5	0.60	129.9	50																			
5 TO 10	0.94	160.1	16																			
10 TO 15	0.40	133.0	3																			
15 TO 20	0.42	149.3	5																			
20 TO 25	2.36	908.0	81																			
25 TO 30	6.90	296.4	7																			
30 TO 35	9.70	2997.2	47																			
ABOVE 35	9.37	4181.7	195																			
TOTAL	20.35	8965.3	452																			

TABLE DDW
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.47	163.3	1																			
20 TO 25	0.43	227.2	2																			
25 TO 30	1.17	488.4	20																			
30 TO 35	13.19	6326.3	147																			
ABOVE 35	4.92	1732.9	20																			
TOTAL	21.46	9146.3	190																			

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	25.2	13																			
1 TO 2	0.36	54.6	10																			
2 TO 5	0.30	90.7	74																			
5 TO 10	0.47	127.0	44																			
10 TO 15	0.40	123.0	32																			
15 TO 20	0.09	27.2	0																			
20 TO 25	0.06	28.2	0																			
25 TO 30	0.17	51.7	0																			
30 TO 35	0.55	254.5	1																			
ABOVE 35	0.	0.	0																			
TOTAL	1.70	771.2	104																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	25.2	13																			
1 TO 2	0.36	54.6	10																			
2 TO 5	0.30	90.7	74																			
5 TO 10	0.47	127.0	44																			
10 TO 15	0.40	123.0	32																			
15 TO 20	0.56	190.5	1																			
20 TO 25	0.72	255.4	2																			
25 TO 30	1.33	532.1	20																			
30 TO 35	15.74	4771.0	140																			
ABOVE 35	4.92	1732.9	20																			
TOTAL	24.26	9331.3	382																			

TABLE DDW
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.40	149.7	0																			
20 TO 25	0.30	104.6	16																			
25 TO 30	2.49	1108.6	0																			
30 TO 35	0.24	100.9	1																			
ABOVE 35	2.77	1209.7	1																			
TOTAL	6.50	2643.0	10																			

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.0	0																			
1 TO 2	0.12	17.0	22																			
2 TO 5	0.23	42.4	20																			
5 TO 10	0.11	32.5	3																			
10 TO 15	0.32	170.3	16																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.04	270.1	70																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	7.0	0																			
1 TO 2	0.12	17.0	22																			
2 TO 5	0.23	42.4	20																			
5 TO 10	0.11	32.5	3																			
10 TO 15	0.32	170.3	16																			
15 TO 20	0.49	169.7	0																			
20 TO 25	0.30	104.6	16																			
25 TO 30	2.49	1108.6	0																			
30 TO 35	0.24	100.9	1																			
ABOVE 35	2.77	1209.7	1																			
TOTAL	7.53	3121.9	66																			

TABLE D29
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	34.9	0																			
20 TO 25	0.95	396.1	3										2	1								
25 TO 30	1.37	624.2	0																			
30 TO 35	0.20	126.9	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.70	1182.1	3										2	1								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.10	34.9	19									1	6	9	2	1						
2 TO 5	0.22	41.1	9									4	5									
5 TO 10	0.37	17.6	1									1										
10 TO 15	0.14	43.0	2									2										
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.53	118.9	31									1	13	14	2	1						

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.10	34.9	19									1	6	9	2	1						
2 TO 5	0.22	41.1	9									4	5									
5 TO 10	0.37	17.6	1									1										
10 TO 15	0.14	43.0	2									2										
15 TO 20	0.10	34.9	0																			
20 TO 25	0.95	396.1	3									2	1									
25 TO 30	1.37	624.2	0																			
30 TO 35	0.20	126.9	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.23	1301.0	34									1	15	15	2	1						

TABLE D29
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF MARCH

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.29	106.2	1									1										
20 TO 25	1.99	788.4	30									4	4	1	1							
25 TO 30	4.25	1831.4	60									0	7	0	5	4						
30 TO 35	6.25	2610.9	99									1	2	2	7	15	10	3	10			1
ABOVE 35	10.75	4954.8	15												4	4	2					
TOTAL	23.54	10931.0	112									1	2	3	10	30	44	9	11			1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	35.4	11																			
1 TO 2	0.20	32.3	32																			
2 TO 5	0.92	182.9	66																			
5 TO 10	0.31	85.3	44																			
10 TO 15	0.34	106.0	7																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.66	341.6	159									1	1	2	20	39	54	22	0	3	1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	35.4	11																			
1 TO 2	0.20	32.3	32																			
2 TO 5	0.92	182.3	66																			
5 TO 10	0.31	85.3	44																			
10 TO 15	0.34	106.0	7																			
15 TO 20	0.29	106.2	1																			
20 TO 25	1.99	788.4	6																			
25 TO 30	4.25	1831.4	30																			
30 TO 35	6.25	2610.9	99																			
ABOVE 35	10.75	4954.8	10																			
TOTAL	23.52	10943.6	271									2	3	5	30	69	90	31	19	3	2	1

TABLE D29
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	3.11	39.3	0																			
20 TO 25	0.29	35.9	0																			
25 TO 30	2.98	1292.9	19											7	11	1						
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.10	1368.2	19											7	11	1						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.4	5.0	0																			
1 TO 2	6.37	11.1	17											1	4	5	5	1	1			
2 TO 5	0.10	22.9	17											2	5	5	3	2				
5 TO 10	0.20	24.0	14												1	7	4					
10 TO 15	0.12	37.7	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.41	103.8	48											1	6	17	17	8	3			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.4	5.0	0																			
1 TO 2	6.77	11.1	17											1	4	5	5	1	1			
2 TO 5	0.10	22.9	17											2	5	5	3	2				
5 TO 10	0.20	24.0	14												1	7	4					
10 TO 15	0.12	37.7	0																			
15 TO 20	0.11	39.3	0																			
20 TO 25	0.29	35.9	0																			
25 TO 30	2.98	1292.9	19											7	11	1						
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.59	1468.8	67											1	6	20	20	9	3			

TABLE D30
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.12	43.7	0																			
20 TO 25	0.27	114.0	2											2								
25 TO 30	0.27	116.0	0																			
30 TO 35	3.31	1404.5	10											1	5	4	1					
ABOVE 35	2.73	1295.1	10											1	5	4	1					
TOTAL	6.73	2963.3	22											1	12	8	1					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	4.0	12											1	2	1	2	3	1	1	1	
1 TO 2	0.29	9.3	8											1	1	2	3	1				
2 TO 5	0.19	30.3	31											2	7	14	6	2				
5 TO 10	0.12	35.4	6											4	1	1						
10 TO 15	0.12	38.7	2											1		1						
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.47	117.7	59											2	5	15	20	12	3	1	1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	UDE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.32	4.0	12											1	2	1	2	3	1	1	1	
1 TO 2	0.39	9.3	8											1	1	2	3	1				
2 TO 5	0.19	30.3	31											2	7	14	6	2				
5 TO 10	0.12	35.4	6											4	1	1						
10 TO 15	0.12	38.7	2											1		1						
15 TO 20	0.12	43.7	0																			
20 TO 25	0.27	114.0	2											2								
25 TO 30	0.27	116.0	0																			
30 TO 35	3.31	1404.5	10											1	5	4	1					
ABOVE 35	2.73	1295.1	10											1	5	4	1					
TOTAL	7.17	3063.9	61											2	6	27	28	13	3	1	1	

TABLE D29a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF JUNE
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.04	0.0	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.30	31.9	0																			
20 TO 25	0.36	23.9	0																			
25 TO 30	0.11	47.3	0																			
30 TO 35	0.37	34.1	0																			
ABOVE 35	3.19	1491.6	36								2	1	1	10	19	3						
TOTAL	3.47	1620.9	36								2	1	1	10	19	3						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	3.7	7																			
1 TO 2	0.04	0.0	7																			
2 TO 5	0.13	27.7	15								1	2	1	2	1	1						
5 TO 10	0.37	22.9	0								1	4	7	3								
10 TO 15	0.30	29.1	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.33	86.3	22								1	2	5	9	4	1						

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	3.7	7																			
1 TO 2	0.04	0.0	7																			
2 TO 5	0.13	27.7	15								1	2	1	2	1	1						
5 TO 10	0.37	22.9	0								1	4	7	3								
10 TO 15	0.30	29.1	0																			
15 TO 20	0.30	31.9	0																			
20 TO 25	0.06	23.9	0																			
25 TO 30	0.11	47.3	0																			
30 TO 35	0.37	34.1	0																			
ABOVE 35	3.19	1491.6	36								2	1	1	10	19	3						
TOTAL	3.81	1715.2	58								2	2	3	15	28	7	1					

TABLE D29b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF JULY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.23	82.1	2										1	1								
20 TO 25	2.25	959.9	78									3	15	51	0	1						
25 TO 30	0.37	151.5	7									3	4									
30 TO 35	4.24	1004.2	41									3	4	11	15	3	4					1
ABOVE 35	4.19	1815.7	156									1	13	59	69	11	2	1				
TOTAL	11.23	4839.4	284									4	20	89	140	22	7	1	1			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	3.7	13																			
1 TO 2	0.11	16.3	11																			
2 TO 5	0.42	83.1	23																			
5 TO 10	0.36	106.6	3																			
10 TO 15	0.21	68.5	2																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.17	288.9	49										1	5	14	13	9	5	2			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	3.7	13																			
1 TO 2	0.11	16.3	11																			
2 TO 5	0.42	83.1	23																			
5 TO 10	0.36	106.6	3																			
10 TO 15	0.21	68.5	2																			
15 TO 20	0.23	82.1	2																			
20 TO 25	2.20	905.9	78																			
25 TO 30	0.37	151.5	7																			
30 TO 35	4.24	1004.2	41																			
ABOVE 35	4.19	1815.7	156																			
TOTAL	12.41	5126.2	333										5	25	103	153	31	12	3	1		

ADMINISTRATIVE RECORD OF OBSERVATIONS MADE WHILE ENROUTE
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF SEPTEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.00	0.0	0																			
5 TO 10	0.10	20.4	1																			
10 TO 15	0.10	20.4	1																			
15 TO 20	0.10	20.4	1																			
20 TO 25	0.12	27.6	1																			
25 TO 30	1.07	650.9	0																			
ABOVE 30	2.00	874.4	3																			
TOTAL	3.32	1094.0	15																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.00	13.1	12																			
5 TO 10	0.10	20.7	13																			
10 TO 15	0.11	25.4	1																			
15 TO 20	0.10	20.4	1																			
20 TO 25	0.10	20.4	1																			
25 TO 30	0.10	20.4	1																			
30 TO 35	1.07	650.9	0																			
ABOVE 35	2.00	874.4	3																			
TOTAL	3.32	874.4	26																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.00	13.1	12																			
5 TO 10	0.10	20.7	13																			
10 TO 15	0.11	25.4	1																			
15 TO 20	0.10	20.4	1																			
20 TO 25	0.10	20.4	1																			
25 TO 30	0.10	20.4	1																			
30 TO 35	1.07	650.9	0																			
ABOVE 35	2.00	874.4	3																			
TOTAL	4.14	1721.0	41																			

TABLE FOR
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF SEPTEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.00	0.0	0																			
5 TO 10	0.00	0.0	0																			
10 TO 15	0.00	0.0	0																			
15 TO 20	0.21	77.1	0																			
20 TO 25	0.10	20.4	1																			
25 TO 30	0.20	40.8	20																			
30 TO 35	7.40	312.0	134																			
ABOVE 35	0.00	0.0	0																			
TOTAL	8.10	3433.7	165																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.12	18.2	0																			
2 TO 5	0.15	22.7	25																			
5 TO 10	0.20	40.8	12																			
10 TO 15	0.12	21.2	4																			
15 TO 20	0.00	0.0	0																			
20 TO 25	0.00	0.0	0																			
25 TO 30	0.00	0.0	0																			
30 TO 35	0.00	0.0	0																			
ABOVE 35	0.00	0.0	0																			
TOTAL	0.60	140.6	54																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	0.0	0																			
1 TO 2	0.12	18.2	0																			
2 TO 5	0.15	22.7	25																			
5 TO 10	0.20	40.8	12																			
10 TO 15	0.12	21.2	4																			
15 TO 20	0.21	77.1	0																			
20 TO 25	0.20	40.8	1																			
25 TO 30	0.20	40.8	20																			
30 TO 35	7.40	312.0	134																			
ABOVE 35	0.00	0.0	0																			
TOTAL	8.70	3574.3	219																			

TABLE D29a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF OCTOBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	J.	0																				
1 TO 2	0.	J.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	J.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.12	34.7	1																				
20 TO 25	0.35	115.9	1																				
25 TO 30	0.55	234.3	0																				
30 TO 35	2.79	1217.5	0																				
ABOVE 35	3.60	1566.1	20								1	0	10		1								
TOTAL	7.41	3168.5	22								1	0	12		1								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	3.9	1																				
1 TO 2	0.09	13.0	13																				
2 TO 5	0.26	45.7	20																				
5 TO 10	0.15	40.1	23																				
10 TO 15	0.13	37.2	23																				
15 TO 20	0.35	115.9	0			1	1			2	2		3	0	3	1	1						
20 TO 25	0.06	22.3	0																				
25 TO 30	0.33	11.5	0																				
30 TO 35	0.	J.	0																				
ABOVE 35	0.	J.	0																				
TOTAL	0.80	191.8	88			1	1			1	3	3	0	25	23	14	4	1	4				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	3.9	1																				
1 TO 2	0.09	13.0	13																				
2 TO 5	0.26	45.7	24																				
5 TO 10	0.15	42.1	23																				
10 TO 15	0.13	37.2	23																				
15 TO 20	0.17	52.0	1			1	1			2	2		3	6	0	7	1						
20 TO 25	0.40	136.2	1																				
25 TO 30	0.58	245.7	0																				
30 TO 35	2.79	1217.5	0																				
ABOVE 35	3.60	1566.1	24																				
TOTAL	8.21	3368.3	110			1	1			1	3	3	9	33	35	14	5	1	4				

TABLE D29b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
YOKOTA AB, JAPAN
FOR THE
MONTH OF NOVEMBER
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	J.	0																				
1 TO 2	0.	J.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	J.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.16	51.5	0																				
20 TO 25	0.13	49.7	0																				
25 TO 30	0.25	105.9	0																				
30 TO 35	0.10	2166.1	11																				
ABOVE 35	0.37	165.0	0																				
TOTAL	5.89	2558.1	11																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	13.7	11																				
1 TO 2	0.16	23.3	5																				
2 TO 5	0.30	19.0	11																				
5 TO 10	0.10	46.9	11																				
10 TO 15	0.16	45.4	3																				
15 TO 20	0.24	9.1	0																				
20 TO 25	0.02	5.9	0																				
25 TO 30	0.16	42.2	0																				
30 TO 35	0.55	234.5	1																				
ABOVE 35	0.	J.	0																				
TOTAL	1.40	438.7	42																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	13.7	11																				
1 TO 2	0.16	23.3	5																				
2 TO 5	0.09	19.0	11																				
5 TO 10	0.10	46.9	11																				
10 TO 15	0.16	45.4	3																				
15 TO 20	0.10	63.5	0																				
20 TO 25	0.15	55.5	0																				
25 TO 30	0.30	105.9	0																				
30 TO 35	0.55	2422.4	12																				
ABOVE 35	0.37	165.0	0																				
TOTAL	7.20	2996.8	53																				

TABLE 209
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 CLARK AB, PHILIPPINES
 AND
 YOKOTA AB, JAPAN
 FOR THE
 MONTH OF DECEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.06	30.6	0																				
20 TO 25	0.08	32.9	0																				
25 TO 30	0.12	49.6	0																				
30 TO 35	4.21	91.9	0																				
ABOVE 35	2.62	1100.9	0																				
TOTAL	3.11	1373.0	0																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.04	5.0	4																				
2 TO 5	0.16	29.3	7																				
5 TO 10	0.06	16.3	0																				
10 TO 15	0.07	22.3	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.33	70.9	11																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.04	5.0	4																				
2 TO 5	0.16	29.3	7																				
5 TO 10	0.06	16.3	0																				
10 TO 15	0.07	22.3	0																				
15 TO 20	0.06	6.6	0																				
20 TO 25	0.08	32.9	0																				
25 TO 30	0.12	49.6	0																				
30 TO 35	0.21	91.9	0																				
ABOVE 35	2.62	1100.9	0																				
TOTAL	3.44	1440.4	11																				

TABLE D98
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT A/D, VIETNAM

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	3.01	1373.3	23																			
20 TO 25	6.40	2529.9	20																			
25 TO 30	14.27	6200.5	42																			
30 TO 35	24.79	10092.6	26																			
ABOVE 35	16.96	7735.0	39																			
TOTAL	66.31	28990.0	150																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.50	84.3	135																			
1 TO 2	1.10	106.7	229																			
2 TO 5	3.57	702.0	192																			
5 TO 10	3.94	1019.2	195																			
10 TO 15	2.00	933.7	102																			
15 TO 20	0.02	3.0	1																			
20 TO 25	0.02	3.3	0																			
25 TO 30	0.06	23.2	1																			
30 TO 35	1.35	588.7	65																			
ABOVE 35	0.	0.	0																			
TOTAL	13.60	3551.7	1119																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.50	84.3	135																			
1 TO 2	1.10	106.7	229																			
2 TO 5	3.57	702.0	192																			
5 TO 10	3.94	1019.2	195																			
10 TO 15	2.00	933.7	102																			
15 TO 20	3.82	1306.1	23																			
20 TO 25	6.50	2535.1	20																			
25 TO 30	14.34	6009.6	43																			
30 TO 35	26.14	11481.3	91																			
ABOVE 35	16.96	7735.0	39																			
TOTAL	79.91	32153.6	1277																			

TABLE D99
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	1.09	396.7	2																			
20 TO 25	3.16	1279.9	2																			
25 TO 30	5.00	2190.2	1																			
30 TO 35	8.84	3941.5	0																			
ABOVE 35	3.62	1641.7	0																			
TOTAL	21.00	9458.0	13																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.23	31.5	77																			
1 TO 2	0.33	51.0	65																			
2 TO 5	0.91	191.5	130																			
5 TO 10	1.09	292.8	20																			
10 TO 15	1.30	339.5	32																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.63	966.3	344																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.22	31.5	77																			
1 TO 2	0.33	51.0	65																			
2 TO 5	0.91	191.5	130																			
5 TO 10	1.30	292.8	20																			
10 TO 15	1.36	339.5	32																			
15 TO 20	1.09	396.7	2																			
20 TO 25	3.16	1279.9	2																			
25 TO 30	5.00	2190.2	1																			
30 TO 35	8.84	3941.5	0																			
ABOVE 35	3.62	1641.7	0																			
TOTAL	25.42	10364.3	357																			

TABLE D003
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	1.35	513.6	3																			
20 TO 25	1.51	550.6	2																			
25 TO 30	2.99	1293.6	5																			
30 TO 35	3.02	1083.0	3																			
ABOVE 35	10.56	4061.7	10																			
TOTAL	2.26	8911.1	31																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	18.2	12																			
1 TO 2	1.35	513.6	66																			
2 TO 5	1.27	242.1	195																			
5 TO 10	1.60	416.0	195																			
10 TO 15	0.60	217.2	24																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	4.37	944.9	452																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.13	18.2	12																			
1 TO 2	1.35	513.6	66																			
2 TO 5	1.27	242.1	195																			
5 TO 10	1.60	416.0	195																			
10 TO 15	0.60	217.2	24																			
15 TO 20	1.35	513.6	3																			
20 TO 25	1.51	550.6	2																			
25 TO 30	2.99	1293.6	5																			
30 TO 35	3.02	1083.0	3																			
ABOVE 35	10.56	4061.7	10																			
TOTAL	24.31	9855.6	483																			

TABLE D004
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.37	124.0	11																			
20 TO 25	0.66	249.7	6																			
25 TO 30	0.47	197.1	4																			
30 TO 35	3.34	1576.1	2																			
ABOVE 35	2.77	1232.3	21																			
TOTAL	7.01	3370.9	44																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	8.4	1																			
1 TO 2	0.11	10.9	5																			
2 TO 5	0.45	87.1	16																			
5 TO 10	0.30	96.0	9																			
10 TO 15	0.44	143.1	42																			
15 TO 20	0.37	124.0	11																			
20 TO 25	0.66	249.7	6																			
25 TO 30	0.47	197.1	4																			
30 TO 35	3.34	1576.1	2																			
ABOVE 35	2.77	1232.3	21																			
TOTAL	1.45	353.0	73																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	8.4	1																			
1 TO 2	0.11	10.9	5																			
2 TO 5	0.45	87.1	16																			
5 TO 10	0.30	96.0	9																			
10 TO 15	0.44	143.1	42																			
15 TO 20	0.37	124.0	11																			
20 TO 25	0.66	249.7	6																			
25 TO 30	0.47	197.1	4																			
30 TO 35	3.34	1576.1	2																			
ABOVE 35	2.77	1232.3	21																			
TOTAL	9.10	3732.0	117																			

TABLE D300
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
AUTUMN SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.99	349.2	7																			
20 TO 25	1.15	442.9	18																			
25 TO 30	5.74	2371.6	32																			
30 TO 35	8.99	3691.2	13																			
ABOVE 35	0.	0.	0																			
TOTAL	16.47	6850.9	70																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	26.2	45																			
1 TO 2	0.40	66.5	73																			
2 TO 5	0.93	182.1	51																			
5 TO 10	0.78	213.6	11																			
10 TO 15	3.72	233.9	4																			
15 TO 20	0.02	9.8	0																			
20 TO 25	0.02	9.3	0																			
25 TO 30	0.36	29.2	1																			
30 TO 35	1.35	580.7	65																			
ABOVE 35	0.	0.	0																			
TOTAL	4.45	1347.2	250																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	26.2	45																			
1 TO 2	0.40	66.5	73																			
2 TO 5	0.93	182.1	51																			
5 TO 10	0.78	213.6	11																			
10 TO 15	0.72	233.9	4																			
15 TO 20	1.01	351.0	7																			
20 TO 25	1.17	448.1	18																			
25 TO 30	5.80	2396.0	33																			
30 TO 35	9.93	4279.9	78																			
ABOVE 35	0.	0.	0																			
TOTAL	20.92	8199.1	320																			

TABLE D301
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF JANUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.34	126.4	0																			
20 TO 25	0.74	296.6	0																			
25 TO 30	1.73	735.8	0																			
30 TO 35	3.24	1427.5	0																			
ABOVE 35	1.84	836.7	0																			
TOTAL	7.90	3423.3	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	26.2	9																			
1 TO 2	0.16	24.5	37																			
2 TO 5	0.26	59.0	47																			
5 TO 10	0.29	83.4	5																			
10 TO 15	3.27	92.1	3																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.06	269.5	101																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	26.2	9																			
1 TO 2	0.16	24.5	37																			
2 TO 5	0.26	59.0	47																			
5 TO 10	0.29	83.4	5																			
10 TO 15	3.27	92.1	3																			
15 TO 20	0.34	126.4	0																			
20 TO 25	0.74	296.6	0																			
25 TO 30	1.73	735.8	0																			
30 TO 35	3.24	1427.5	0																			
ABOVE 35	1.84	836.7	0																			
TOTAL	8.96	3692.5	131																			

TABLE D998
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT A/B, VIETNAM
FOR THE
MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.38	30.0	0																			
20 TO 25	0.15	99.2	0																			
25 TO 30	1.00	790.3	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.33	879.5	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.0	17																			
1 TO 2	0.02	3.7	14																			
2 TO 5	0.10	19.1	24																			
5 TO 10	0.07	17.7	0																			
10 TO 15	0.07	21.4	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.28	64.9	55								4	5	12	15	14	4	1					

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.0	17																			
1 TO 2	0.02	3.7	14																			
2 TO 5	0.10	19.1	24																			
5 TO 10	0.07	17.7	0																			
10 TO 15	0.07	21.4	0																			
15 TO 20	0.00	30.0	0																			
20 TO 25	0.15	99.2	0																			
25 TO 30	1.00	790.3	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.31	944.4	55								4	5	12	15	14	4	1					

TABLE D999
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT A/B, VIETNAM
FOR THE
MONTH OF MARCH

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.00	313.4	1																			
20 TO 25	0.52	209.9	0																			
25 TO 30	0.20	85.4	0																			
30 TO 35	0.19	85.0	0																			
ABOVE 35	2.40	1111.9	0																			
TOTAL	4.12	1875.5	1																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	4.7	0																			
1 TO 2	0.10	14.1	30																			
2 TO 5	0.07	89.1	114																			
5 TO 10	0.00	149.0	40																			
10 TO 15	0.10	34.5	1																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.39	311.4	235								1	2	5	21	57	70	33	7	2	1	1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	4.7	0																			
1 TO 2	0.10	14.1	30																			
2 TO 5	0.07	89.1	114																			
5 TO 10	0.00	149.0	40																			
10 TO 15	0.10	34.5	1																			
15 TO 20	0.00	313.4	1																			
20 TO 25	0.52	209.9	0																			
25 TO 30	0.20	85.4	0																			
30 TO 35	0.19	85.0	0																			
ABOVE 35	2.40	1111.9	0																			
TOTAL	5.51	2116.9	206								1	2	5	21	57	79	30	7	2	1	1	

TABLE D01
DISTRIBUTIONS OF OBSERVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SALON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF APRIL
NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.31	111.0	0																			
20 TO 25	0.73	245.6	1																			
25 TO 30	2.00	1000.0	3																			
30 TO 35	3.26	1439.7	0																			
ABOVE 35	3.32	1342.4	0																			
TOTAL	10.12	4432.2	4																			

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	11.2	4																			
1 TO 2	0.13	20.6	23																			
2 TO 5	0.33	104.3	69																			
5 TO 10	0.64	193.9	104																			
10 TO 15	0.33	104.3	15																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.71	394.0	219																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	11.2	4																			
1 TO 2	0.13	20.6	23																			
2 TO 5	0.33	104.3	69																			
5 TO 10	0.64	193.9	104																			
10 TO 15	0.33	104.3	15																			
15 TO 20	0.31	111.0	0																			
20 TO 25	0.73	245.6	1																			
25 TO 30	2.00	1000.0	3																			
30 TO 35	3.26	1439.7	0																			
ABOVE 35	3.32	1342.4	0																			
TOTAL	11.03	4816.2	219																			

TABLE D02
DISTRIBUTIONS OF OBSERVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SALON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF MAY
NON-STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.24	89.2	2																			
20 TO 25	0.20	102.0	1																			
25 TO 30	0.29	124.6	2																			
30 TO 35	0.36	159.2	3																			
ABOVE 35	0.84	2207.4	10																			
TOTAL	0.80	2683.4	26																			

STORM CONDITIONS

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.32	2.2	0																			
1 TO 2	0.10	15.5	10																			
2 TO 5	0.20	66.7	12																			
5 TO 10	0.30	94.3	2																			
10 TO 15	0.23	70.4	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.90	299.2	32																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT.)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.32	2.2	0																			
1 TO 2	0.10	15.5	10																			
2 TO 5	0.30	66.7	12																			
5 TO 10	0.30	94.3	2																			
10 TO 15	0.23	70.4	0																			
15 TO 20	0.24	89.2	2																			
20 TO 25	0.20	102.0	1																			
25 TO 30	0.29	124.6	2																			
30 TO 35	0.36	159.2	3																			
ABOVE 35	0.84	2207.4	10																			
TOTAL	0.90	2992.0	30																			

TABLE D98
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT AFD, VIETNAM
FOR THE
MONTH OF JULY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.15	54.0	0																			
20 TO 25	0.27	107.0	0																			
25 TO 30	0.21	86.0	1																			
30 TO 35	1.09	843.4	2																			
ABOVE 35	1.47	665.0	0																			
TOTAL	4.00	1795.0	3																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	6.5	1																			
1 TO 2	0.06	9.1	0																			
2 TO 5	0.23	46.4	6																			
5 TO 10	0.22	53.0	2																			
10 TO 15	0.16	54.0	10																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.71	169.0	19																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.05	6.5	1																			
1 TO 2	0.06	9.1	0																			
2 TO 5	0.23	46.4	6																			
5 TO 10	0.22	53.0	2																			
10 TO 15	0.16	54.0	10																			
15 TO 20	0.15	54.0	0																			
20 TO 25	0.27	107.0	0																			
25 TO 30	0.21	86.0	1																			
30 TO 35	1.09	843.4	2																			
ABOVE 35	1.47	665.0	0																			
TOTAL	4.71	1924.0	22																			

TABLE D99
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT AFD, VIETNAM
FOR THE
MONTH OF AUGUST
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.22	70.0	11																			
20 TO 25	1.38	141.1	6																			
25 TO 30	0.26	129.0	3																			
30 TO 35	1.65	739.6	0																			
ABOVE 35	1.30	567.3	21																			
TOTAL	3.41	1623.9	41																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0.39	9.0	5																			
2 TO 5	0.21	43.0	10																			
5 TO 10	0.17	43.1	7																			
10 TO 15	0.20	89.1	32																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.75	164.6	54																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.01	1.0	0																			
1 TO 2	0.25	9.0	5																			
2 TO 5	0.21	43.0	10																			
5 TO 10	0.17	43.1	7																			
10 TO 15	0.20	89.1	32																			
15 TO 20	0.22	70.0	11																			
20 TO 25	0.30	141.1	6																			
25 TO 30	0.26	129.0	3																			
30 TO 35	1.65	739.6	0																			
ABOVE 35	1.30	567.3	21																			
TOTAL	4.94	1688.5	95																			

TABLE D30a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT AFB, VIETNAM
FOR THE
MONTH OF OCTOBER

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.03	219.0	6																				
20 TO 25	0.77	293.0	15																				
25 TO 30	2.22	920.1	2																				
30 TO 35	6.00	3007.0	13																				
ABOVE 35	0.	0.	0																				
TOTAL	10.43	4449.4	36																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	18.9	43																				
1 TO 2	0.31	53.2	61																				
2 TO 5	0.55	111.1	41																				
5 TO 10	0.50	133.0	4																				
10 TO 15	0.46	149.2	4																				
15 TO 20	0.32	5.0	0																				
20 TO 25	0.72	5.3	0																				
25 TO 30	0.32	9.6	1																				
30 TO 35	1.35	508.7	65																				
ABOVE 35	0.	0.	0																				
TOTAL	3.35	1073.7	210																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.12	18.9	43																				
1 TO 2	0.31	53.2	61																				
2 TO 5	0.55	110.1	40																				
5 TO 10	0.50	133.0	4																				
10 TO 15	0.46	149.2	4																				
15 TO 20	0.65	225.5	6																				
20 TO 25	0.78	299.0	15																				
25 TO 30	2.25	937.7	3																				
30 TO 35	0.15	3996.5	70																				
ABOVE 35	0.	0.	0																				
TOTAL	13.70	5523.2	294																				

TABLE D30b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
CLARK AB, PHILIPPINES
AND
SAIGON, TAN SON NHUT AFB, VIETNAM
FOR THE
MONTH OF NOVEMBER

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.34	129.5	1																				
20 TO 25	0.39	149.1	3																				
25 TO 30	0.51	1443.5	35																				
30 TO 35	1.70	603.4	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.44	2401.5	34																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.09	7.3	2																				
1 TO 2	0.30	13.3	12																				
2 TO 5	0.30	72.0	11																				
5 TO 10	0.20	80.6	7																				
10 TO 15	0.26	84.7	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.4	15.6	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	1.10	272.5	32																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.35	7.3	2																				
1 TO 2	0.30	13.3	12																				
2 TO 5	0.30	72.0	11																				
5 TO 10	0.20	80.6	7																				
10 TO 15	0.26	84.7	0																				
15 TO 20	0.34	129.5	1																				
20 TO 25	0.39	149.1	3																				
25 TO 30	0.51	1443.5	30																				
30 TO 35	1.70	603.4	0																				
ABOVE 35	0.	0.	0																				
TOTAL	7.14	2675.0	66																				

TABLE D86
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 CLARK AB, PHILIPPINES
 AND
 SAIGON, TAN SON NHUT A/D, VIETNAM
 FOR THE
 MONTH OF DECEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.67	240.3	2																			
20 TO 25	0.27	924.1	2																			
25 TO 30	1.55	672.1	1																			
30 TO 35	5.60	2514.0	0																			
ABOVE 35	1.70	605.0	0																			
TOTAL	11.07	9155.0	13																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	10.9	31																			
1 TO 2	0.10	22.0	34																			
2 TO 5	0.55	112.5	90																			
5 TO 10	0.73	191.7	15																			
10 TO 15	0.72	226.0	29																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	2.29	572.0	100																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.14	10.9	31																			
1 TO 2	0.15	22.0	34																			
2 TO 5	0.55	112.5	90																			
5 TO 10	0.73	191.7	15																			
10 TO 15	0.72	226.0	29																			
15 TO 20	0.67	240.3	2																			
20 TO 25	2.27	924.1	2																			
25 TO 30	1.55	672.1	1																			
30 TO 35	5.60	2514.0	0																			
ABOVE 35	1.70	605.0	0																			
TOTAL	14.16	5727.5	201																			

TABLE D11c
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 YOKOTA AB, JAPAN
 AND
 SAIGON, TAN SON NHUT AFB, VIETNAM

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																				
1 TO 2	0.0	0.0	0																				
2 TO 5	0.0	0.0	0																				
5 TO 10	0.0	0.0	0																				
10 TO 15	0.0	0.0	0																				
15 TO 20	2.44	907.3	44																				
20 TO 25	3.91	2330.9	134																				
25 TO 30	16.92	7121.4	99																				
30 TO 35	36.45	15967.8	89																				
ABOVE 35	39.25	17361.0	105																				
TOTAL	107.97	43696.4	466																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.60	103.7	54																				
1 TO 2	0.55	87.4	53																				
2 TO 5	1.70	362.2	99																				
5 TO 10	1.50	451.5	102																				
10 TO 15	1.72	569.3	32																				
15 TO 20	0.14	51.6	3																				
20 TO 25	0.14	53.7	1																				
25 TO 30	2.21	87.7	18																				
30 TO 35	7.45	198.5	15																				
ABOVE 35	11.44	5249.7	33																				
TOTAL	18.69	7215.4	422																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.60	103.7	54																				
1 TO 2	0.55	87.4	53																				
2 TO 5	1.70	362.2	99																				
5 TO 10	1.50	451.5	102																				
10 TO 15	1.72	569.3	32																				
15 TO 20	2.90	990.9	47																				
20 TO 25	6.05	2302.6	147																				
25 TO 30	17.15	7209.1	117																				
30 TO 35	36.90	16106.4	134																				
ABOVE 35	57.69	22610.8	133																				
TOTAL	119.66	50911.0	680																				

TABLE D21b
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 YOKOTA AB, JAPAN
 AND
 SAIGON, TAN SON NHUT AFB, VIETNAM
 FOR THE
 WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.0	0.0	0																				
1 TO 2	0.0	0.0	0																				
2 TO 5	0.0	0.0	0																				
5 TO 10	0.0	0.0	0																				
10 TO 15	0.0	0.0	0																				
15 TO 20	0.41	148.5	2																				
20 TO 25	0.44	239.7	64																				
25 TO 30	0.56	3526.4	16																				
30 TO 35	1.04	4552.4	13																				
ABOVE 35	0.36	4162.3	3																				
TOTAL	20.61	17626.7	98																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.34	52.9	23																				
1 TO 2	0.10	29.5	27																				
2 TO 5	0.97	136.6	66																				
5 TO 10	0.92	143.9	77																				
10 TO 15	0.63	202.4	16																				
15 TO 20	0.09	35.0	5																				
20 TO 25	0.09	35.6	13																				
25 TO 30	0.12	52.0	10																				
30 TO 35	0.35	136.0	14																				
ABOVE 35	0.90	4612.3	33																				
TOTAL	12.75	5399.7	264																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DIRECTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.34	52.9	23																				
1 TO 2	0.10	29.5	27																				
2 TO 5	0.97	136.6	66																				
5 TO 10	1.92	143.9	77																				
10 TO 15	0.63	202.4	16																				
15 TO 20	0.50	181.5	5																				
20 TO 25	0.72	273.3	77																				
25 TO 30	0.69	3576.5	34																				
30 TO 35	10.94	4680.0	27																				
ABOVE 35	19.26	8776.6	36																				
TOTAL	42.36	18626.8	362																				

TABLE 2014
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT AFB, VIETNAM
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	6.22	96.0	29																			
20 TO 25	0.53	211.0	0									0	13									
25 TO 30	0.64	277.6	0																			
30 TO 35	0.29	125.4	0																			
Above 35	12.29	937.5	95									14	40	1								
TOTAL	13.97	6664.5	70									22	53	1								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.00	0.0	0																			
1 TO 2	0.33	6.0	0																			
2 TO 5	0.30	21.0	14									2	0	3	1							
5 TO 10	1.14	42.0	2																			
10 TO 15	1.17	96.0	2									1	1									
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
Above 35	0.	0.	0																			
TOTAL	3.40	136.0	16									3	0	3	1							

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.26	0.0	0																			
1 TO 2	1.23	6.0	0																			
2 TO 5	0.60	21.0	14									2	0	3	1							
5 TO 10	0.26	42.0	2																			
10 TO 15	1.17	96.0	2									1	1									
15 TO 20	0.22	0.0	25									0	15									
20 TO 25	0.53	211.0	0																			
25 TO 30	0.64	277.6	0																			
30 TO 35	0.29	125.4	0																			
Above 35	12.29	937.5	95									14	40	1								
TOTAL	16.46	6100.2	94									29	64	4	1							

TABLE 2014
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT AFB, VIETNAM
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	1.53	600.0	10									1	3	13	1							
20 TO 25	6.00	1700.0	40									2	2	43	2							
25 TO 30	6.32	2730.7	30									3	14	34	6							
30 TO 35	21.94	9000.0	40									7	14	32	6	1						
Above 35	10.23	6954.2	41									1	1	19	22	3						
TOTAL	44.97	19375.1	246									1	15	64	144	10	1	2				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	3.21	32.4	22									1	2	0	0	1	1	1	1			
1 TO 2	1.20	6.0	21									2	4	6	6							
2 TO 5	1.20	21.0	14									1	1	0	0	10	0	3				
5 TO 10	0.26	42.0	2																			
10 TO 15	0.22	0.0	25																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
Above 35	0.	0.	0																			
TOTAL	2.97	761.2	111									3	1	7	21	35	16	4	1	2	1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.26	0.0	0																			
1 TO 2	1.20	6.0	21																			
2 TO 5	1.21	21.0	14									1	1	0	0	10	0	3				
5 TO 10	0.26	42.0	2																			
10 TO 15	0.22	0.0	25																			
15 TO 20	0.	0.0	0																			
20 TO 25	6.00	1700.0	40									1	3	13	1							
25 TO 30	6.32	2730.7	30									2	20	43	2							
30 TO 35	21.94	9000.0	40									3	14	34	6	1						
Above 35	10.23	6954.2	41									1	1	19	22	3						
TOTAL	47.96	20130.3	266									3	2	30	67	100	34	5	3	2	1	

**ARRANGEMENTS FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT AFD, VIETNAM
FOR THE
MONTH OF JANUARY**

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
0-5	0.	0.	0																			
5-10	0.	0.	0																			
10-15	0.	0.	0																			
15-20	0.22	77.9	1																			
20-25	0.25	87.9	2																			
25-30	1.40	505.0	29																			
30-35	3.50	1200.7	16																			
ABOVE 35	7.27	3270.1	1																			
TOTAL	12.02	5630.1	49																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
0-5	0.06	8.7	9																			
5-10	0.04	8.3	5																			
10-15	0.12	27.0	4																			
15-20	0.20	50.2	7																			
20-25	0.10	42.1	5																			
25-30	0.05	10.4	0																			
30-35	0.05	20.2	0																			
ABOVE 35	0.00	39.7	0																			
TOTAL	2.47	97.9	31																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
0-5	0.06	8.7	9																			
5-10	0.04	8.3	5																			
10-15	0.12	27.0	4																			
15-20	0.20	50.2	7																			
20-25	0.10	42.1	5																			
25-30	0.27	96.9	1																			
30-35	0.30	110.1	2																			
ABOVE 35	1.49	619.3	29																			
TOTAL	3.73	1659.2	17																			

**TABLE D011
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT AFD, VIETNAM
FOR THE
MONTH OF JANUARY**

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
0-5	0.	0.	0																			
5-10	0.	0.	0																			
10-15	0.	0.	0																			
15-20	0.14	50.3	0																			
20-25	0.10	42.1	1																			
25-30	4.75	1200.9	3																			
30-35	4.63	1200.9	1																			
ABOVE 35	0.	0.	0																			
TOTAL	9.70	4048.1	5																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
0-5	0.06	11.0	13																			
5-10	0.05	8.3	10																			
10-15	0.07	17.1	27																			
15-20	0.12	37.9	35																			
20-25	0.17	50.2	4																			
25-30	0.	0.	0																			
30-35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.45	130.2	97																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
0-5	0.06	11.0	13																			
5-10	0.05	8.3	10																			
10-15	0.07	17.1	27																			
15-20	0.12	37.9	35																			
20-25	0.17	50.2	4																			
25-30	0.14	50.3	0																			
30-35	0.10	42.1	1																			
ABOVE 35	4.75	1200.9	3																			
TOTAL	9.70	4178.3	98																			

TABLE D01g
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT AFB, VIETNAM
FOR THE
MONTH OF FEBRUARY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.16	90.7	1																			
20 TO 25	0.17	60.0	1																			
25 TO 30	0.62	190.2	3																			
30 TO 35	1.15	493.4	0																			
ABOVE 35	2.70	932.0	2																			
TOTAL	6.90	2929.0	6																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	39.4	9																			
1 TO 2	0.12	7.0	3																			
2 TO 5	0.30	60.0	3																			
5 TO 10	0.16	47.3	9																			
10 TO 15	0.35	90.7	3																			
15 TO 20	0.25	17.4	2																			
20 TO 25	0.25	20.4	1																			
25 TO 30	0.07	31.2	11																			
30 TO 35	0.27	121.0	12																			
ABOVE 35	0.62	407.1	11																			
TOTAL	1.20	4901.7	64																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.26	39.4	9																			
1 TO 2	0.12	17.0	3																			
2 TO 5	0.30	60.0	3																			
5 TO 10	0.16	47.3	9																			
10 TO 15	0.35	90.7	3																			
15 TO 20	0.19	60.3	2																			
20 TO 25	0.23	67.0	2																			
25 TO 30	0.30	140.4	14																			
30 TO 35	1.42	612.0	12																			
ABOVE 35	1.71	499.1	13																			
TOTAL	17.26	7430.6	70																			

TABLE D01h
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT AFB, VIETNAM
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	69.9	23																			
20 TO 25	0.32	199.1	0																			
25 TO 30	0.37	200.0	0																			
30 TO 35	0.22	94.7	0																			
ABOVE 35	7.64	3311.9	46																			
TOTAL	9.12	3921.1	69																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.35	7.0	0																			
1 TO 2	0.03	0.0	0																			
2 TO 5	0.00	0.0	0																			
5 TO 10	0.12	39.0	0																			
10 TO 15	0.12	62.0	2																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.30	196.2	16																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.35	7.0	0																			
1 TO 2	0.33	9.4	0																			
2 TO 5	0.00	0.0	0																			
5 TO 10	0.12	39.0	0																			
10 TO 15	0.12	62.0	2																			
15 TO 20	0.10	69.9	23																			
20 TO 25	0.32	199.1	0																			
25 TO 30	0.37	200.0	0																			
30 TO 35	0.22	94.7	0																			
ABOVE 35	7.64	3311.9	46																			
TOTAL	9.50	4027.3	65																			

**DETERMINATION OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF MAY**

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.04	15.5	0																				
20 TO 25	0.03	12.7	0																				
25 TO 30	0.07	27.0	0																				
30 TO 35	0.07	26.7	0																				
ABOVE 35	4.04	2095.5	9																				
TOTAL	4.08	2143.2	9																				
														3	6								
														3	6								

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.3	0																			
1 TO 2	0.00	0.9	0																			
2 TO 5	0.02	5.2	0																			
5 TO 10	0.02	7.8	0																			
10 TO 15	0.04	14.3	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.11	30.7	0																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.3	0																				
1 TO 2	0.00	0.9	0																				
2 TO 5	0.02	5.2	0																				
5 TO 10	0.02	7.8	0																				
10 TO 15	0.04	14.3	0																				
15 TO 20	0.04	15.5	0																				
20 TO 25	0.03	12.7	0																				
25 TO 30	0.07	27.0	0																				
30 TO 35	0.07	26.7	0																				
ABOVE 35	4.04	2095.5	9																				
TOTAL	4.06	2173.0	9																				

**TABLE (D1)
DISTRIBUTION OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF JUNE**

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	3.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.07	26.4	0																			
20 TO 25	0.22	88.6	0																			
25 TO 30	5.37	2305.5	57											3	14	33	6					1
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	5.36	2312.6	57											3	14	33	6					1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	5.1	5																			
1 TO 2	0.33	4.4	1																			
2 TO 5	0.23	45.0	12																			
5 TO 10	0.05	26.3	0																			
10 TO 15	0.07	21.0	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.44	102.6	24																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	5.1	5																			
1 TO 2	0.33	4.4	1																			
2 TO 5	0.23	45.0	12																			
5 TO 10	0.05	26.3	0																			
10 TO 15	0.07	21.0	0																			
15 TO 20	0.07	26.4	0																			
20 TO 25	0.22	88.6	0																			
25 TO 30	5.07	2300.5	57																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	5.00	2415.0	61																			

TABLE D01A
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	0.33	11.9	0																				
20 TO 25	0.37	26.3	0																				
25 TO 30	0.12	48.9	0																				
30 TO 35	0.38	36.1	0																				
ABOVE 35	1.93	862.2	0																				
TOTAL	2.23	981.4	0																				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.01	1.3	2													1				1			
1 TO 2	0.01	1.4	4							2			1							1			
2 TO 5	0.03	8.7	4											4									
5 TO 10	0.05	15.0	0																				
10 TO 15	0.03	11.4	0																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.13	36.7	10							2		1	4		1				2				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.01	1.3	2													1				1			
1 TO 2	0.01	1.4	4							2			1							1			
2 TO 5	0.03	8.7	4											4									
5 TO 10	0.05	15.0	0																				
10 TO 15	0.03	11.4	0																				
15 TO 20	0.33	11.9	0																				
20 TO 25	0.37	26.3	0																				
25 TO 30	0.12	48.9	0																				
30 TO 35	0.38	36.1	0																				
ABOVE 35	1.93	862.2	0																				
TOTAL	2.37	1027.1	10							2		1	4		1				2				

TABLE D01B
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND
SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	1.47	561.8	18									1		3	13	1							
20 TO 25	4.21	1604.9	60										2	29	43	2			1				
25 TO 30	1.13	479.3	1																				
30 TO 35	21.06	9699.7	60										7	14	32	6	1						
ABOVE 35	8.30	3696.6	41										1	15	22	3							
TOTAL	36.90	16081.2	180									1	10	52	111	12	1	1					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	26.3	10																				
1 TO 2	0.26	39.5	10																				
2 TO 5	0.75	192.6	29																				
5 TO 10	0.60	166.0	12																				
10 TO 15	0.64	214.8	9																				
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	2.43	680.8	77																				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.17	26.3	10																				
1 TO 2	0.26	39.5	10																				
2 TO 5	0.75	192.6	29																				
5 TO 10	0.60	166.0	12																				
10 TO 15	0.64	214.8	9																				
15 TO 20	1.47	561.8	18																				
20 TO 25	4.21	1604.9	60																				
25 TO 30	1.13	479.3	1																				
30 TO 35	21.06	9699.7	60																				
ABOVE 35	8.30	3696.6	41																				
TOTAL	39.37	16681.2	265																				

TABLE D31a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND

SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF OCTOBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																							
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35				
BELOW 1	0.	0.	0																								
1 TO 2	0.	0.	0																								
2 TO 5	0.	0.	0																								
5 TO 10	0.	0.	0																								
10 TO 15	0.	0.	0																								
15 TO 20	0.17	59.0	0																								
20 TO 25	0.17	64.0	0																								
25 TO 30	0.25	103.0	1																								
30 TO 35	3.46	1843.2	13									1	4	7	1												
ABOVE 35	4.33	1793.2	1										1														
TOTAL	0.07	3564.1	15									1	4	7	1												

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																							
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35				
BELOW 1	0.36	8.2	3																								
1 TO 2	0.32	4.1	5																								
2 TO 5	0.10	23.0	4																								
5 TO 10	0.16	44.0	7																								
10 TO 15	0.14	47.9	5																								
15 TO 20	0.25	10.6	0																								
20 TO 25	0.09	20.2	0																								
25 TO 30	0.30	35.7	0																								
30 TO 35	0.19	62.5	1																								
ABOVE 35	1.54	639.5	0																								
TOTAL	2.36	904.5	31									2	1	4	7	0	3	5	1								

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																							
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35				
BELOW 1	0.36	8.2	9																								
1 TO 2	0.32	4.1	9																								
2 TO 5	0.10	23.0	4																								
5 TO 10	0.16	44.0	7																								
10 TO 15	0.14	47.9	5																								
15 TO 20	0.22	78.4	0																								
20 TO 25	0.22	85.3	0																								
25 TO 30	0.33	130.6	1																								
30 TO 35	3.00	1605.8	14									1	5	7	1												
ABOVE 35	5.57	2432.7	1																								
TOTAL	11.43	4460.6	46									2	1	5	10	15	4	5	1								

TABLE D31b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
YOKOTA AB, JAPAN
AND

SAIGON, TAN SON NHUT A/D, VIETNAM
FOR THE
MONTH OF NOVEMBER

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																							
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35				
BELOW 1	0.	0.	0																								
1 TO 2	0.	0.	0																								
2 TO 5	0.	0.	0																								
5 TO 10	0.	0.	0																								
10 TO 15	0.	0.	0																								
15 TO 20	0.25	10.0	1																								
20 TO 25	0.30	33.0	2																								
25 TO 30	1.15	400.7	24									1	1	9	10	1											
30 TO 35	0.12	33.4	3																								
ABOVE 35	3.34	1400.9	1																								
TOTAL	4.74	2044.0	30									1	2	11	13	1											

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																							
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35				
BELOW 1	0.30	3.5	0																								
1 TO 2	0.01	2.2	0																								
2 TO 5	0.32	4.0	0																								
5 TO 10	0.24	11.4	0																								
10 TO 15	0.04	14.2	0																								
15 TO 20	0.	0.	0																								
20 TO 25	0.	0.	0																								
25 TO 30	0.	0.	0																								
30 TO 35	0.	0.	0																								
ABOVE 35	0.	0.	0																								
TOTAL	1.12	33.1	0																								

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																							
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35				
BELOW 1	0.30	3.5	0																								
1 TO 2	0.31	2.2	0																								
2 TO 5	0.32	4.0	0																								
5 TO 10	0.04	11.4	0																								
10 TO 15	0.04	14.2	0																								
15 TO 20	0.25	10.0	1																								
20 TO 25	0.30	33.0	2																								
25 TO 30	1.15	400.7	24									1	1	9	10	1											
30 TO 35	0.12	33.4	3																								
ABOVE 35	3.34	1400.9	0																								
TOTAL	4.06	2099.0	30									1	2	11	13	1											

TABLE D310
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 YOKOTA AB, JAPAN
 AND
 SAIGON, TAN SON NHUT A/D, VIETNAM
 FOR THE
 MONTH OF DECEMBER
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.13	47.3	2																			
20 TO 25	0.20	103.2	62								1	12	32	12	5							
25 TO 30	0.30	150.0	10								3	7										
30 TO 35	4.00	2132.0	12								1	3	5		2	1						
ABOVE 35	7.27	3000.0	1																			
TOTAL	12.93	5040.0	87								2	19	46	12	7	1						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.0	1																			
1 TO 2	0.04	5.0	14								1	1	1	2	4	4	1					
2 TO 5	0.12	20.0	10								1	4	2	1	2							
5 TO 10	0.20	50.0	35								2	11	11	3	4	1	1			1	1	
10 TO 15	0.17	35.0	9								1	3	4		1							
15 TO 20	0.06	15.0	1																			
20 TO 25	0.03	15.2	12								2	3	5	2								
25 TO 30	0.05	20.0	7								1	3	3									
30 TO 35	0.05	16.4	2																			
ABOVE 35	1.20	540.2	22																			
TOTAL	2.01	767.0	113								1	2	11	35	43	11	6	1	1		1	1

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.0	1																			
1 TO 2	0.04	5.0	14								1	1	1	2	4	4	1					
2 TO 5	0.12	20.0	10								1	4	2	1	2							
5 TO 10	0.20	50.0	35								2	11	11	3	4	1	1			1	1	
10 TO 15	0.17	35.0	9								1	3	4		1							
15 TO 20	0.17	62.7	3																			
20 TO 25	0.32	110.4	74								3	13	37	14	5							
25 TO 30	0.43	179.3	17								1	6	10									
30 TO 35	4.00	2167.0	14								1	5	5		2	1						
ABOVE 35	0.05	3771.0	23																			
TOTAL	14.00	6417.7	290								1	2	13	54	89	23	13	2	1		1	1

TABLE D01
 DISTRIBUTIONS OF DERIVED VERTICAL WIND VELOCITY
 FOR THE ROUTE BETWEEN
 SAIGON, TAN SON NHUT AB, VIETNAM

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	7.30	303.6	31							1		3	3	15	3	3			1			
20 TO 25	7.06	307.5	10											0	1	1						
25 TO 30	4.20	179.2	1											1								
30 TO 35	0.53	420.7	23											3	16	4						
ABOVE 35	3.15	1429.3	1											1								
TOTAL	19.22	3343.3	66							1		3	10	39	0	4			1			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	30.0	36																			
1 TO 2	0.17	31.0	30																			
2 TO 5	0.79	170.0	29						1													
5 TO 10	0.36	110.1	19									1	1	3	6	4	7	9	2	1		
10 TO 15	0.30	171.0	61									1	1	2	1	4	10	0	1	3	1	
15 TO 20	0.04	15.4	0									1	3	1	10	10	23	0	2	2	1	
20 TO 25	0.04	23.2	0												3	5	15	3	3			
25 TO 30	0.00	1.4	0												0	1	1					
30 TO 35	0.	0.	0												1							
ABOVE 35	0.	0.	0												3	16	4					
TOTAL	2.11	942.1	173							1	1	6	5	19	35	46	32	16	10	6	1	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.10	30.0	36																			
1 TO 2	0.17	31.0	30																			
2 TO 5	0.79	170.0	29						1													
5 TO 10	0.36	110.1	19									1	1	3	6	7	6	1	3	1		
10 TO 15	0.30	171.0	61									1	1	2	1	4	10	0	1	3	1	
15 TO 20	1.42	949.0	31									1	3	1	10	10	23	0	2	2	1	
20 TO 25	1.02	410.7	10									1			3	5	15	3	3			
25 TO 30	4.20	170.0	1												0	1	1					
30 TO 35	0.53	420.7	23												1							
ABOVE 35	3.15	1429.3	1												3	16	4					
TOTAL	21.32	3343.3	241							1	2	6	5	22	45	65	40	20	10	6	1	

TABLE D02
 DISTRIBUTIONS OF DERIVED VERTICAL WIND VELOCITY
 FOR THE ROUTE BETWEEN
 KAGAWA AB, OKINAWA
 AND
 SAIGON, TAN SON NHUT A/D, VIETNAM
 FOR THE
 WINTER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.15	50.0	0																			
20 TO 25	0.15	50.0	1																			
25 TO 30	3.07	1390.1	1																			
30 TO 35	3.39	1546.2	0												1	1						
ABOVE 35	0.	0.	0																			
TOTAL	7.65	2296.9	2												1	1						

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	10.0	10																			
1 TO 2	0.09	10.0	15																			
2 TO 5	0.27	63.2	3																			
5 TO 10	0.17	31.0	11																			
10 TO 15	0.29	97.0	90																			
15 TO 20	0.04	15.4	0																			
20 TO 25	0.04	23.2	0																			
25 TO 30	0.00	1.4	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.04	200.0	100									1	4	1	13	23	33	16	3	4	2	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.11	10.0	10																			
1 TO 2	0.09	10.0	15																			
2 TO 5	0.27	63.2	3																			
5 TO 10	0.17	31.0	11																			
10 TO 15	0.29	97.0	90																			
15 TO 20	0.19	75.0	0																			
20 TO 25	0.19	75.0	1																			
25 TO 30	3.07	1390.1	1																			
30 TO 35	3.39	1546.2	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.99	2047.1	102									1	4	1	13	24	34	16	3	4	2	

TABLE D02
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KADENA AB, OKINAWA
AND
SAIGON, TAN SON NHUT AFD, VIETNAM
FOR THE
SPRING SEASON

NON-STORM CONDITIONS				GUST DISTRIBUTION (FT./SEC.)																				
ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.	0.	0																					
1 TO 2	0.	0.	0																					
2 TO 5	0.	3.	0																					
5 TO 10	0.	3.	0																					
10 TO 15	0.	3.	0																					
15 TO 20	0.07	24.5	0																					
20 TO 25	0.10	43.6	0																					
25 TO 30	0.10	44.6	0																					
30 TO 35	0.46	207.9	0																					
ABOVE 35	1.15	1425.3	1																					
TOTAL	3.00	1742.7	1																					

STORM CONDITIONS				GUST DISTRIBUTION (FT./SEC.)																				
ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.01	1.2	0																					
1 TO 2	0.02	3.8	0																					
2 TO 5	0.10	36.7	0																					
5 TO 10	0.07	21.0	0																					
10 TO 15	0.07	23.0	0																					
15 TO 20	0.	0.	0																					
20 TO 25	0.	3.	0																					
25 TO 30	0.	3.	0																					
30 TO 35	0.	3.	0																					
ABOVE 35	0.	0.	0																					
TOTAL	0.35	85.6	0																					

STORM PLUS NON-STORM				GUST DISTRIBUTION (FT./SEC.)																				
ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.01	1.2	0																					
1 TO 2	0.02	3.8	0																					
2 TO 5	0.10	36.7	0																					
5 TO 10	0.07	21.0	0																					
10 TO 15	0.07	23.0	0																					
15 TO 20	0.07	24.5	0																					
20 TO 25	0.10	43.6	0																					
25 TO 30	0.10	44.6	0																					
30 TO 35	0.46	207.9	0																					
ABOVE 35	1.15	1425.3	1																					
TOTAL	0.25	1828.5	1																					

TABLE D04
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
KADENA AB, OKINAWA
AND
SAIGON, TAN SON NHUT AFD, VIETNAM
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS				GUST DISTRIBUTION (FT./SEC.)																				
ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.	0.	0																					
1 TO 2	0.	0.	0																					
2 TO 5	0.	0.	0																					
5 TO 10	0.	0.	0																					
10 TO 15	0.	0.	0																					
15 TO 20	1.16	951.1	31																					
20 TO 25	0.73	293.7	9																					
25 TO 30	0.22	95.0	0																					
30 TO 35	5.67	2502.5	23																					
ABOVE 35	0.	0.	0																					
TOTAL	7.79	3343.1	65																					

STORM CONDITIONS				GUST DISTRIBUTION (FT./SEC.)																				
ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.03	9.0	2																					
1 TO 2	0.03	9.2	15																					
2 TO 5	0.33	78.7	26																					
5 TO 10	0.12	30.1	8																					
10 TO 15	0.15	51.0	6																					
15 TO 20	0.	0.	0																					
20 TO 25	0.	0.	0																					
25 TO 30	0.	0.	0																					
30 TO 35	0.	0.	0																					
ABOVE 35	0.	0.	0																					
TOTAL	0.72	166.0	75																					

STORM PLUS NON-STORM				GUST DISTRIBUTION (FT./SEC.)																				
ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35	
BELOW 1	0.03	9.0	20																					
1 TO 2	0.03	9.2	15																					
2 TO 5	0.33	78.7	26																					
5 TO 10	0.12	30.1	8																					
10 TO 15	0.15	51.0	6																					
15 TO 20	1.16	951.1	31																					
20 TO 25	0.73	293.7	9																					
25 TO 30	0.22	95.0	0																					
30 TO 35	5.67	2502.5	23																					
ABOVE 35	0.	0.	0																					
TOTAL	6.90	3529.0	130																					

TABLE D32
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 KADENA AB, OKINAWA
 AND
 SAIGON, TAN SON NHUT A/D, VIETNAM
 FOR THE
 MONTH OF JANUARY
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.23	12.0	0																			
20 TO 25	0.32	10.1	0																			
25 TO 30	0.10	41.0	0																			
30 TO 35	3.39	1546.2	0																			
ABOVE 35	0.	0.	0																			
TOTAL	3.95	1615.7	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.23	5.5	11																			
1 TO 2	0.33	5.0	10																			
2 TO 5	0.36	9.0	2																			
5 TO 10	0.10	27.0	6																			
10 TO 15	0.15	51.0	93																			
15 TO 20	0.34	15.0	0																			
20 TO 25	0.00	21.2	0																			
25 TO 30	0.20	1.4	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.66	147.0	82																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.23	5.5	11																			
1 TO 2	0.33	5.0	10																			
2 TO 5	0.36	9.0	2																			
5 TO 10	0.10	27.0	6																			
10 TO 15	0.15	51.0	93																			
15 TO 20	0.27	20.2	0																			
20 TO 25	0.28	33.3	0																			
25 TO 30	0.10	43.0	0																			
30 TO 35	3.39	1546.2	0																			
ABOVE 35	0.	0.	0																			
TOTAL	4.30	1752.7	82																			

TABLE D31
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 KADENA AB, OKINAWA
 AND
 SAIGON, TAN SON NHUT A/D, VIETNAM
 FOR THE
 MONTH OF FEBRUARY
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.12	45.3	0																			
20 TO 25	0.11	43.0	1																			
25 TO 30	3.77	1587.5	1																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	4.00	1645.0	2																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.30	14.3	5																			
1 TO 2	0.36	15.0	5																			
2 TO 5	0.23	33.0	1																			
5 TO 10	0.07	25.0	5																			
10 TO 15	0.15	44.2	2																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.98	152.6	16																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.00	14.3	5																			
1 TO 2	0.36	15.0	5																			
2 TO 5	0.23	33.0	1																			
5 TO 10	0.07	25.0	5																			
10 TO 15	0.15	44.2	2																			
15 TO 20	0.12	45.3	0																			
20 TO 25	0.11	43.0	1																			
25 TO 30	3.77	1587.5	1																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	4.98	1796.4	20																			

TABLE D02g
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 KADENA AB, OKINAWA
 AND
 SAIGON, TAN SON NHUT AFB, VIETNAM
 FOR THE
 MONTH OF MARCH
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	3.	0.	0																			
2 TO 5	3.	3.	3																			
5 TO 10	3.	3.	3																			
10 TO 15	0.	0.	0																			
15 TO 20	3.37	26.5	0																			
20 TO 25	4.10	43.6	0																			
25 TO 30	0.10	46.6	0																			
30 TO 35	4.46	207.9	0																			
ABOVE 35	3.15	1425.3	1																			1
TOTAL	3.00	1742.7	1																			1

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.01	1.3	0																			
1 TO 2	0.32	3.0	0																			
2 TO 5	0.19	36.7	0																			
5 TO 10	0.37	21.2	3																			
10 TO 15	0.07	23.0	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	3.	0																			
25 TO 30	0.	3.	0																			
30 TO 35	3.	3.	0																			
ABOVE 35	0.	3.	3																			3
TOTAL	1.35	89.6	3																			3

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	3.01	1.3	0																			
1 TO 2	4.02	3.0	0																			
2 TO 5	0.10	36.7	3																			
5 TO 10	0.37	21.2	0																			
10 TO 15	1.37	23.0	0																			
15 TO 20	3.07	26.5	0																			
20 TO 25	4.10	46.6	0																			
25 TO 30	4.10	46.6	3																			
30 TO 35	4.46	207.9	3																			
ABOVE 35	3.15	1425.3	1																			1
TOTAL	4.23	1620.3	1																			1

TABLE D02h
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 KADENA AB, OKINAWA
 AND
 SAIGON, TAN SON NHUT AFB, VIETNAM
 FOR THE
 MONTH OF JUNE
 NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	3.	0.	0																			
2 TO 5	3.	3.	3																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.37	27.6	0																			
20 TO 25	4.12	45.6	2																			
25 TO 30	0.10	47.1	0																			
30 TO 35	3.13	1394.0	23																			
ABOVE 35	0.	0.	0																			
TOTAL	3.40	1404.0	20																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	0.3	12																			
1 TO 2	0.03	3.1	0																			
2 TO 5	0.20	45.2	2																			
5 TO 10	0.30	16.1	0																			
10 TO 15	0.37	22.6	3																			
15 TO 20	0.	3.	0																			
20 TO 25	0.	3.	0																			
25 TO 30	0.	3.	0																			
30 TO 35	0.	3.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.90	97.0	22																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	0.3	12																			
1 TO 2	0.33	3.1	0																			
2 TO 5	0.20	45.2	2																			
5 TO 10	0.30	16.1	0																			
10 TO 15	0.37	22.6	3																			
15 TO 20	0.37	27.6	0																			
20 TO 25	0.12	45.6	0																			
25 TO 30	0.10	47.1	0																			
30 TO 35	3.13	1394.0	25																			
ABOVE 35	0.	0.	0																			
TOTAL	3.07	1791.0	42																			

TABLE D3H
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 KADUNA AB, OKINAWA
 AND
 SAIGON, TAN SON NHUT A/D, VIETNAM
 FOR THE
 MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.	0.	0																				
2 TO 5	0.	0.	0																				
5 TO 10	0.	0.	0																				
10 TO 15	0.	0.	0																				
15 TO 20	1.09	423.7	31					1			3	3	15	3	3				1				
20 TO 25	0.61	240.1	9										7	1	1								
25 TO 30	0.37	20.7	2																				
30 TO 35	2.54	1147.7	3																				
ABOVE 35	0.	0.	0																				
TOTAL	4.30	1948.2	43					1			3	3	25	6	6				1				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.0	0																				
1 TO 2	0.02	4.0	7									1										1	
2 TO 5	0.13	33.5	24								1	1	3	6	6	5	1	2	2	1			
5 TO 10	0.07	20.0	0								1	2	1	1	2	1							
10 TO 15	0.30	20.4	6										1	3	2								
15 TO 20	0.	0.	0																				
20 TO 25	0.	0.	0																				
25 TO 30	0.	0.	0																				
30 TO 35	0.	0.	0																				
ABOVE 35	0.	0.	0																				
TOTAL	0.34	99.0	33								2	3	3	9	11	2	9	6	1	1			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (KT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.0	0																				
1 TO 2	0.02	4.0	7										1									1	
2 TO 5	0.13	33.5	24								1	1	3	6	6	5	1	2	2	1			
5 TO 10	0.07	20.0	0								1	2	1	1	2	1							
10 TO 15	0.30	20.4	6										1	3	2								
15 TO 20	1.09	423.7	31					1			3	3	15	3	3				1				
20 TO 25	0.61	240.1	9										7	1	1								
25 TO 30	0.07	20.7	2																				
30 TO 35	2.54	1147.7	3																				
ABOVE 35	0.	0.	0																				
TOTAL	4.63	1937.2	66					1			2	3	0	14	16	12	13	6	2	1			

TABLE D33a
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TORREJON DE ARDOZ AB, SPAIN
AND
DHAHRAN A/D, SAUDI ARABIA

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.00	0.0	0																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.00	0.0	0																			
5 TO 10	0.00	0.0	0																			
10 TO 15	0.00	0.0	0																			
15 TO 20	0.37	117.0	10									1	2	2	5	2						
20 TO 25	0.33	131.0	7									1	1	1	2	1						
25 TO 30	0.33	142.5	7																			
30 TO 35	14.33	4200.0	324									1	14	117	160	27	2	1				
ABOVE 35	4.74	2325.0	0																			
TOTAL	20.37	6791.0	347									4	17	122	171	33	2	1				

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.32	3.2	0																			
1 TO 2	0.17	16.1	1																			
2 TO 5	0.36	72.9	27																			
5 TO 10	0.42	119.2	9																			
10 TO 15	0.28	95.9	27																			
15 TO 20	0.00	0.0	0																			
20 TO 25	0.00	0.0	0																			
25 TO 30	0.00	0.0	0																			
30 TO 35	0.00	0.0	0																			
ABOVE 35	0.00	0.0	0																			
TOTAL	1.10	397.6	64									1	1	0	17	26	7	1	1			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.32	3.2	0																			
1 TO 2	0.10	16.1	1																			
2 TO 5	0.36	72.9	27																			
5 TO 10	0.42	119.2	9																			
10 TO 15	0.28	95.9	27																			
15 TO 20	0.32	131.0	16																			
20 TO 25	0.33	142.5	7																			
25 TO 30	0.33	142.5	7																			
30 TO 35	14.33	4200.0	324																			
ABOVE 35	4.74	2325.0	0																			
TOTAL	21.24	9091.1	411									1	1	0	25	139	107	17	1	1		

TABLE D33b
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TORREJON DE ARDOZ AB, SPAIN
AND
DHAHRAN A/D, SAUDI ARABIA
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.00	0.0	0																			
1 TO 2	0.00	0.0	0																			
2 TO 5	0.00	0.0	0																			
5 TO 10	0.00	0.0	0																			
10 TO 15	0.00	0.0	0																			
15 TO 20	0.15	95.0	0																			
20 TO 25	0.15	95.0	0																			
25 TO 30	0.15	95.0	0																			
30 TO 35	7.00	4191.0	311																			
ABOVE 35	0.00	0.0	0																			
TOTAL	8.04	4320.7	311																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.32	3.2	0																			
1 TO 2	0.06	9.5	1																			
2 TO 5	0.19	38.0	2																			
5 TO 10	0.15	46.0	7																			
10 TO 15	0.16	46.0	0																			
15 TO 20	0.00	0.0	0																			
20 TO 25	0.00	0.0	0																			
25 TO 30	0.00	0.0	0																			
30 TO 35	0.00	0.0	0																			
ABOVE 35	0.00	0.0	0																			
TOTAL	0.87	144.6	10																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
Below 1	0.32	3.2	0																			
1 TO 2	0.06	9.5	1																			
2 TO 5	0.19	38.0	2																			
5 TO 10	0.15	46.0	7																			
10 TO 15	0.16	46.0	0																			
15 TO 20	0.15	95.0	0																			
20 TO 25	0.15	95.0	0																			
25 TO 30	0.15	95.0	0																			
30 TO 35	8.00	4191.0	311																			
ABOVE 35	0.00	0.0	0																			
TOTAL	10.91	4474.1	321																			

TABLE D333
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TORREJON DE ARDOZ AB, SPAIN
 AND
 DHAHRAN AFD, SAUDI ARABIA
 FOR THE
 SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.17	61.0	16										1	2	2	0	2					
20 TO 25	0.10	72.5	7										1	3	2	1						
25 TO 30	0.10	77.5	0																			
30 TO 35	4.03	2106.9	13											0	4							
ABOVE 35	4.74	2023.0	0																			
TOTAL	10.11	4372.1	36										1	3	14	10	3					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.04	6.0	0																			
2 TO 5	0.17	59.1	25										1	9	15	1	1					
5 TO 10	0.26	73.2	2										1	1	1							
10 TO 15	0.14	49.1	27										1	1	9	9	0	4	2	1		
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.62	162.0	34										1	1	6	19	22	5	5	1		

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																			
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																				
1 TO 2	0.04	6.0	0																				
2 TO 5	0.17	59.1	25										1	9	15	1	1						
5 TO 10	0.26	73.2	2										1	1	1								
10 TO 15	0.14	49.1	27										1	1	9	9	0	4	2	1			
15 TO 20	0.17	61.0	16										1	2	2	9	2						
20 TO 25	0.10	72.5	7										1	3	2	1							
25 TO 30	0.10	77.5	0																				
30 TO 35	4.03	2106.9	13												9	4							
ABOVE 35	4.74	2023.0	0																				
TOTAL	10.73	4535.0	90										1	1	1	9	29	37	0	5	1		

TABLE D334
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 TORREJON DE ARDOZ AB, SPAIN
 AND
 JAHIRAN AFD, SAUDI ARABIA
 FOR THE
 MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.10	36.0	0																			
20 TO 25	0.10	39.7	0																			
25 TO 30	0.10	42.0	0																			
30 TO 35	5.92	2410.1	135											5	57	66	7					
ABOVE 35	0.	0.	0											5	57	66	7					
TOTAL	5.62	2520.1	135											5	57	66	7					

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.2	0																			
1 TO 2	0.05	6.3	1																			
2 TO 5	0.15	31.0	0										1									
5 TO 10	0.13	35.3	0																			
10 TO 15	0.10	32.4	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.45	110.2	1											1								

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	3.2	0																			
1 TO 2	0.05	6.3	1																			
2 TO 5	0.15	31.0	0																			
5 TO 10	0.13	35.3	0																			
10 TO 15	0.10	32.4	0																			
15 TO 20	0.10	36.0	0																			
20 TO 25	0.10	39.7	0																			
25 TO 30	0.10	42.0	0																			
30 TO 35	5.92	2410.1	135											5	57	66	7					
ABOVE 35	0.	0.	0											5	57	66	7					
TOTAL	6.27	2660.7	136											5	90	66	7					

TABLE D136
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TORREJON DE ARDOZ AB, SPAIN
AND
DHAMRAN A/D, SAUDI ARABIA
FOR THE
MONTH OF MAY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.25	10.0	0																			
20 TO 25	0.25	10.0	0																			
25 TO 30	0.25	10.0	0																			
30 TO 35	1.90	170.0	170																			
ABOVE 35	0	0	0																			
TOTAL	4.15	180.0	170																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0.25	10.0	2																			
5 TO 10	0.25	10.0	7																			
10 TO 15	0.25	10.0	0																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	0.12	30.0	9																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0.25	10.0	2																			
2 TO 5	0.25	10.0	9																			
5 TO 10	0.25	10.0	7																			
10 TO 15	0.25	10.0	0																			
15 TO 20	0.25	10.0	0																			
20 TO 25	0.25	10.0	0																			
25 TO 30	0.25	10.0	0																			
30 TO 35	1.90	170.0	170																			
ABOVE 35	0	0	0																			
TOTAL	4.24	189.0	189																			

TABLE D137
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
TORREJON DE ARDOZ AB, SPAIN
AND
DHAMRAN A/D, SAUDI ARABIA
FOR THE
MONTH OF JULY

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0	0	0																			
2 TO 5	0	0	0																			
5 TO 10	0	0	0																			
10 TO 15	0	0	0																			
15 TO 20	0.17	61.0	10																			
20 TO 25	0.10	35.0	0																			
25 TO 30	0.10	35.0	0																			
30 TO 35	4.03	210.0	15																			
ABOVE 35	4.70	202.0	3																			
TOTAL	10.17	437.0	30																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0.20	30.0	0																			
2 TO 5	0.17	35.0	20																			
5 TO 10	0.20	35.0	2																			
10 TO 15	0.10	40.0	27																			
15 TO 20	0	0	0																			
20 TO 25	0	0	0																			
25 TO 30	0	0	0																			
30 TO 35	0	0	0																			
ABOVE 35	0	0	0																			
TOTAL	1.67	162.0	50																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0	0	0																			
1 TO 2	0.24	30.0	0																			
2 TO 5	0.17	35.0	20																			
5 TO 10	0.20	35.0	2																			
10 TO 15	0.10	40.0	27																			
15 TO 20	0.17	61.0	10																			
20 TO 25	0.10	35.0	0																			
25 TO 30	0.10	35.0	0																			
30 TO 35	4.03	210.0	15																			
ABOVE 35	4.70	202.0	3																			
TOTAL	11.70	499.0	90																			

TABLE D346
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOW MUANG A/D, BANGKOK, THAILAND
AND
NEW DELHI/PALAM A/D, INDIA

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																
				-15	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15	17.5	20	25	30	35
BELOW 1	0.00	0.0	0																	
1 TO 2	0.00	0.0	0																	
2 TO 5	0.00	0.0	0																	
5 TO 10	0.00	0.0	0																	
10 TO 15	0.00	0.0	0																	
15 TO 20	0.00	0.0	0																	
20 TO 25	0.00	0.0	0																	
25 TO 30	0.00	0.0	0																	
30 TO 35	0.00	0.0	0																	
ABOVE 35	0.00	0.0	0																	
TOTAL	0.00	0.0	0																	

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																
				-15	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15	17.5	20	25	30	35
BELOW 1	0.00	0.0	0																	
1 TO 2	0.00	0.0	0																	
2 TO 5	0.00	0.0	0																	
5 TO 10	0.00	0.0	0																	
10 TO 15	0.00	0.0	0																	
15 TO 20	0.00	0.0	0																	
20 TO 25	0.00	0.0	0																	
25 TO 30	0.00	0.0	0																	
30 TO 35	0.00	0.0	0																	
ABOVE 35	0.00	0.0	0																	
TOTAL	0.00	0.0	0																	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																
				-15	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15	17.5	20	25	30	35
BELOW 1	0.00	0.0	0																	
1 TO 2	0.00	0.0	0																	
2 TO 5	0.00	0.0	0																	
5 TO 10	0.00	0.0	0																	
10 TO 15	0.00	0.0	0																	
15 TO 20	0.00	0.0	0																	
20 TO 25	0.00	0.0	0																	
25 TO 30	0.00	0.0	0																	
30 TO 35	0.00	0.0	0																	
ABOVE 35	0.00	0.0	0																	
TOTAL	0.00	0.0	0																	

TABLE D346
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOW MUANG A/D, BANGKOK, THAILAND
AND
NEW DELHI/PALAM A/D, INDIA
FOR THE
SPRING SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																
				-15	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15	17.5	20	25	30	35
BELOW 1	0.00	0.0	0																	
1 TO 2	0.00	0.0	0																	
2 TO 5	0.00	0.0	0																	
5 TO 10	0.00	0.0	0																	
10 TO 15	0.00	0.0	0																	
15 TO 20	0.00	0.0	0																	
20 TO 25	0.00	0.0	0																	
25 TO 30	0.00	0.0	0																	
30 TO 35	0.00	0.0	0																	
ABOVE 35	0.00	0.0	0																	
TOTAL	0.00	0.0	0																	

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																
				-15	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15	17.5	20	25	30	35
BELOW 1	0.00	0.0	0																	
1 TO 2	0.00	0.0	0																	
2 TO 5	0.00	0.0	0																	
5 TO 10	0.00	0.0	0																	
10 TO 15	0.00	0.0	0																	
15 TO 20	0.00	0.0	0																	
20 TO 25	0.00	0.0	0																	
25 TO 30	0.00	0.0	0																	
30 TO 35	0.00	0.0	0																	
ABOVE 35	0.00	0.0	0																	
TOTAL	0.00	0.0	0																	

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUE DISTRIBUTION (FT./SEC.)																
				-15	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15	17.5	20	25	30	35
BELOW 1	0.00	0.0	0																	
1 TO 2	0.00	0.0	0																	
2 TO 5	0.00	0.0	0																	
5 TO 10	0.00	0.0	0																	
10 TO 15	0.00	0.0	0																	
15 TO 20	0.00	0.0	0																	
20 TO 25	0.00	0.0	0																	
25 TO 30	0.00	0.0	0																	
30 TO 35	0.00	0.0	0																	
ABOVE 35	0.00	0.0	0																	
TOTAL	0.00	0.0	0																	

TABLE D344
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOM RUANG A/D, BANGKOK, THAILAND
AND
NEW DELHI/PALAM A/D, INDIA
FOR THE
SUMMER SEASON

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.33	122.0	1																			
20 TO 25	0.41	162.4	0																			
25 TO 30	0.45	192.0	0																			
30 TO 35	7.71	3422.3	107																			
ABOVE 35	5.02	2320.0	90																			
TOTAL	15.02	6209.4	190																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	4.5	5																			
1 TO 2	0.13	19.2	30																			
2 TO 5	0.45	95.0	80																			
5 TO 10	0.36	112.0	13																			
10 TO 15	0.45	150.5	12																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.43	302.0	140																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.03	4.5	5																			
1 TO 2	0.13	19.2	30																			
2 TO 5	0.45	95.0	80																			
5 TO 10	0.36	112.0	13																			
10 TO 15	0.45	150.5	12																			
15 TO 20	0.33	122.0	1																			
20 TO 25	0.41	162.4	0																			
25 TO 30	0.45	192.0	0																			
30 TO 35	7.71	3422.3	107																			
ABOVE 35	5.02	2320.0	90																			
TOTAL	15.35	6502.0	346																			

TABLE D344
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DOM RUANG A/D, BANGKOK, THAILAND
AND
NEW DELHI/PALAM A/D, INDIA
FOR THE
MONTH OF APRIL

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.00	31.0	0																			
20 TO 25	0.00	31.0	0																			
25 TO 30	0.09	36.2	0																			
30 TO 35	0.14	60.6	1																			
ABOVE 35	2.74	1210.0	5																			
TOTAL	3.13	1370.0	6																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.09	13.0	20																			
2 TO 5	0.10	20.9	17																			
5 TO 10	0.09	27.0	0																			
10 TO 15	0.07	23.0	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.38	65.4	33																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.09	13.0	20																			
2 TO 5	0.10	20.9	17																			
5 TO 10	0.09	27.0	0																			
10 TO 15	0.07	23.0	0																			
15 TO 20	0.00	31.0	0																			
20 TO 25	0.00	31.0	0																			
25 TO 30	0.09	36.2	0																			
30 TO 35	0.14	60.6	1																			
ABOVE 35	2.74	1210.0	5																			
TOTAL	3.48	1488.4	39																			

TABLE D343
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DON MUANG A/D, BANGKOK, THAILAND
AND
NEW DELHI/PALAN A/D, INDIA
FOR THE
MONTH OF MAY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.04	14.0	0																			
20 TO 25	0.04	17.0	0																			
25 TO 30	0.09	21.0	0																			
30 TO 35	0.10	42.0	0																			
ABOVE 35	1.20	541.0	0																			
TOTAL	1.91	637.0	0																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.01	2.0	0																			
1 TO 2	0.05	8.1	7																			
2 TO 5	0.17	39.3	53																			
5 TO 10	0.12	37.2	9																			
10 TO 15	0.08	27.9	0																			
15 TO 20	0.04	15.3	0																			
20 TO 25	0.04	14.0	0																			
25 TO 30	0.03	14.3	0																			
30 TO 35	0.60	247.0	0																			
ABOVE 35	1.09	474.2	0																			
TOTAL	2.43	902.6	69																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.31	2.0	0																			
1 TO 2	0.09	8.1	7																			
2 TO 5	0.17	39.3	53																			
5 TO 10	0.12	37.2	9																			
10 TO 15	0.08	27.9	0																			
15 TO 20	0.04	15.3	0																			
20 TO 25	0.04	14.0	0																			
25 TO 30	0.03	14.3	0																			
30 TO 35	0.90	390.2	0																			
ABOVE 35	1.20	541.0	0																			
TOTAL	2.22	1639.0	69																			

TABLE D344
DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
FOR THE ROUTE BETWEEN
DON MUANG A/D, BANGKOK, THAILAND
AND
NEW DELHI/PALAN A/D, INDIA
FOR THE
MONTH OF JULY
NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.25	92.0	0																			
20 TO 25	0.30	119.0	0																			
25 TO 30	0.32	195.0	0																			
30 TO 35	4.60	2009.0	33																			
ABOVE 35	5.02	2320.0	90																			
TOTAL	10.97	4757.1	123																			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.37	2.9	5																			
1 TO 2	0.10	15.0	21																			
2 TO 5	0.39	60.3	71																			
5 TO 10	0.29	90.0	13																			
10 TO 15	0.20	60.0	12																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	1.00	285.0	122																			

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEARS	GUST DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.02	2.0	5																			
1 TO 2	0.10	15.0	21																			
2 TO 5	0.39	60.3	71																			
5 TO 10	0.29	90.0	13																			
10 TO 15	0.20	60.0	12																			
15 TO 20	0.25	92.0	0																			
20 TO 25	0.30	119.0	0																			
25 TO 30	0.32	195.0	0																			
30 TO 35	4.60	2009.0	33																			
ABOVE 35	5.02	2320.0	90																			
TOTAL	11.60	5042.1	245																			

TABLE D94
 DISTRIBUTIONS OF DERIVED VERTICAL GUST VELOCITY
 FOR THE ROUTE BETWEEN
 DON MUANG A/D, BANGKOK, THAILAND
 AND
 NEW DELHI/PALAN A/D, INDIA
 FOR THE
 MONTH OF AUGUST

NON-STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.	0.	0																			
1 TO 2	0.	0.	0																			
2 TO 5	0.	0.	0																			
5 TO 10	0.	0.	0																			
10 TO 15	0.	0.	0																			
15 TO 20	0.00	30.4	1																			
20 TO 25	0.11	42.0	0																			
25 TO 30	0.13	54.4	0																			
30 TO 35	3.02	1322.7	74				1			2	3	7	25	30	4	1			1			
ABOVE 35	0.	0.	0																			
TOTAL	3.15	1492.7	75				1			2	3	7	25	31	4	1			1			

STORM CONDITIONS

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.01	1.3	0																			
1 TO 2	0.03	4.2	0										1									
2 TO 5	0.07	15.5	17										1	2	4	7	2	1				
5 TO 10	0.07	22.6	0																			
10 TO 15	0.17	53.7	0																			
15 TO 20	0.	0.	0																			
20 TO 25	0.	0.	0																			
25 TO 30	0.	0.	0																			
30 TO 35	0.	0.	0																			
ABOVE 35	0.	0.	0																			
TOTAL	0.35	97.6	26										2	2	4	7	7	4				

STORM PLUS NON-STORM

ALTITUDE (1000 FT)	TIME (HOURS)	NAUTICAL MILES	TOTAL PEAKS	WIND DISTRIBUTION (FT./SEC.)																		
				-35	-30	-25	-20	-17.5	-15	-12.5	-10	-7.5	-5	+5	+7.5	+10	+12.5	+15	+17.5	+20	+25	+30	+35
BELOW 1	0.01	1.3	0																			
1 TO 2	0.03	4.2	0																			
2 TO 5	0.07	15.5	17										1	2	4	7	2	1				
5 TO 10	0.07	22.6	0																			
10 TO 15	0.17	53.7	0																			
15 TO 20	0.00	30.4	1																			
20 TO 25	0.11	42.0	0																			
25 TO 30	0.13	54.4	0																			
30 TO 35	3.02	1322.7	74				1			2	3	7	25	30	4	1			1			
ABOVE 35	0.	0.	0																			
TOTAL	3.70	1499.0	101				1			2	3	7	29	38	11	5			1			

REFERENCES

1. Militello, J. ; Instrumentation of the C-141 Aircraft for Load Experience and Turbulence Studies; University of Dayton Research Institute Technical Report No. 66-114; October 1966.
2. Blount, E. E. ; C-141A Fatigue Criteria and Spectra, Volume I, Fatigue Criteria; Lockheed Aircraft Corporation Report No. ER-5007; 10 January 1962 as revised 14 October 1964.
3. Pratt, K. G. and Walker, W. G. ; A Revised Gust-Load Formula and a Re-evaluation of V-G Data Taken on Civil Transport Airplanes from 1933 to 1950; NACA Report 1206; 1954.
4. Military Specification; MIL-A-8861 (ASG); 18 May 1960.
5. C-141 Aircraft Flight Loads Data Program, 6000-Hour Periodic Data Report, Lead-the-Force Data; University of Dayton Research Institute; 16 November 1966.
6. C-141 Aircraft Flight Loads Data Program, 175-Hour Periodic Data Report, Ground Loads Study Data; University of Dayton Research Institute; 17 November 1966.
7. C-141 Aircraft Flight Loads Data Program, 6000-Hour Periodic Data Report, Volume I, Interim Flight Loads Data, and Volume II, Turbulence Study Composite; University of Dayton Research Institute, 9 December 1966.

UNCLASSIFIED

Security Classification

DOCUMENT CONTROL DATA - R&D		
<i>(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)</i>		
1 ORIGINATING ACTIVITY (Corporate author) University of Dayton Research Institute Dayton, Ohio		2a REPORT SECURITY CLASSIFICATION Unclassified
		2b GROUP N/A
3 REPORT TITLE Structural Loads Data from C-141A Aircraft		
4 DESCRIPTIVE NOTES (Type of report and inclusive dates) Final Report July 65-December 66		
5 AUTHOR(S) (Last name, first name, initial) Schwartz, Robert B.		
6 REPORT DATE April 1967	7a TOTAL NO OF PAGES 492	7b NO OF REFS 7
8a CONTRACT OR GRANT NO. AF 33(657)-14424	9a ORIGINATOR'S REPORT NUMBER(S) N/A	
b PROJECT NO. Task No. 476L	9b OTHER REPORT NO(S) (Any other numbers that may be assigned this report) ASD-TR-67-1	
10 AVAILABILITY/LIMITATION NOTICES This document is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with prior approval of the C-141 System Program Office		
11 SUPPLEMENTARY NOTES	12 SPONSORING MILITARY ACTIVITY C-141 System Program Office Wright-Patterson AFB, Ohio	
13 ABSTRACT The primary purpose of this report is to present the structural load history information and the atmospheric turbulence data acquired and reduced for the C-141A Aircraft Flight Loads Data Program. Also included in this report are descriptions and discussions of the methods employed in the acquisition and processing of the data. The C-141A Aircraft Flight Loads Data Program was a single project which incorporated four separate concepts: an Interim Flight Loads Program, a Ground Loads Study, a Lead-the-Force Flight Loads Program, and an Atmospheric Turbulence Study. A total of from 28 to 35 aircraft at four Air Force Bases were employed at various periods during this effort to obtain structural load history and atmospheric turbulence data. Eight aircraft were instrumented for the acquisition of ground load experience data. A total data sample of 12,430 flight hours of flight loads data, 2,786 hours of atmospheric turbulence data, and 174.5 hours of ground load experience data was acquired and reduced during this program and is presented in this report. The structural load history data presented in this report is presently being employed in fatigue evaluations of the C-141A aircraft by the C-141 System Program Office. (This Abstract is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with prior approval of the C-141 System Program Office.)		

DD FORM 1473
1 JAN 64

UNCLASSIFIED

Security Classification

UNCLASSIFIED

Security Classification

14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	R	WT	ROLE	WT
Maneuver Load Factors						
Loads Spectrum						
Mission Types						
Mission Phase						
Base - Tinker, Travis, Dover, Charleston						
Velocity Spectrum						
Altitude Spectrum						
VGH Program						

INSTRUCTIONS

1. **ORIGINATING ACTIVITY:** Enter the name and address of the contractor, subcontractor, grantee, Department of Defense activity or other organization (*corporate author*) issuing the report.

2a. **REPORT SECURITY CLASSIFICATION:** Enter the overall security classification of the report. Indicate whether "Restricted Data" is included. Marking is to be in accordance with appropriate security regulations.

2b. **GROUP:** Automatic downgrading is specified in DoD Directive 5200.10 and Armed Forces Industrial Manual. Enter the group number. Also, when applicable, show that optional markings have been used for Group 3 and Group 4 as authorized.

3. **REPORT TITLE:** Enter the complete report title in all capital letters. Titles in all cases should be unclassified. If a meaningful title cannot be selected without classification, show title classification in all capitals in parenthesis immediately following the title.

4. **DESCRIPTIVE NOTES:** If appropriate, enter the type of report, e.g., interim, progress, summary, annual, or final. Give the inclusive dates when a specific reporting period is covered.

5. **AUTHOR(S):** Enter the name(s) of author(s) as shown on or in the report. Enter last name, first name, middle initial. If military, show rank and branch of service. The name of the principal author is an absolute minimum requirement.

6. **REPORT DATE:** Enter the date of the report as day, month, year, or month, year. If more than one date appears on the report, use date of publication.

7a. **TOTAL NUMBER OF PAGES:** The total page count should follow normal pagination procedures, i.e., enter the number of pages containing information.

7b. **NUMBER OF REFERENCES:** Enter the total number of references cited in the report.

8a. **CONTRACT OR GRANT NUMBER:** If appropriate, enter the applicable number of the contract or grant under which the report was written.

8b, 8c, & 8d. **PROJECT NUMBER:** Enter the appropriate military department identification, such as project number, subproject number, system numbers, task number, etc.

9a. **ORIGINATOR'S REPORT NUMBER(S):** Enter the official report number by which the document will be identified and controlled by the originating activity. This number must be unique to this report.

9b. **OTHER REPORT NUMBER(S):** If the report has been assigned any other report numbers (*either by the originator or by the sponsor*), also enter this number(s).

10. **AVAILABILITY/LIMITATION NOTICES:** Enter any limitations on further dissemination of the report, other than those

imposed by security classification, using standard statements such as:

- (1) "Qualified requesters may obtain copies of this report from DDC."
- (2) "Foreign announcement and dissemination of this report by DDC is not authorized."
- (3) "U. S. Government agencies may obtain copies of this report directly from DDC. Other qualified DDC users shall request through _____."
- (4) "U. S. military agencies may obtain copies of this report directly from DDC. Other qualified users shall request through _____."
- (5) "All distribution of this report is controlled. Qualified DDC users shall request through _____."

If the report has been furnished to the Office of Technical Services, Department of Commerce, for sale to the public, indicate this fact and enter the price, if known.

11. **SUPPLEMENTARY NOTES:** Use for additional explanatory notes.

12. **SPONSORING MILITARY ACTIVITY:** Enter the name of the departmental project office or laboratory sponsoring (*paying for*) the research and development. Include address.

13. **ABSTRACT:** Enter an abstract giving a brief and factual summary of the document indicative of the report, even though it may also appear elsewhere in the body of the technical report. If additional space is required, a continuation sheet shall be attached.

It is highly desirable that the abstract of classified reports be unclassified. Each paragraph of the abstract shall end with an indication of the military security classification of the information in the paragraph, represented as (TS), (S), (C), or (U).

There is no limitation on the length of the abstract. However, the suggested length is from 150 to 225 words.

14. **KEY WORDS:** Key words are technically meaningful terms or short phrases that characterize a report and may be used as index entries for cataloging the report. Key words must be selected so that no security classification is required. Identifiers, such as equipment model designation, trade name, military project code name, geographic location, may be used as key words but will be followed by an indication of technical context. The assignment of links, rules, and weights is optional.

UNCLASSIFIED

Security Classification