AD-757 040

QUARTERLY TECHNICAL REPORT NUMBER 18, JULY 1, 1972 - SEPTEMBER 30, 1972

R. J. Rummel

Hawaii University

Prepared for:

Advanced Research Projects Agency

October 1972

DISTRIBUTED BY:

National Technical Information Service U. S. DEPARTMENT OF COMMERCE 5285 Port Royal Road, Springfield Va. 22151



THE DIMENSIONALITY OF NATIONS FROJECT Department of Political Science University of Hawaii

Sponsored by Advanced Research Projects Agency ARPA Order No. 1063 Amend. No. 4



THE DIMENSIONALITY OF NATIONS PROJECT QUARTERLY TECHNICAL REPORT NO. 18 JULY 1, 1972 - SEPTEMBER 30, 1972

This research was supported by the Advanced Research Projects Agency of the Department of Defense and was monitored by ONR under Contract No. N00014-67-A-0387-0003.

The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the Advanced Research Projects Agency or the U.S. Government.

This document has been approved for public release and sale; its distribution is unlimited and reproduction in whole or in part is permitted for any purpose of the United States Government.

Security Classification					
DOCUMENT	CONTROL DATA - R & D				
OFFCHRITY Classification of title, body of ubstract and OFFCHRATING ACTIVITY (Corporate author)	indexing aunotation most be entered when the overall report is of	assilied)			
DIMENSIONALITY OF NATIONS PROJECT	UNCLASSIFIED	ICATION			
	26. GROUP				
REPORT TITLE					
QUARTERLY TECHNICAL REPORT NO. 18 JUI	LY 1, 1972 - SEPTEMBER 30, 1972				
QUARTERLY TECHNICAL REPORT NO. 18 JUI	Y 1, 1972 - SEPTEMBER 30, 1972				
AUTHOR(5) (First name, middle initial, last rame) R. J. Rummel					
REPORT DATE					
OCTOBER 1972	74. TOTAL NO OF PAGES ID. NO OF REFS				
CONTRACT OR GRANT NO	0				
N00014-67-A-0387-0003	94. ORIGINATOR'S REPORT NUMBER(S)				
PROJECT NO.	Quarterly Technical Report No.	18			
•	95. OTHER REPORT NOISI (Any other numbers that me this report)				
	this report)	ey be assigned			
DISTRIBUTION STATEMENT	blic release and sale; its distribution				
SUPPLEMENTARY NOTES 2500 Campus Road Honolulu, Hawaii 96822	Advanced Research Projects Agency Washington, D.C.	Research Projects Agency			
ABSTRACT					
During this quarter, A-space for B-space, all data for all variables Data collection for the Asi Data for approximately 40 behavioral variables collected during the coming quarter. Dr. R. J. Rummel, the Princ	ipal Investigator and Director of DON,				

.

UNCLASSIFIED Security Classification

4 KEY WORDS		LINKA		LINK		LINK C			
				ROLE	WT	ROLE	W T	ROLE	WT
uarterly Tec	hnical Report								
					:				
						1 1			
								1	
							_		
					_				
				1 - 1					
								- 1	
								- D	
					1		ĺ		
	73	Att						- in the	
D . HOY 14	15 (BACK)	山			UNCL	ASSIFI	ED		
IGE ()			•		Co mail to	Clessific			

THE DIMENSIONALITY OF MATIONS PROJECT QUARTERLY TECHNICAL REPORT NO. 18 JULY 1, 1972 - SEPTEMBER 30, 1972

INTRODUCTION

This eighteenth quarterly report is divided into seven sections. The first describes the analyses initiated and completed during the quarter; the results of special significance are highlighted. Methodological problems faced during the analyses along with any computer programs that have been written or revised during the quarter are discussed in the second section. In this and the previous section, technical terms and discussions are avoided where possible. The third section describes the data collections begun and completed during the quarter. Current personnel, personnel commitments made and consultation are noted in the fourth section. Project activities are discussed in the fifth section and the sixth section covers project publications, research reports, and monographs in preparation and completed. The final section delineates changes in the DON budget, status of subcentracts, and expenditures to date.

I. ANALYSES

During this quarter, factor analyses for the A-space data were performed. Factor analyses were carried out separately for each of five years (1950, 1955, 1960, 1963, and 1965) and for a combination of all the years as one matrix (Super-P analyses).

Preliminary examination of the results of the factor analyses reveals fairly consistent factor dimensions across time points. Nowever, the interpretation has been postponed because of some data errors (see III below) and methodological problems (see II below). In the coming period, the errors will be corrected and factor analyses for the A-space data will be redone.

II. METHODOLOGY AND COMPUTER PROGRAMS

As we have previously reported, we have developed a new missing data estimation program, MISVAL. During this quarter, MISVAL was used for A-space factor analyses. Careful comparison between the results of MISVAL and the old Dynamic Missing Data Estimation Program, however, showed that MISVAL is too "sensitive" to slight changes in the data. In the coming quarter, the program will be reexamined.

Another computer program, "Dynamic Revised Distance Program," was also found to contain a small but significant error. This has been corrected.

III. DATA

Recently we found that the A-space data sets include some errors (punching errors, miscalculation, etc.). Considering that there will be no way to detect errors by future users once our data are published, we decided to revise the data sets. The revision will take two or three weeks. Consequently, publication of a DON research report, "Attribute Data of Nations," will be delayed.

Meanwhile during this quarter, all of the data for B-space variables were collected. Now we are screening the collected data with the help of the computer using the DATASURV program.

During this quarter, we began a new data collection job for the "Asian Subsystem" analysis, which is a part of DON's Phase III tasks. The work will include collection of data for about 40 behavioral variables for a total of 381 Asian dyads for five time points (1950, 1955, 1960, 1963 and 1965). According to our current plan, the job should be completed during the coming quarter.

IV. PERSONNEL

4.1 Project Director

During this quarter, the Principal Investigator and Director of DON, Dr. R. J. Rummel, has begun writing Forces of Nations, the volumes which will integrate the output of ten years of research performed by the DON Project. Dr. Rummel has also finished checking the galley proofs of and has made out indices for <u>Dimensions of Nations</u>, a book to be published in October.

4.2 Assistant Director

Dr. Sang-Woo Rhee, Assistant Director of DON, has mainly engaged in data and analyses jobs during this quarter. Dr. Rhee has organized all data and analyses jobs, and has supervised each step of the analyses.

Meanwhile, Dr. Rhee has continued his work on the test of Status-Field Theory which is comprised of a series of several independent researches covering various nations and sets of data. Now Dr. Rhee is collecting China's behavioral data for sixteen years (1950-1965) to enlarge his previous study, "China's Cooperation, Conflict and Interaction Behavior; Viewed from Rummel's Status-Field Theoretic Perspective" to test cross-time validity of the Status-Field Theory. Dr. Rhee has also completed a study design of another research for testing Status-Field Theory, "North Korea's Unification Policies: Pattern Shift in the Contents of Official Messages in Changing International Political Settings."

4.3 Associate Researcher

Dr. George Kent, Associate Researcher, has left DON to take a full-time teaching position in the Department of Political Science, University of Hawaii.

As of now, there is no associate researcher working for the Project.

4.4 Research Assistants

During this quarter, two of our former research assistants left DON to take teaching assistantships in the Department of Political Science, University of Hawaii (Mr. Chang-Yoon Choi and Mr. John McIlroy). Another assistant, Mr. Peter Sybinsky has also left DON to take an East-West Center grant. By the end of the quarter, two research assistants were working for the Project: Edward Schwerin and George Omen.

Two student helpers, Misses Joyce Nakasone and Valerie Nishida, worked for DON doing data jobs. Three graduate students, all majoring in International Relations, volunteered to work for DON: Yong-ok Park, Kook-Chin Kim, and Chung-si Ahn.

4.5 Other Staff Members

During this quarter, Mrs. Ora Mae Barber, Administrative Assistant, left DON and was replaced by Miss Karen Iao. Mr. Charles Wall (Computer Programmer) and Miss Sumie Ono (Data Archivist) have also left DON. Mrs. Grace Rummel has worked for DON as a Technical Editor.

V. DON ACTIVITIES

5.1 DON Staff Meetings

Staff meetings were held every other week during this quarter. All of the meetings were devoted to discussion of technical problems which had occurred on routine jobs.

VI. PUBLICATIONS AND REPORTS

None.

VII. BUDGET

7.1 Fiscal Status

During the last quarter, it was seen that data collection would not be completed in time for DON to finish the Tasks planned for this summer. Accordingly, funds were laid aside to enable this data collection and analysis to extend beyond the period of the current grant.

A no-funding extension proposal was also submitted to ARPA to request approval to utilize these funds during the period September 1, 1972 - August 31, 1973. This proposal was approved during this quarter (Modification 08 to our Contract N00014-67-A-0387-0003 extends the project period to August 31, 1973) and a new budget has been drawn up to cover the additional period.

No additional funding needs are anticipated, and we fully expect to complete our tasks within the following year.

7.1.1 Amount Funded The maximum amount available for reimbursement is \$871,846.00.
7.1.2 Estimate Expenditures and Commitments: Total Expenditures to date (09-01-67 to 09-30-72): \$783,210.00 Total Estimated Expenditures (09-01-67 through 08-31-73)
\$871,846.00

7.1.3 Estimated Funds Required: None.