

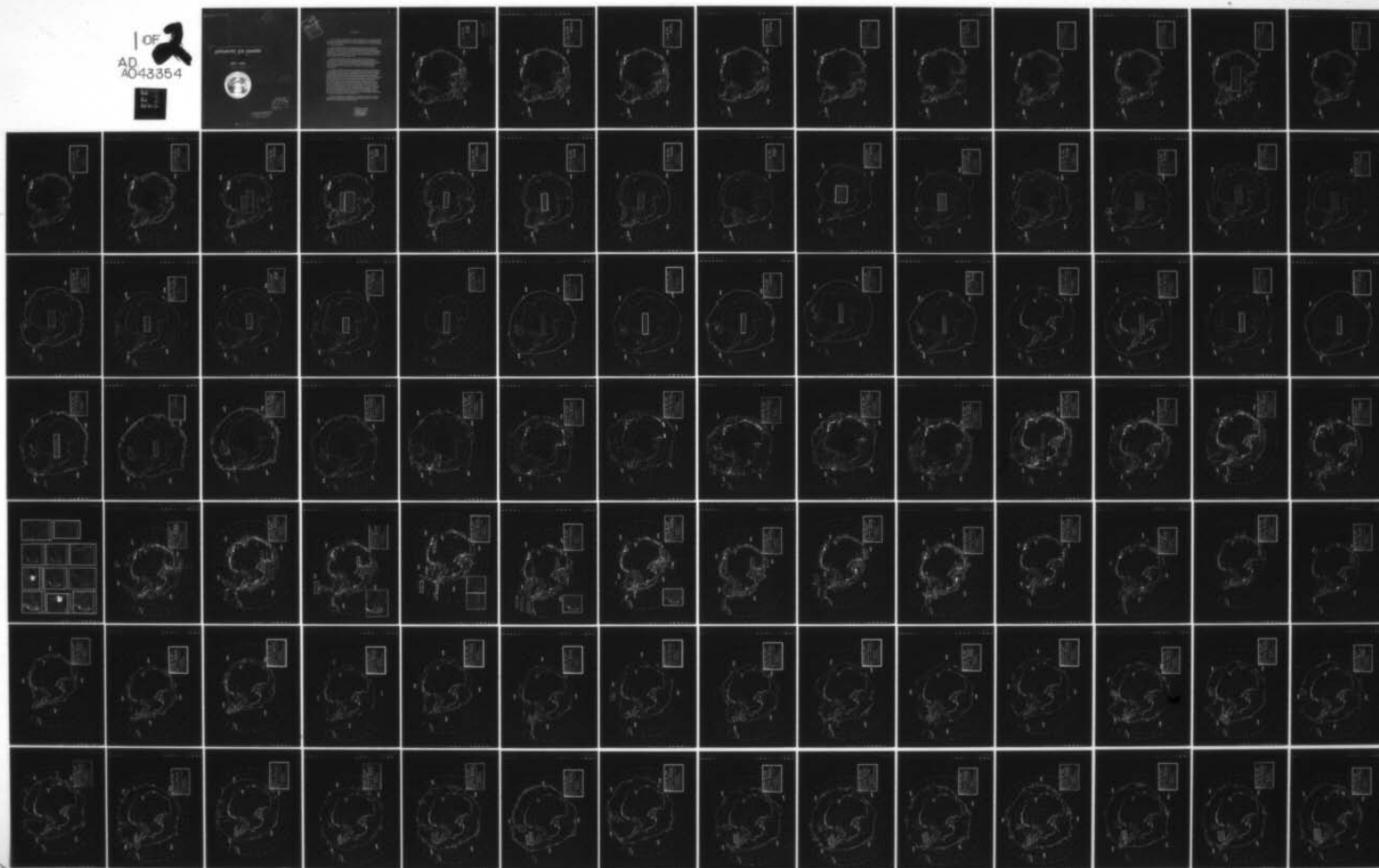
AD-A043 354 FLEET WEATHER FACILITY SUITLAND MD
ANTARCTIC ICE CHARTS 1975-1976. (U)
1976

F/G 8/12

UNCLASSIFIED

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1 OF 2
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B.S.

⑥

ANTARCTIC ICE CHARTS

1975—1976



⑪ 1976

⑫ 4347

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 AUG 24 1977
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BY		
DATE	TIME	DATE
INITIALS		

FOREWARD

The U.S. Navy has a long and colorful history of polar exploration and currently is an active participant in the growing national activity in the Arctic and Antarctic. The strategic importance and increased demand for the natural resources of these areas has resulted in a greater requirement for environmental information.

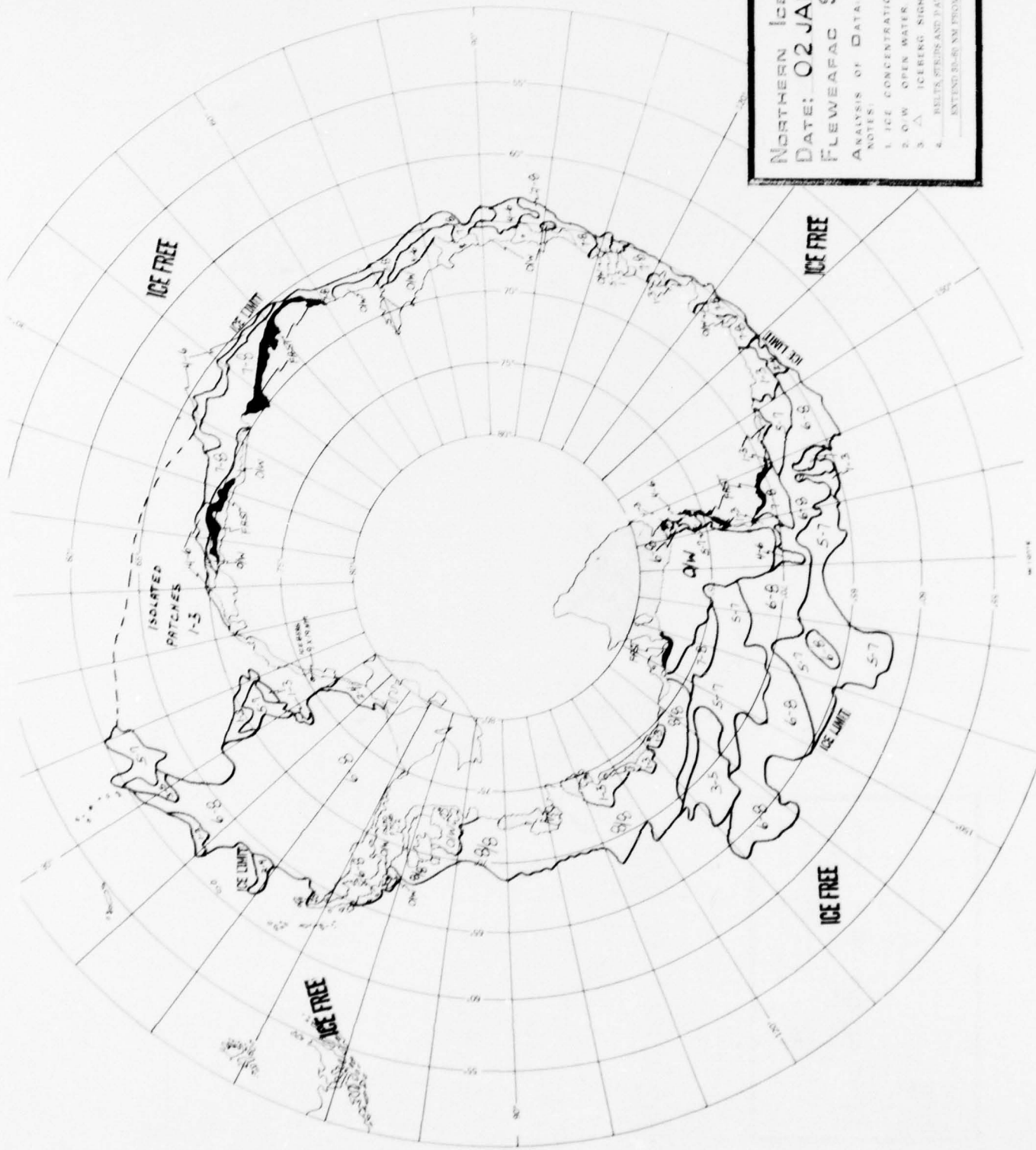
Until a few years ago, reliable sea ice information in the polar regions was based on a relatively few shore station and ship reports augmented by limited aerial reconnaissance data. These data were further restricted to the relatively small areas observed primarily during the ship operating season. The principal aim of this publication is to provide operators and researchers with historical weekly hemispheric analyses of sea ice conditions derived principally from satellite imagery supplemented by conventional observations.

The advent of high resolution satellite imagery combined with the ground truth of conventional observations has only recently provided description of the polar ice fields on a semi-synoptic scale. Since 1970, the Fleet Weather Facility at Suitland, Maryland has prepared operational analyses and forecasts of sea ice conditions in the Arctic and Antarctic for the Department of Defense and various other users. The results of these initial efforts are contained herein.

The charts were constructed by Navy ice analysts under operational time constraints from satellite imagery and conventional data. Reanalysis with late data was not normally attempted; rather the current analysis was prepared incorporating this to the extent possible. The analysis was compared with available climatology in an attempt to eliminate gross errors. Scanning radiometer imagery, visual and infrared, from the National Oceanic and Atmospheric Administration (NOAA) satellites and microwave radiometer data from the NIMBUS V research satellite were the primary data sources. Limited use of the Earth Resources LANDSAT and Defense Meteorological Satellite Program (DMSP) imagery as well as conventional observations were utilized. The 19.35 GHZ microwave radiometer with 25 kilometer (KM) resolution aboard NIMBUS V provided an ice edge and limited inner pack conditions. This was the basic data source during the polar night and over areas dominated by persistent cloud cover. During the seasons with adequate light, visual data from the Very High Resolution Radiometer (VHRR) with 1 KM resolution and the 4 KM resolution data from the Scanning Radiometer aboard NOAA 2, 3, and 4 satellites were utilized. Infrared radiometer data was of limited value primarily due to seasonally small water-ice temperature differences.

The user of this publication is reminded that the information presented reflects an initial effort prepared for operational use and should temper his application accordingly. Comments regarding any aspect of the analysis effort are welcomed.

VINCENT W. ROPER
 Commander, U. S. Navy
 Commanding Officer
 Fleet Weather Facility
 Suitland, Maryland



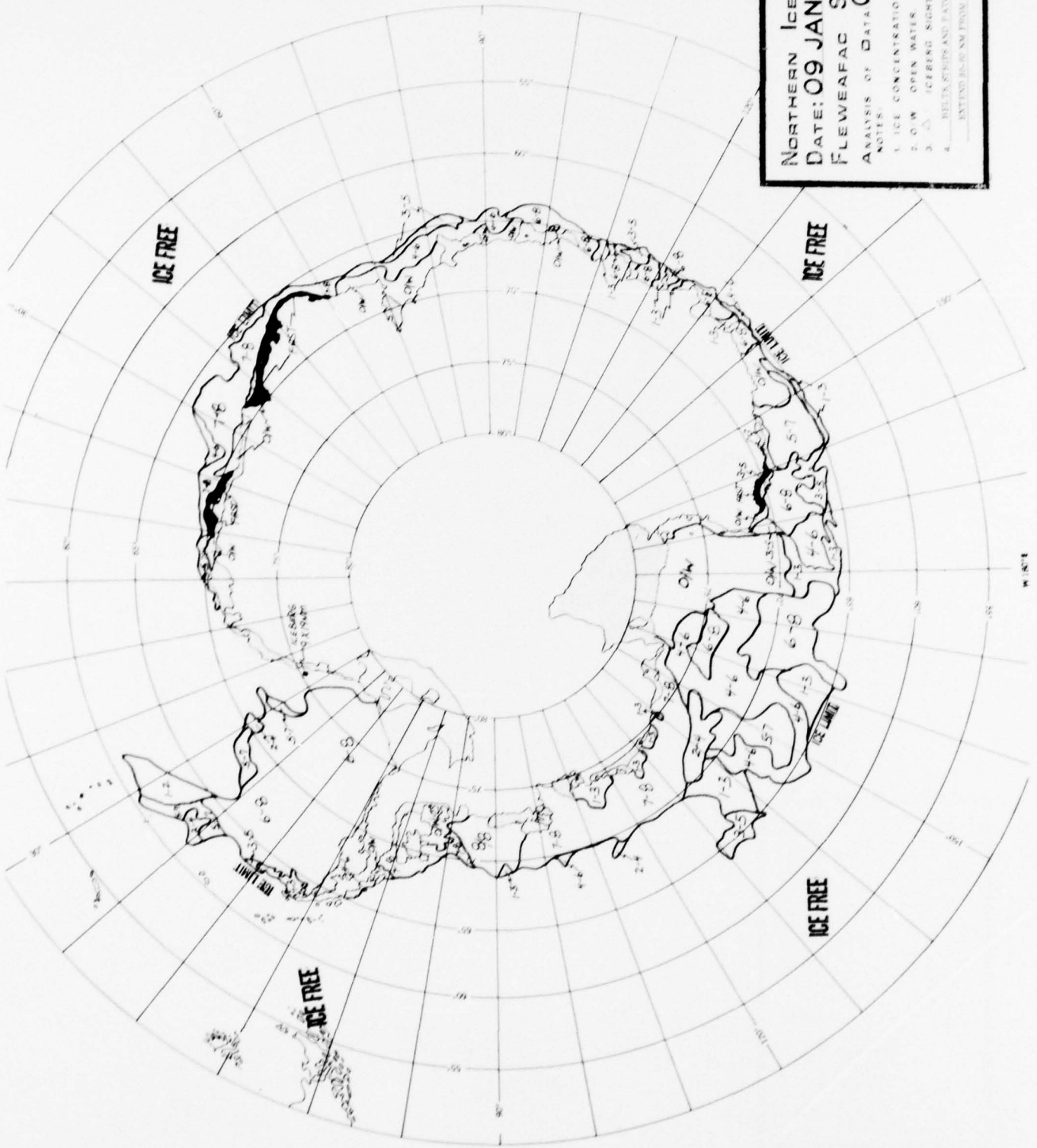
NORTHERN ICE LIMIT
 DATE: 02 JAN 1975
 FLEWEAFAC SUITLAND
 ANALYSIS OF DATA: 29 DEC - 02 JAN
 NOTES:
 1. ICE CONCENTRATIONS IN UNITS
 2. ○ W OPEN WATER
 3. △ ICEBERG SIGHTING
 4. ■ BELTA STRIPS AND PATCHES MAY
 EXTEND 25-50 NM FROM EDGE

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 AUG 24 1977
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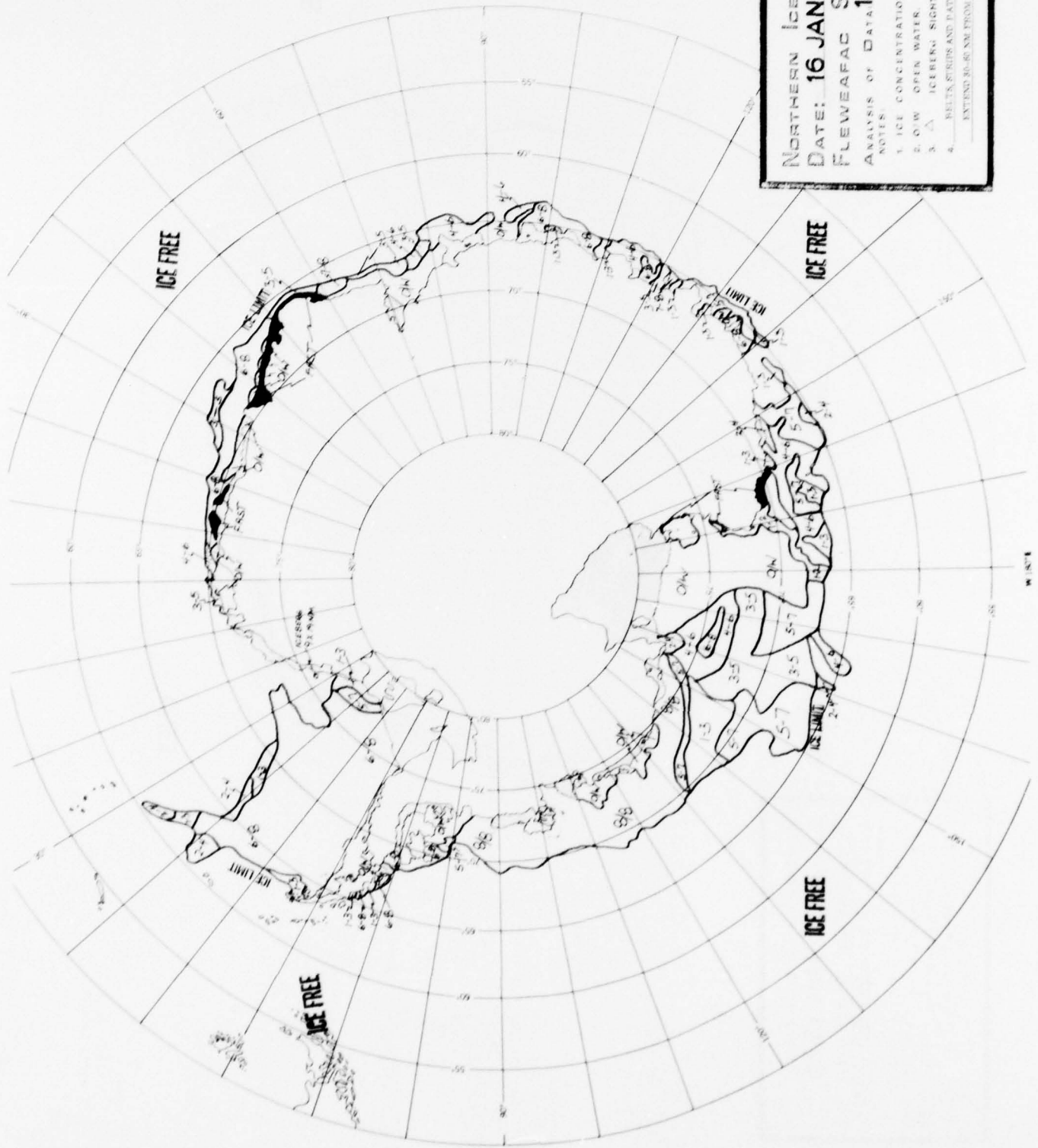
NORTHERN ICE LIMIT
DATE: 09 JAN 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 06-09 JAN

NOTES:
 1. ICE CONCENTRATIONS IN OBTAS
 2. 0.0W OPEN WATER
 3. 0.1W ICEBERG SIGHTING
 4. BELTS, STOPS AND FAULTS MAY EXTEND 25.0 NM FROM ITSELF

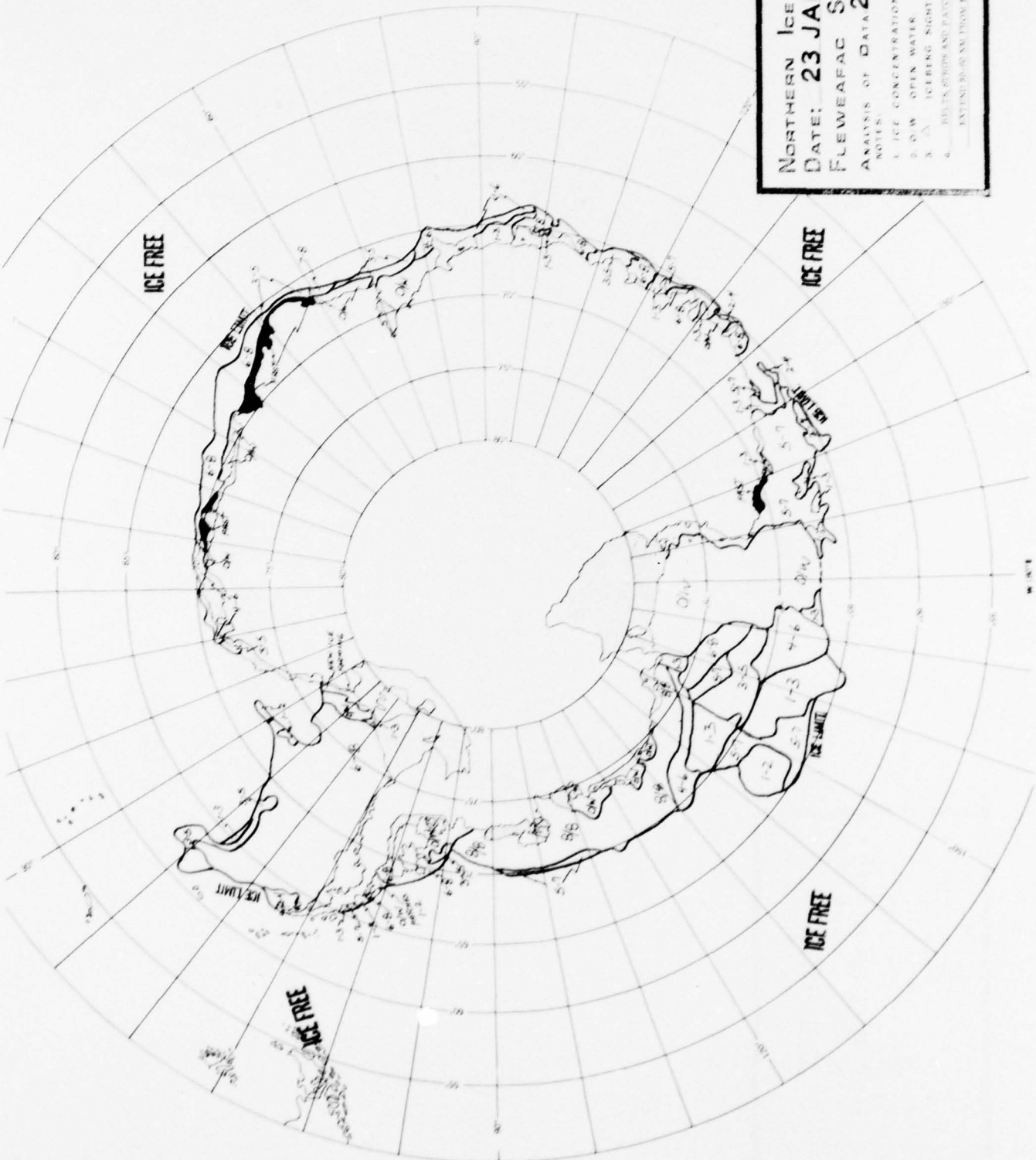


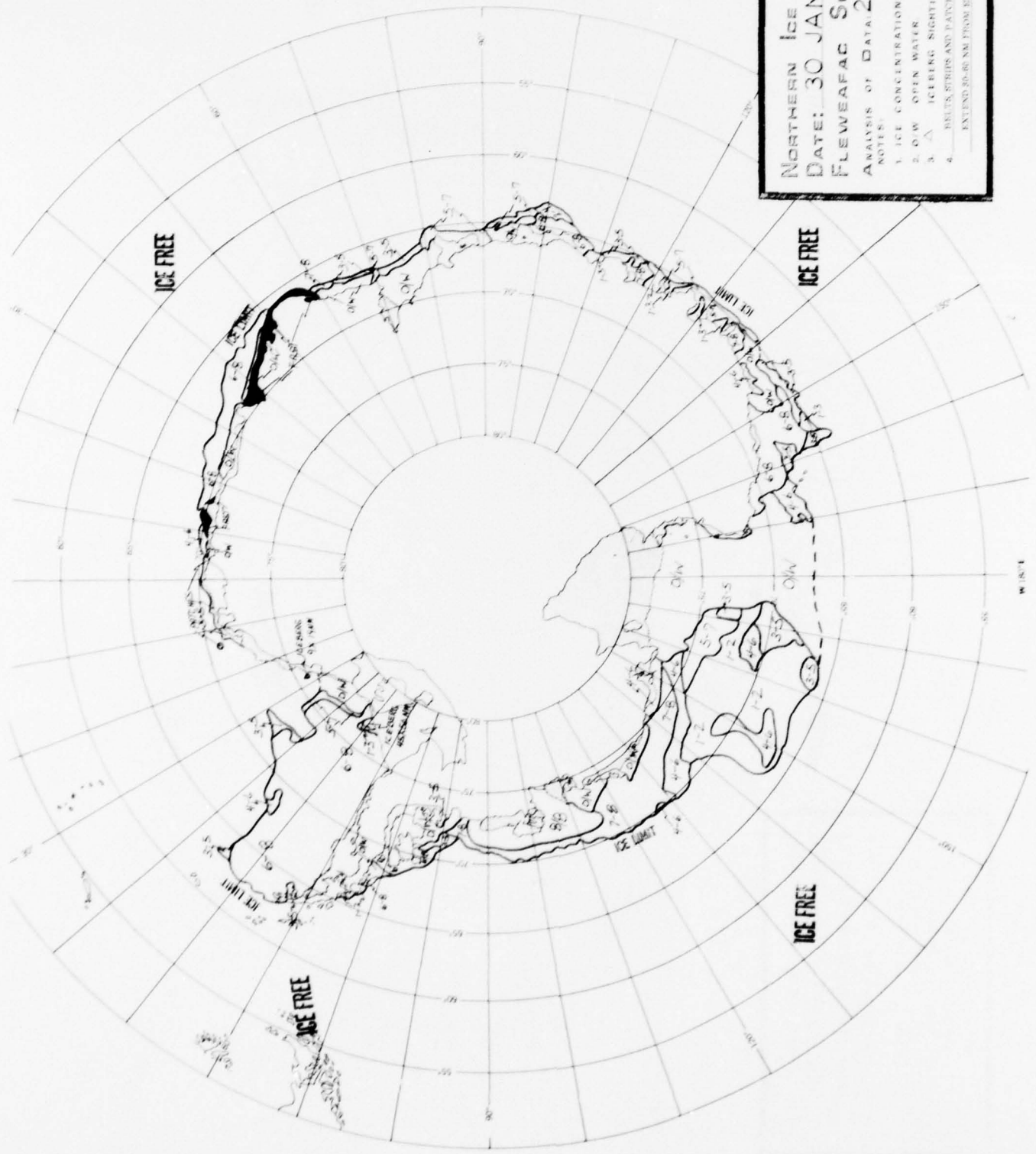
11/871

NORTHERN ICE LIMIT
DATE: 16 JAN 1975
FLEWEAFAC SUITLAND
13-16 JAN
 ANALYSIS OF DATA IN ONTAS.
 NOTES:
 1. ICE CONCENTRATIONS IN ONTAS.
 2. OW OPEN WATER.
 3. △ ICBERG SIGHTING.
 4. — BELTS, STIPS AND PATCHES MAY
 EXTEND 30-60 NM FROM LINE.



NORTHERN ICE LIMIT
 DATE: 23 JAN 1975
 FLEWEAFAC SUITLAND
 20-23 JAN
 ANALYSIS OF DATA
 NOTES:
 1. ICE CONCENTRATIONS IN ONTAS
 2. LOW OPEN WATER
 3. ICEBERG SIGHTING
 4. BUSTEN SHIPS AND FAVORITE MAY
 EXTEND SOUTH FROM LINE



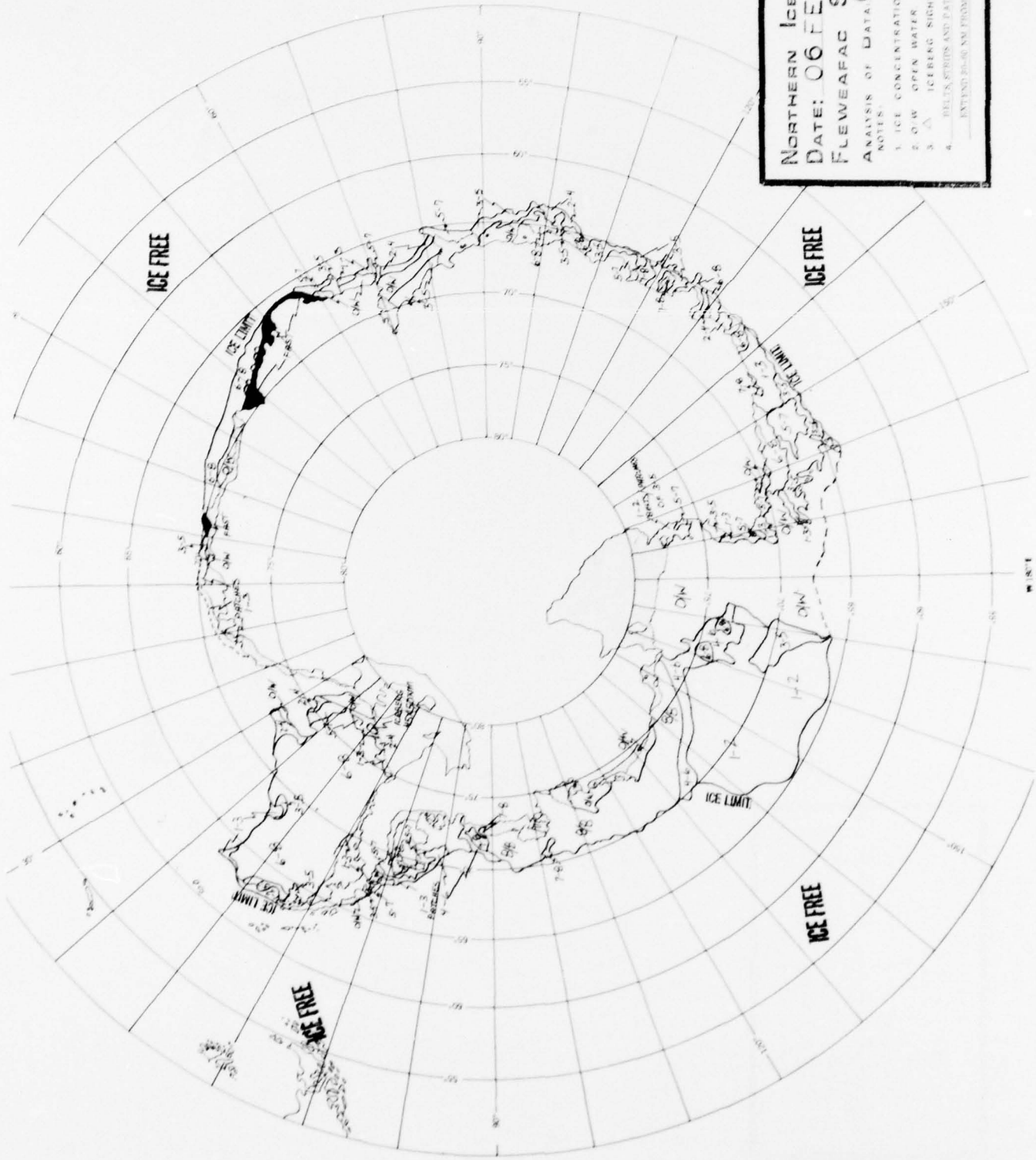


NORTHERN ICE LIMIT
DATE: 30 JAN 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 27-30 JAN

NOTES:
 1. ICE CONCENTRATIONS IN ONTAS
 2. O/W OPEN WATER
 3. Δ ICEBERG SIGHTING
 4. BELTS, STRIPS AND PATCHES MAY EXTEND 30-60 NM FROM EDGE

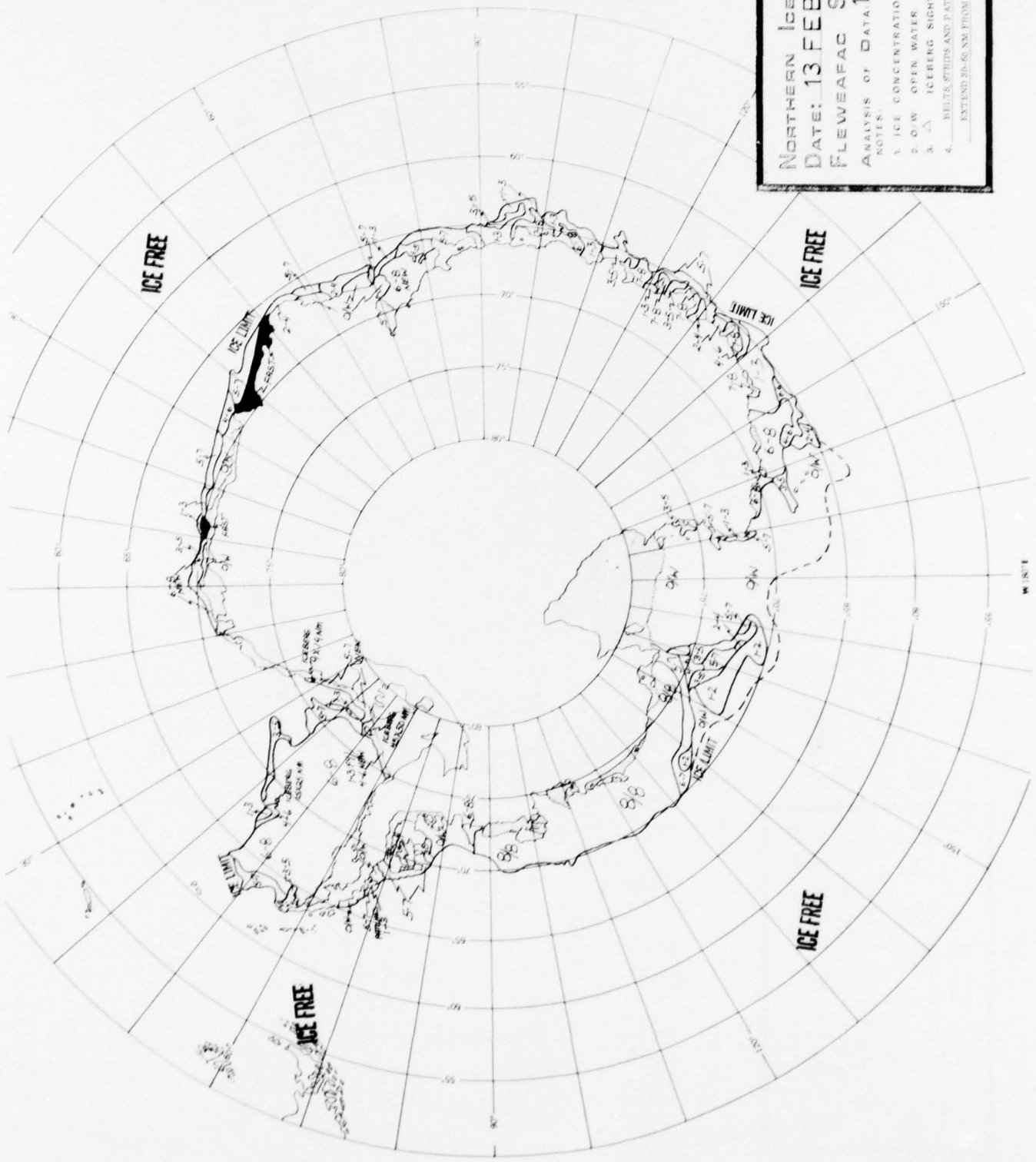
NORTHERN ICE LIMIT
DATE: 06 FEB 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 03-06 FEB

NOTES:
 1. ICE CONCENTRATIONS IN ONTAS.
 2. O/W OPEN WATER
 3. ▲ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY EXTEND 20-30 NM FROM LINE.

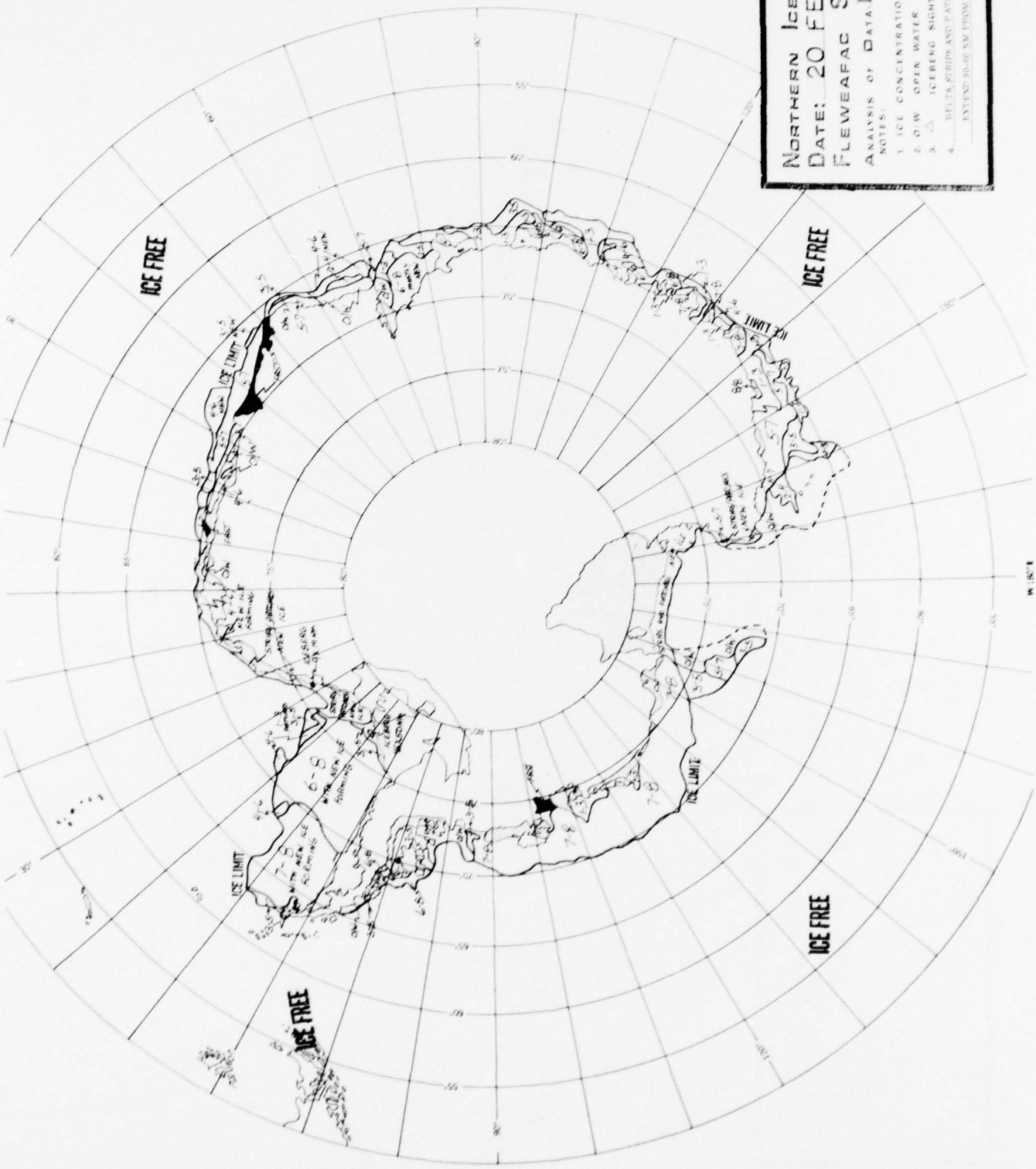


11/18/75

NORTHERN ICE LIMIT
 DATE: 13 FEB 1975
 FLEWEAFAC SUITLAND
 ANALYSIS OF DATA 11-13 FEB
 NOTES:
 1. ICE CONCENTRATIONS IN ONTAS.
 2. OW OPEN WATER
 3. Δ ICEBERG SIGHTING.
 4. BELTA STRIPS AND PATCHES MAY
 EXTEND 20-50 NM FROM FINE

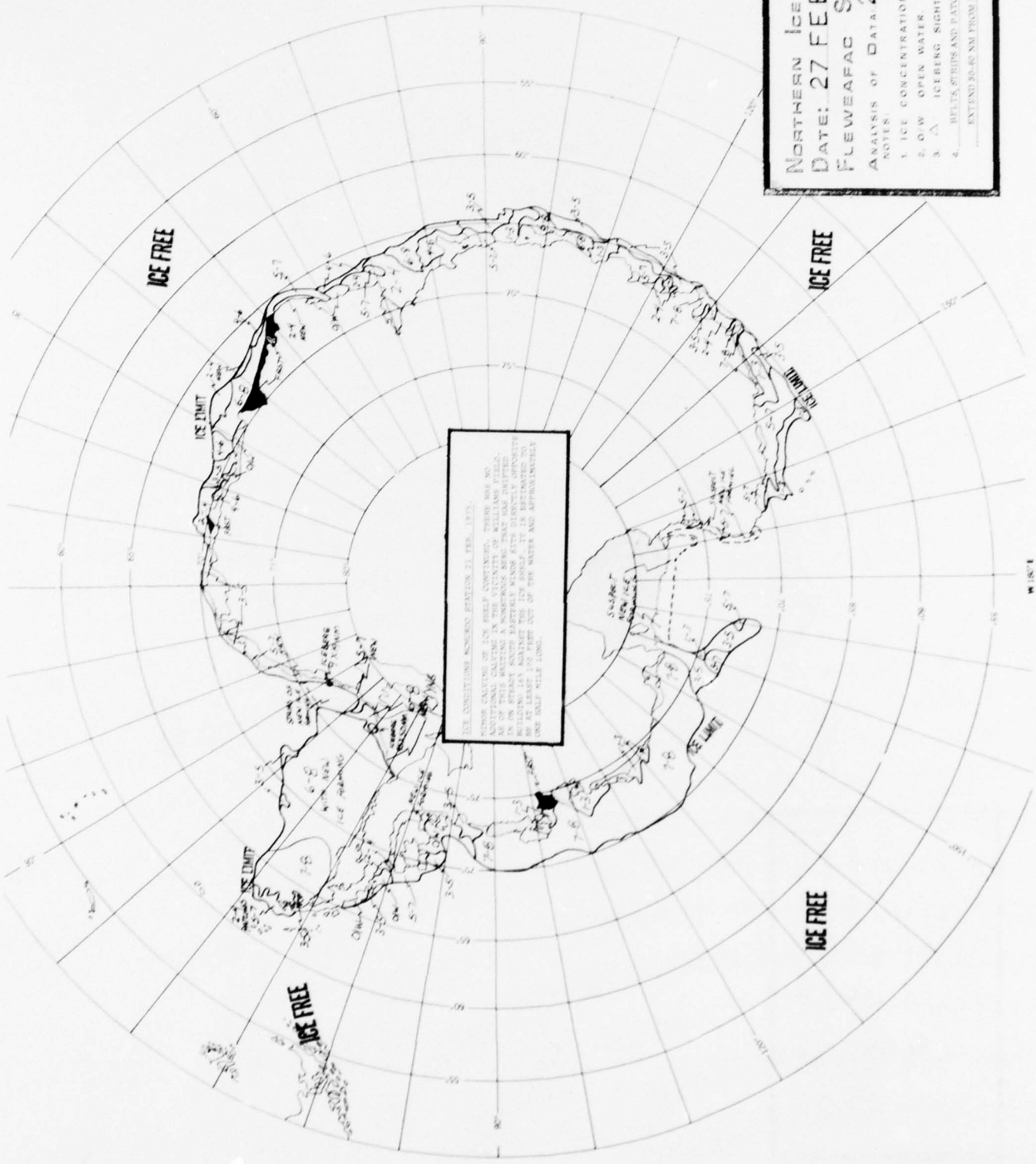


NORTHERN ICE LIMIT
DATE: 20 FEB 1975
FLEWEAFAC SUITLAND
 ANALYSIS OF DATA 17-20 FEB
 NOTES:
 1. ICE CONCENTRATIONS IN ONTAS
 2. O/W OPEN WATER
 3. ▲ ICEBERG SIGHTING
 4. BELTS, STRIPS AND PATCHES MAY
 EXTEND 30-60 NM FROM EDGE



NORTHERN ICE LIMIT
DATE: 27 FEB 1975
FLEWEAFAC SUTLAND
ANALYSIS OF DATA 24-27 FEB

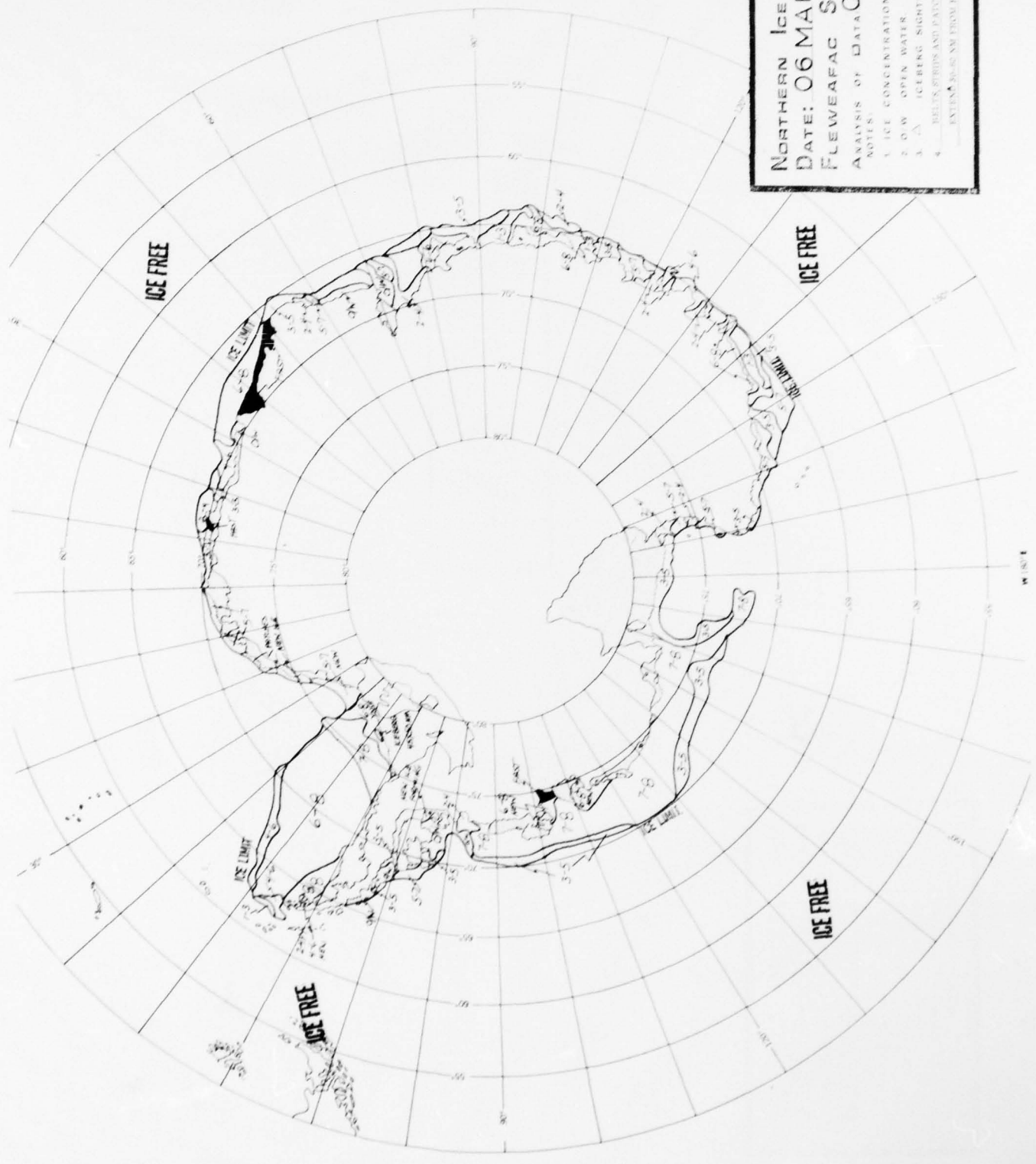
NOTES:
 1. ICE CONCENTRATIONS IN ONTAS.
 2. OW OPEN WATER.
 3. ▲ ICE BERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY EXTEND 50-60 NM FROM EDGE.



ICE INVESTIGATOR WILSON STATION 21 FEB. 1975.
 PACIFIC CAUSE OF ICE SHELF CONTINUING. THERE WAS NO
 ADDITIONAL CAUSING IN THE VICINITY OF WILLIAMS FIELD.
 IN ON STRAIT NORTH EASTERN WINDS STRENGTH WAS DROPPED
 BUILDING UP AGAINST THE ICE SHELF. IT IS ESTIMATED TO
 BE AT LEAST 100 FEET OUT OF THE WATER AND APPROXIMATELY
 ONE SHELF CELL LONG.

W 1874

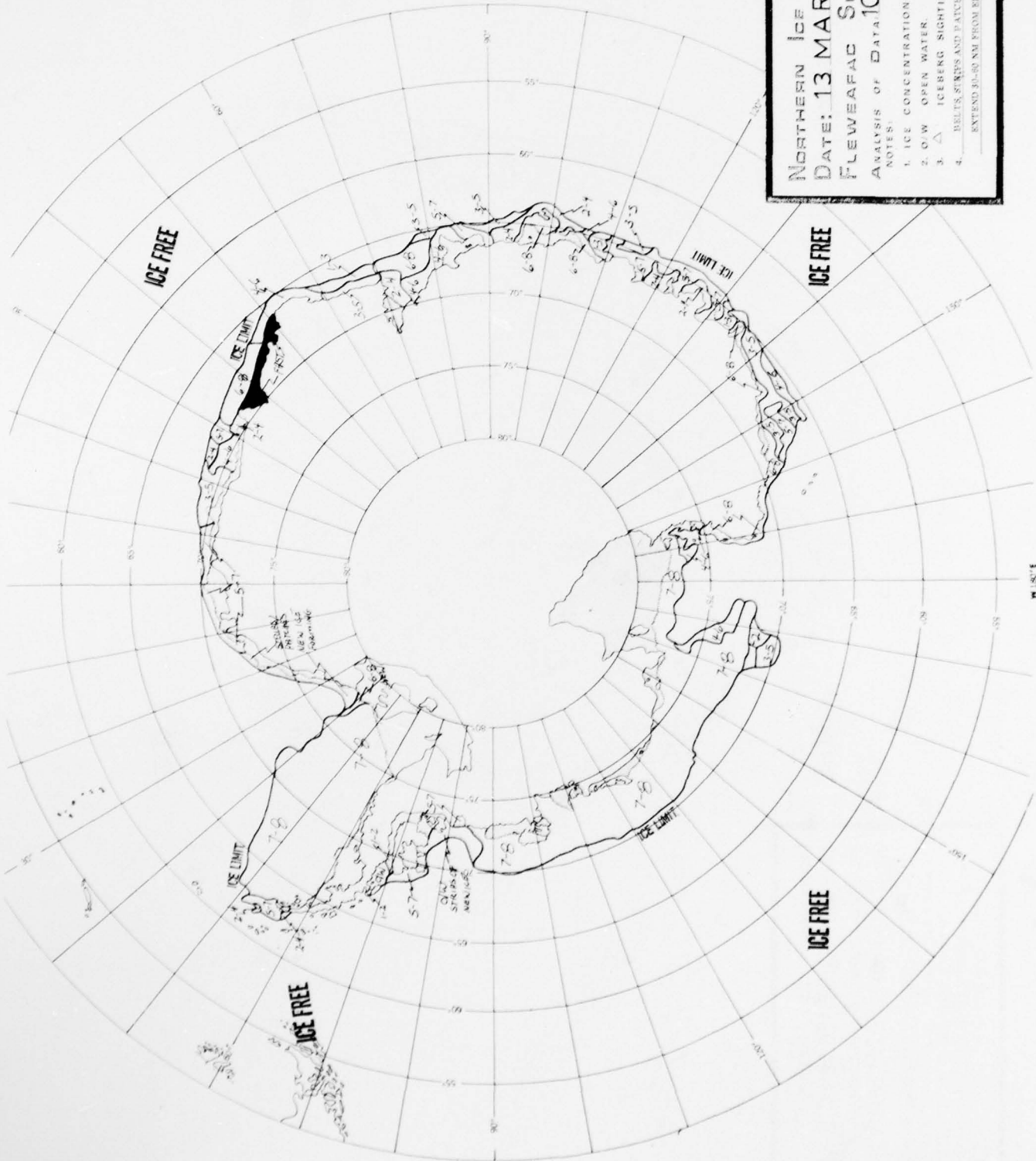
NORTHERN ICE LIMIT
DATE: 06 MAR 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 03-06 MAR
 NOTES:
 1. ICE CONCENTRATIONS IN ONTAS
 2. OW OPEN WATER
 3. Δ ICEBERG SIGHTING
 4. BELTS, STRIPS AND PATCHES MAY
 EXTEND 50-60 KM FROM EDGE

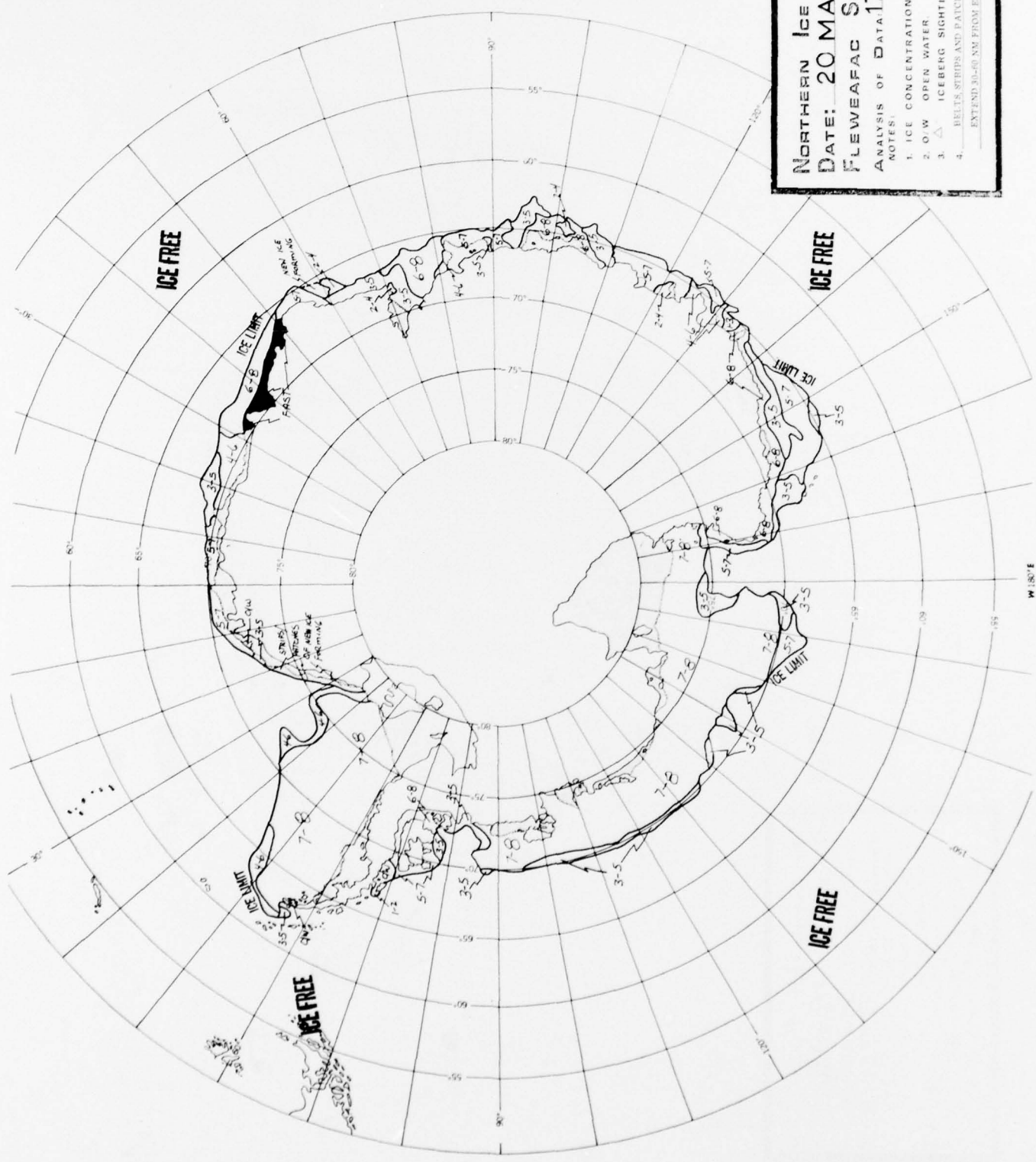


W 1874

NORTHERN ICE LIMIT
DATE: 13 MAR 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 10-13 MAR

NOTES:
 1. ICE CONCENTRATIONS IN ORTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY EXTEND 50-50 NM FROM EDGE.

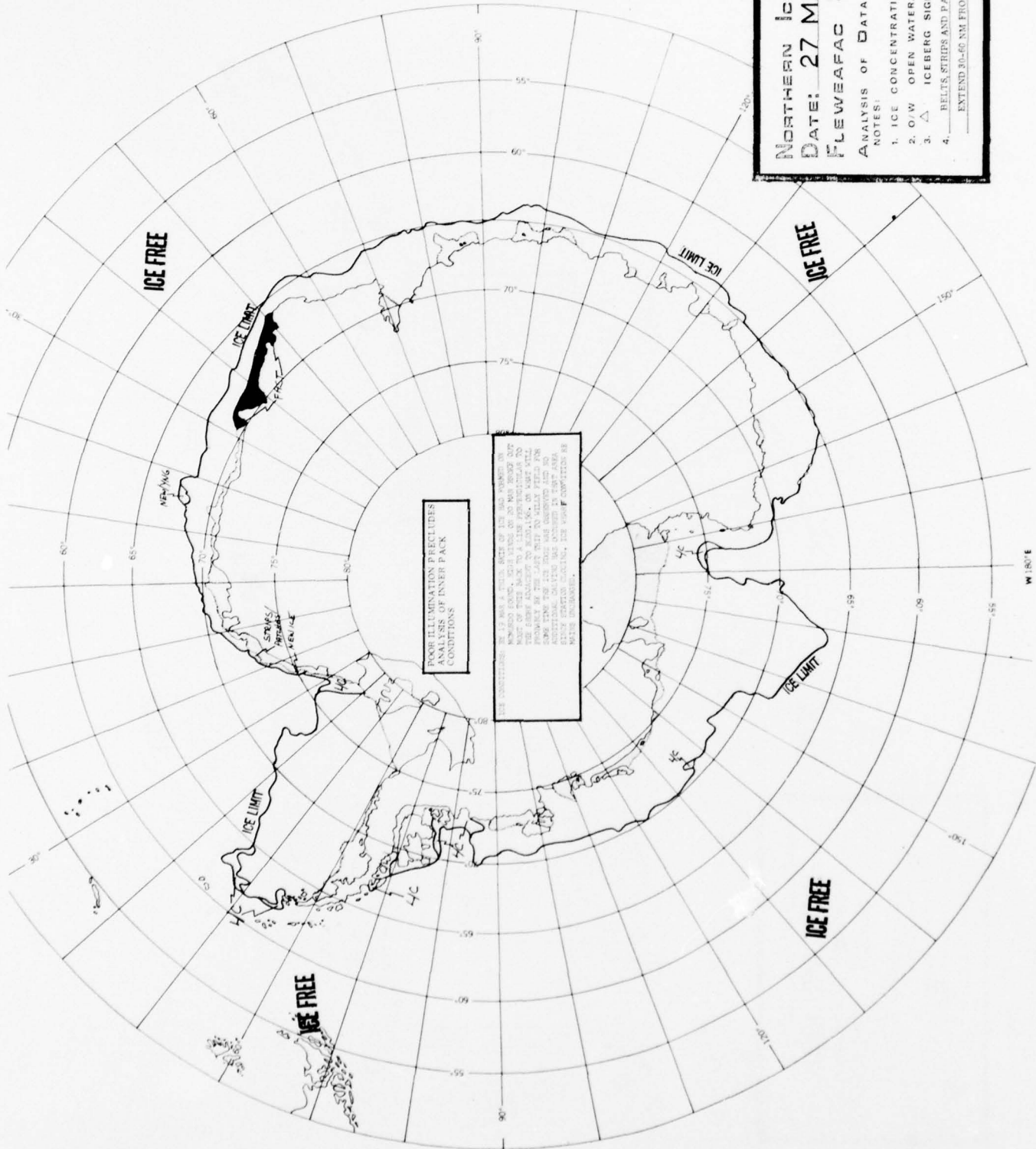




NORTHERN ICE LIMIT
DATE: 20 MAR 1975
FLEWEAFAC SUITLAND
 ANALYSIS OF DATA 17-20 MAR

NOTES:
 1. ICE CONCENTRATIONS IN OBTAS.
 2. O-W OPEN WATER
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY EXTEND 30-60 NM FROM EDGE.

W 130° E



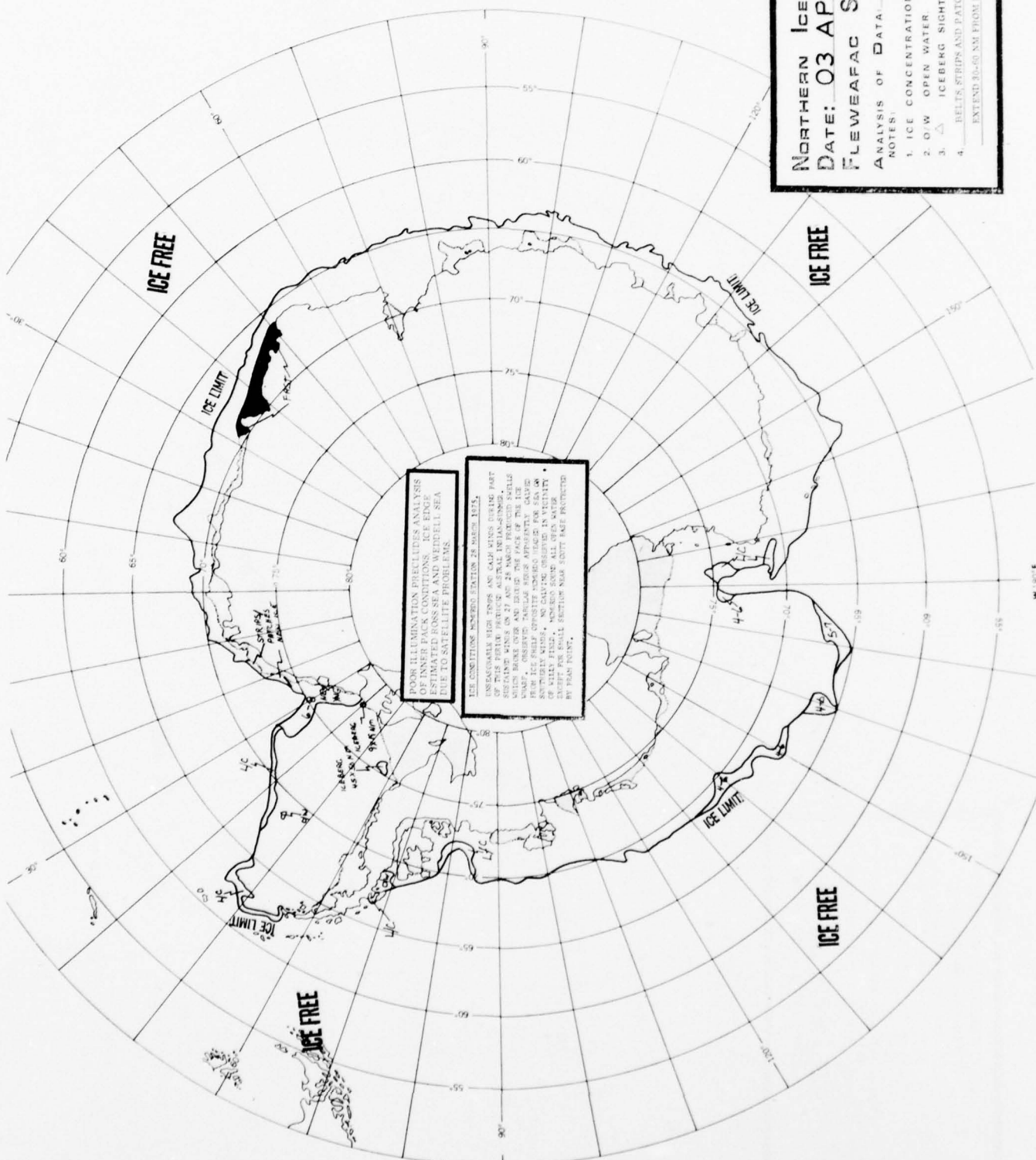
POOR ILLUMINATION PRECLUDES ANALYSIS OF INNER PACK CONDITIONS

THE CONTINENTS ARE NOT FULLY SHOWN UP IN THIS MAP BECAUSE OF THE POOR ILLUMINATION. THE EDGE ADJUSTED TO BE SHOWN. ON MOST WILL BE SHOWN FOR THE PURPOSE OF THIS MAP. AN ADDITIONAL ANALYSIS HAS BEEN MADE IN THAT AREA. BEING LIMITED TO THE DATA WHICH IS AVAILABLE.

NORTHERN ICE LIMIT
DATE: 27 MAR 1975
FLEWEAFAC SUITLAND
 ANALYSIS OF DATA 24-27 MAR

NOTES:
 1. ICE CONCENTRATIONS IN OBTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIES AND PATCHES MAY EXTEND 50-60 NM FROM EDGE

W 180 E



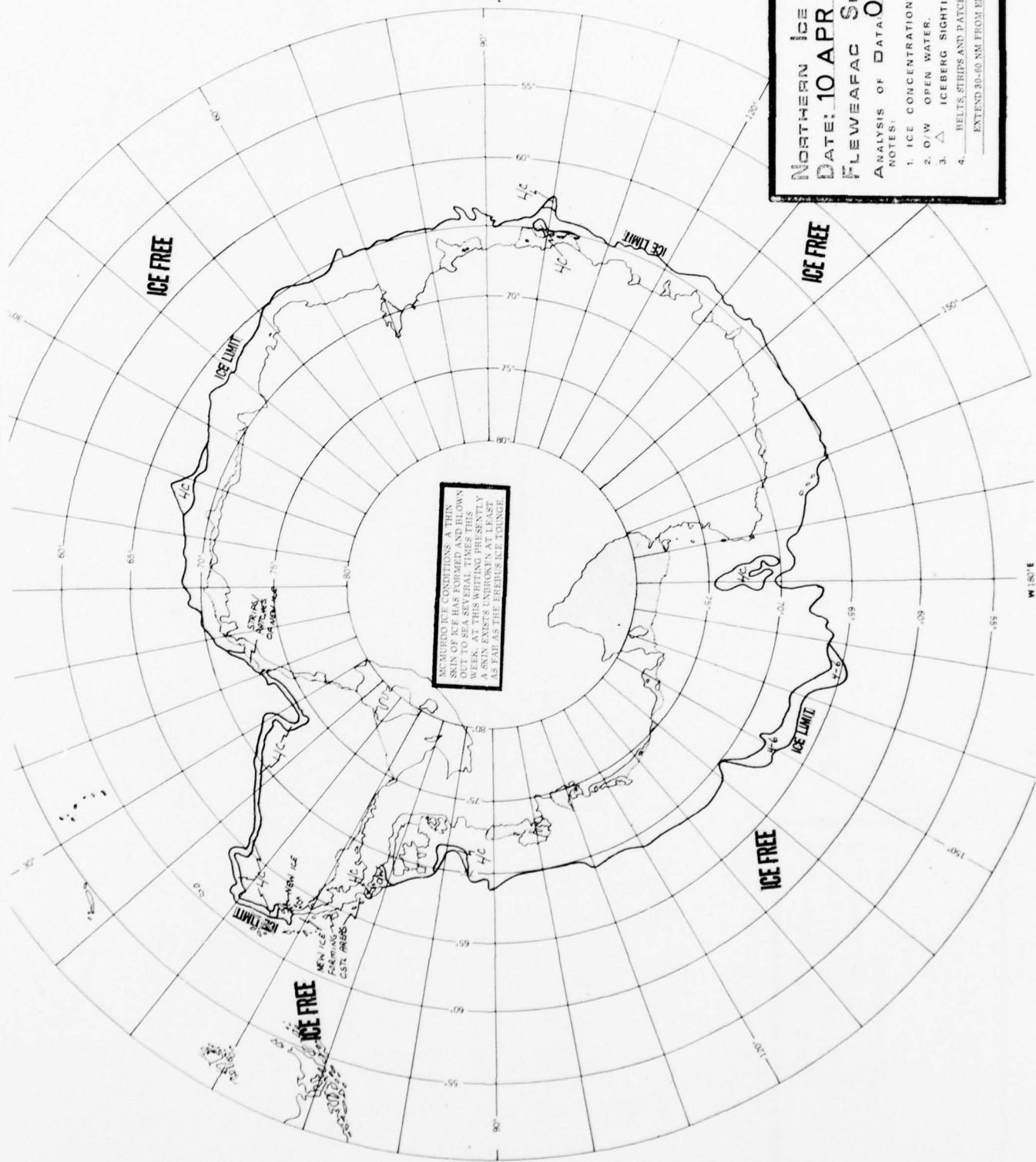
NORTHERN Ice Limit
DATE: 03 APR 1975
FLEWEAFAC SUTLAND
ANALYSIS OF DATA 31 MAR-03 APR

NOTES:
 1. ICE CONCENTRATIONS IN DATAS.
 2. O/W OPEN WATER
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY EXTEND 30-60 NM FROM EDGE

POOR ILLUMINATION PRECLUDES ANALYSIS OF INNER PACK CONDITIONS. ICE EDGE ESTIMATED FOSS SEA AND WEDELL SEA FROM SATELLITE PHOTOLITHS.

ICE CONCENTRATIONS NORTHERN LIMITATION 28 MARCH 1975.

UNREASONABLE HIGH TIDES AND GALE WINDS DURING PART OF THIS PERIOD PRECLUDE AUSTRIAL INDIAN-SPRING. WINDS FROM THE NORTH AND EAST AND 25 KNOTS PREVENTED SHELLS FROM BEING COLLECTED AND 25 KNOTS PREVENTED SHELLS FROM BEING COLLECTED. OBSERVED NARROW BELTS APPARENTLY CALVED FROM ICE SHELF OPPOSITE ANDREW BAY FOR 250-500 METERS. BELTS OF ICE CONCENTRATIONS WERE OBSERVED IN THE VICINITY OF WILLY FISSE. WINDING SOUND ALL OVER WILLY FISSE. BELTS OF ICE CONCENTRATIONS WERE OBSERVED NEAR SOUTH EAST PROTECTED BY HEAD POINT.



ACCURD TO ICE CONDITIONS A THIN SKIN OF ICE HAS FORMED AND BLOWN OUT TO SEA SEVERAL TIMES THIS WEEK. AT THIS WRITING PRESENTLY A SKIN OF ICE IS UNBROKEN AT LEAST AS FAR AS THE SURVEY ICE FINDINGS

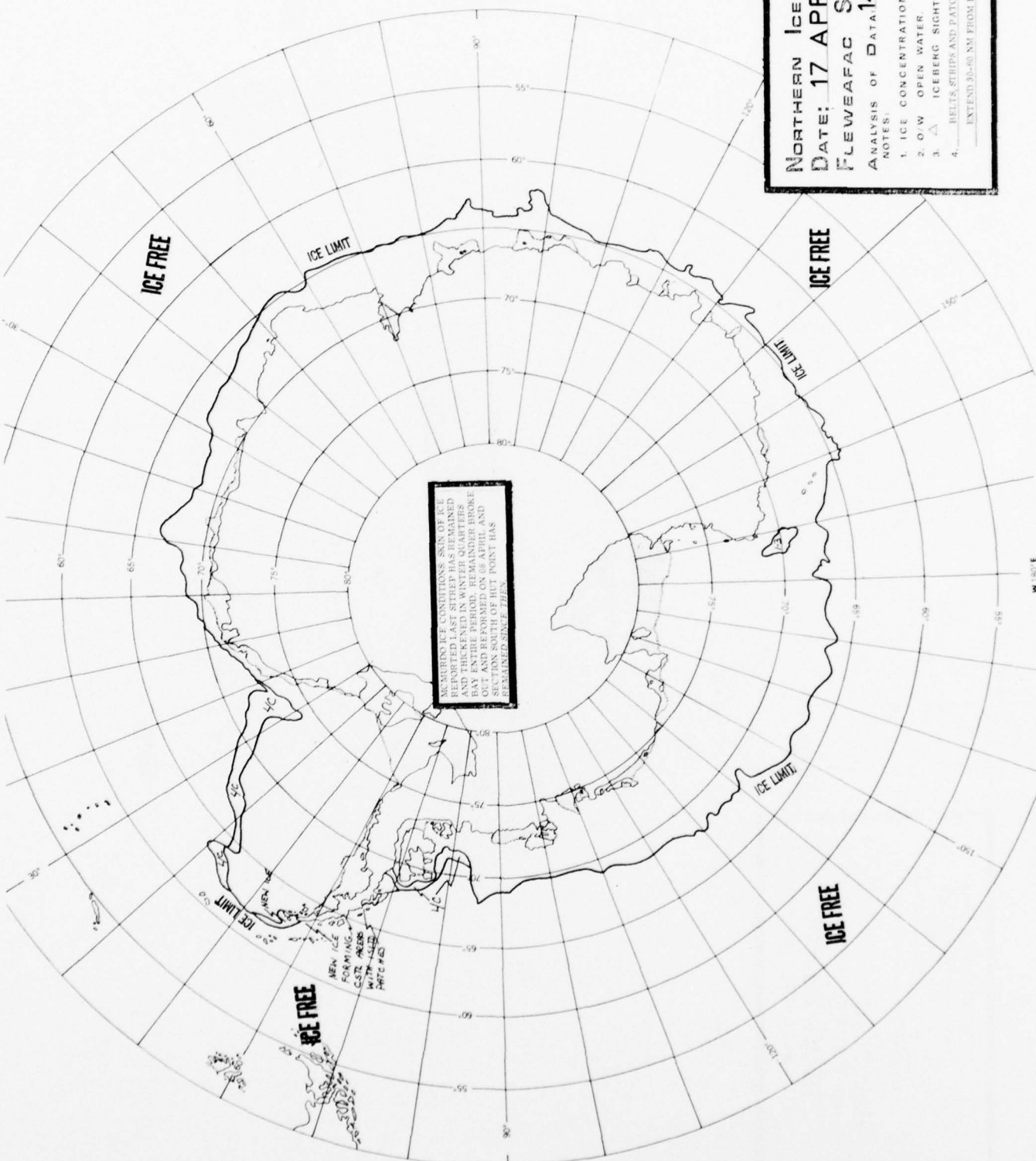
NORTHERN ICE LIMIT
DATE: 10 APR 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 07-10 APR

NOTES:
 1. ICE CONCENTRATIONS IN ORTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIES AND PATCHES MAY EXTEND 30-60 NM FROM EDGE

W 150°E

NORTHERN ICE LIMIT
DATE: 17 APR 1975
FLEWEAFAC SUTLAND
ANALYSIS OF DATA 14-17 APR

- NOTES:
1. ICE CONCENTRATIONS IN OBTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY EXTEND 30-60 NM FROM EDGE.



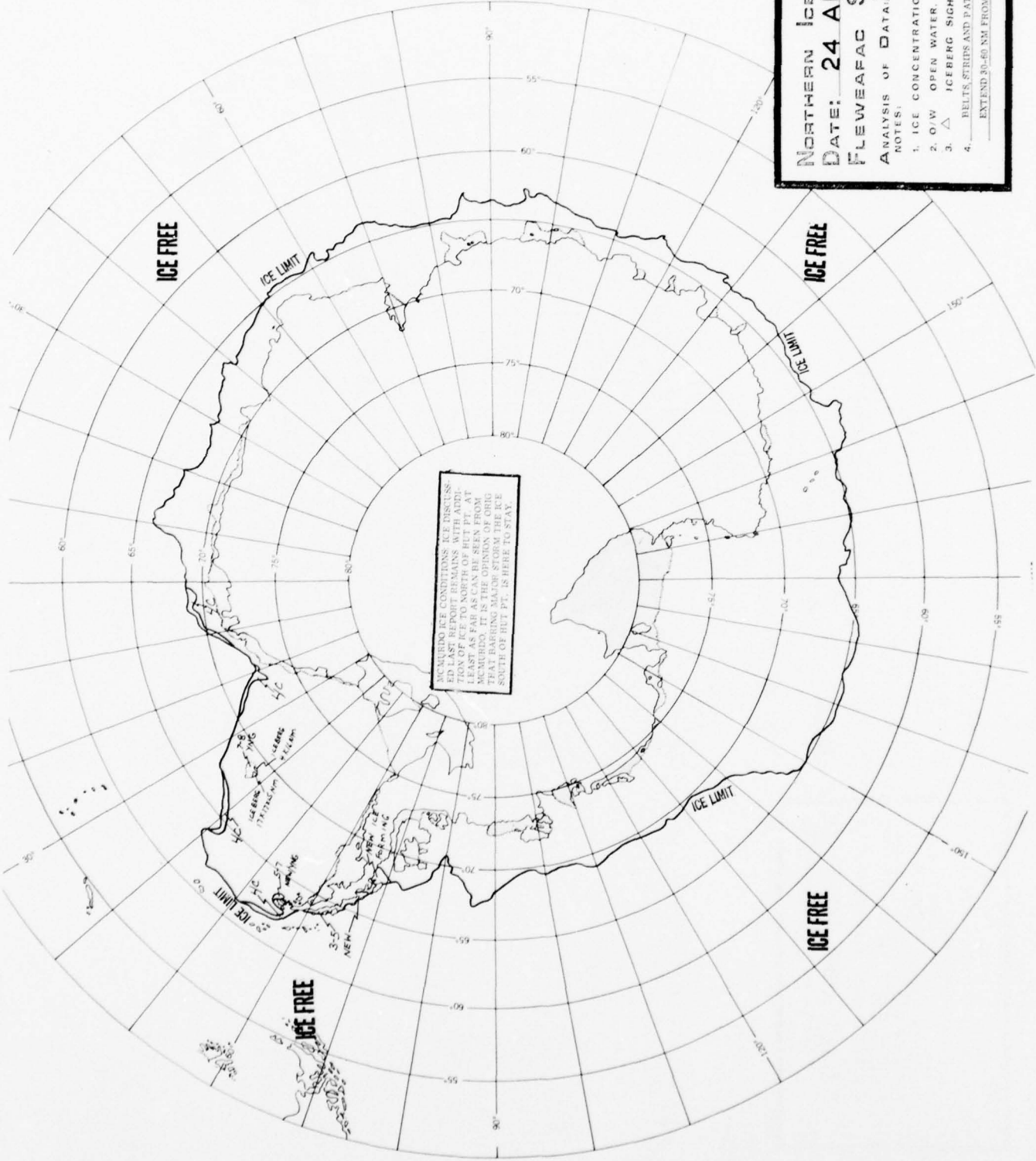
RECENT ICE CONCENTRATIONS OF ICE REPORTED LAST STRIP HAS REMAINED AND THICKENED IN WINTER QUARTERS BAY ENTIRE PERIOD. REMAINDER BROKE OUT AND REFORMED ON 10 APRIL AND SECTION 1000000 POINT HAS REMAINED SINCE THEN.

NEW ICE FORMING
 EAST ARKAR
 PATCHES

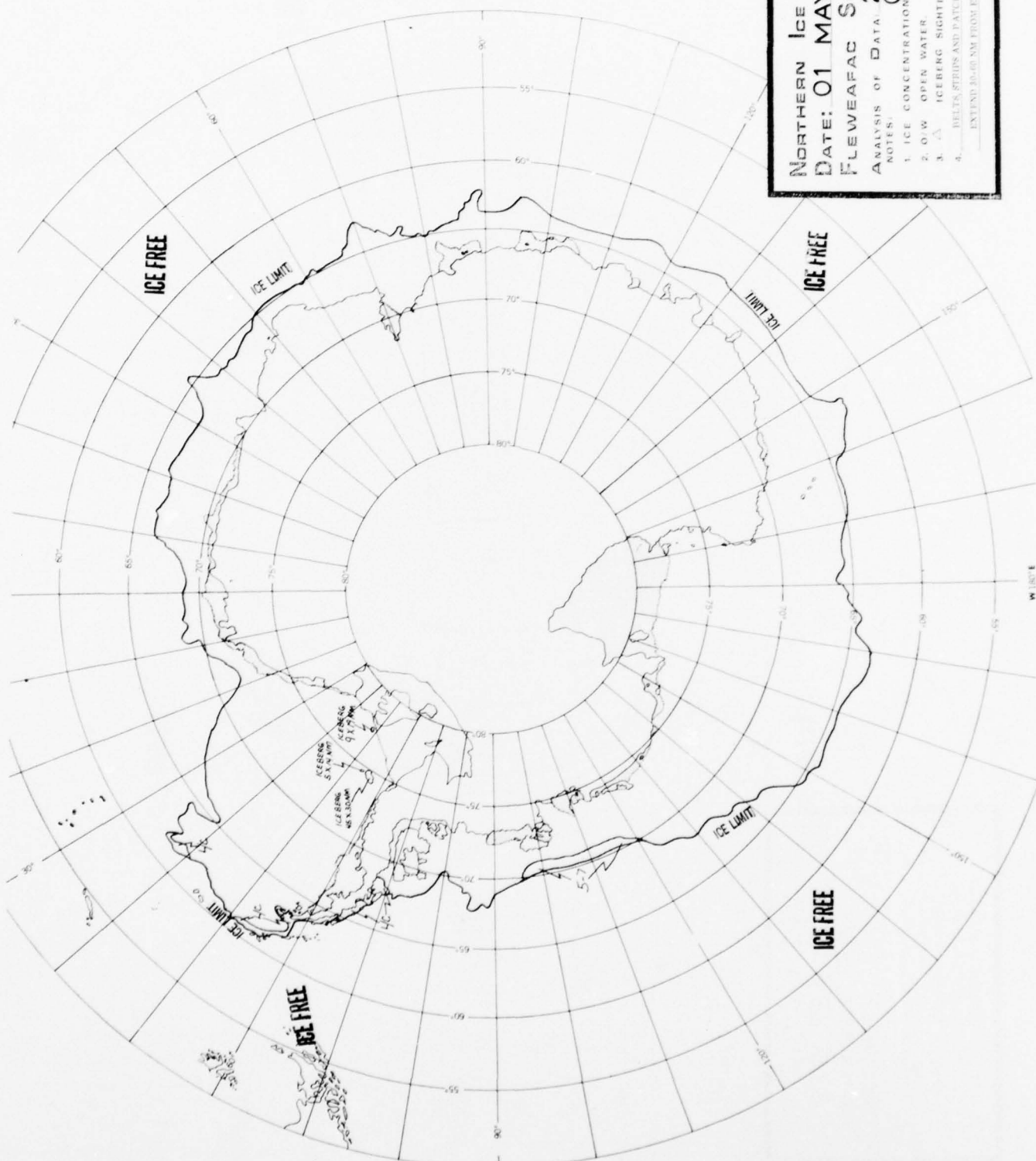
W 180 E

NORTHERN ICE LIMIT
DATE: 24 APR 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 21-24 APR

NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. △ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY EXTEND 30-60 NM FROM EDGE



DISCUSS
 REPORT REMAINS WITH ADDI-
 TION OF ICE SOUTH OF BUT PT. AT
 LEAST AS FAR AS CAN BE SEEN FROM
 MCURDIO. IT IS THE OPINION OF THE
 FEAT BARRING MAJOR STORM THE ICE
 SOUTH OF BUT PT. IS HERE TO STAY.

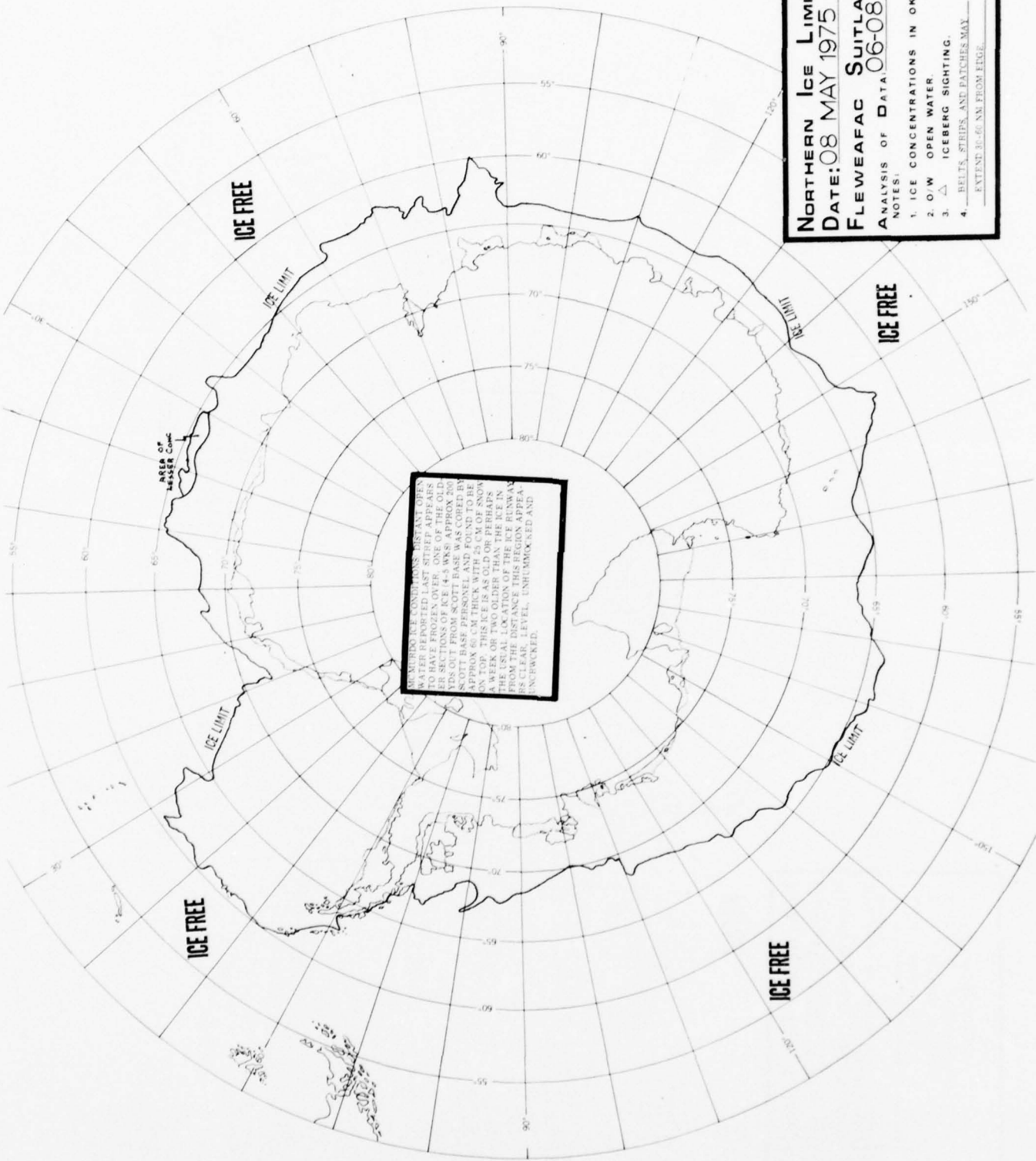


NORTHERN ICE LIMIT
DATE: 01 MAY 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 29 APR-01 MAY
 NOTES:
 1. ICE CONCENTRATIONS IN ONTAS
 2. O/W OPEN WATER
 3. ▲ ICEBERG SIGHTING
 4. DELTA, SPIDS AND PATCHES MAY
 EXTEND 30-60 NM FROM LINE

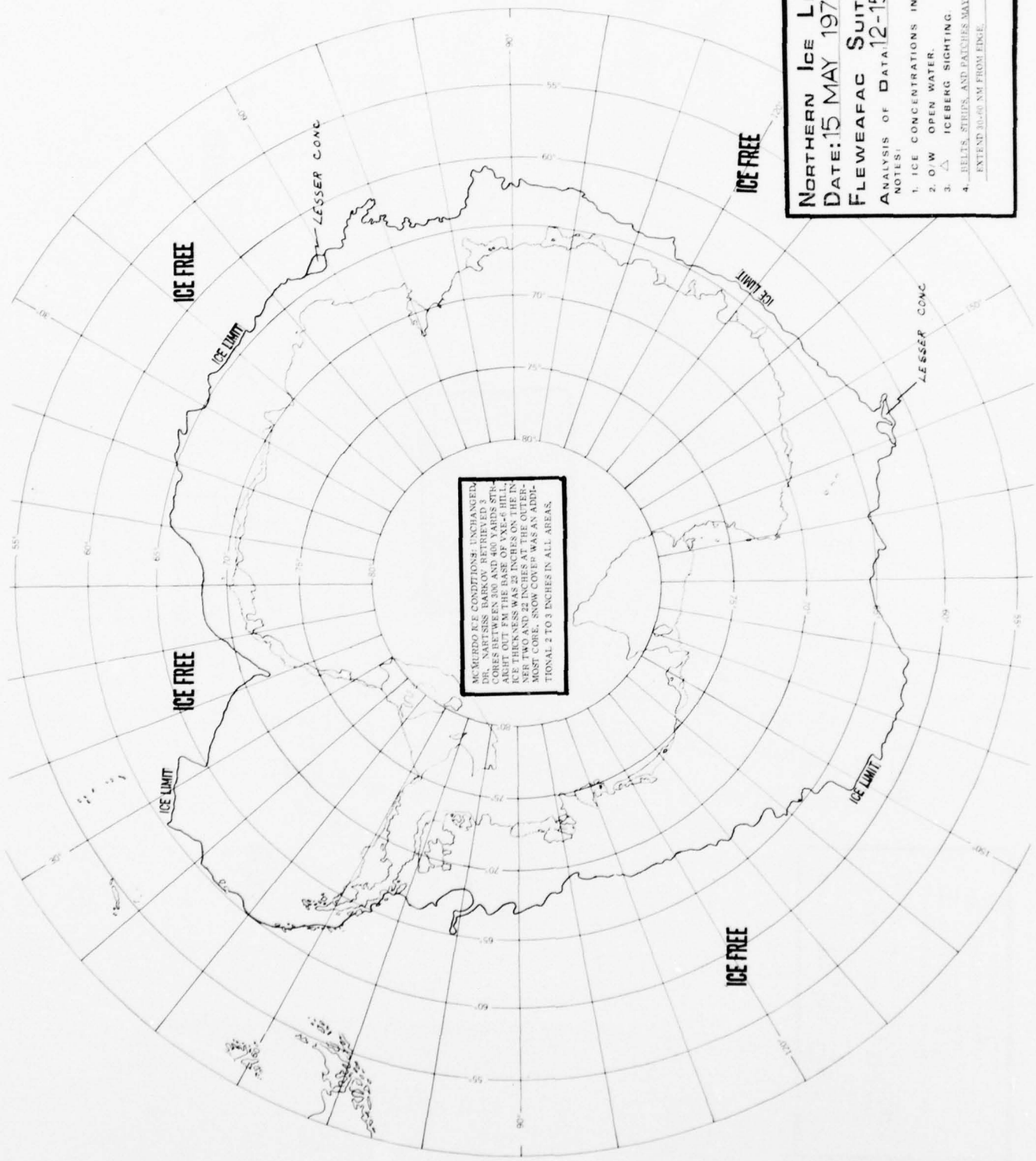
W 180° E

NORTHERN Ice LIMIT
DATE: 08 MAY 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 06-08 MAY

NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIPS, AND PATCHES MAY EXTEND 30-60 NM FROM EDGE.



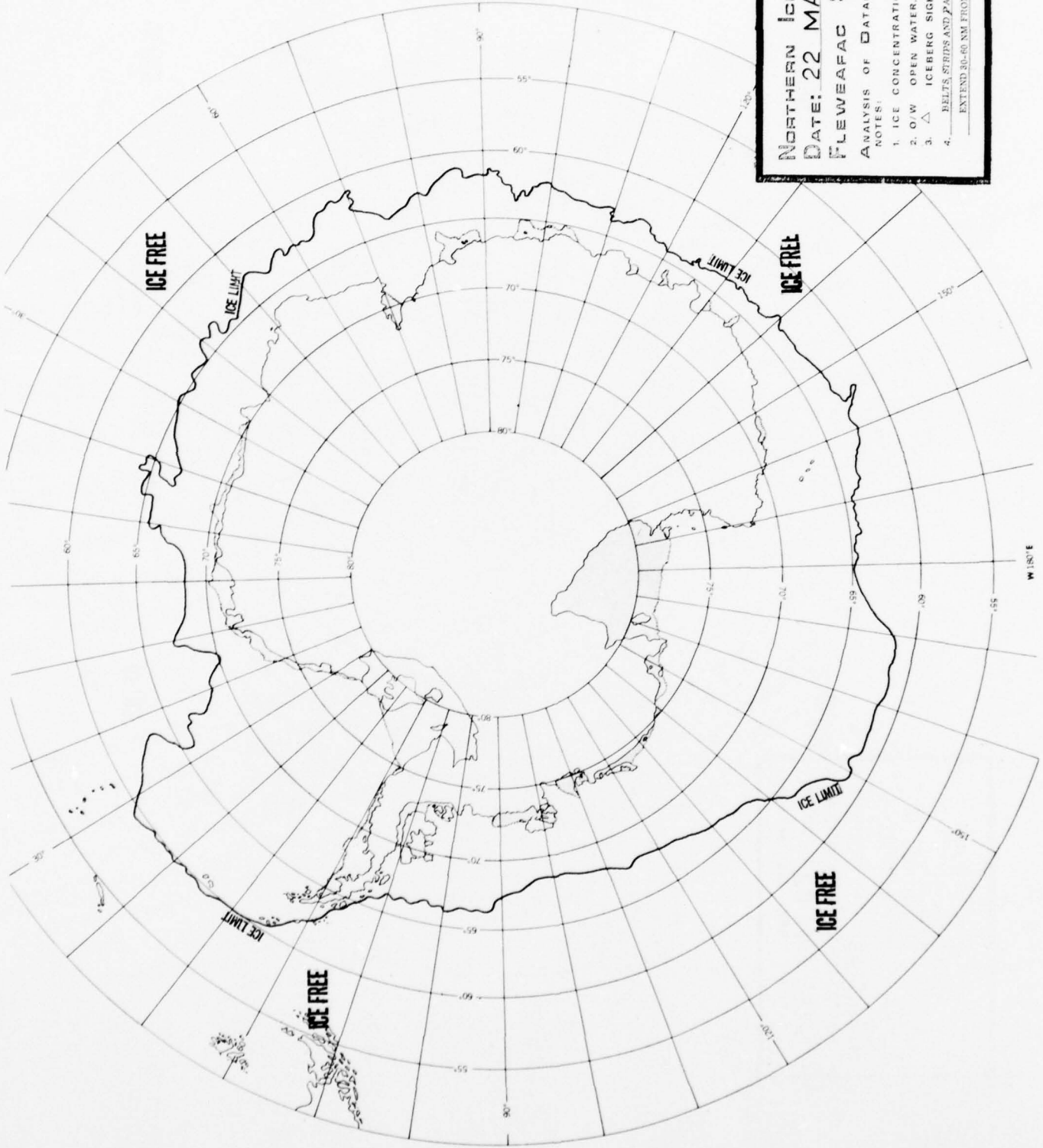
US MEMBERS OF THE SCOTT BASE FOUND THE FIRST ANTI OPEN WATER REPORTED LAST YEAR. ONE OF THE CORES CONTAINS STRIPS OF ICE (4-5 WKS) APPROX 200 METERS LONG. THE SCOTT BASE WAS CORED BY APPROX 60 CM THICK WITH 17 FOUND TO BE ONE WEEK OR TWO OLDER THAN THE ICE IN THE VICINITY OF THE ICE RUNWAY. THE LOCAL LOCATION OF THE ICE RUNWAY FROM THE SCOTT BASE IN THIS REGION APPEARS CLEAR, LEVEL, UNHUMOCKED AND UNCRACKED.



MCURDIO ICE CONDITIONS UNCHANGED. CORES BETWEEN 300 AND 400 YARDS STRAIGHT OUT FM THE BASE OF VXE-6 HILL. ICE THICKNESS WAS 29 INCHES ON THE INNER TWO AND 22 INCHES AT THE OUTERMOST CORE. SNOW COVER WAS AN ADDITIONAL 1 TO 3 INCHES IN ALL AREAS.

NORTHERN ICE LIMIT
DATE: 15 MAY 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 12-15 MAY

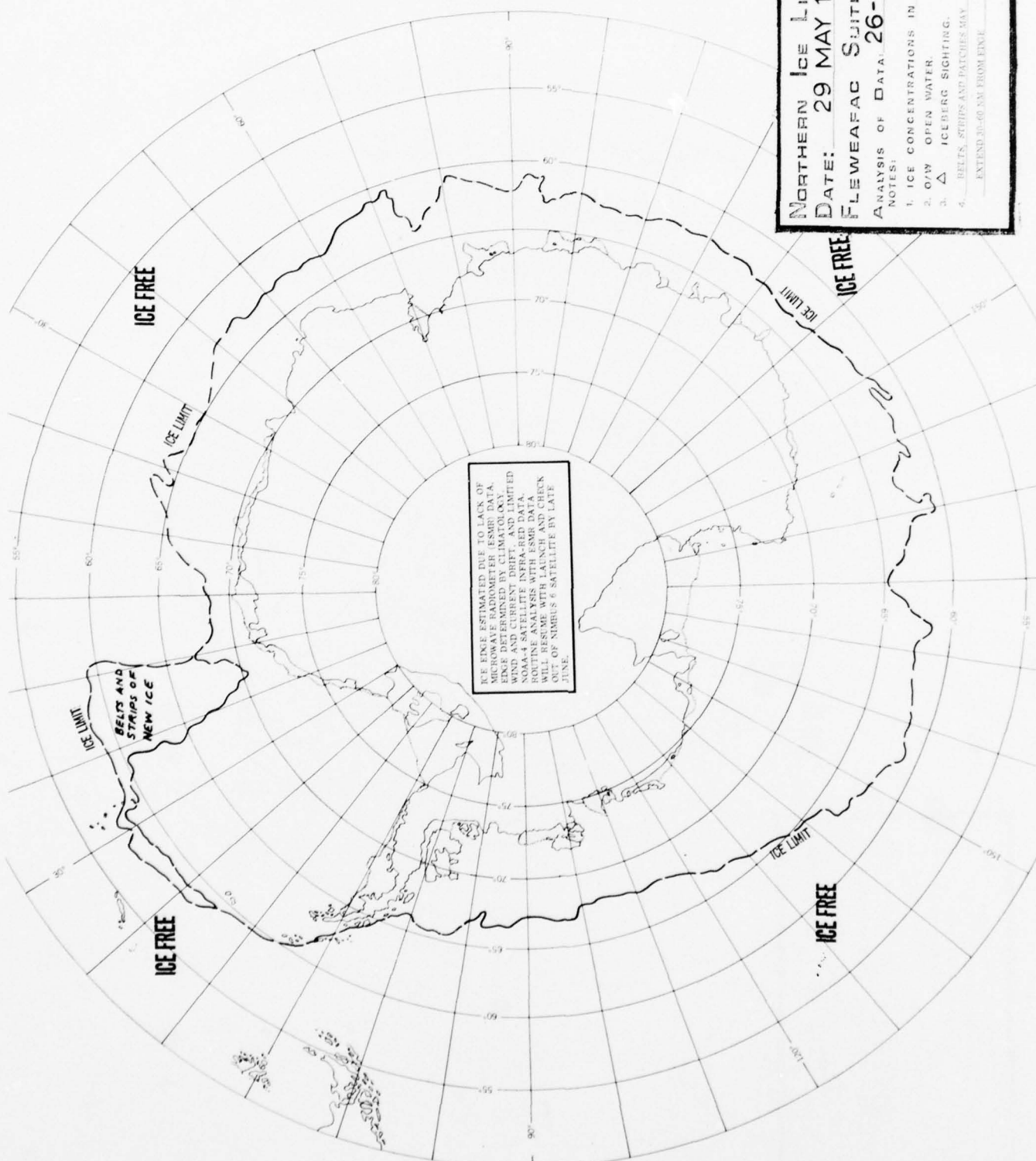
NOTES:
 1. ICE CONCENTRATIONS IN DATAS.
 2. O/W OPEN WATER.
 3. △ ICEBERG SIGHTING.
 4. BELLS, STRIPS, AND PATCHES MAY EXTEND 30-60 NM FROM EDGE.



NORTHERN ICE LIMIT
DATE: 22 MAY 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 19-22 MAY

NOTES:
 1. ICE CONCENTRATIONS IN OBTAS.
 2. O/W OPEN WATER.
 3. △ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY
 EXTEND 20-50 NM FROM EDGE

W 180°E



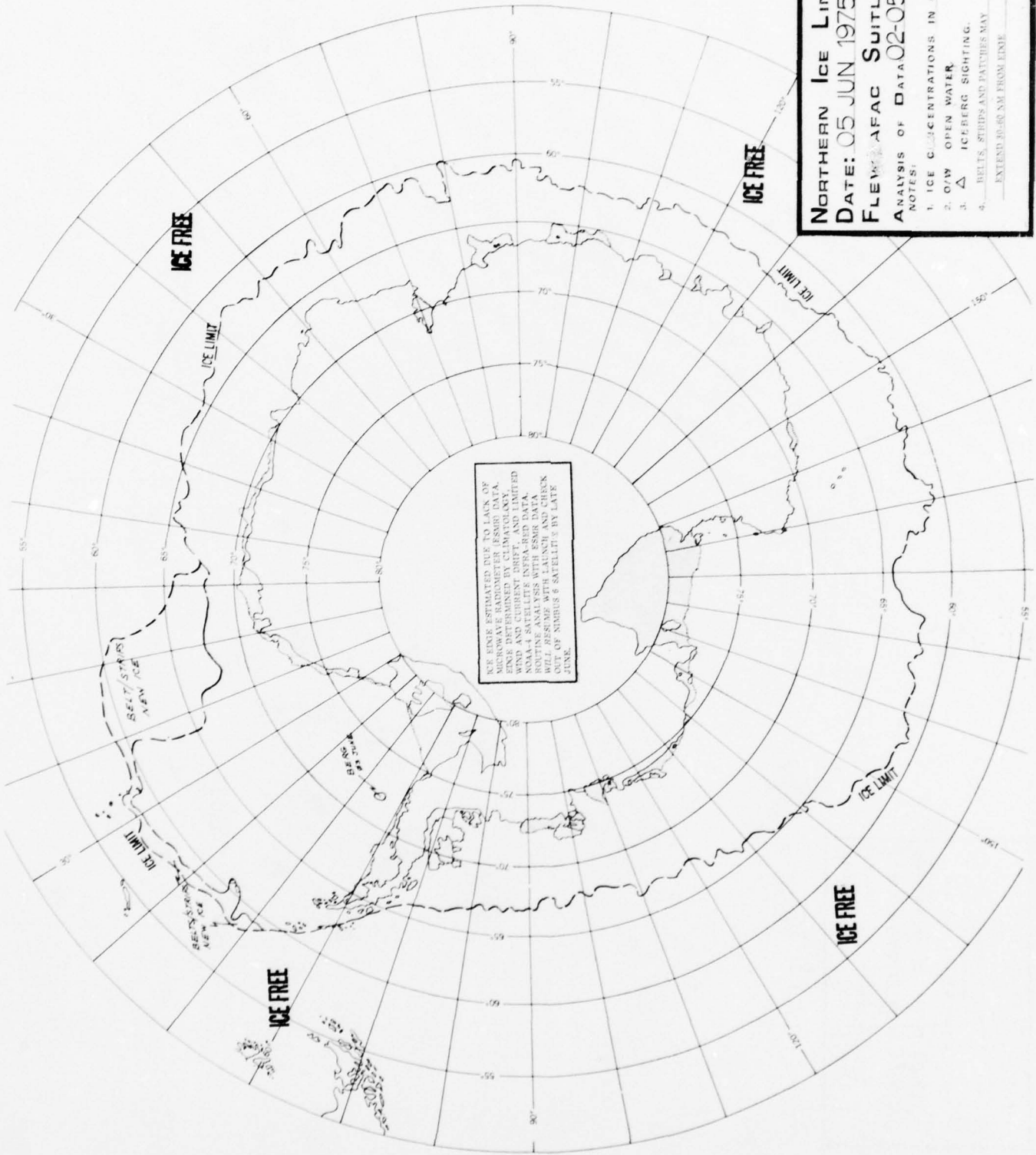
ICE LIMIT ESTIMATED DUE TO LACK OF
 MICROWAVE RADIOMETER (SMR) DATA.
 RANGE DETERMINED BY CLIMATOLOGY,
 WIND AND CURRENT DRIFT, AND LIMITED
 NOAA-4 SATELLITE INFRARED DATA.
 ROUTINE SATELLITE DATA FROM
 POLAR ORBITAL SATELLITES CHECK
 OUT OF NIMBUS 6 SATELLITE BY LATE
 JUNE.

NORTHERN Ice LIMIT
DATE: 29 MAY 1975
FLEWEAFAC SUTTLAND
ANALYSIS OF DATA: 26-29 MAY

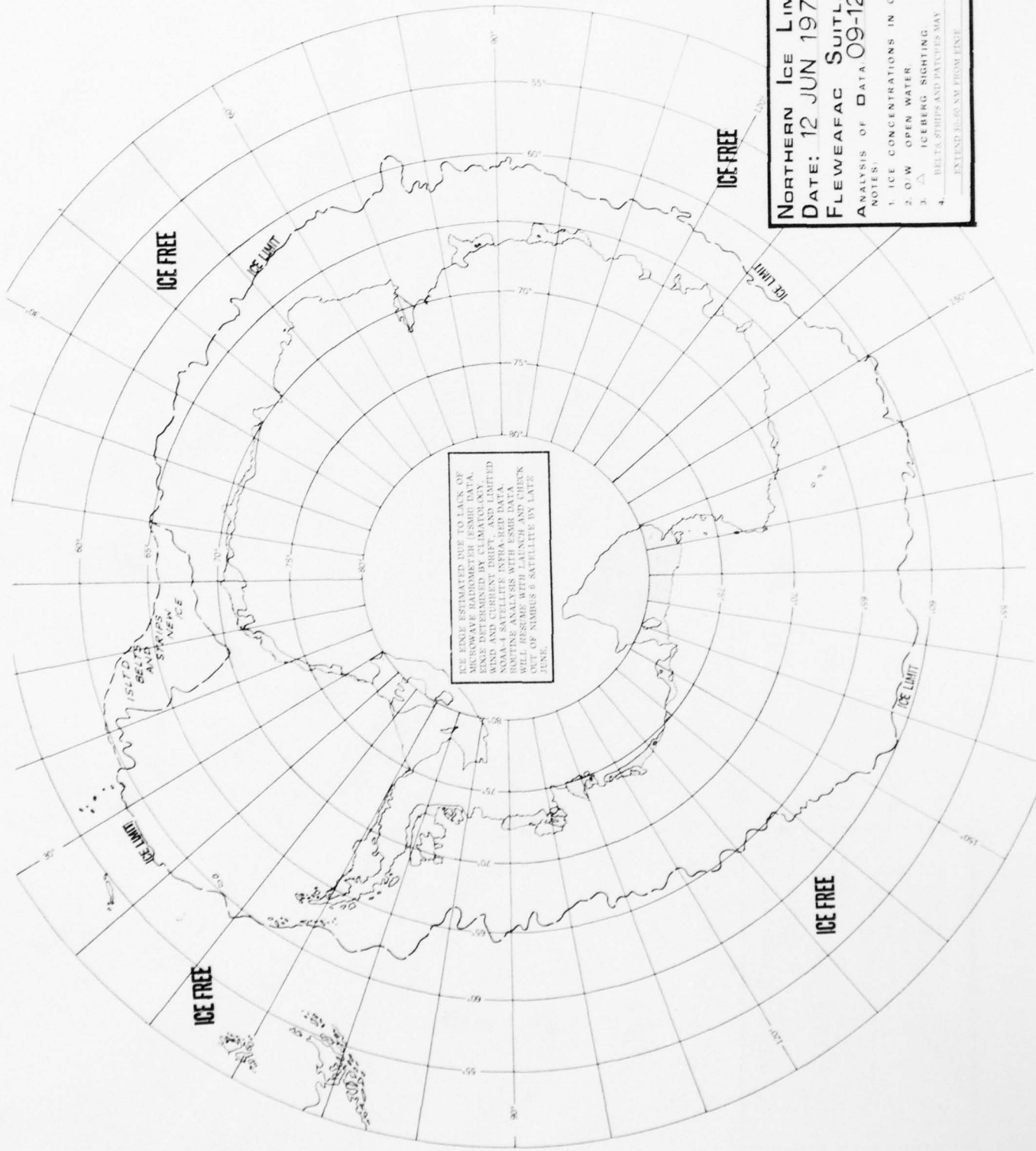
NOTES:
 1. ICE CONCENTRATIONS IN ORTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY
 EXTEND 30-60 NM FROM EDGE

NORTHERN ICE LIMIT
DATE: 05 JUN 1975
FLEW AFAC SUITLAND
ANALYSIS OF DATA 02-05 JUN

NOTES:
 1. ICE CONCENTRATIONS IN ONTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STEPS AND PATCHES MAY EXTEND 30-40 NM FROM EDGE.



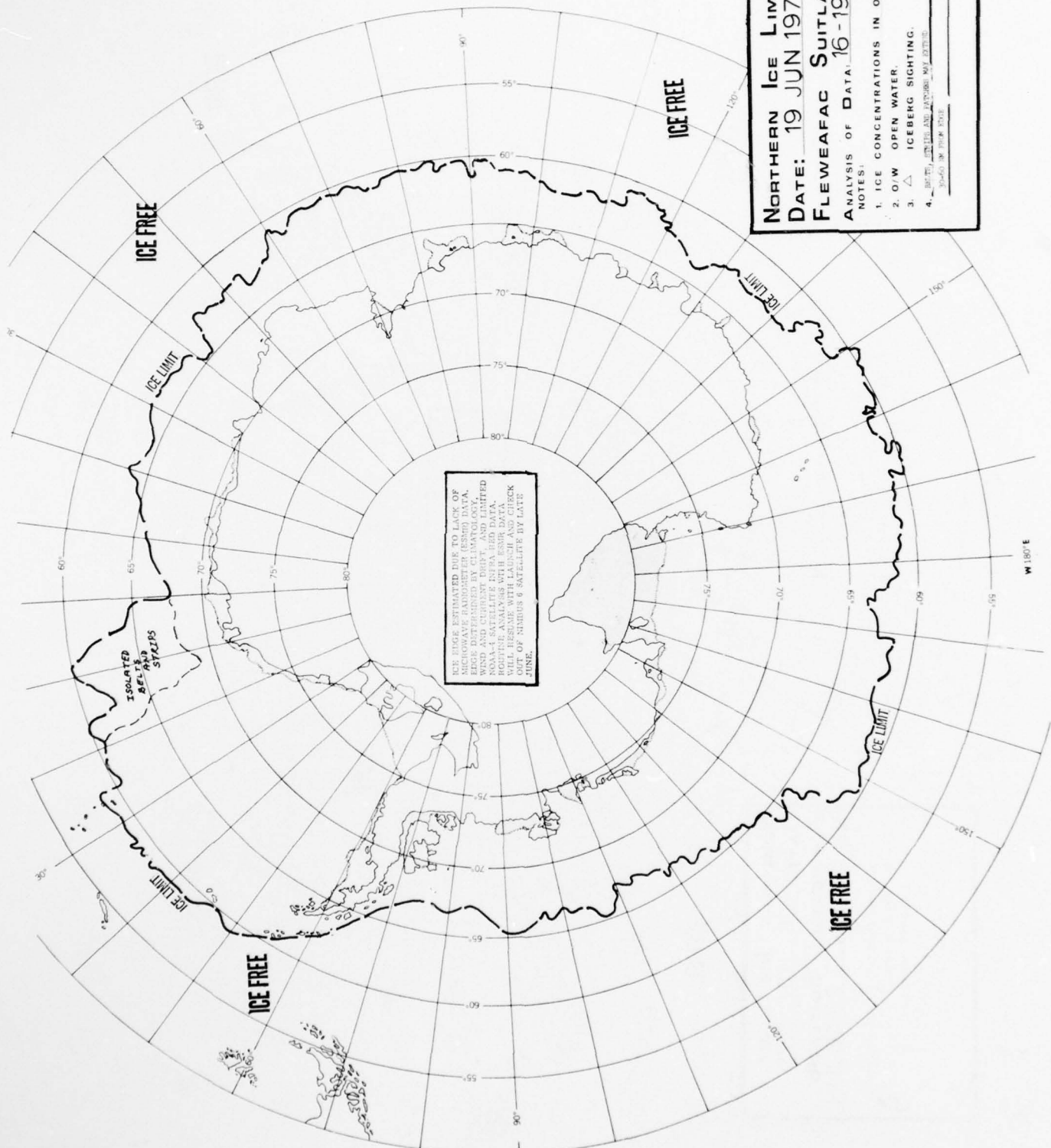
ICE LIMIT ESTIMATED DUE TO LACK OF MICROWAVE RADIOMETER (ESMR) DATA. SENSE DETERMINED BY CLIMATOLOGY, WIND AND CURRENT DRIFT, AND LIMITED NOAA-4 SATELLITE DATA WITH ESMR DATA WILL RESUME WITH LAUNCH AND CHECK OUT OF NIMBUS 6 SATELLITE BY LATE JUNE.



THE AREA ESTIMATED DUE TO LACK OF
ICE STRIPES, RADOMETER (ESMR) DATA,
WIND AND CURRENT DRIPT, AND LIMITED
NOAA-4 SATELLITE INFRA-RED DATA.
ROUTINE ANALYSIS WITH ESMR AND CHECK
WILL BE MADE BY LATE JUNE.
OF NUMBER 6 SATELLITE BY LATE
JUNE.

NORTHERN Ice Limit
DATE: 12 JUN 1975
FLEWEAFAC SUTTLAND
ANALYSIS OF DATA 09-12 JUN

NOTES:
 1. ICE CONCENTRATIONS IN ORTAS
 2. O W OPEN WATER
 3. Δ ICEBERG SIGHTING
 4. BELTS, STRIPS AND PATCHES MAY
 EXTEND 10-20 NM FROM EDGE

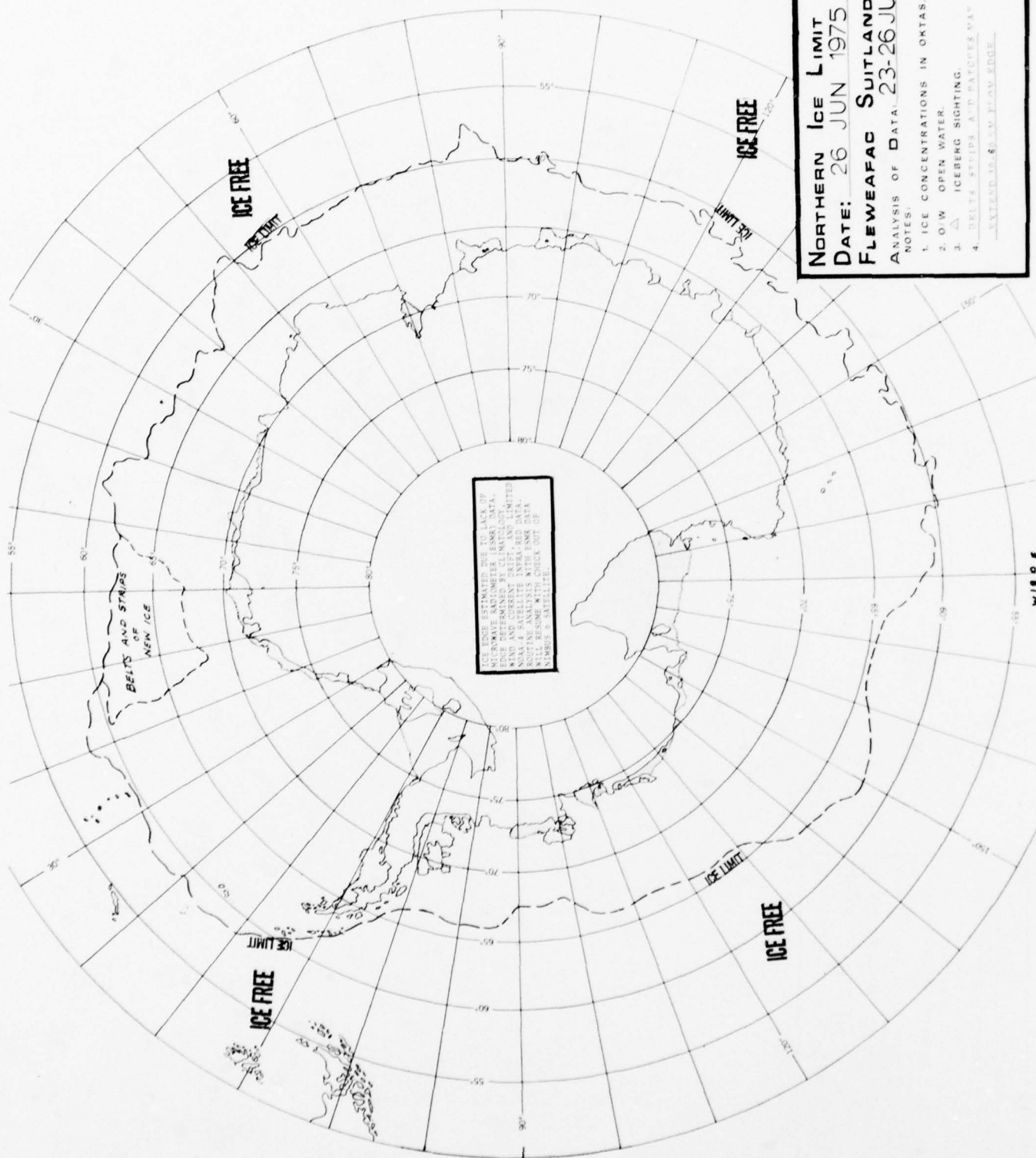


ICE LIMIT ESTIMATED DUE TO LACK OF DATA IN SOME AREAS. EDGE DETERMINED BY CLIMATOLOGY, WIND AND CURRENT DRIFT, AND LIMITED NOAA-4 SATELLITE DATA. NOAA-4 SATELLITE DATA WILL BE MADE AVAILABLE WITH LAUNCH AND CHECK OUT OF NIMBUS 8 SATELLITE BY LATE JUNE.

NORTHERN ICE LIMIT
DATE: 19 JUN 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 16-19 JUN

NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. △ ICEBERG SIGHTING.
 4. ISOLATED ICEBERG BELT AND STAPLES MAY EXIST.

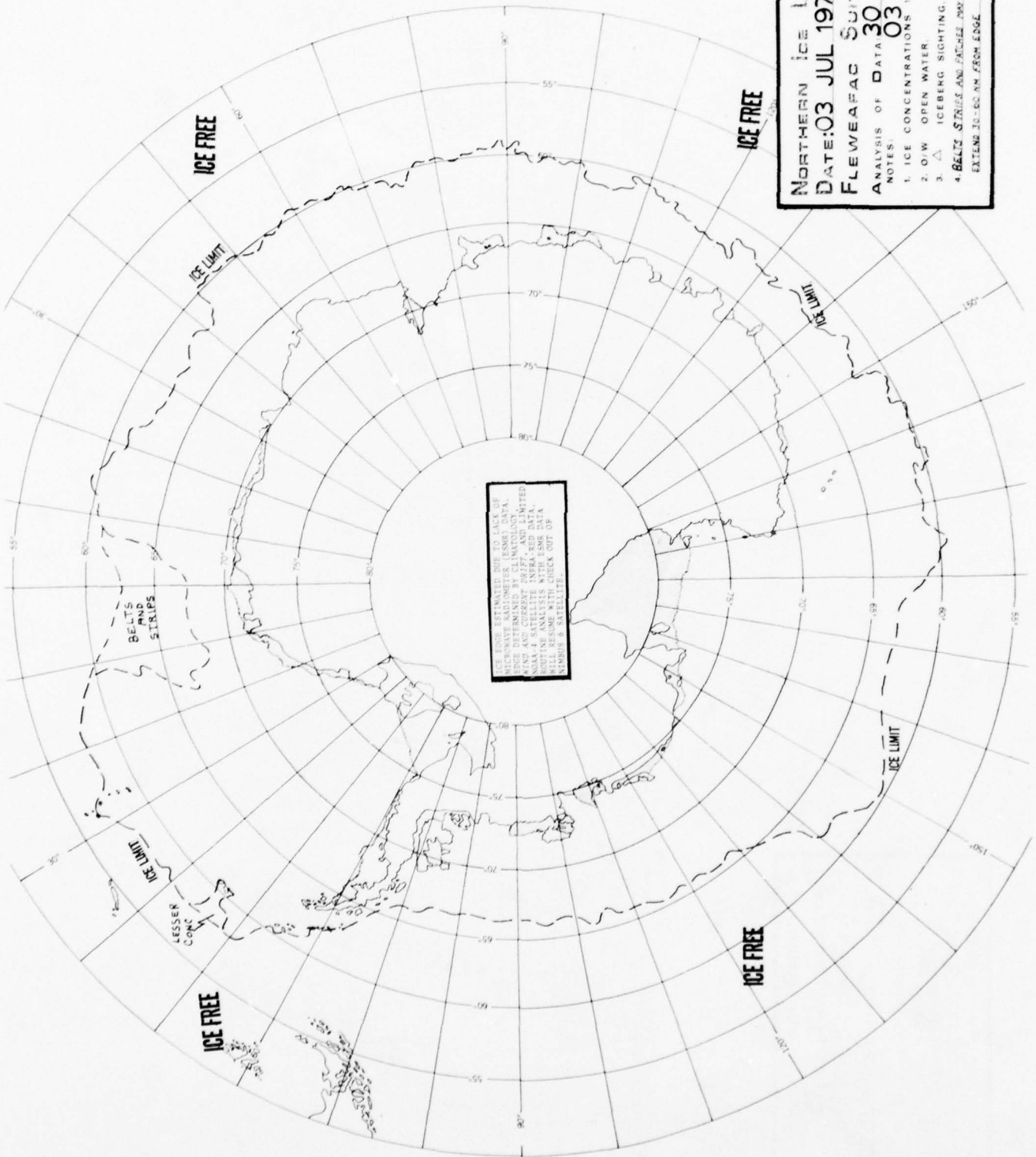
DATE: 19 JUN 1975



NORTHERN ICE LIMIT
DATE: 26 JUN 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 23-26 JUN

NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY
 EXTEND TO 50 KM FROM EDGE.

WISOR

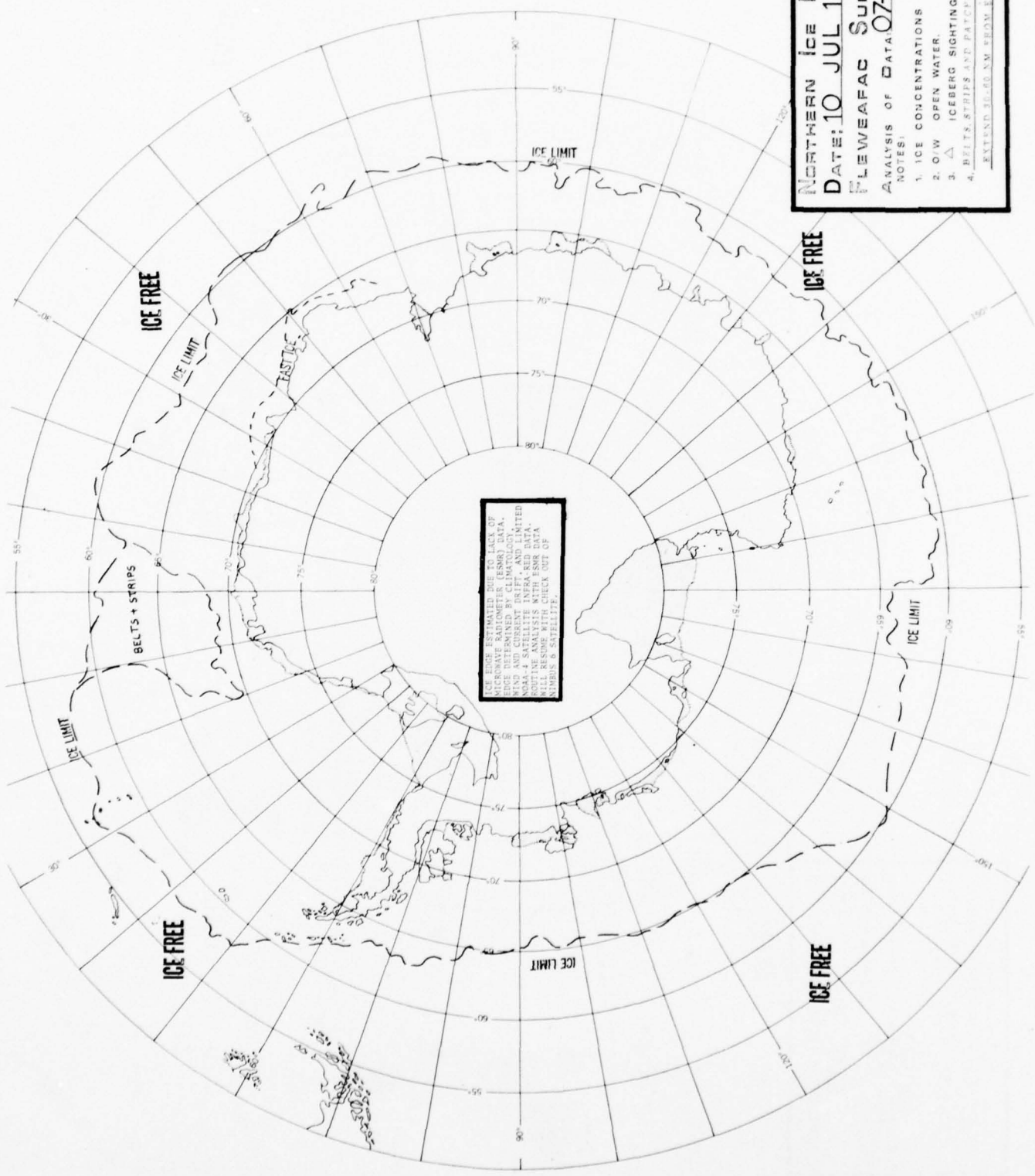


ICE EDGE ESTIMATED DUE TO LACK OF
 MICROWAVE RADIOMETER (ESM) DATA.
 EDGE DETERMINED BY VISUAL AND LIMITED
 NOAA 4 SATELLITE INFRARED DATA.
 ROUTINE ANALYSIS WITH ESM DATA
 WILL BE AVAILABLE CHECK OUT OF
 DUNDEE SUBSTATION.

NORTHERN ICE LIMIT
DATE: 03 JUL 1975
FLEWEAFAC SUTLAND
ANALYSIS OF DATA 30 JUN - 03 JUL
 NOTES:
 1. ICE CONCENTRATIONS IN ORTAS
 2. O/W OPEN WATER
 3. Δ ICEBERG SIGHTING
 4. BELTS STRIPS AND PATCHES MAY
 EXTEND 30-60 NM FROM EDGE

NORTHERN ICE LIMIT
DATE: 10 JUL 1975
FLEWEAFAC SUTLAND
ANALYSIS OF DATA 07-10 JUL

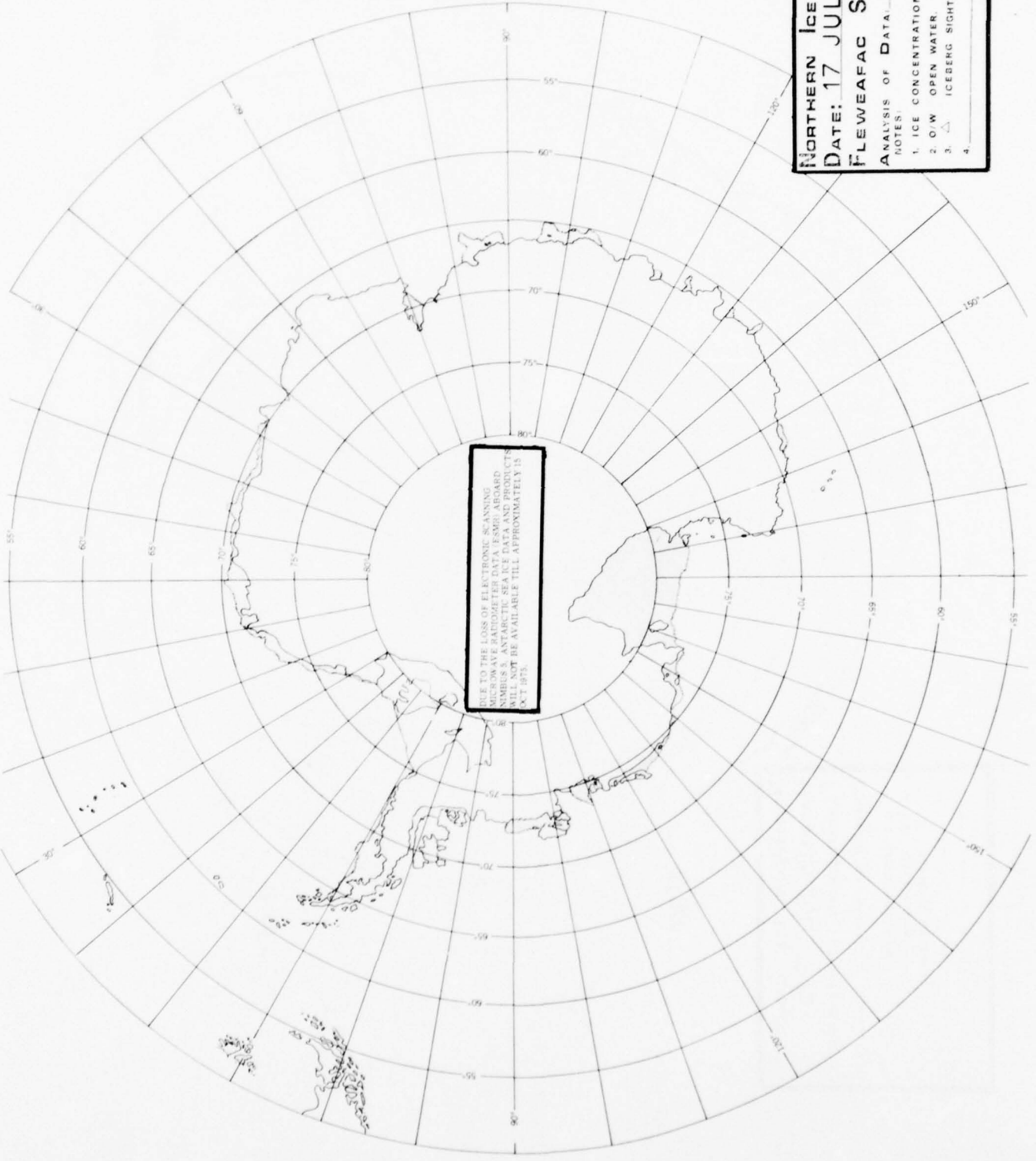
NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS, STRIPS AND PATCHES MAY EXTEND 10-20 NM FROM EDGE.



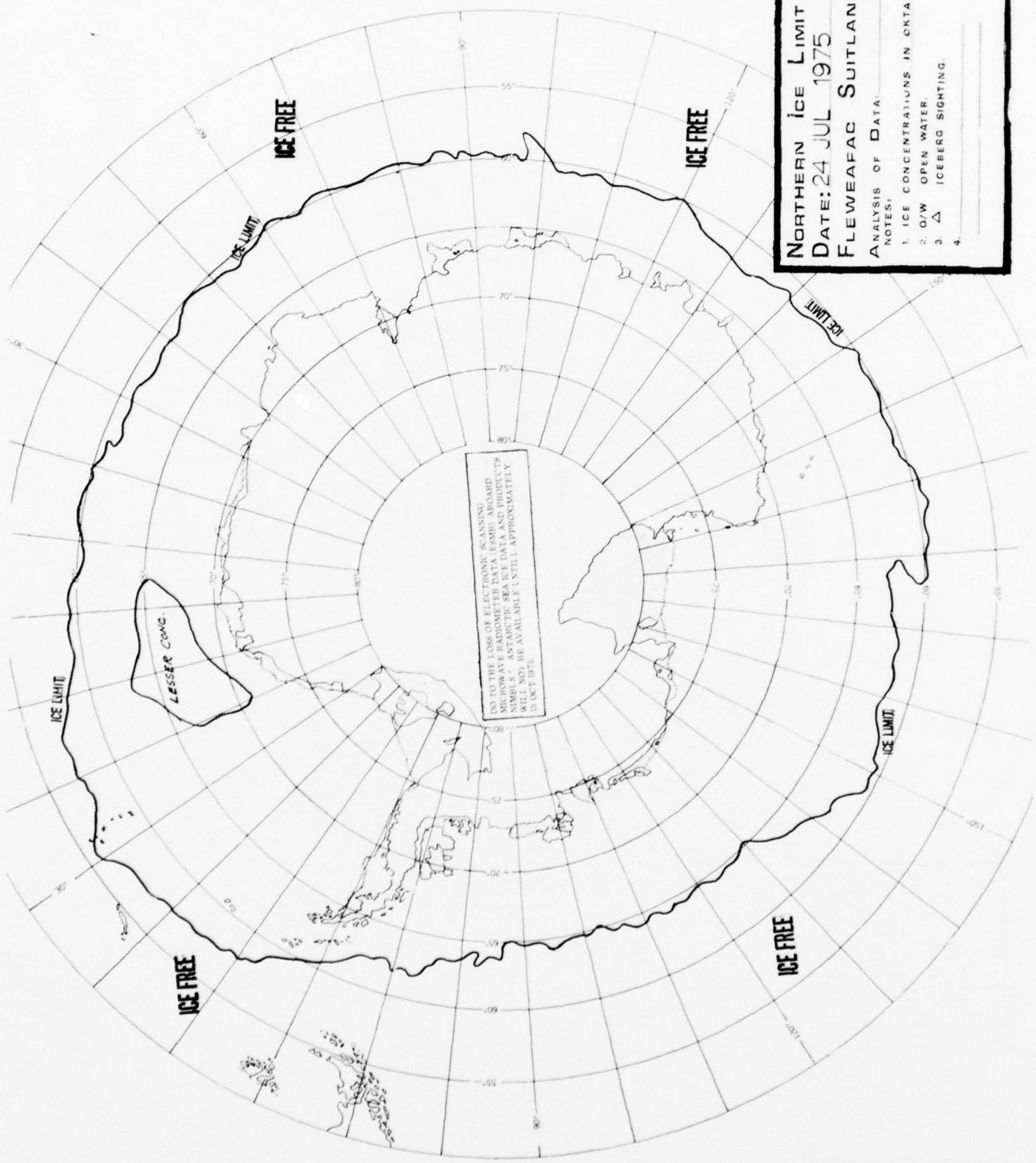
ICE EDGE ESTIMATED DUE TO LACK OF
 MICROWAVE RADIOMETER (ESMR) DATA.
 DATA FROM THE CLIMATE MONITORING
 AND SURVEILLANCE SYSTEM (CMAS) AND
 NOAA-4 SATELLITE INFRARED DATA.
 ROUTINE ANALYSIS WITH ESMR DATA
 WILL BE AVAILABLE AS CHECK OUT OF
 NIMBUS 8 SATELLITE.

NORTHERN ICE LIMIT
DATE: 17 JUL 1975
FLEWEAFAC SUITLAND

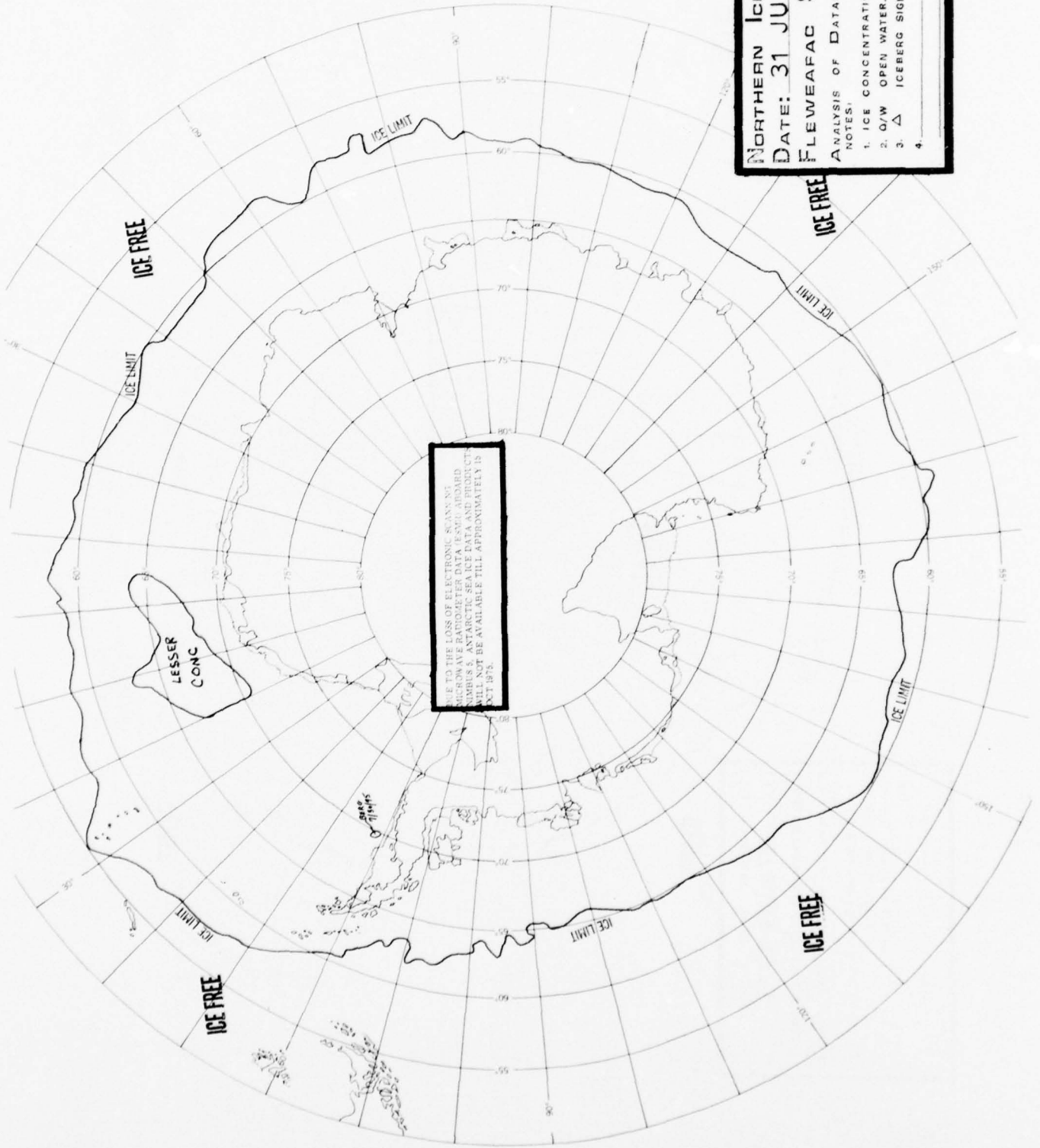
ANALYSIS OF DATA:
 NOTES:
 1. ICE CONCENTRATIONS IN OKTAS
 2. O/W OPEN WATER
 3. Δ ICEBERG SIGHTING
 4. _____



DUKE TO THE LOSS OF ELECTRONIC SCANNING
 MICROWAVE RADIOMETER DATA (ESMR) AND
 NUMBERS. ANTARCTIC SEA ICE DATA AND PRODUCTS
 WILL NOT BE AVAILABLE TILL APPROXIMATELY 15
 OCT 1975.



NORTHERN ICE LIMIT
DATE: 24 JUL 1975
FLEWEAFAC SUITLAND
 ANALYSIS OF DATA
 NOTES:
 1. ICE CONCENTRATIONS IN CKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4.

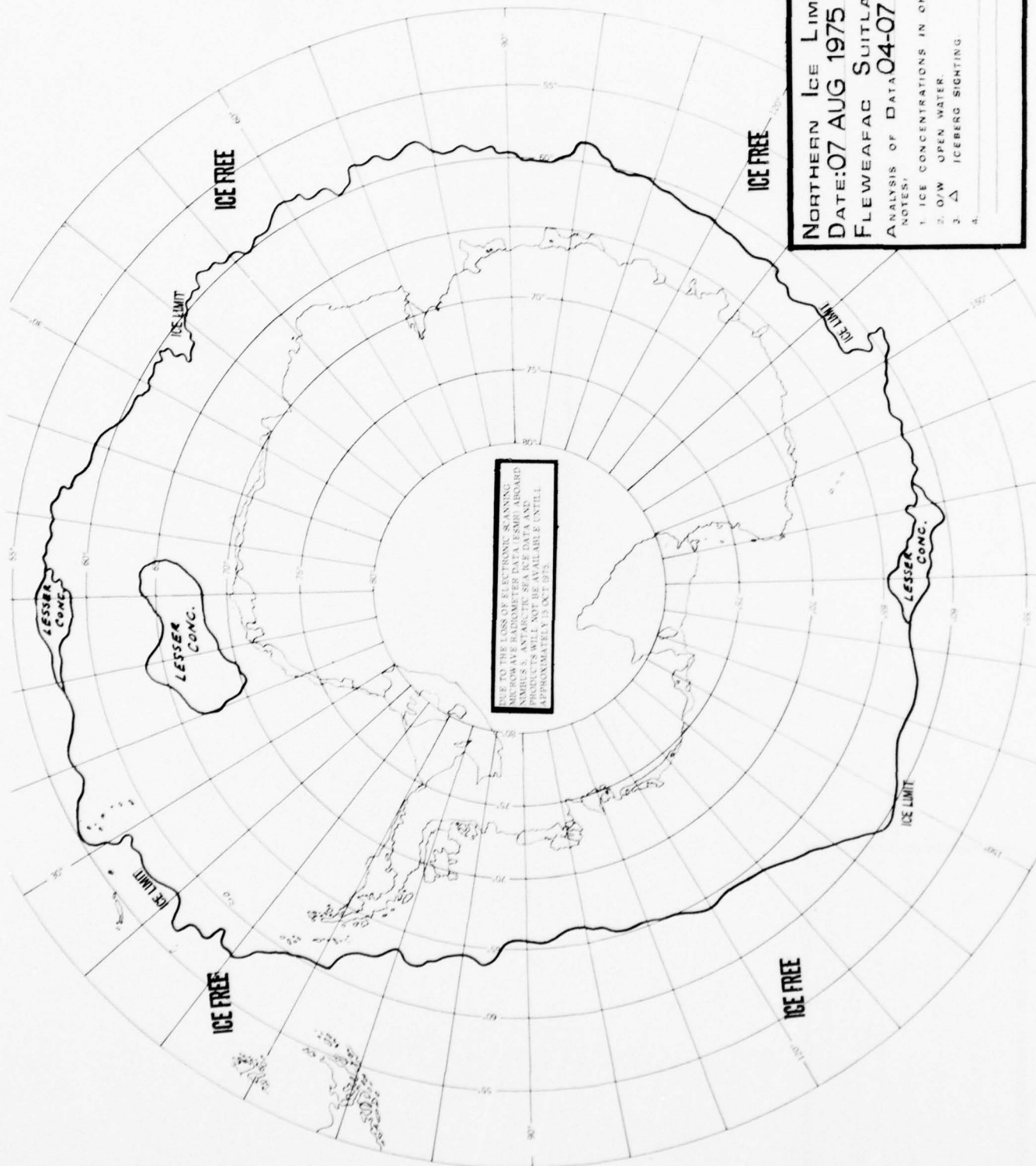


DUE TO THE LOSS OF ELECTRONIC SCANNING
 DATA FROM THE RESEARCH SHIP
 SYMBUS, ANTARCTIC SEA ICE DATA AND PRODUCT
 WILL NOT BE AVAILABLE TILL APPROXIMATELY 15
 OCT 1975.

NORTHERN ICE LIMIT
DATE: 31 JUL 1975
FLEWEAFAC SUITLAND

ANALYSIS OF DATA:

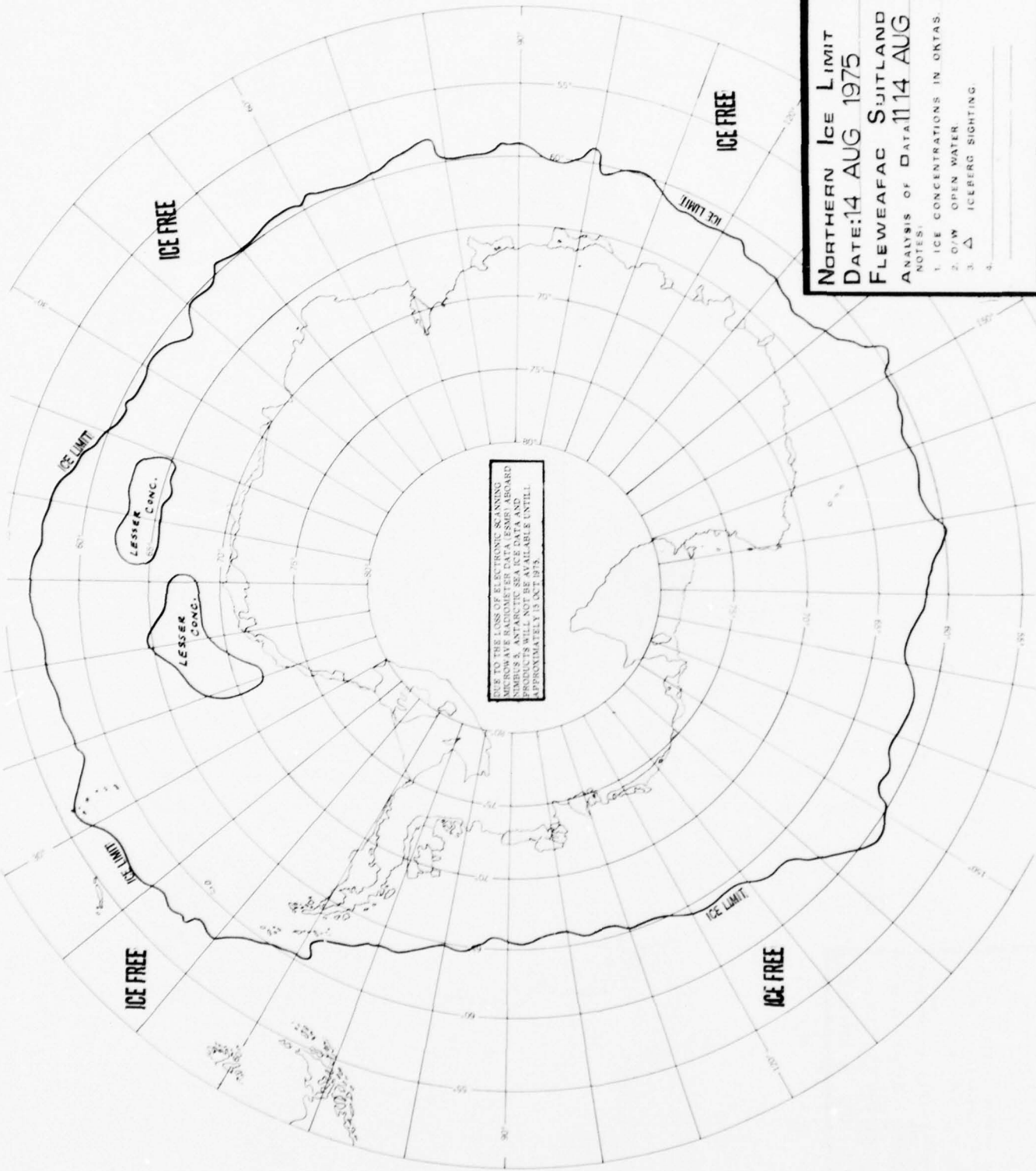
- NOTES:
1. ICE CONCENTRATIONS IN OKTAS.
 2. Q/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. _____



DUE TO THE LASS OF SATELLITE SCANNING
 MICROWAVE RADIOMETER DATA (ESMO AIRCRAFT
 NUMBER 3, ANTARCTIC SEA ICE DATA AND
 PRODUCTS WILL NOT BE AVAILABLE UNTILL
 APPROXIMATELY 15 OCT 1975.

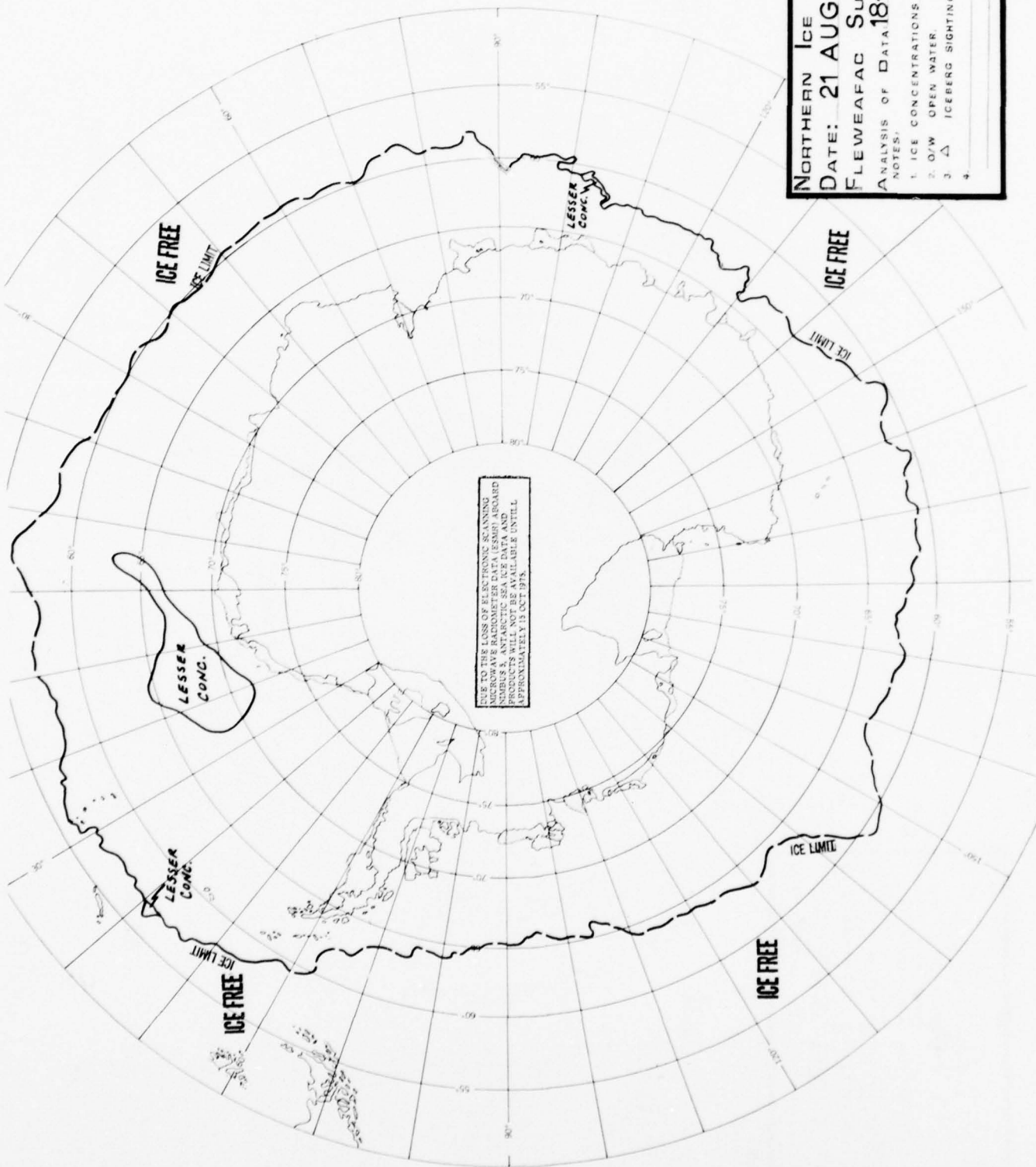
NORTHERN ICE LIMIT
DATE: 07 AUG 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 04-07 AUG

NOTES:
 1. ICE CONCENTRATIONS IN ONTAS
 2. O/W OPEN WATER
 3. Δ ICEBERG SIGHTING
 4. _____



NORTHERN ICE LIMIT
DATE: 14 AUG 1975
FLEWEAFAC SUTLAND
ANALYSIS OF DATA 1114 AUG

NOTES:
 1. ICE CONCENTRATIONS IN DKTAS
 2. O/W OPEN WATER
 3. ▲ ICEBERG SIGHTING
 4. _____

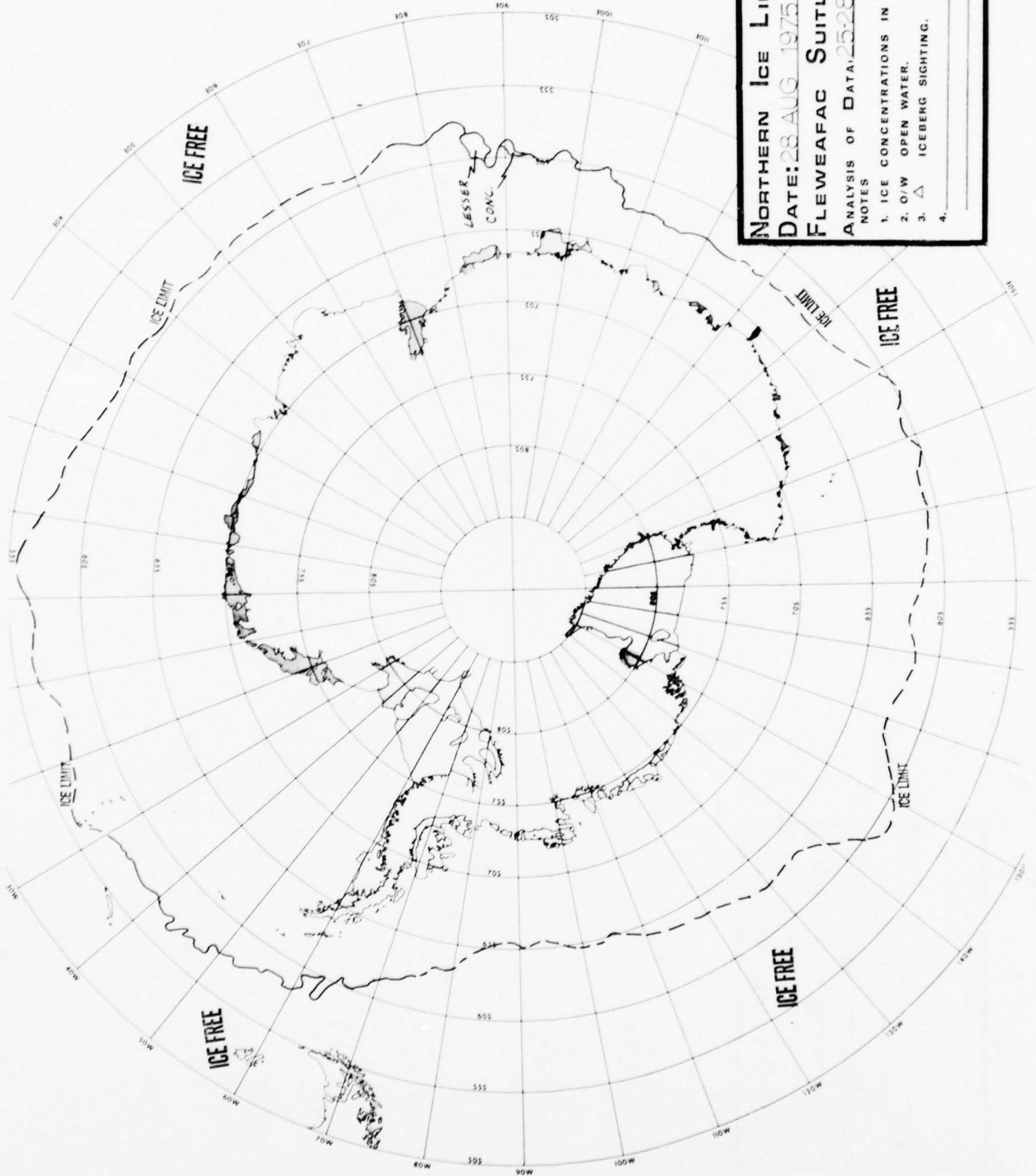


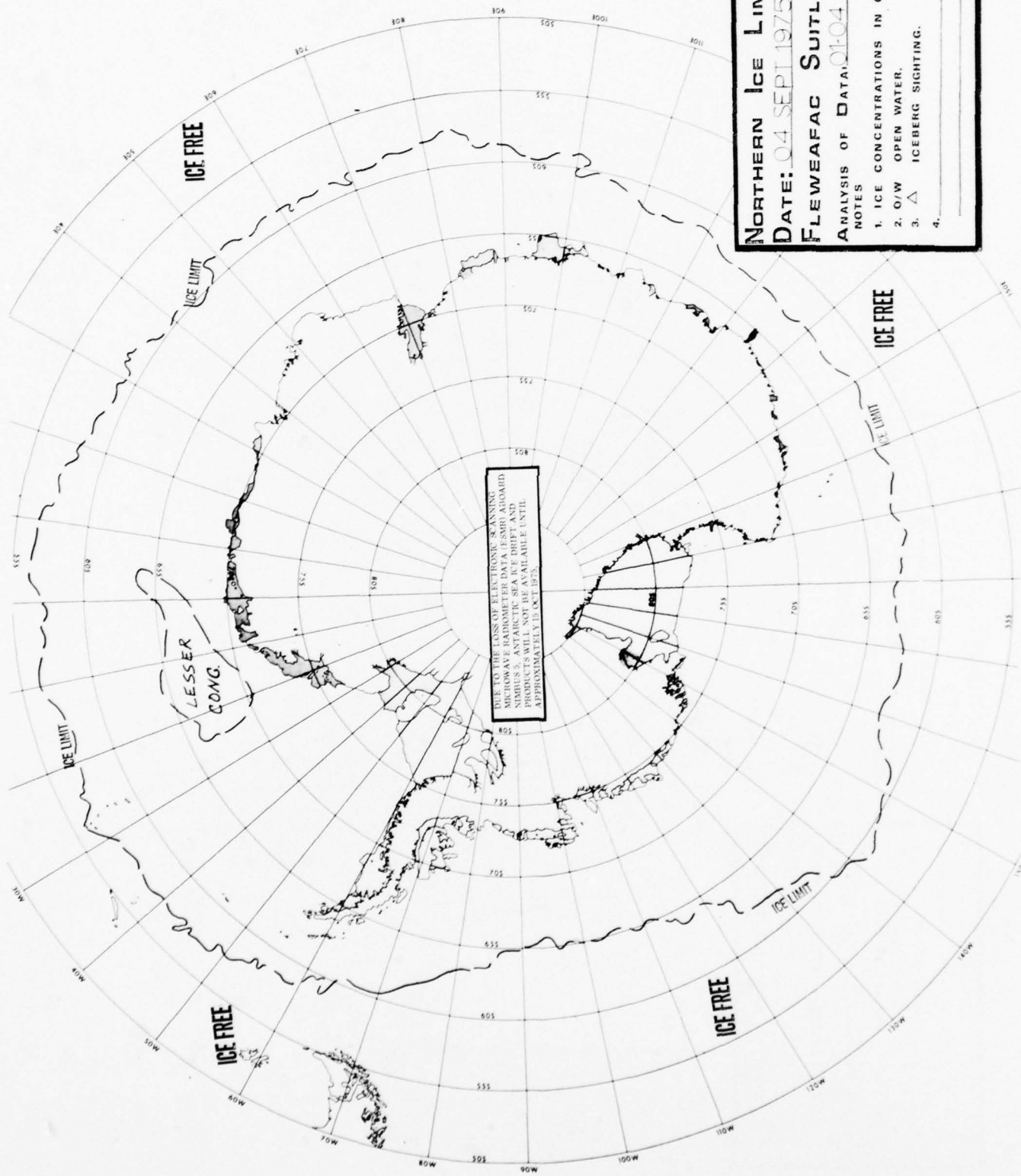
NORTHERN ICE LIMIT
DATE: 21 AUG 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 18-21 AUG

NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. _____

Northern Ice Limit
DATE: 28 AUG 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 25-28 AUG

NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. _____

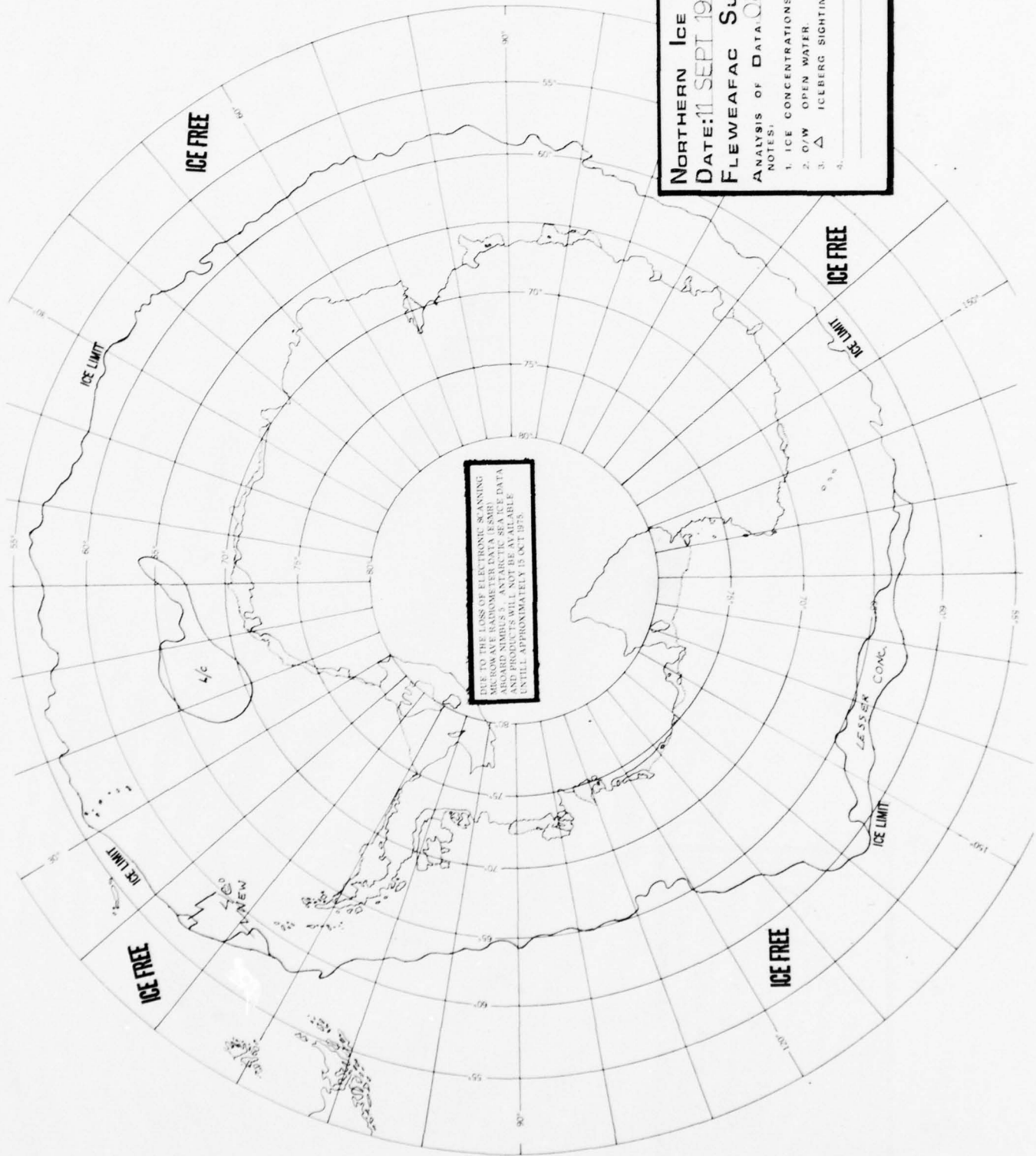




NORTHERN ICE LIMIT
DATE: 04 SEPT 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 01-04 SEPT

NOTES

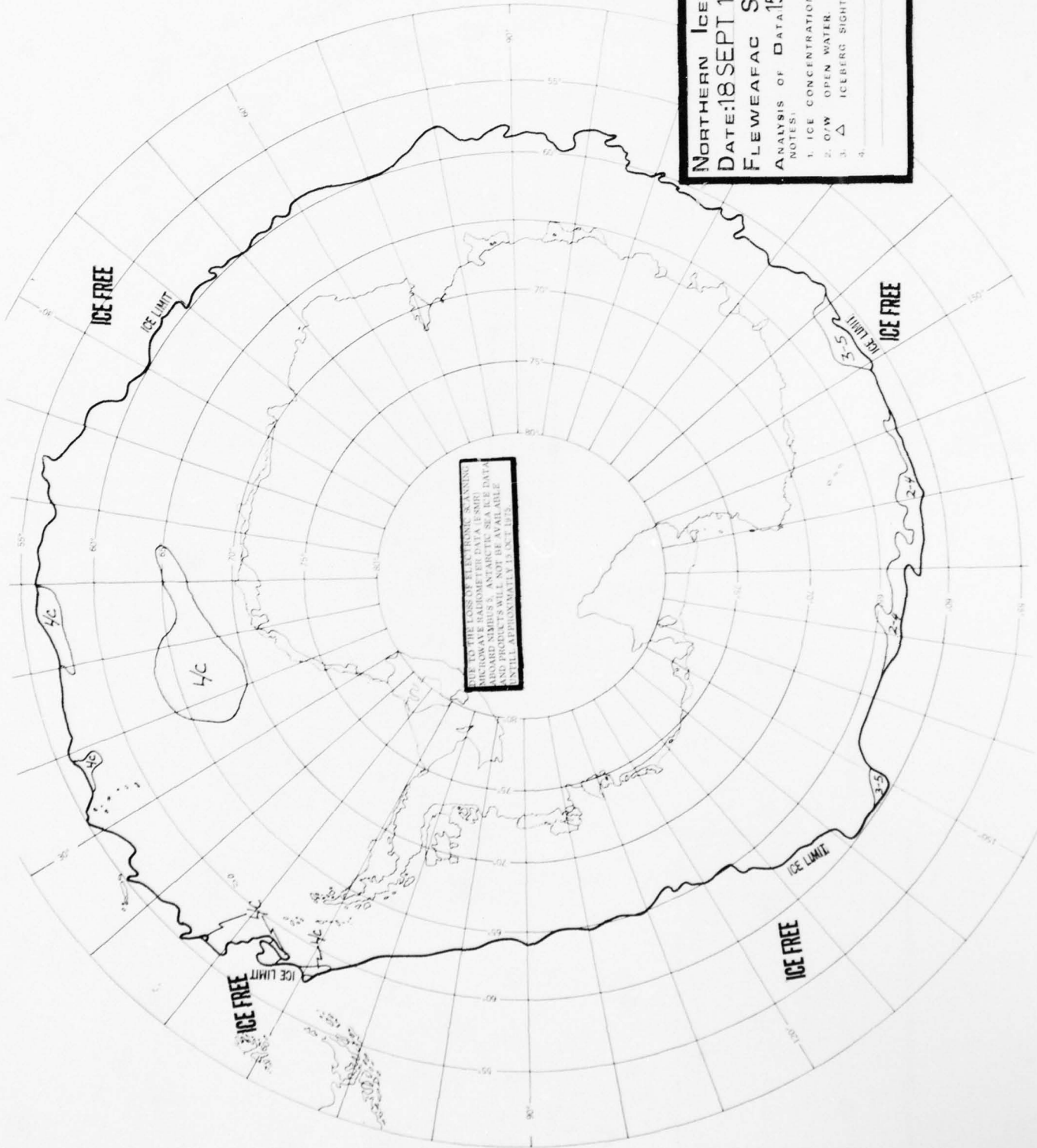
1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. △ ICEBERG SIGHTING.
4. _____



NORTHERN ICE LIMIT
DATE: 11 SEPT 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 08-11 SEPT

NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. _____

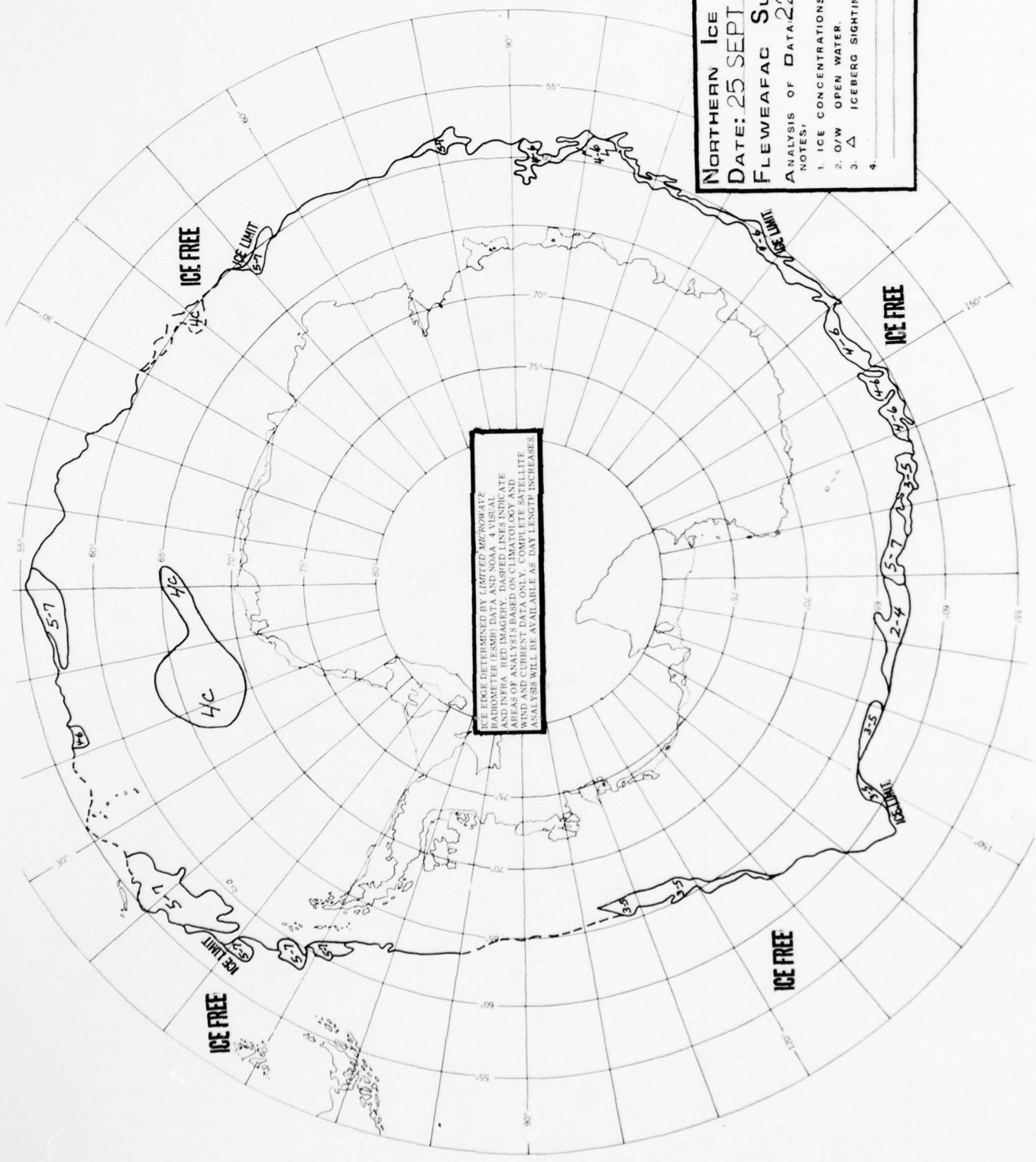
DUE TO THE LOSS OF ELECTRONIC SCANNING
 MICROWAVE RADOMETER DATA LESMID
 ABOARD NIMBUS II, ANTARCTIC DATA
 ANALYSIS CENTER, LANGLEY AIR FORCE BASE, AVAILBLE
 SINCE APPROXIMATELY 15 OCT 1975.



NORTHERN Ice Limit
DATE: 18 SEPT 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 15-18 SEPT

NOTES:
 1. ICE CONCENTRATIONS IN ORTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.

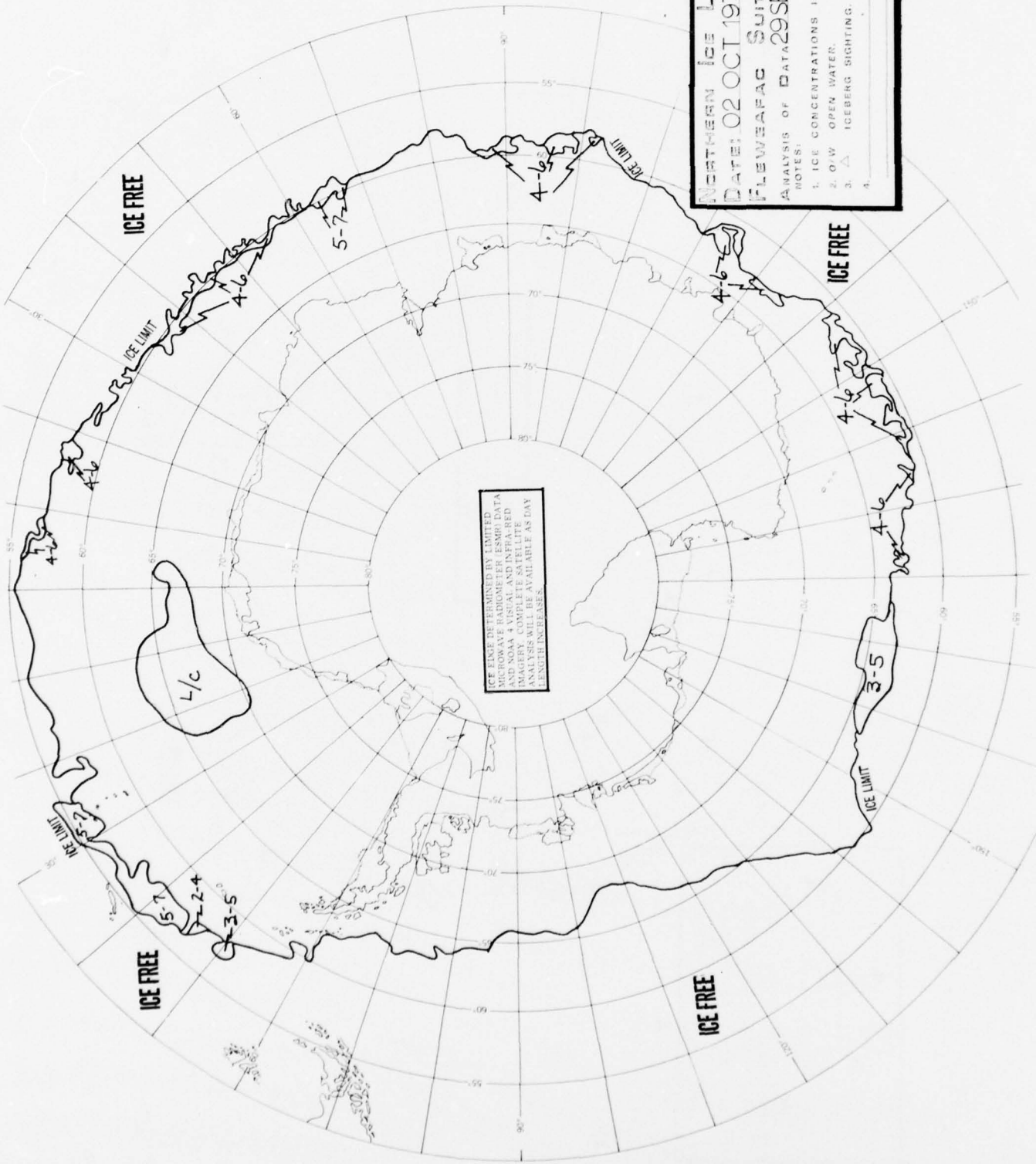
DUE TO THE LOSS OF ELECTRONIC SCANNING
 MICROWAVE RADAR DATA (ESRD)
 ABOARD NIMBUS 3, ANTI-ICE DATA
 AND PRODUCTS AVAILABLE
 WERE APPROXIMATELY 13 OCT 1975.



ICE EDGE DETERMINED BY CURRENT INFORMATION
 FROM VISUAL OBSERVATIONS AND SATELLITE
 DATA. VISUAL DATA IS A VISUAL
 AND SATELLITE DATA. DASHED LINES INDICATE
 AREAS OF ANALYSIS BASED ON CLIMATOLOGY AND
 WIND AND CURRENT DATA ONLY. COMPLETE SATELLITE
 ANALYSIS WILL BE AVAILABLE AS DAY LENGTH INCREASES.

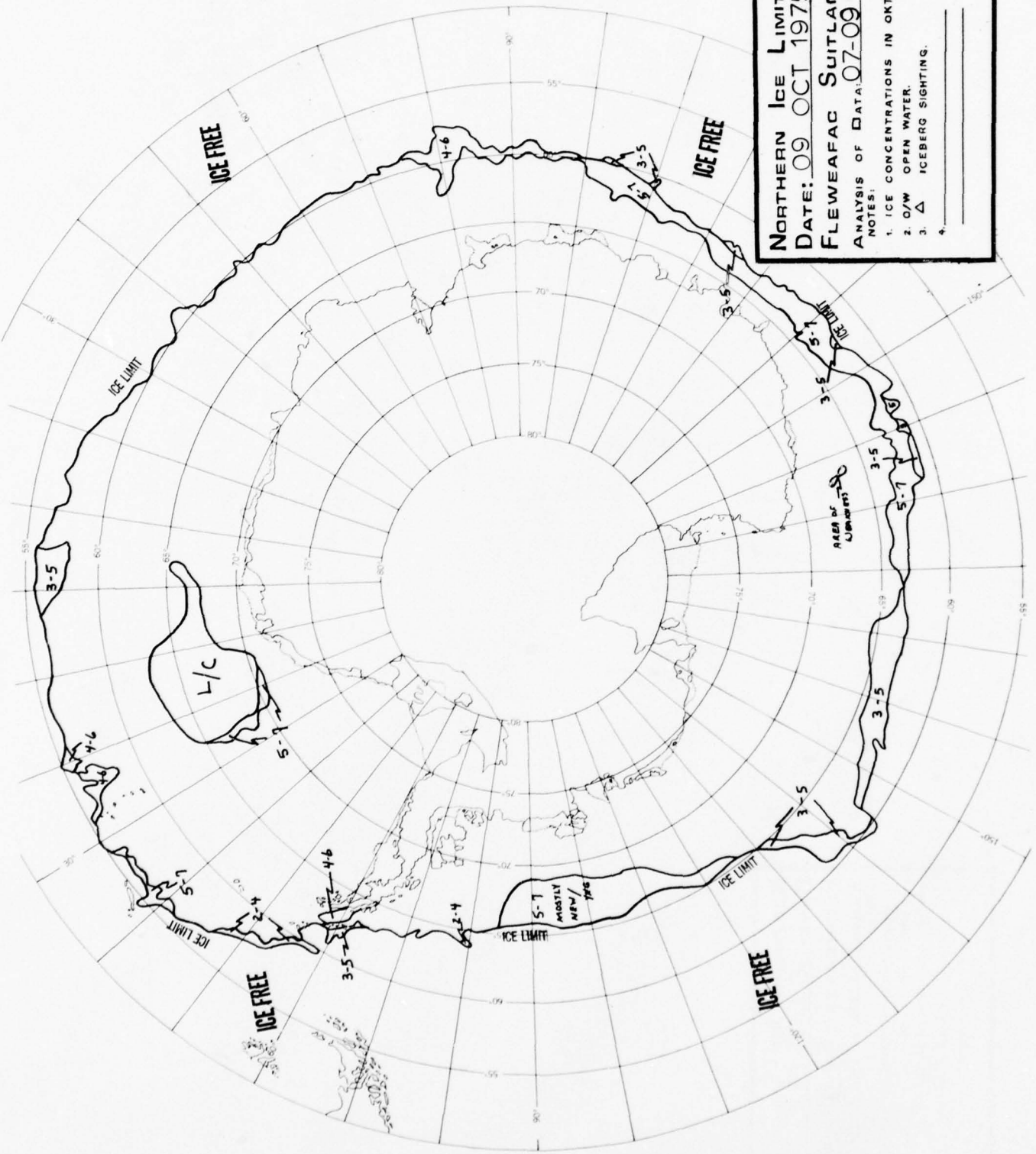
NORTHERN ICE LIMIT
DATE: 25 SEPT 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 22-25 SEPT

NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. _____



NORTHERN ICE LIMIT
DATE: 02 OCT 1975
FLEWEAFAC SUTLAND
ANALYSIS OF DATA: 29 SEP 02 OCT
 NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W - OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. _____

ICE RANGE DETERMINED BY LIMITED
 MICROWAVE RADIOMETER (SMR) DATA
 AND NOAA 4 VISUAL AND INFRARED
 IMAGERY. COMPLETE DATA SETS
 AVAILABLE AS AVAILABLE AS DAY
 LENGTH INCREASES.

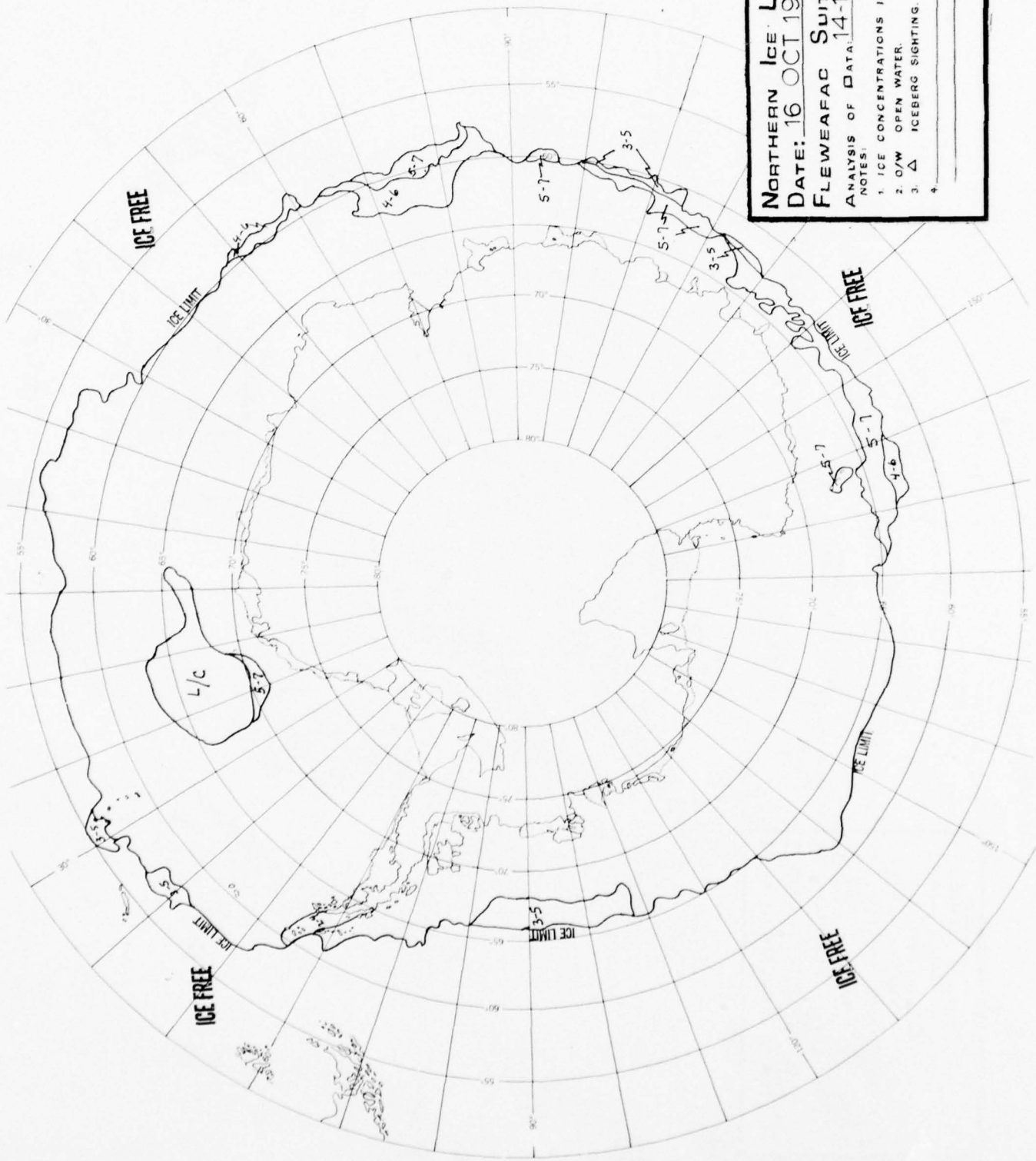


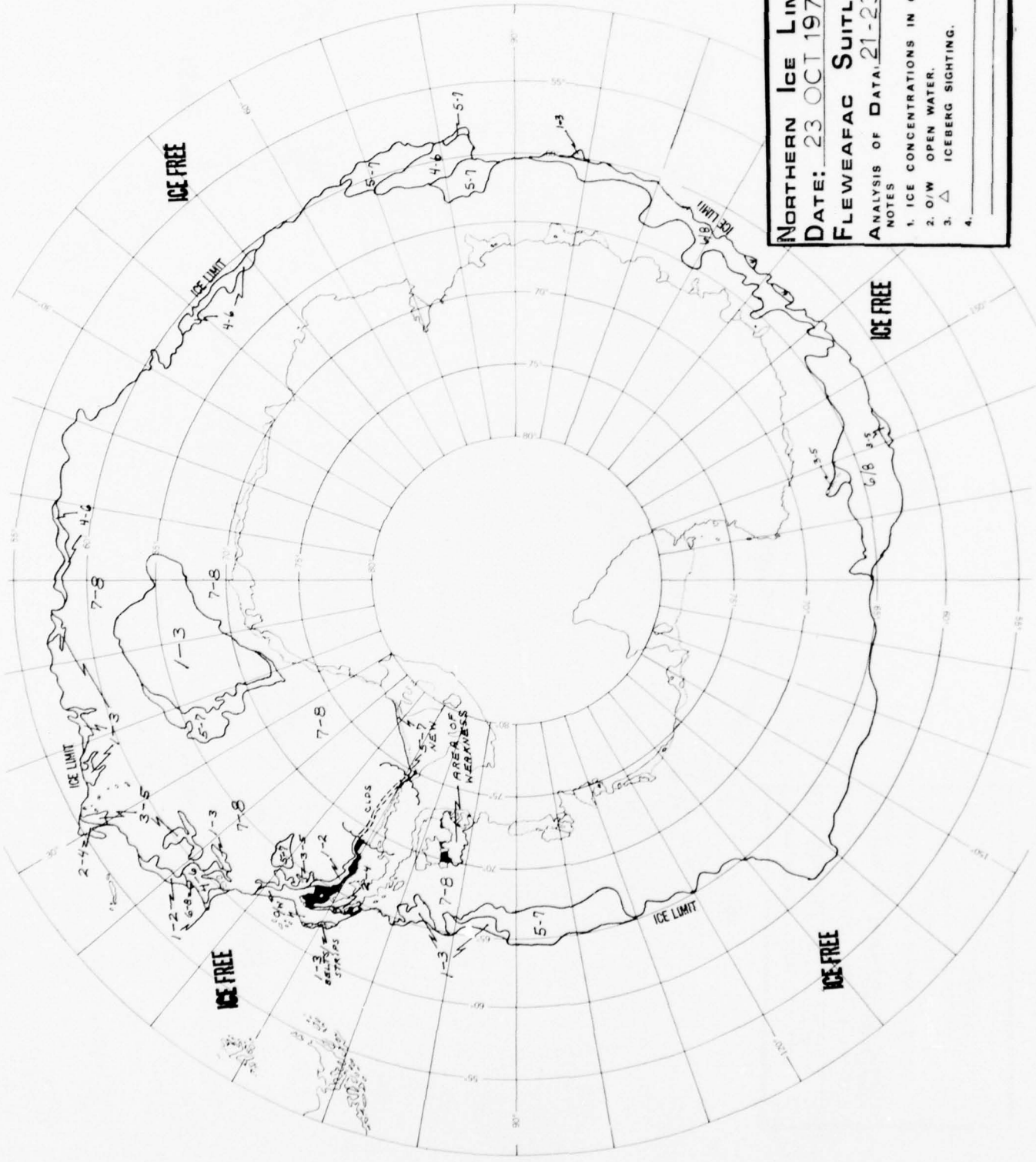
NORTHERN ICE LIMIT
DATE: 09 OCT 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 07-09 OCT

NOTES:
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.

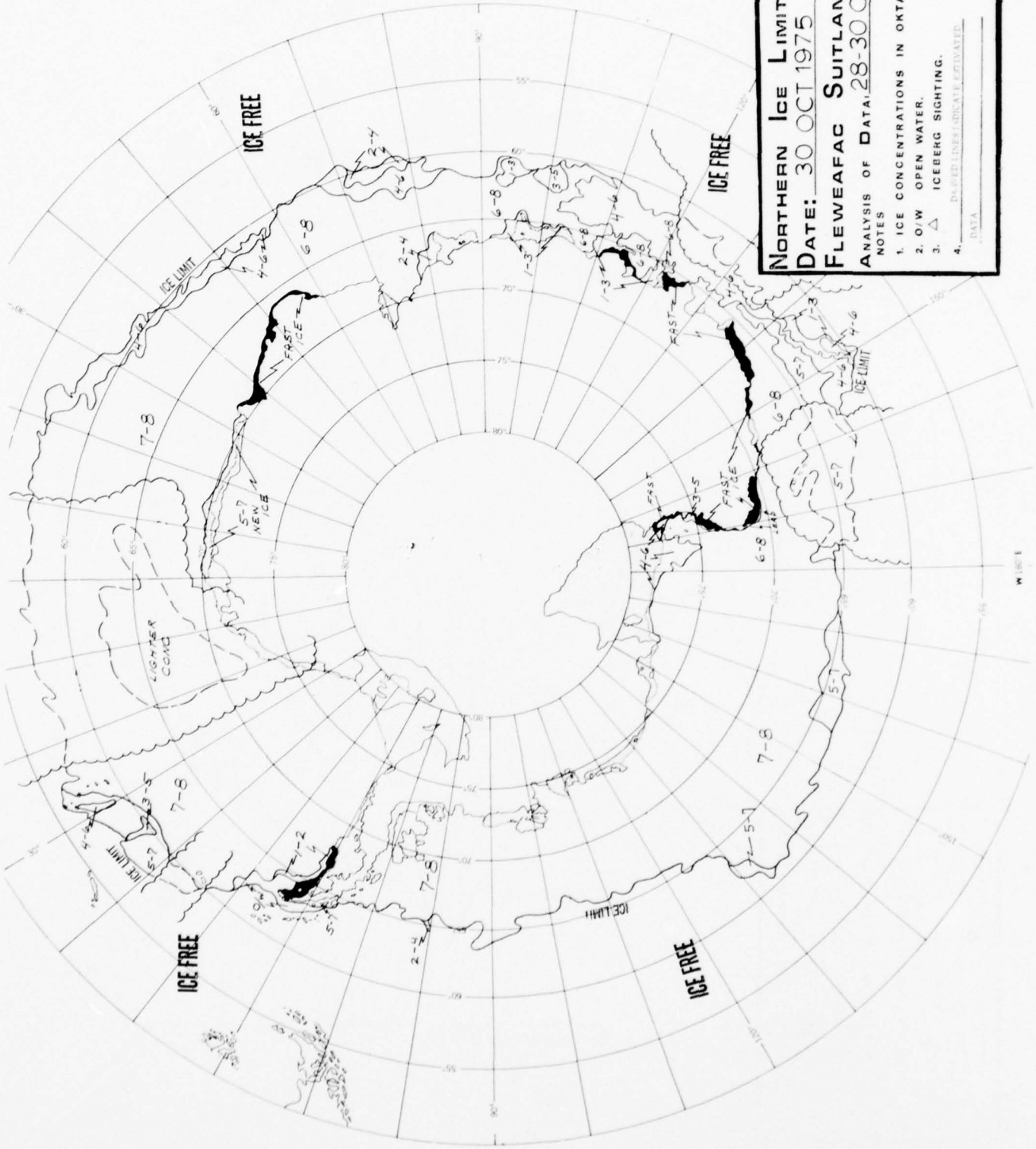
NORTHERN ICE LIMIT
DATE: 16 OCT 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 14-16 OCT

NOTES:
 1. ICE CONCENTRATIONS IN OBTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. _____





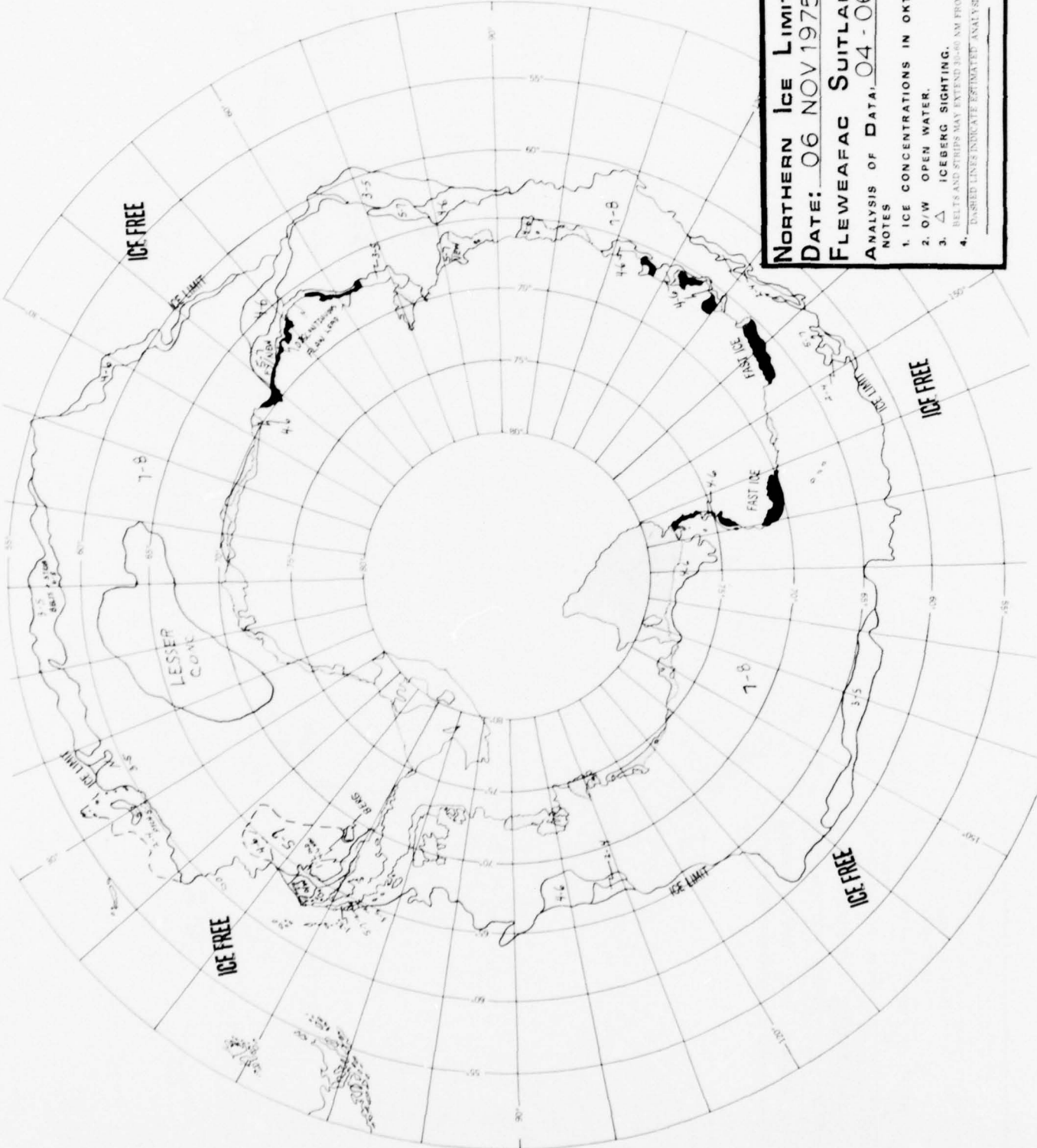
NORTHERN ICE LIMIT
DATE: 23 OCT 1975
FLEWAFAC SUITLAND
ANALYSIS OF DATA: 21-23 OCT
 NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. _____



NORTHERN ICE LIMIT
DATE: 30 OCT 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 28-30 OCT

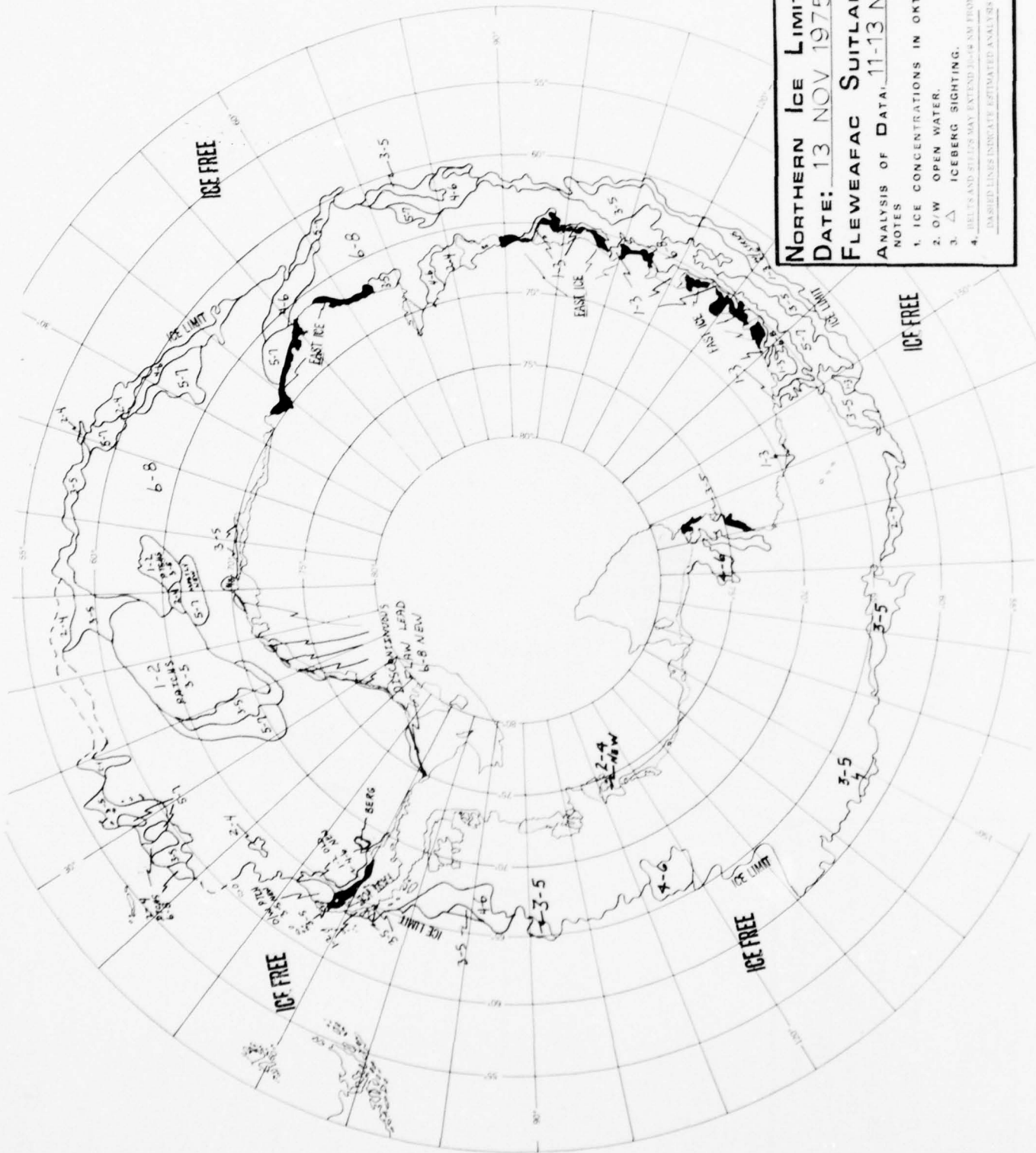
NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. DASHED LINES INDICATE ESTIMATED DATA.



NORTHERN ICE LIMIT
DATE: 06 NOV 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 04 - 06 NOV

NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.
 DASHED LINES INDICATE ESTIMATED ANALYSES.



NORTHERN ICE LIMIT
DATE: 13 NOV 1975
FLEWEFAC SUITLAND
ANALYSIS OF DATA: 11-13 NOV

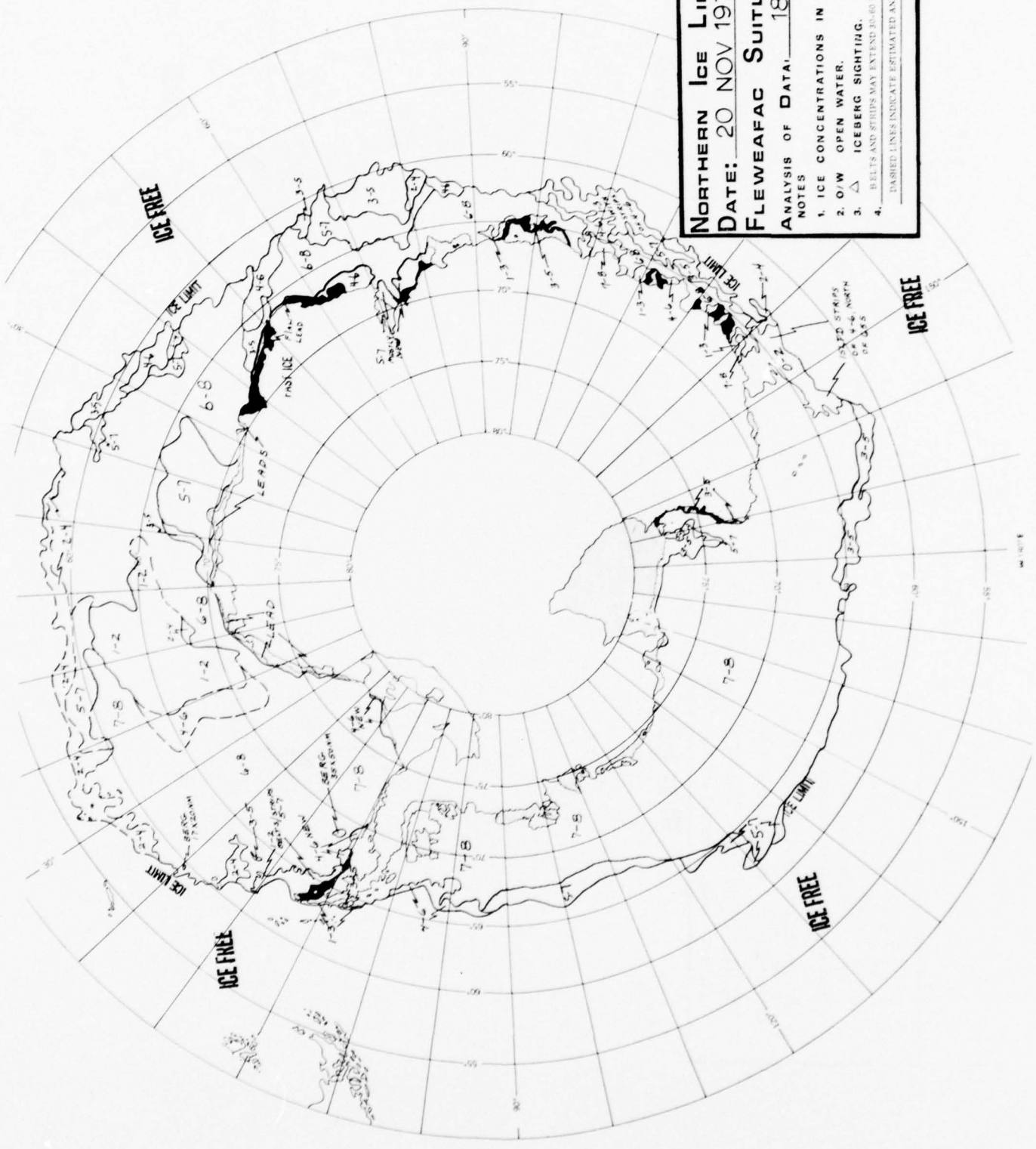
NOTES
 1. ICE CONCENTRATIONS IN ORTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STILES MAY EXTEND 30-40 NM FROM EDGE.
 DASHED LINES INDICATE ESTIMATED ANALYSIS

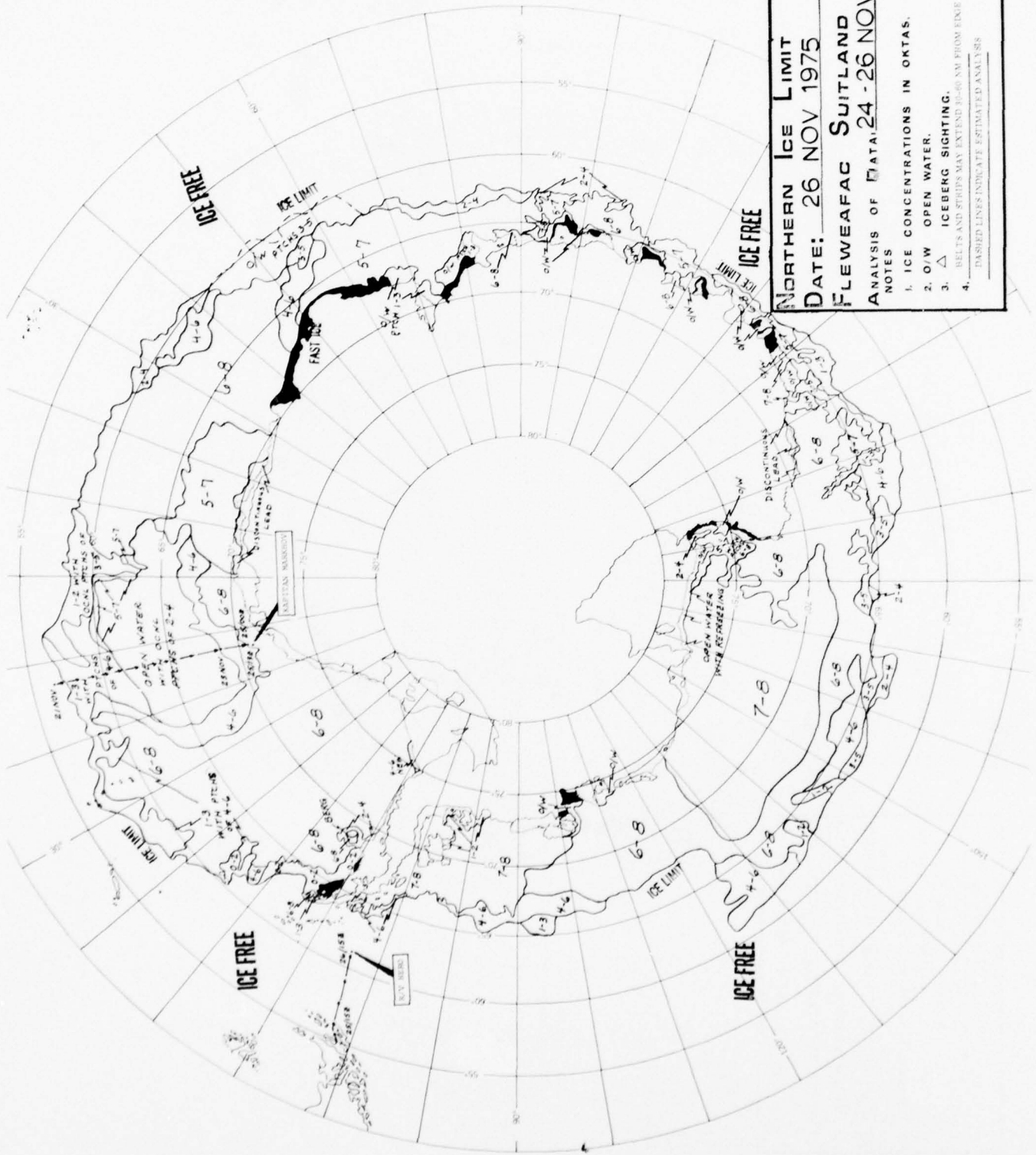
NORTHERN ICE LIMIT
DATE: 20 NOV 1975
FLEWEAFAC SUITLAND 18-20 NOV
ANALYSIS OF DATA: 18-20 NOV

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

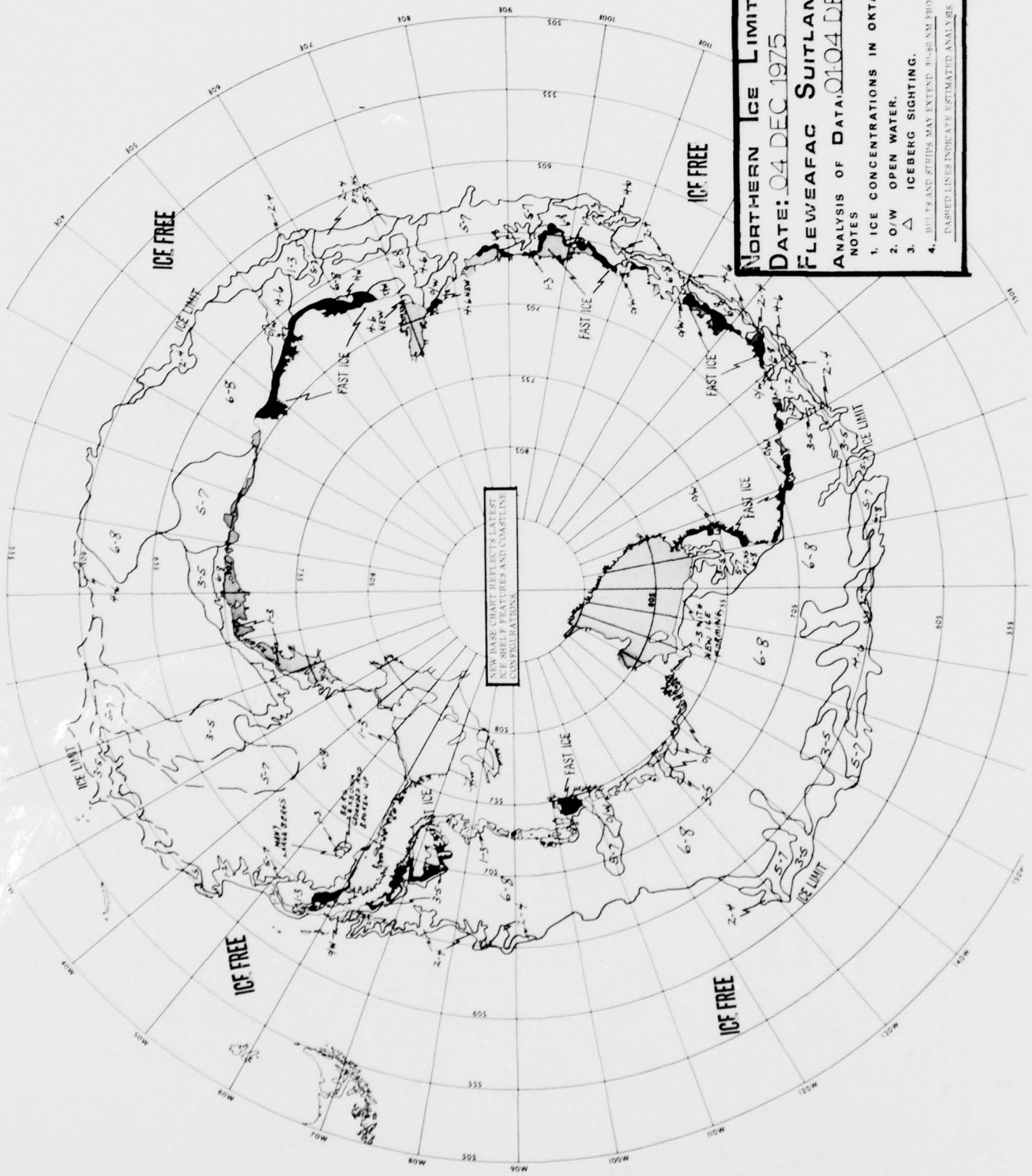
DASHED LINES INDICATE ESTIMATED ANALYSIS





NORTHERN ICE LIMIT
DATE: 26 NOV 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 24 - 26 NOV

NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STRIPS MAY EXTEND 40-60 NM FROM LINE.
 DASHED LINES INDICATE ESTIMATED ANALYSIS.

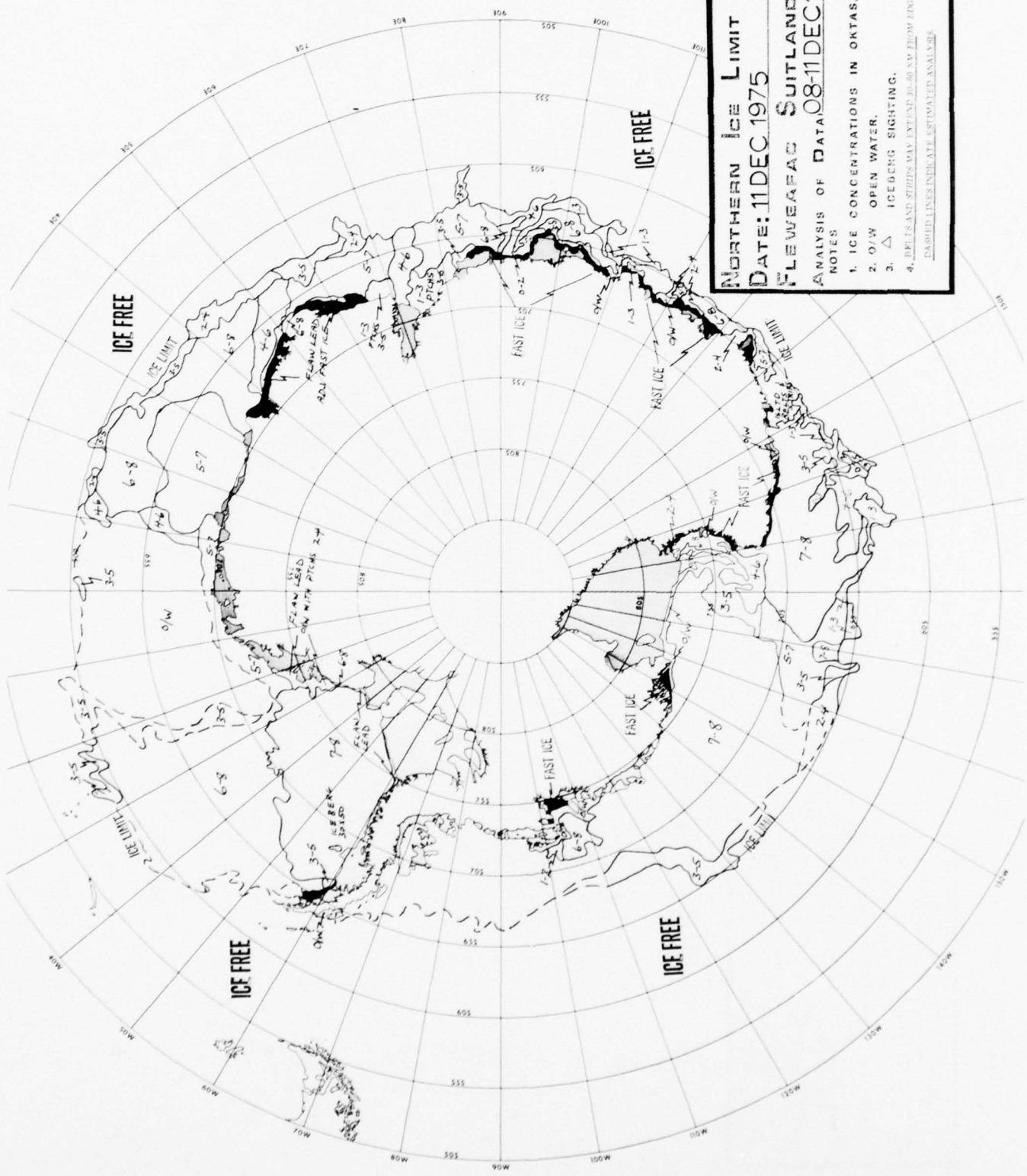


NORTHERN ICE LIMIT
DATE: 04 DEC 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA, 01-04 DEC

NOTES

1. ICE CONCENTRATIONS IN OKTAS
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BULBS AND STIPES MAY EXTEND 30-60 KM FROM ENCE
 DASHED LINES INDICATE ESTIMATED ANALYSIS

NEW BASE CHART REFLECTS LATEST
 ICE SHELF FEATURES AND COASTLINE
 CONTOURINGS

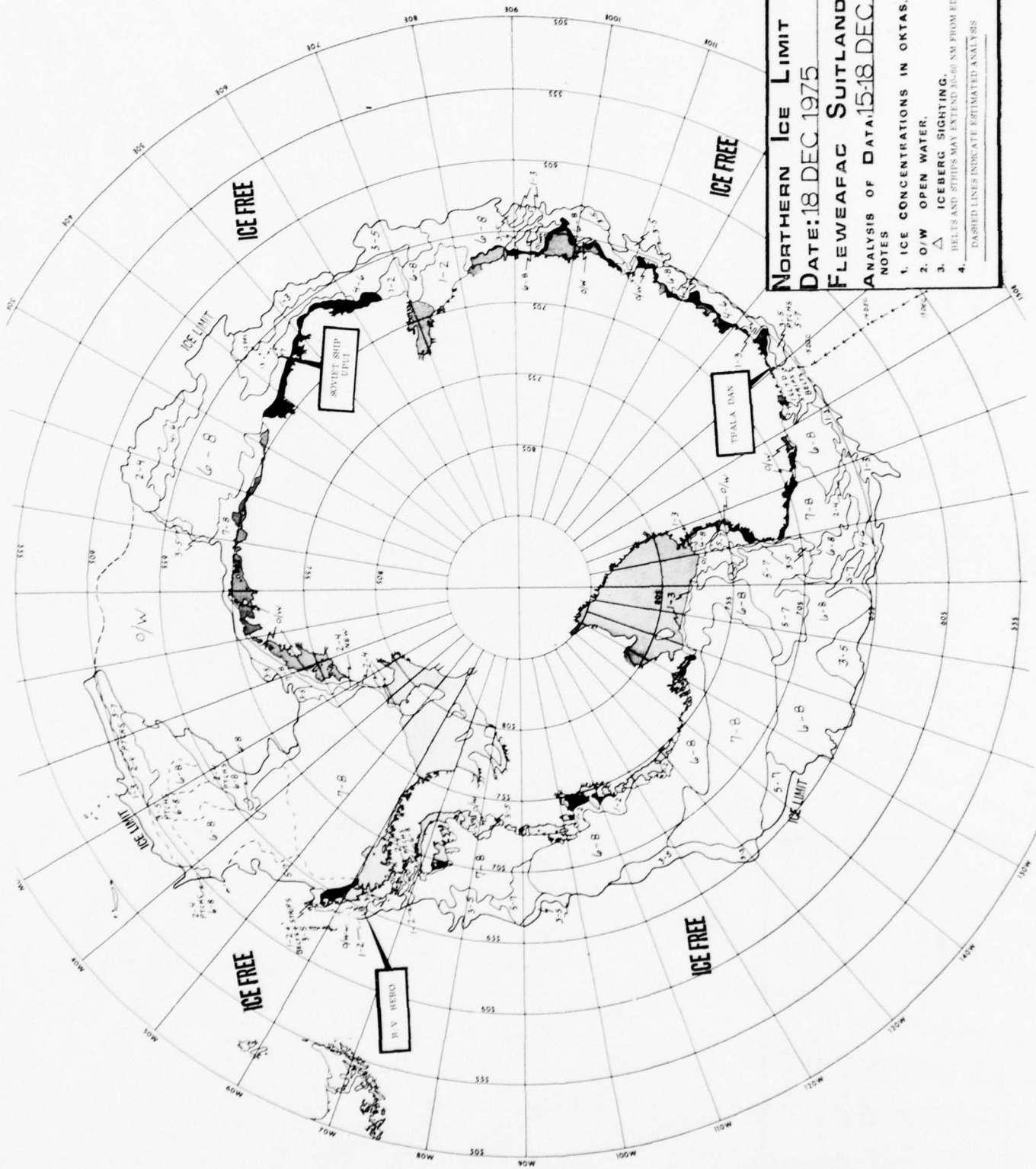


NORTHERN ICE LIMIT
DATE: 11 DEC 1975
FLEWEAFAC SUTTLAND
ANALYSIS OF DATA 08-11 DEC 1975

NOTES

1. ICE CONCENTRATIONS IN ORTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. DELIS AND STRIPS MAY EXTEND 20-40 NM FROM EDGE

DASHED LINES INDICATE ESTIMATED ANALYSIS

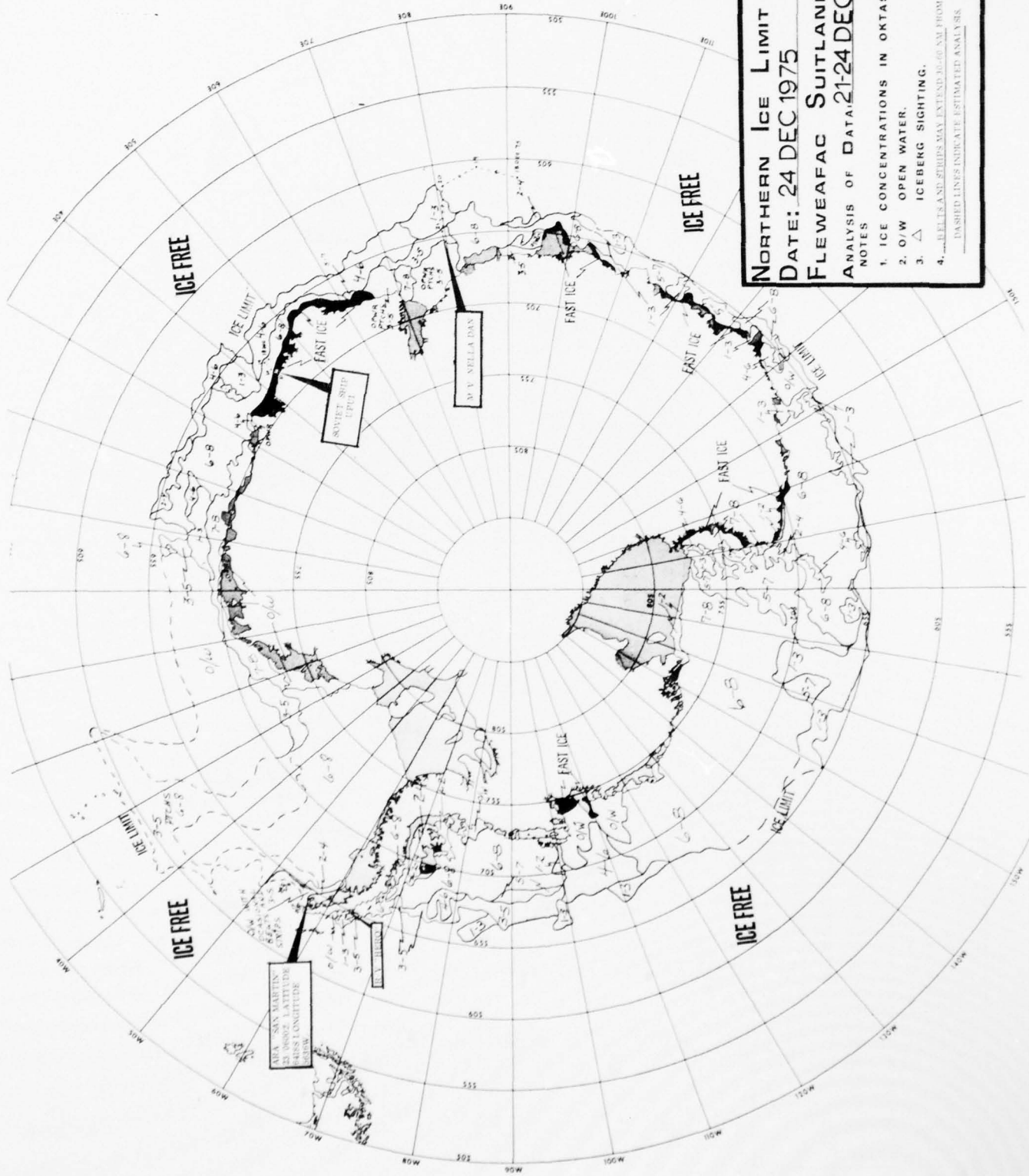


NORTHERN ICE LIMIT
DATE: 18 DEC 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 15-18 DEC

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND SHIPS MAY EXTEND 30-60 NM FROM EDGE

DASHED LINES INDICATE ESTIMATED ANALYSIS

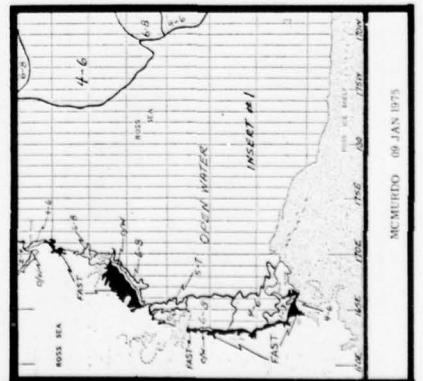
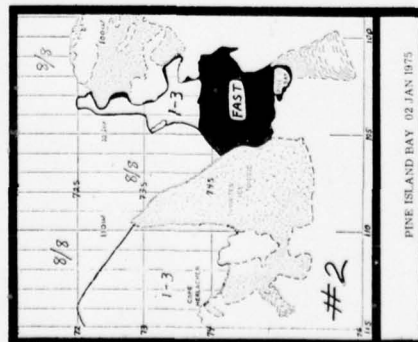
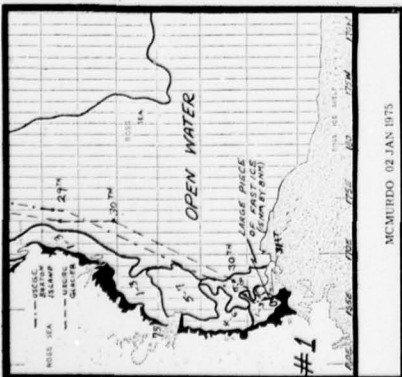
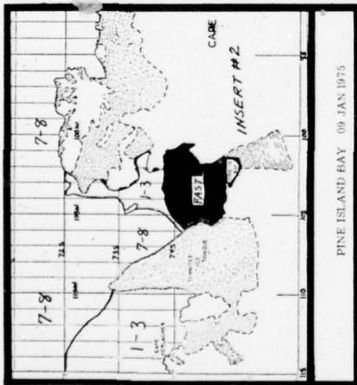
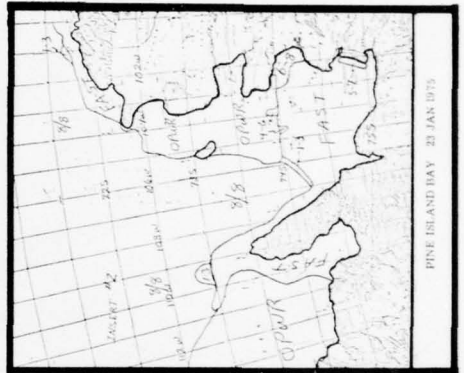
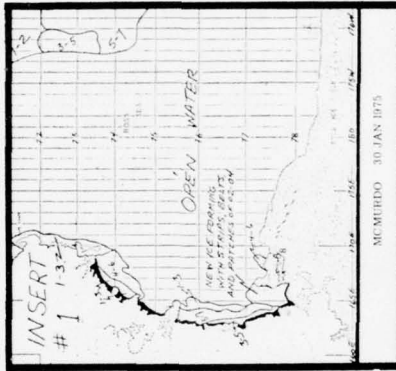
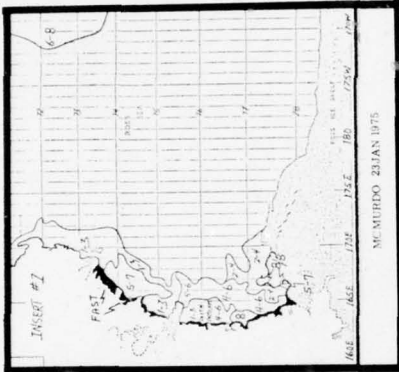
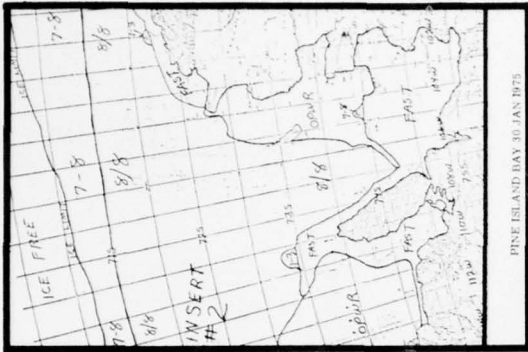


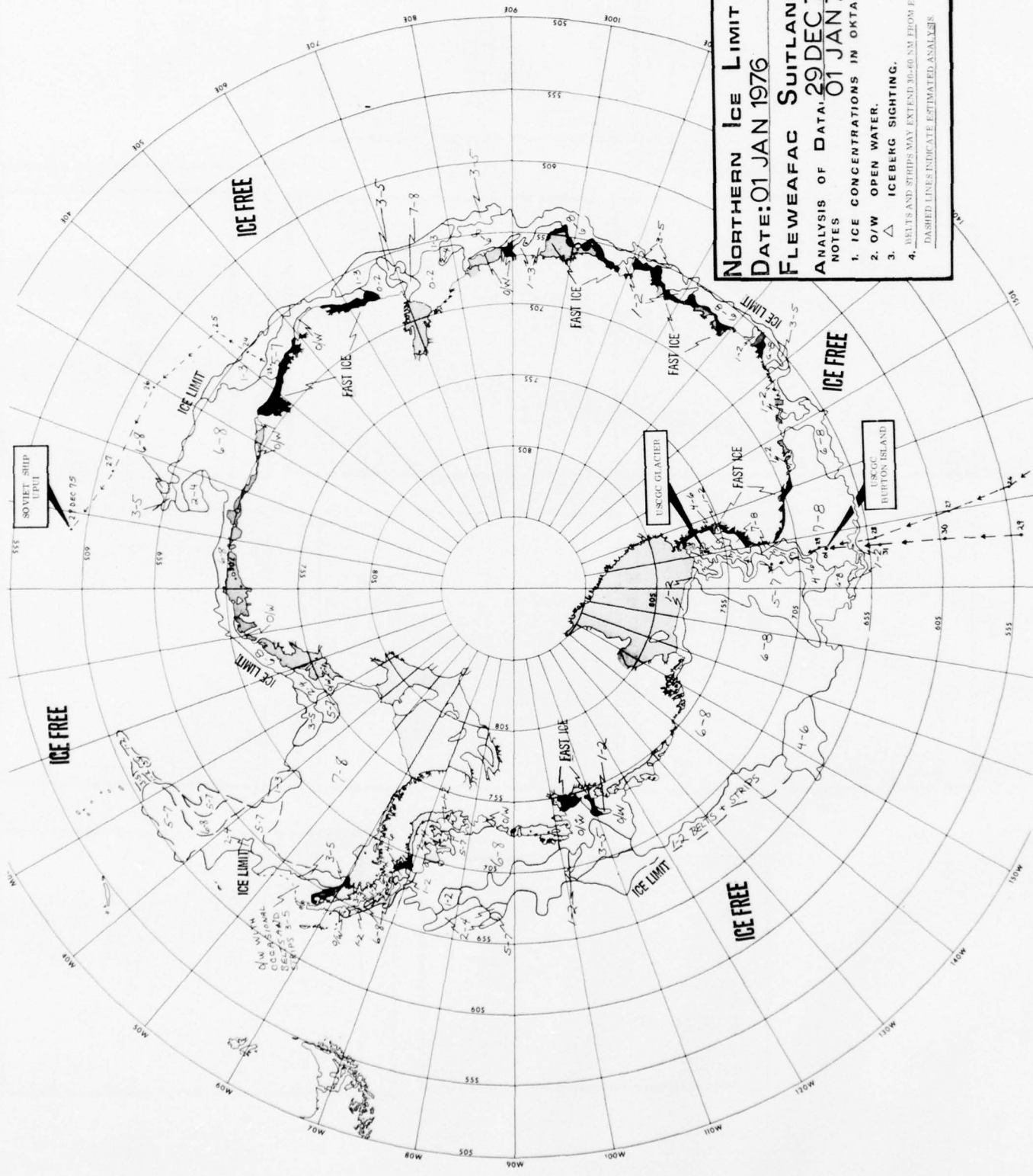
NORTHERN ICE LIMIT
DATE: 24 DEC 1975
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 21-24 DEC

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. ... ICEBERG SIGHTING MAY EXTEND 10.0 NM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS





NORTHERN ICE LIMIT
DATE: 01 JAN 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 29 DEC 75
NOTES: 01 JAN 76

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS.

SOVIET SHIP
 UPUI
 27 DEC 75

USCGC
 GLACIER

USCGC
 BURTON ISLAND

ICE FREE

ICE FREE

ICE FREE

ICE FREE

FAST ICE

FAST ICE

FAST ICE

FAST ICE

FAST ICE

ICE LIMIT

ICE LIMIT

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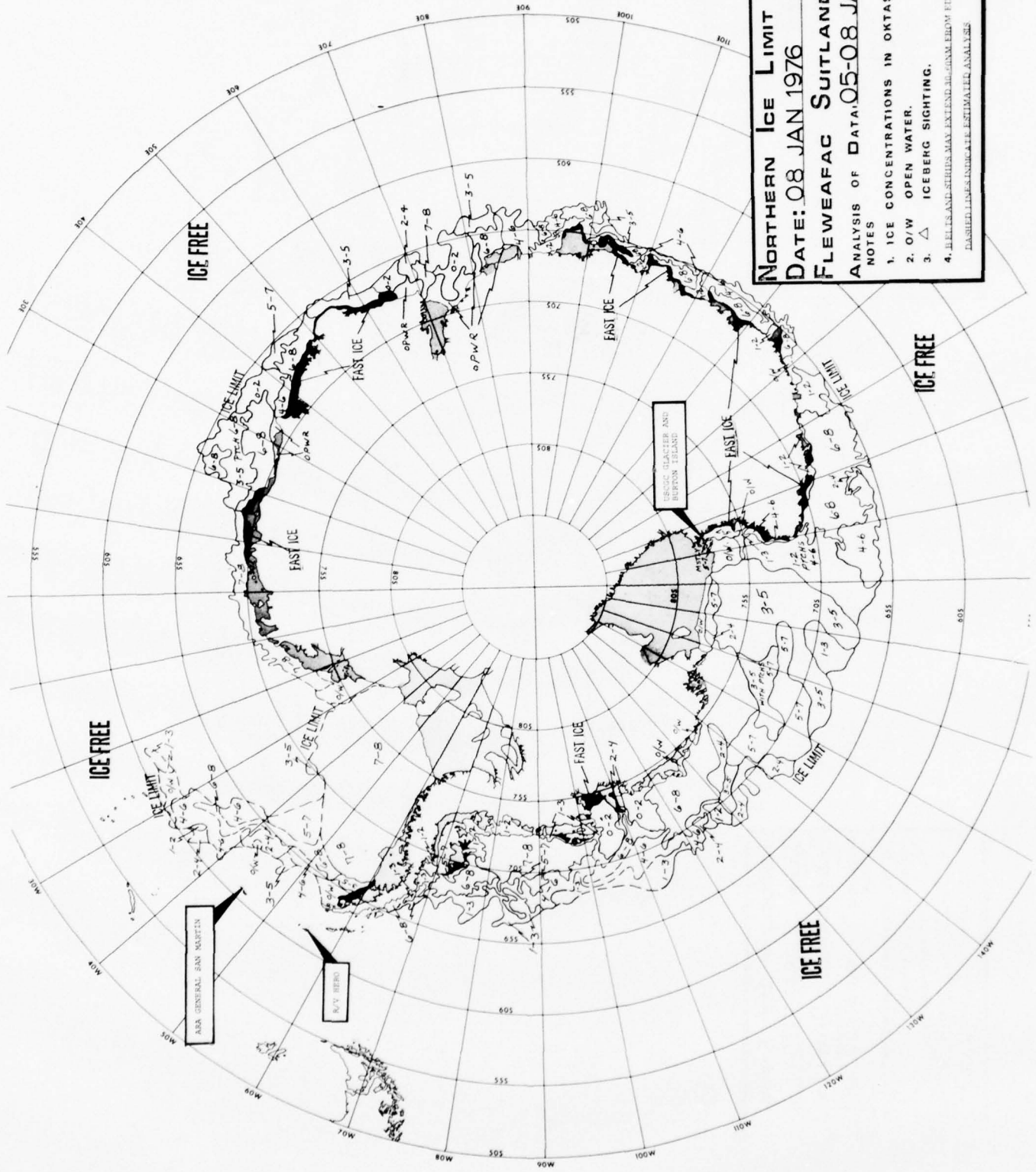
ICE LIMIT

ICE LIMIT

ICE LIMIT

ICE LIMIT

ICE LIMIT



NORTHERN ICE LIMIT
DATE: 08 JAN 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 05-08 JAN

NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. * BELLS AND SIRENS MAY EXTEND BEYOND ERYM FUDGE.
 DASHED LINES INDICATE ESTIMATED ANALYSIS.

ASA GENERAL SAN MARTIN

N/V BERG

BERGIC GLACIER AND
 BURTON ISLAND

ICE FREE

ICE FREE

FAST ICE

FAST ICE

ICE FREE

ICE FREE

ICE LIMIT

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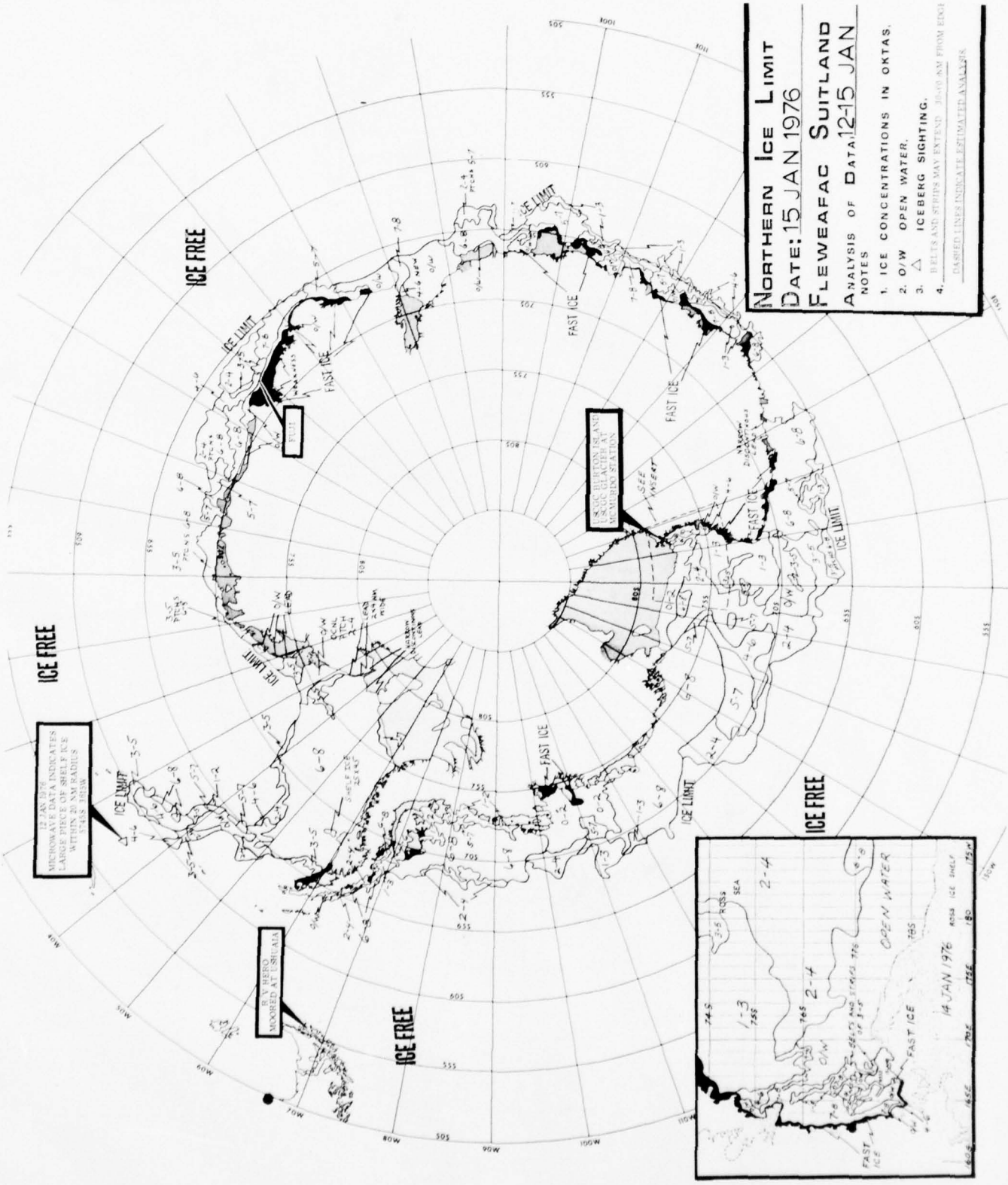
ICE LIMIT

ICE LIMIT

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ICE LIMIT

ICE LIMIT



**NORTHERN ICE LIMIT
DATE: 15 JAN 1976
FLEWEAFAC SUITLAND**

ANALYSIS OF DATA 12-15 JAN
NOTES

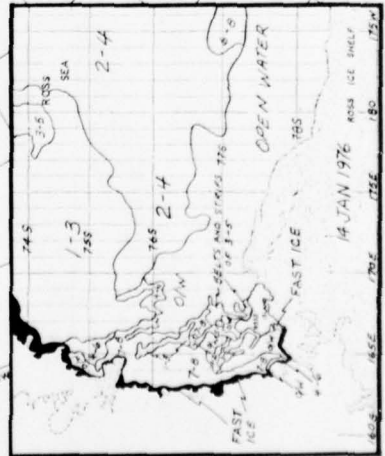
1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 25-50 NM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS

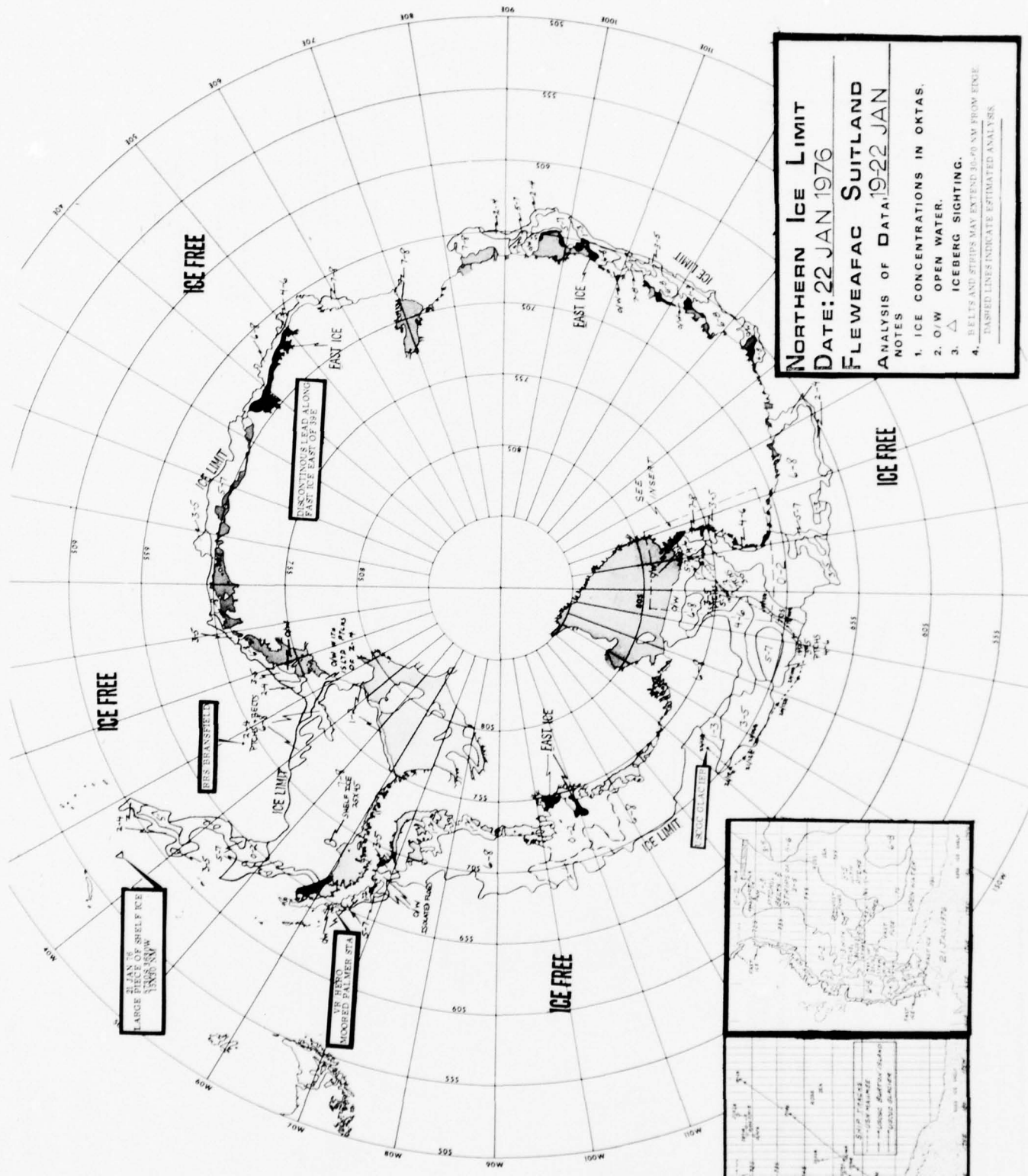
THIS POINT IS INDICATED BY MICROWAVE DATA INDICATES LARGE PIECE OF SHELF ICE WITHIN 20 NM RADII 5745 1915W

RAY BEERO MOORED AT USHIGATA

ICEBERG SIGHTED AT USHIGATA STATION



14 JAN 1976
FAST ICE
OPEN WATER
ICEBERG SIGHTING

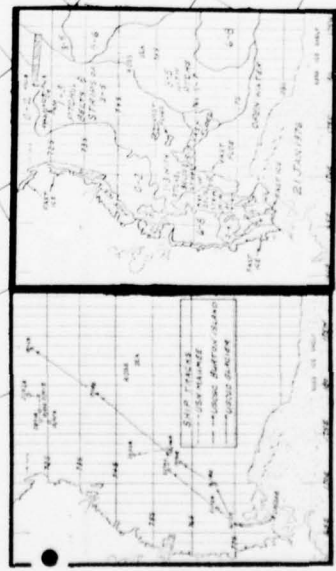


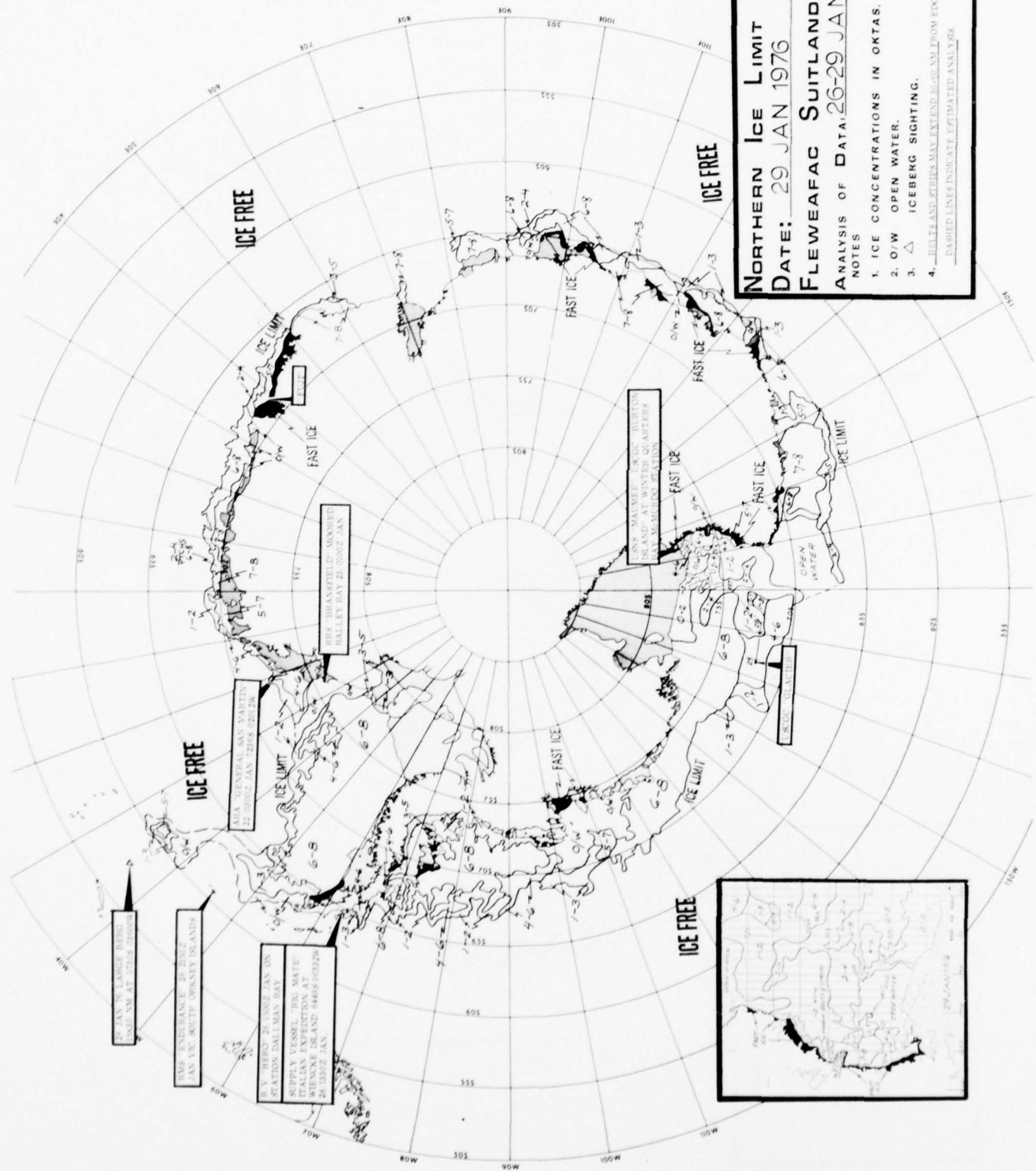
NORTHERN ICE LIMIT
DATE: 22 JAN 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 1922 JAN

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELLS AND STRIPS MAY EXTEND 10-50 NM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS.



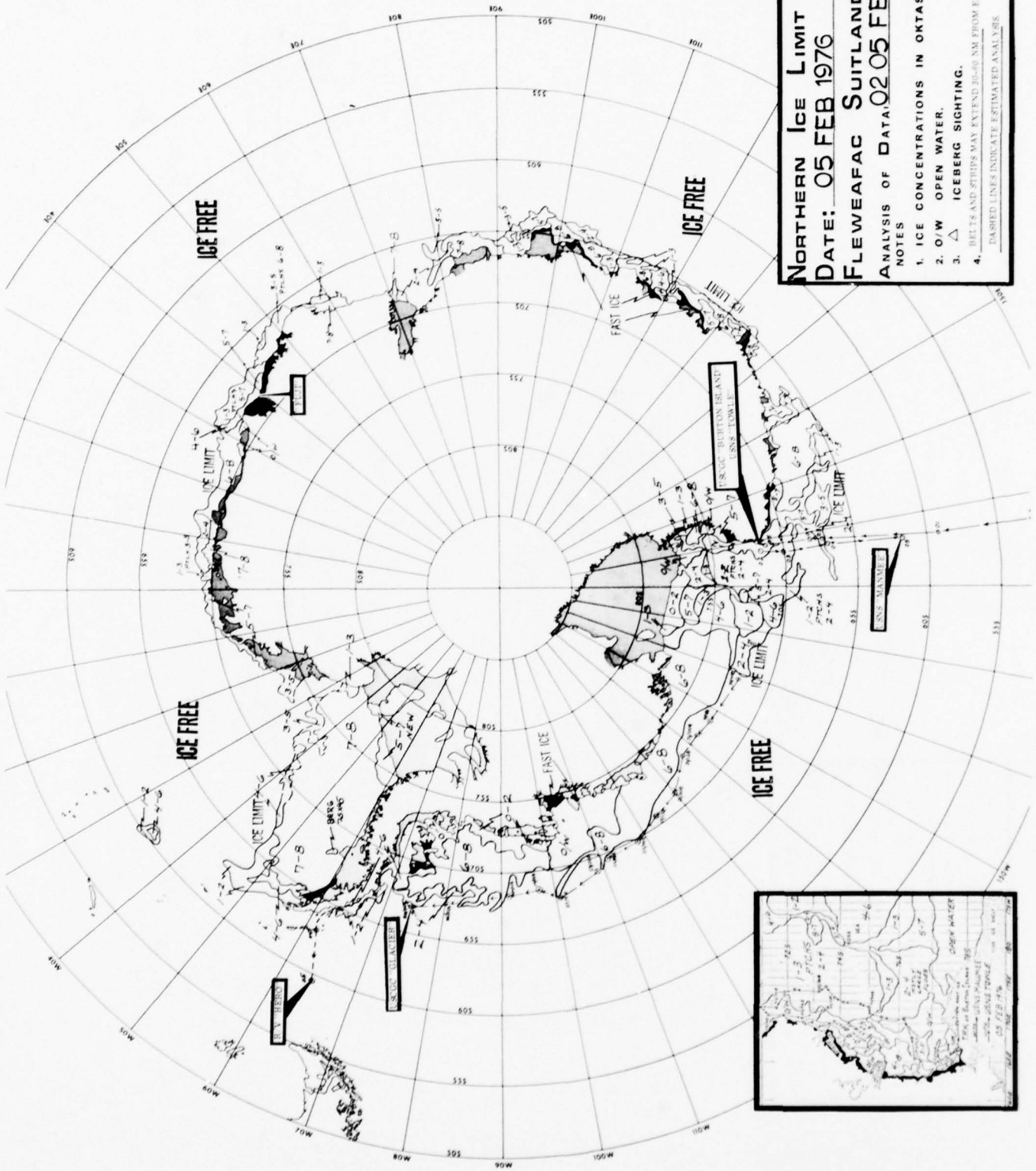


NORTHERN ICE LIMIT
DATE: 29 JAN 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 26-29 JAN

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. DASHED LINES AND STRIPS MAY EXTEND 16-50 KM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS



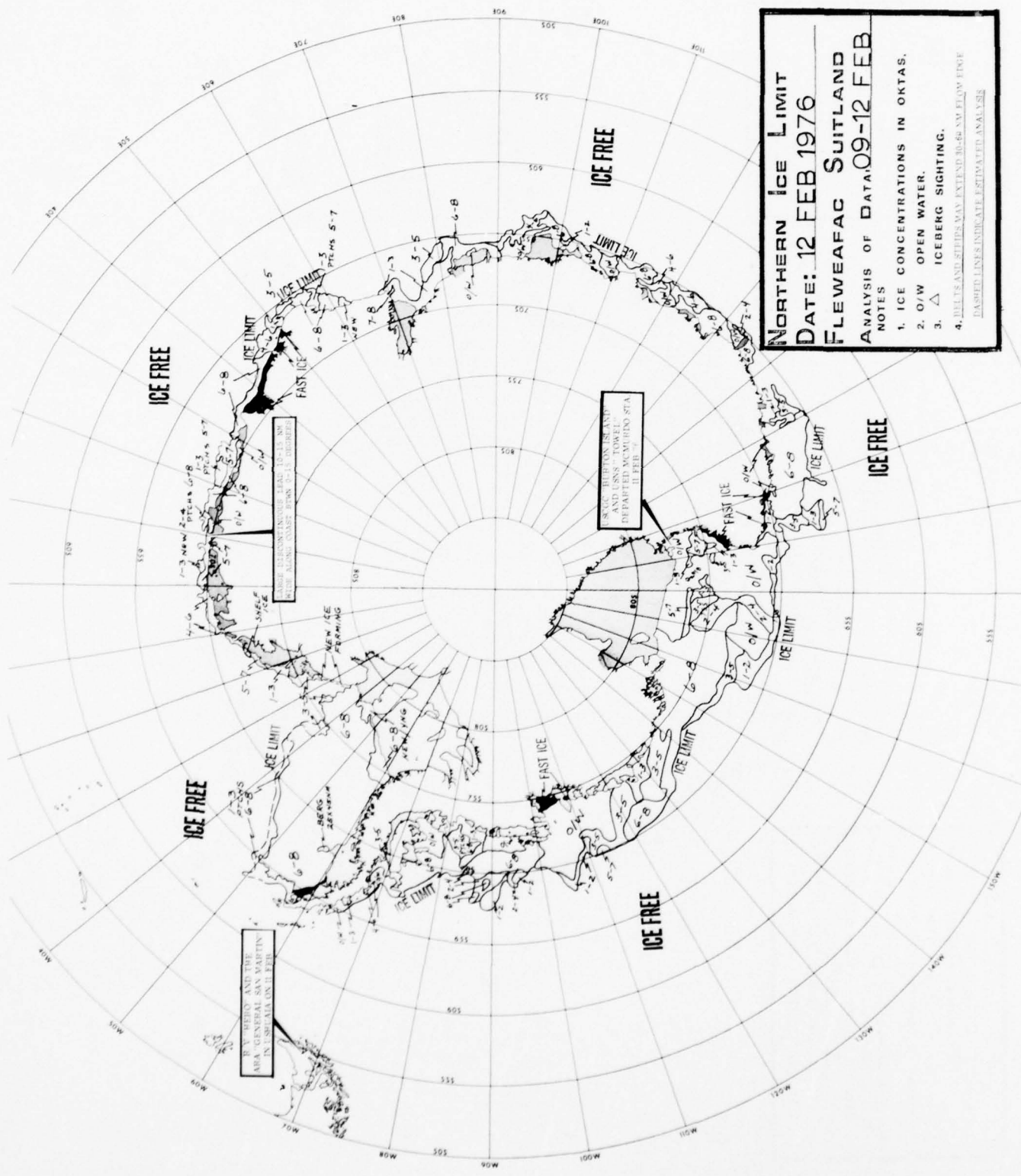
NORTHERN ICE LIMIT
DATE: 05 FEB 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 02 05 FEB

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

--- DASHED LINES INDICATE ESTIMATED ANALYSIS.





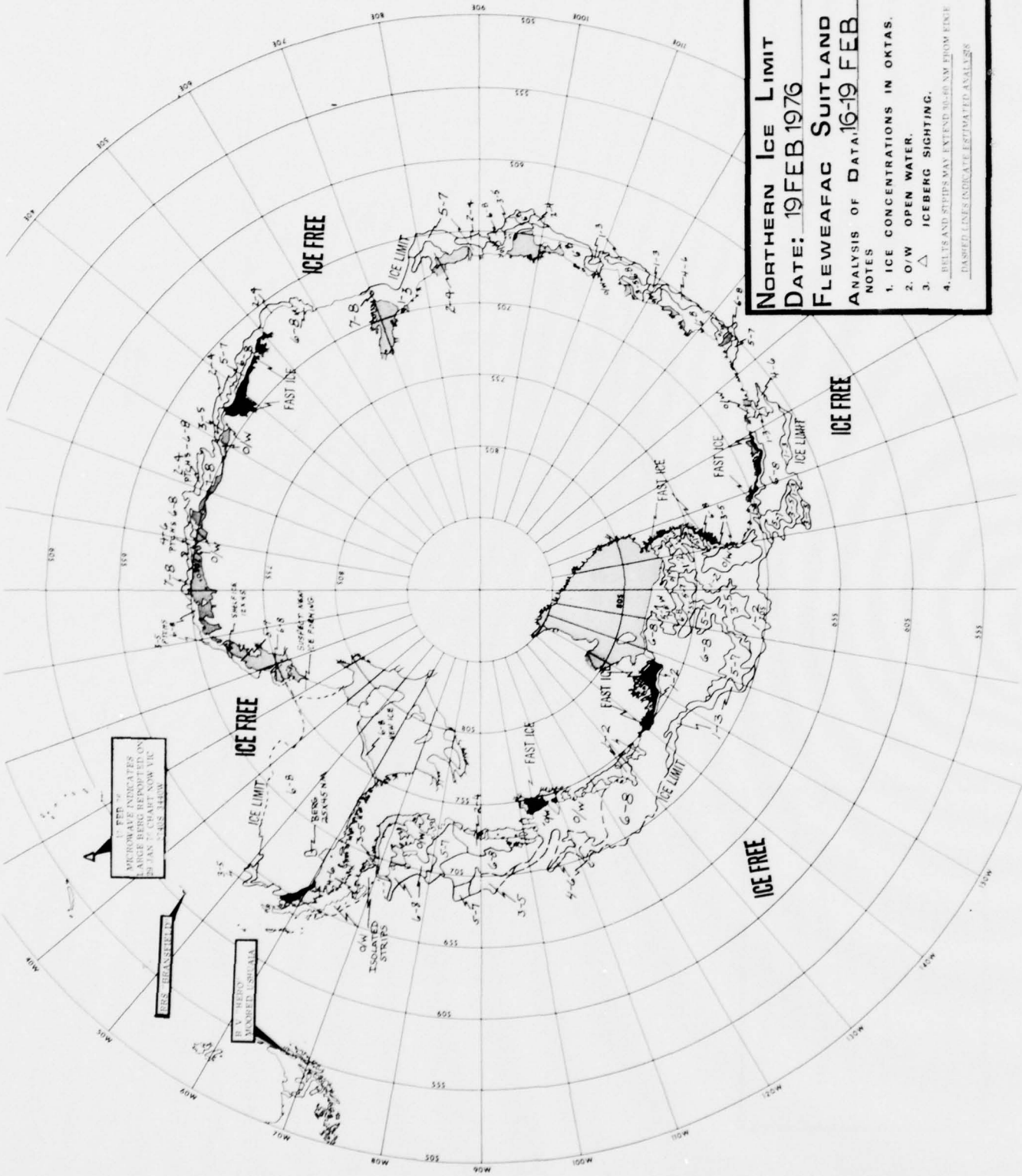
NORTHERN ICE LIMIT
DATE: 12 FEB 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 09-12 FEB

NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. DASHED LINE INDICATES ESTIMATED ANALYSIS.

ICEBERG SIGHTING IN THE CENTRAL SEA WORTH IN UNUSUAL LOCATION

ICEBERG SIGHTING IN THE CENTRAL SEA WORTH IN UNUSUAL LOCATION

ICEBERG SIGHTING IN THE CENTRAL SEA WORTH IN UNUSUAL LOCATION



NORTHERN ICE LIMIT
DATE: 19 FEB 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 16-19 FEB

NOTES

1. ICE CONCENTRATIONS IN ORTAS.
2. O/W OPEN WATER.
3. △ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 50-80 NM FROM EDGE.

--- DASHED LINES INDICATE ESTIMATED ANALYSIS

1 FEB 76
 POSITIONAL INDICATES
 SIGHTING OF ICEBERG
 ON 19 JAN 76 CHART NOW IN
 USE. SEE BELOW

ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

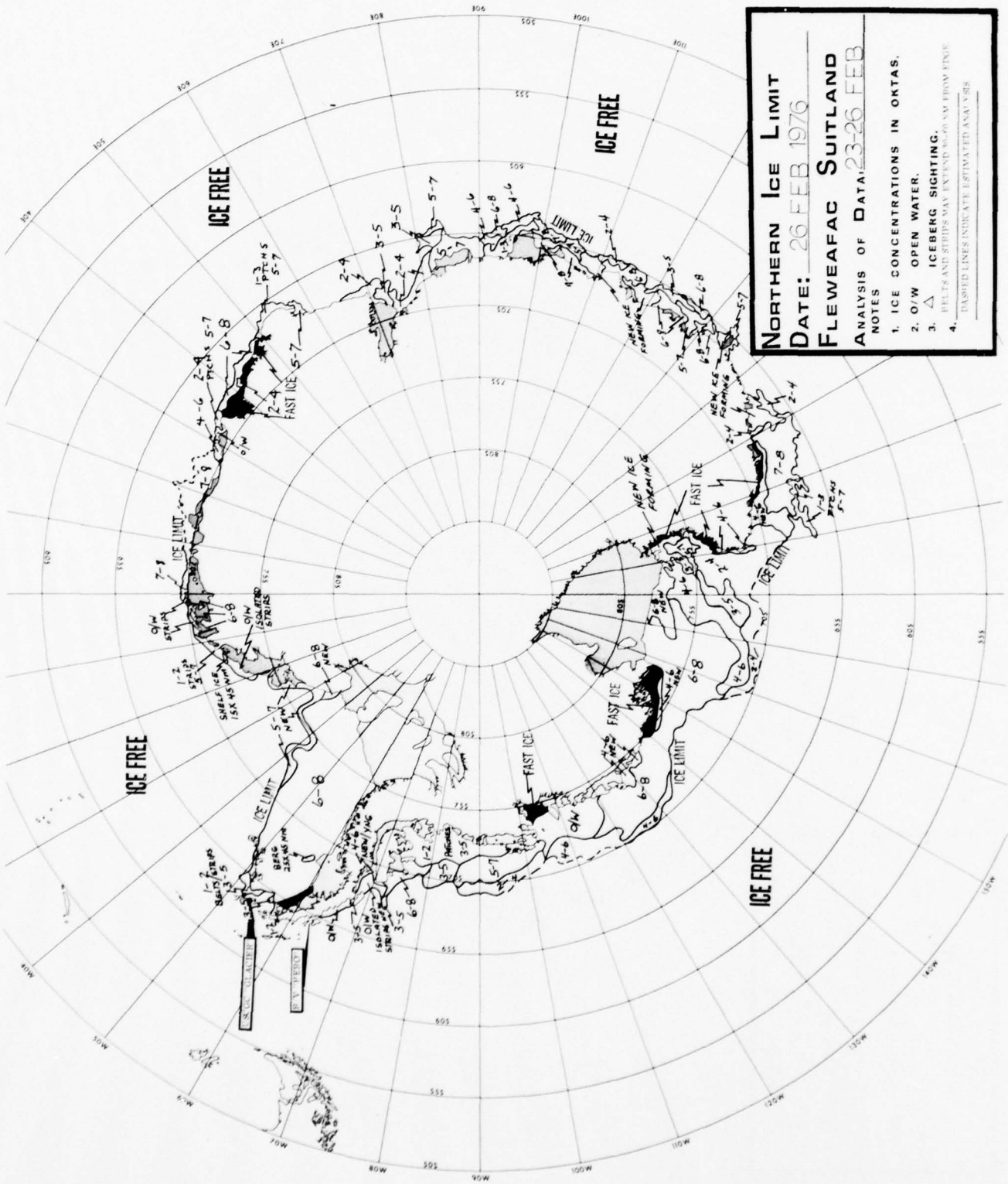
ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

ICEBERG SIGHTING

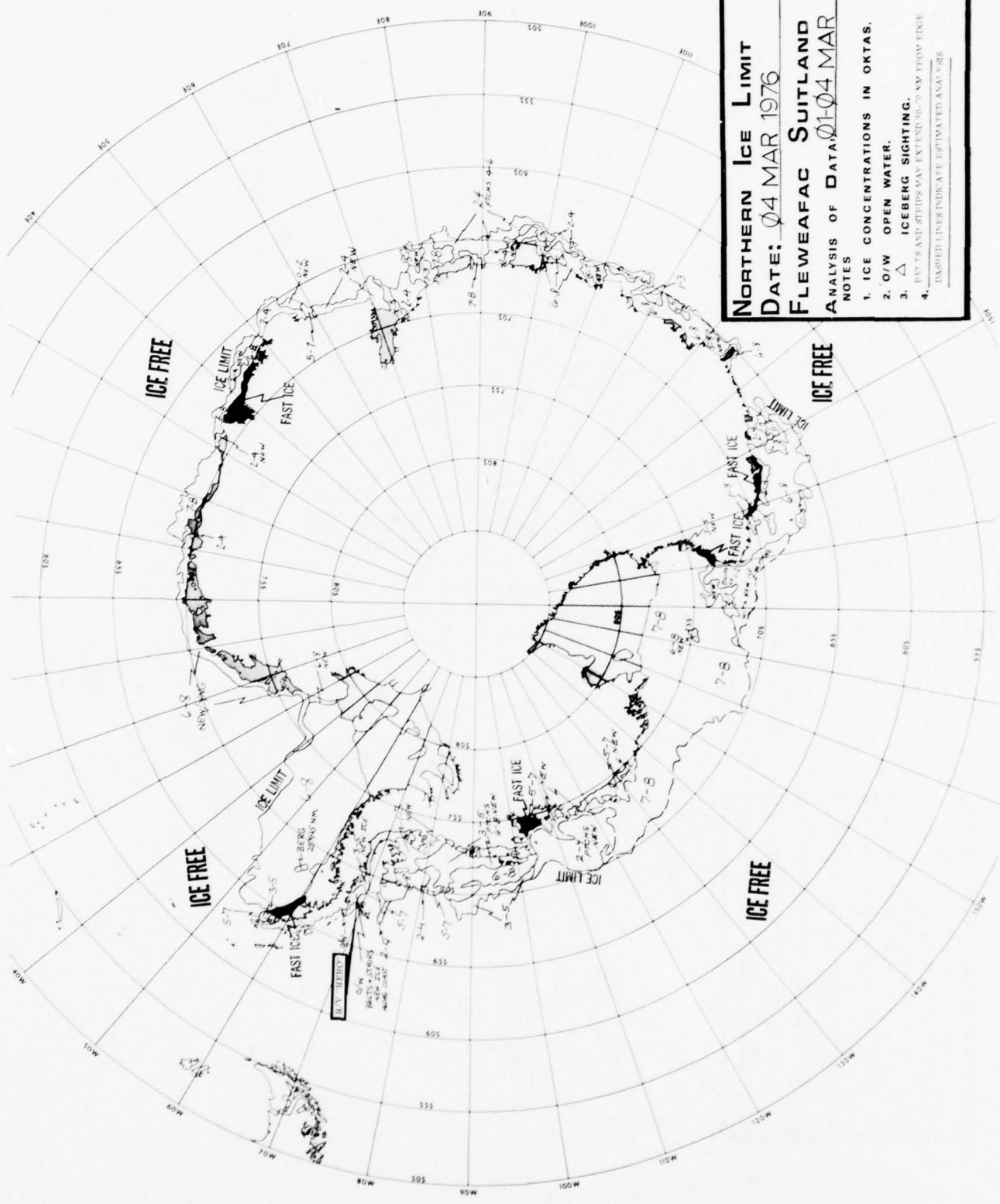


NORTHERN ICE LIMIT
DATE: 26 FEB 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 23-26 FEB

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 60 NM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS



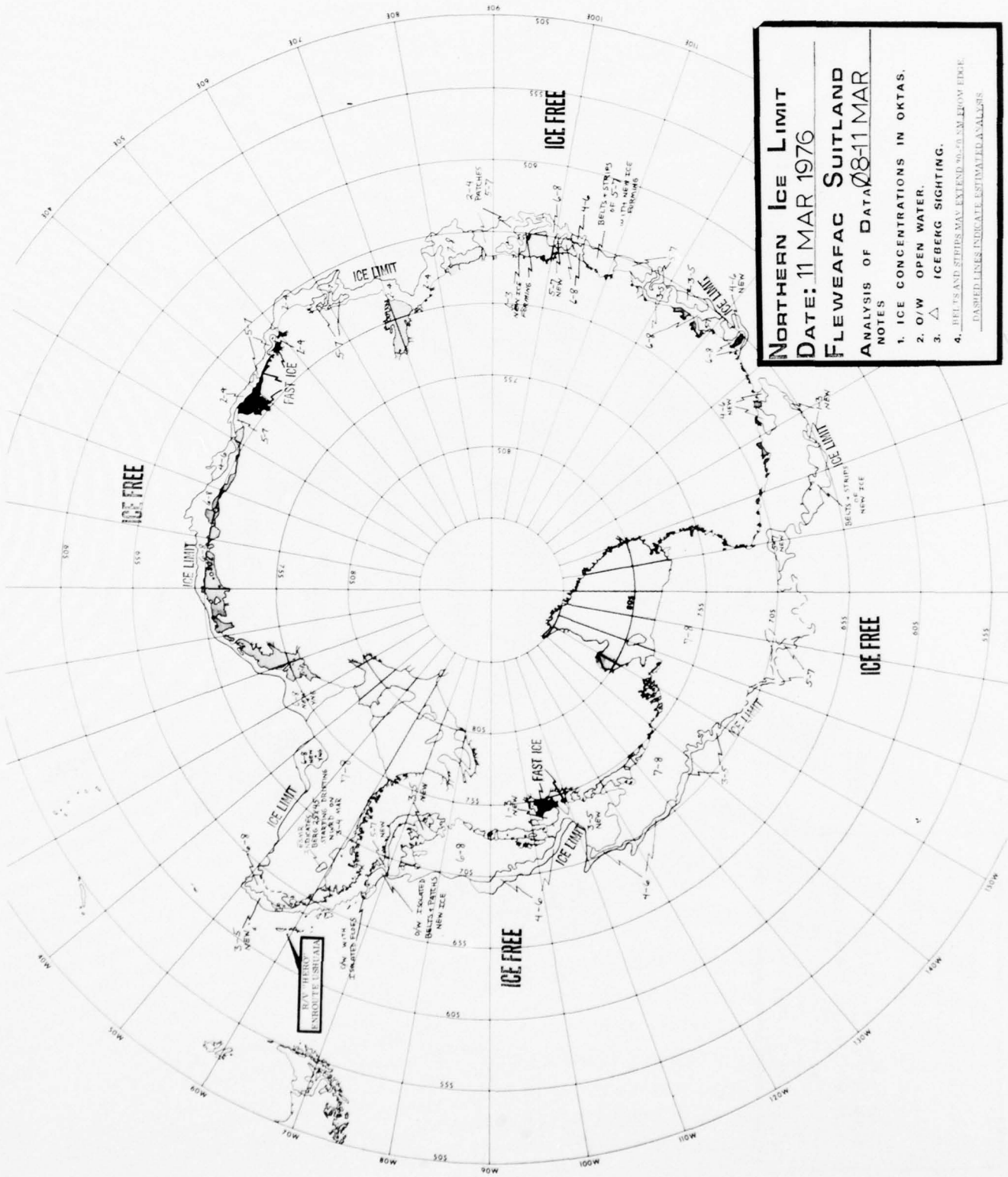
NORTHERN ICE LIMIT
DATE: 04 MAR 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 01-04 MAR

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. PLOTS AND STIPS MAY EXTEND 10-20 NM FROM EDGE.

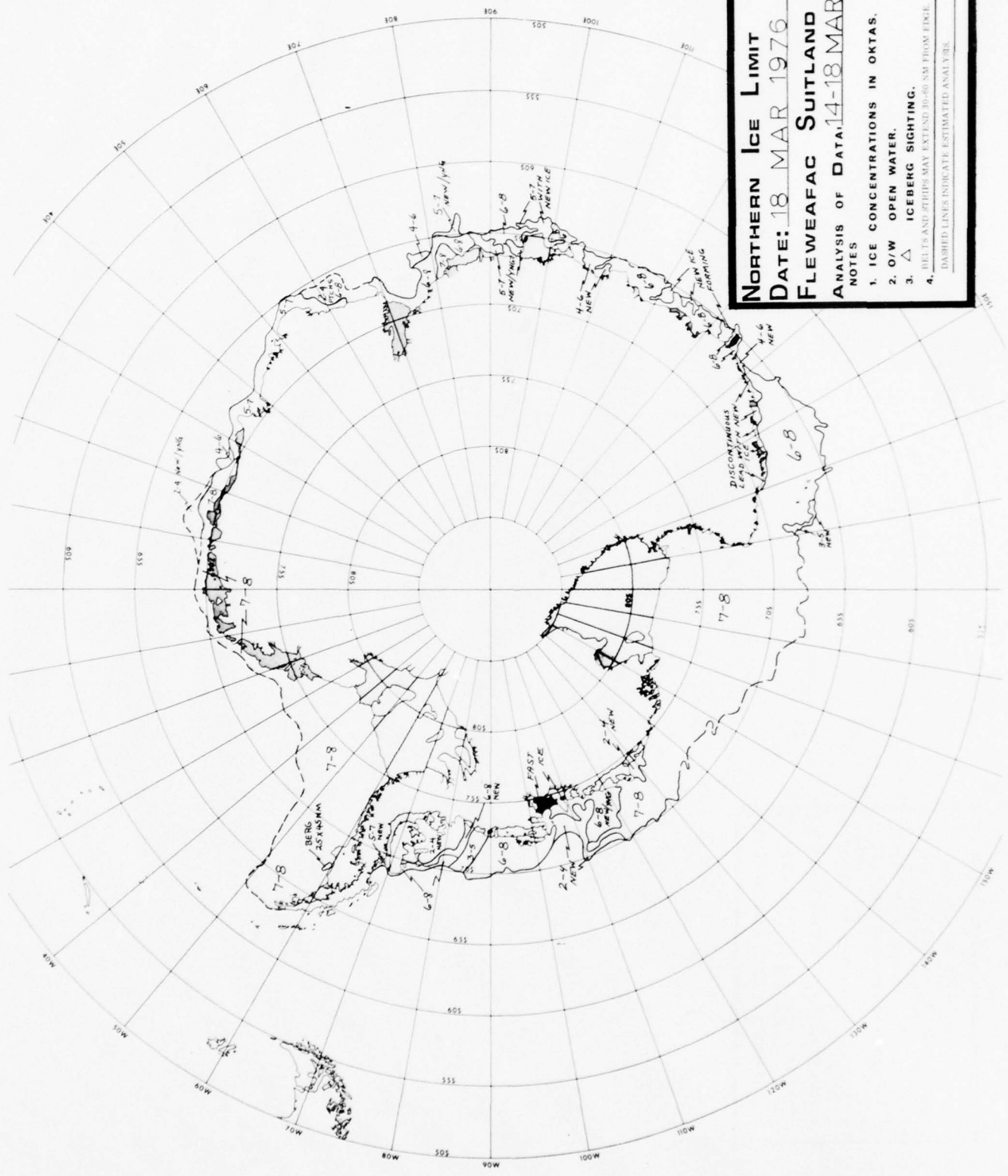
DASHED LINES INDICATE ESTIMATED ANALYSIS

RE-RECORDED
 AREA IN WHICH
 DATA WAS
 RE-ANALYZED
 AND CORRECTED



NORTHERN ICE LIMIT
DATE: 11 MAR 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 08-11 MAR

NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. △ ICEBERG SIGHTING.
 4. BELTS AND STRIPS MAY EXTEND 50-75 KM FROM EDGE.
 - DASHED LINES INDICATE ESTIMATED ANALYSIS

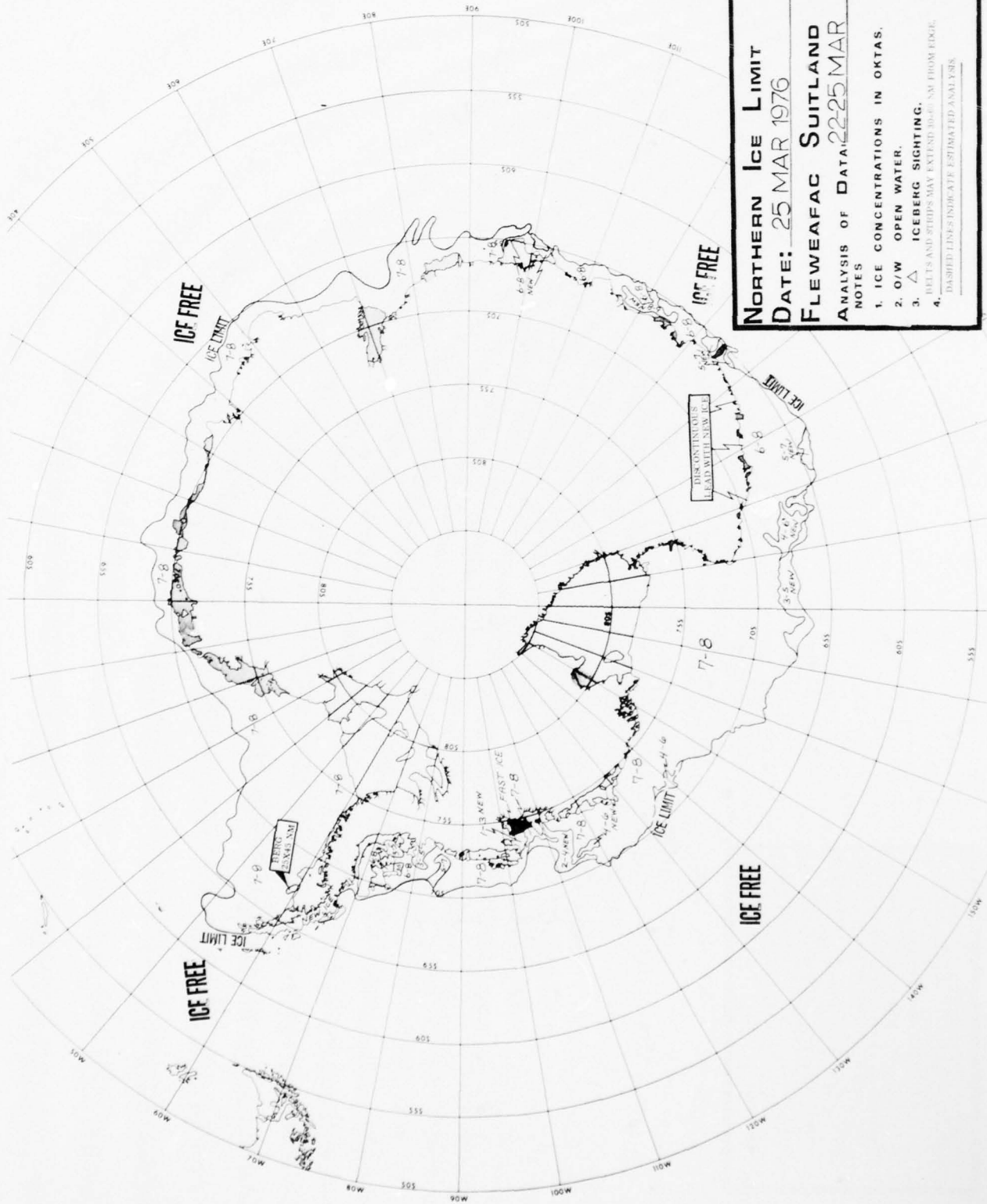


NORTHERN ICE LIMIT
DATE: 18 MAR 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 14-18 MAR

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STIPES MAY EXTEND 10-50 KM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS.

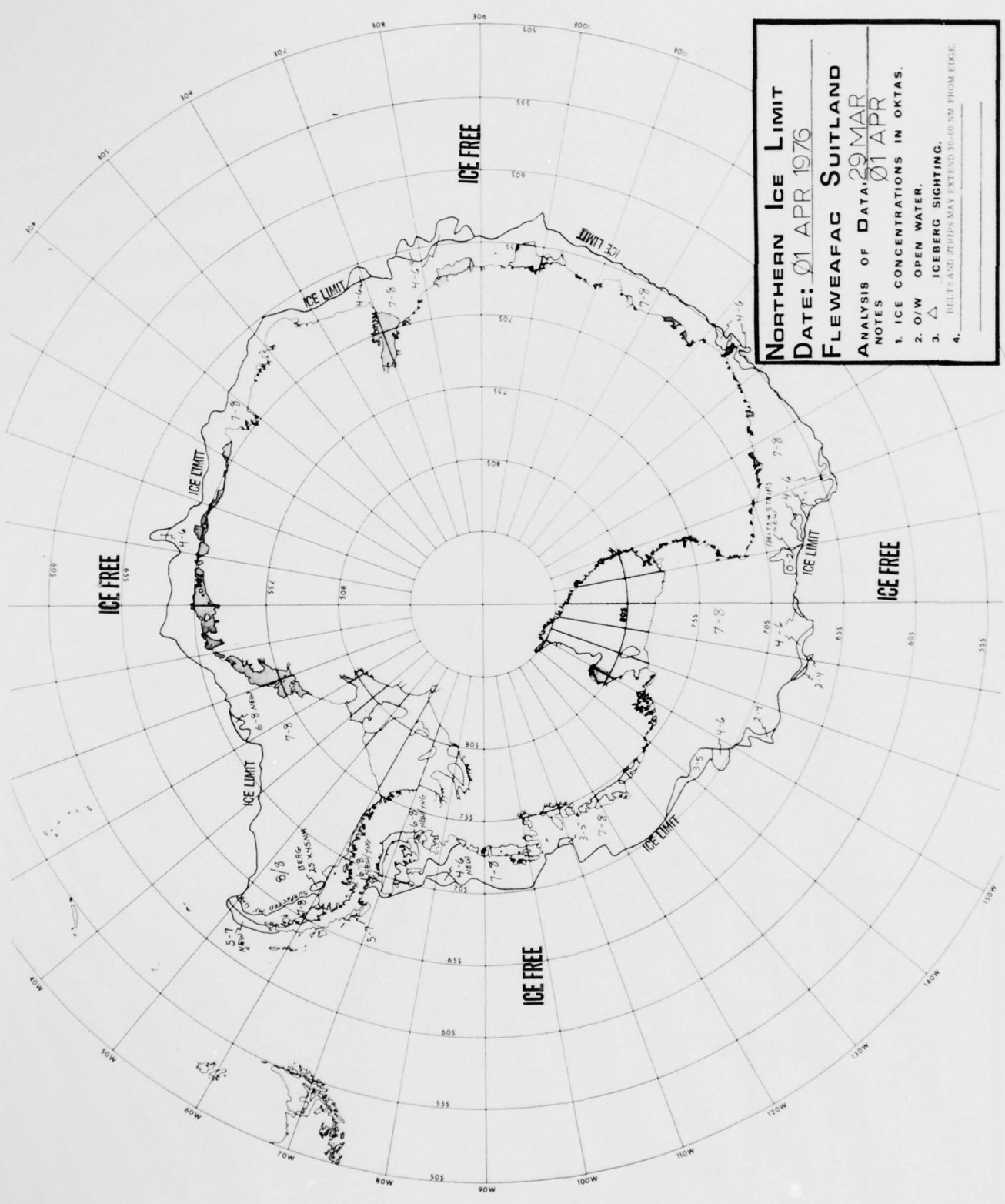


NORTHERN ICE LIMIT
DATE: 25 MAR 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 22-25 MAR

NOTES

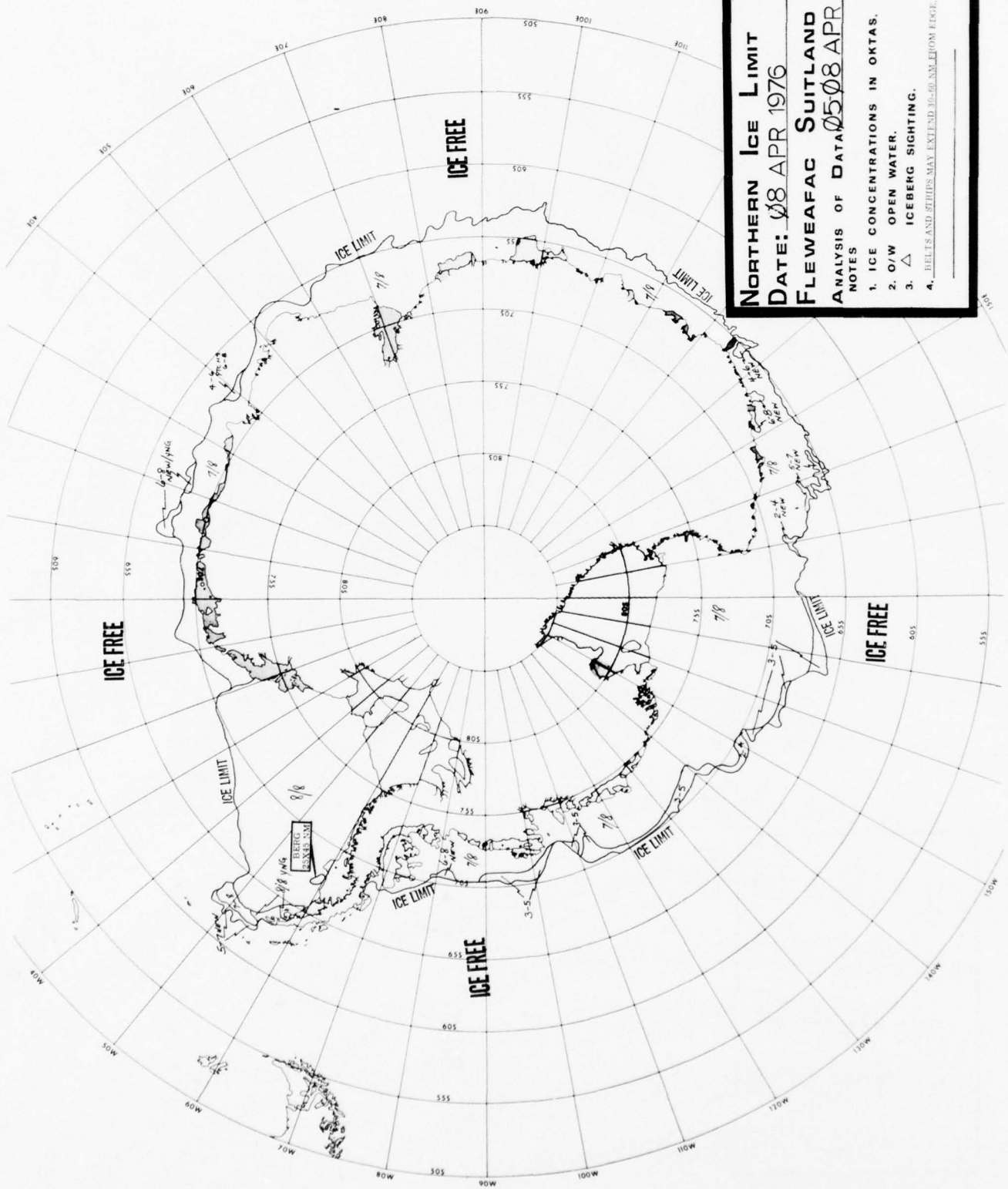
1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STIPS MAY EXTEND 1000 YMS FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS.



NORTHERN ICE LIMIT
DATE: 01 APR 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 29 MAR
NOTES: 01 APR

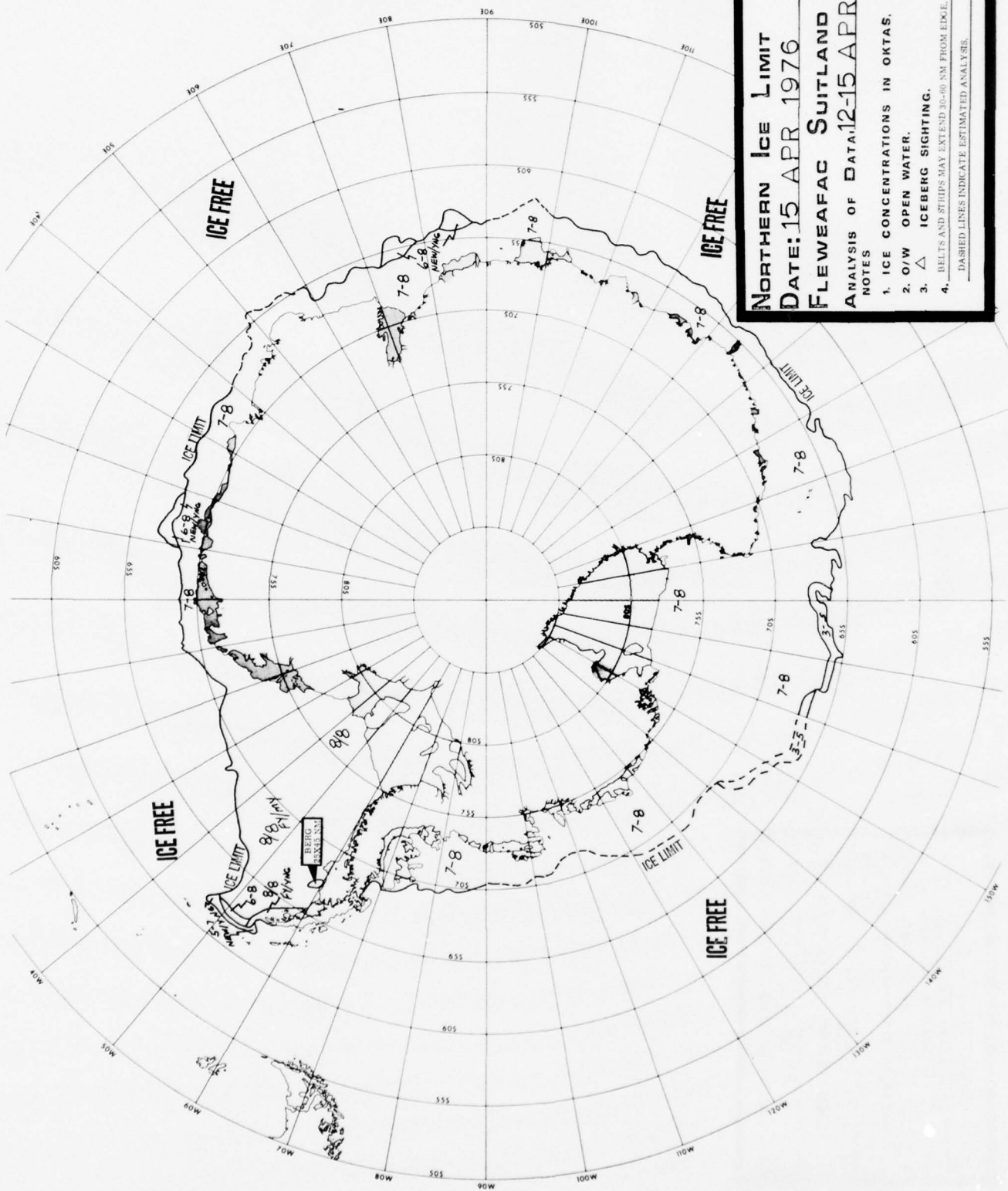
1. ICE CONCENTRATIONS IN ORTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.



NORTHERN ICE LIMIT
DATE: 08 APR 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 0508 APR

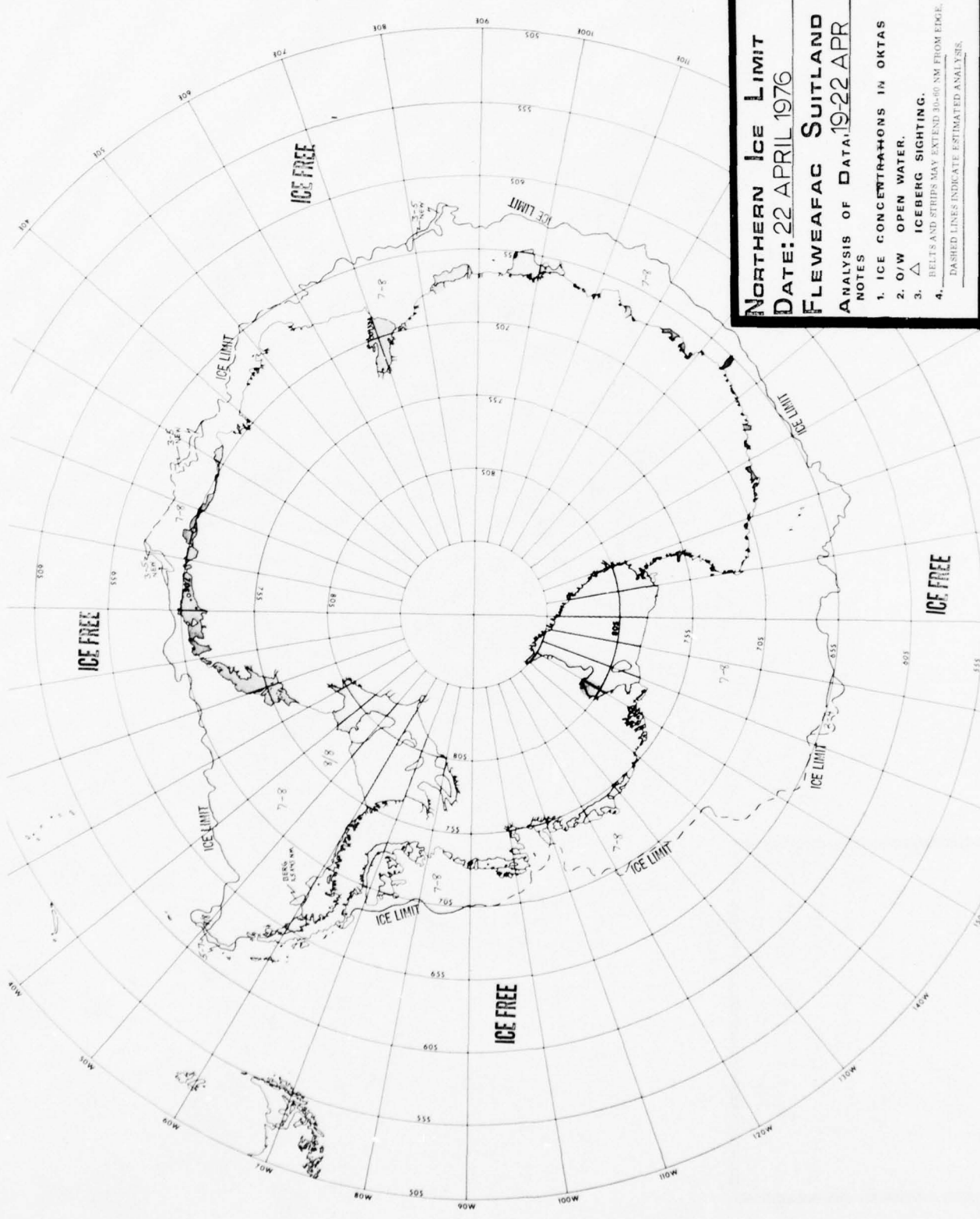
NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. △ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.



NORTHERN ICE LIMIT
DATE: 15 APR 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 12-15 APR

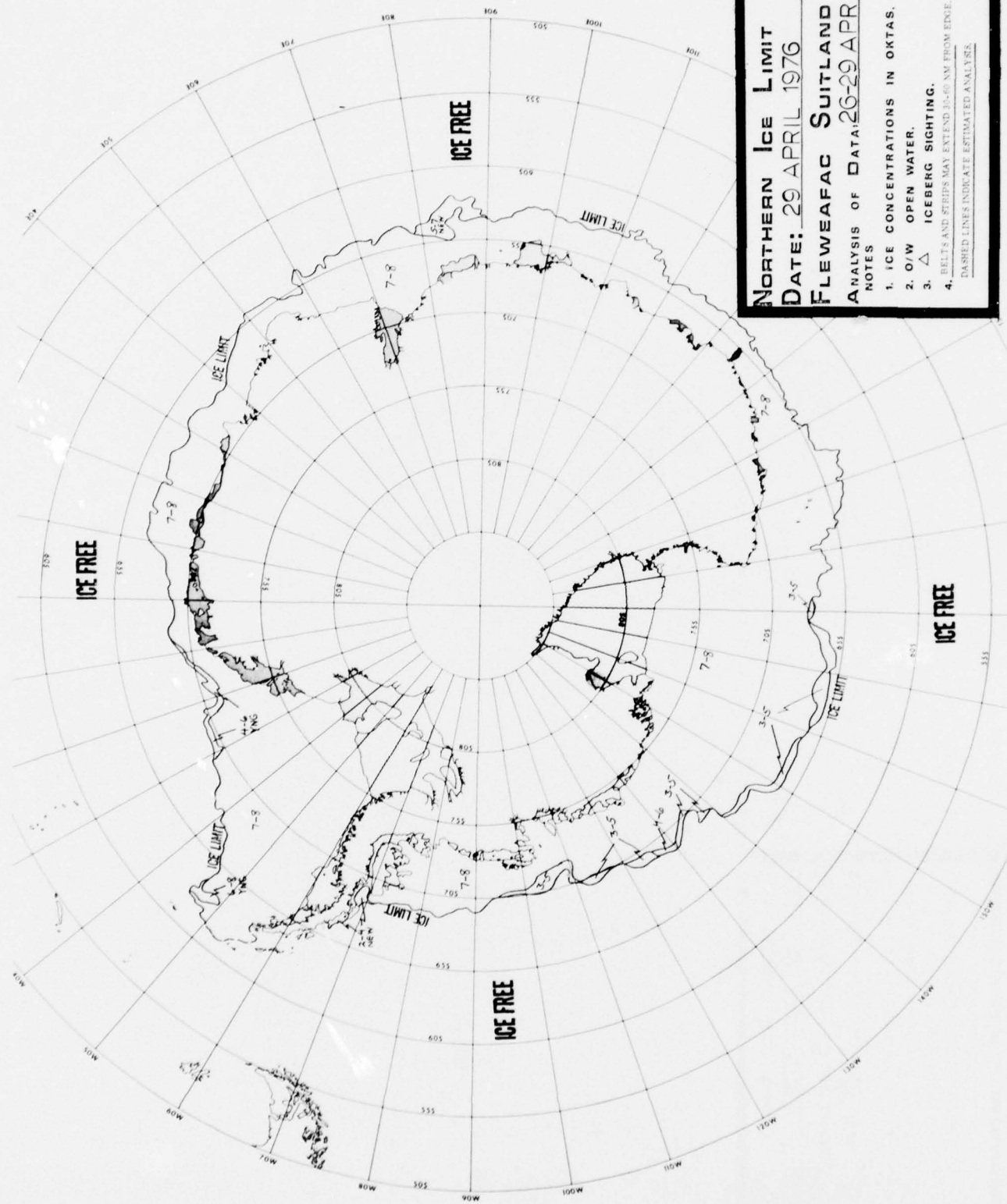
NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.
 DASHED LINES INDICATE ESTIMATED ANALYSIS.



NORTHERN Ice LIMIT
DATE: 22 APRIL 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 19-22 APR

NOTES

1. ICE CONCENTRATIONS IN OKTAS
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.
 DASHED LINES INDICATE ESTIMATED ANALYSIS.



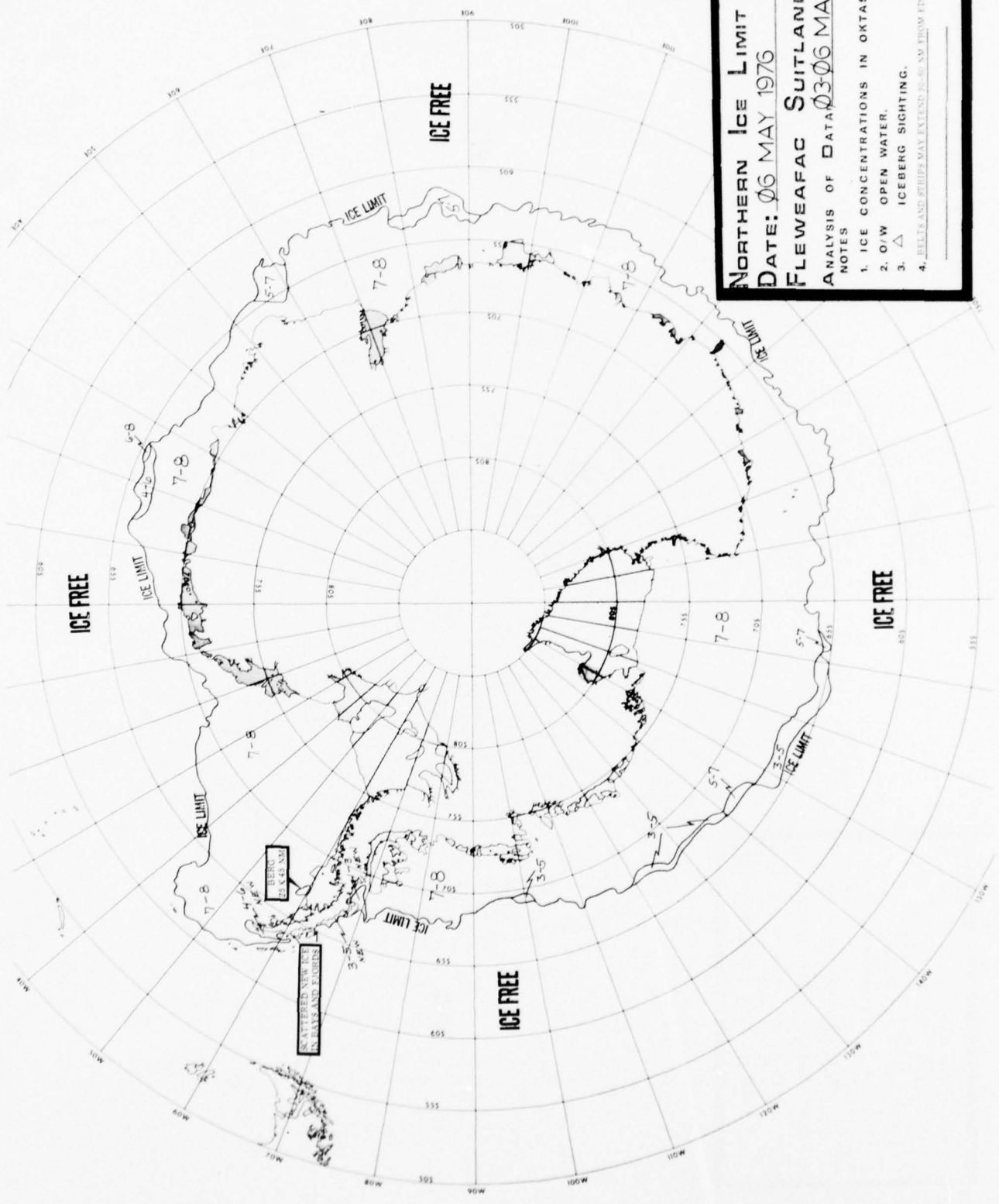
NORTHERN Ice Limit
DATE: 29 APRIL 1976

FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 26-29 APR

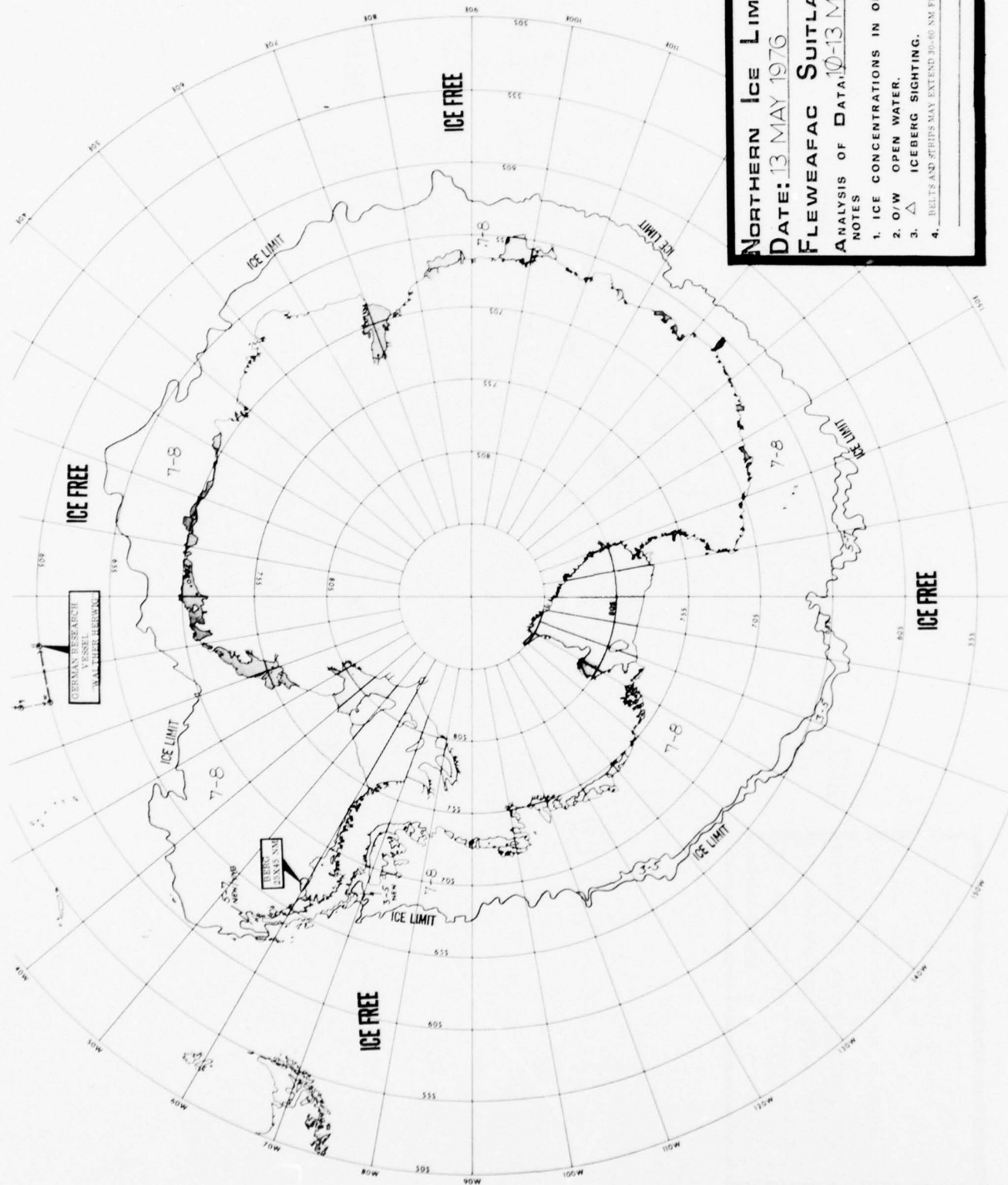
NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STIPPS MAY EXTEND 30-60 NM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS



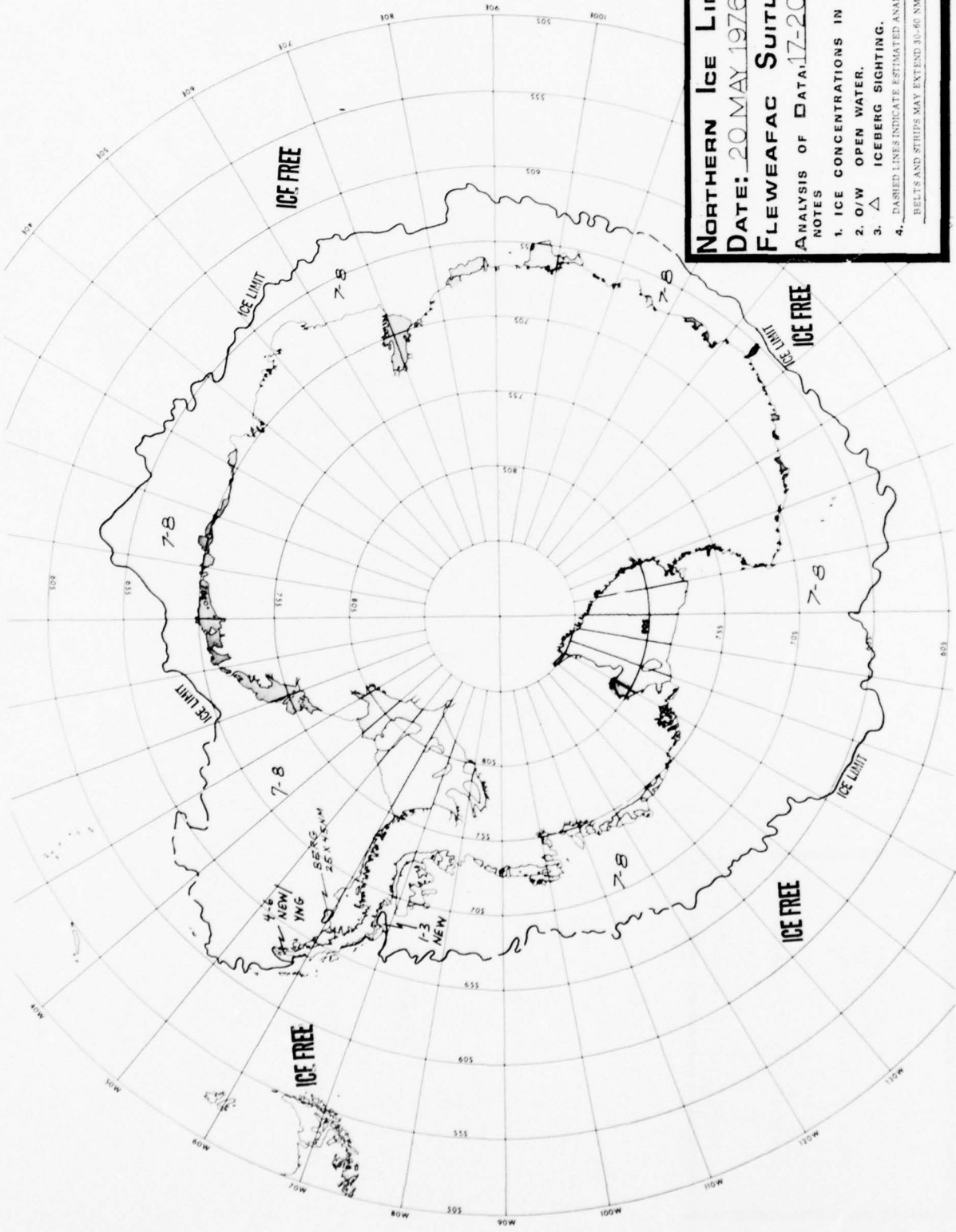
NORTHERN ICE LIMIT
DATE: 06 MAY 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 0306 MAY
NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STRIPS MAY EXTEND 10-50 NM FROM FENCE.



NORTHERN ICE LIMIT
DATE: 13 MAY 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 10-13 MAY

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 20-60 NM FROM EDGE.



NORTHERN ICE LIMIT

DATE: 20 MAY 1976

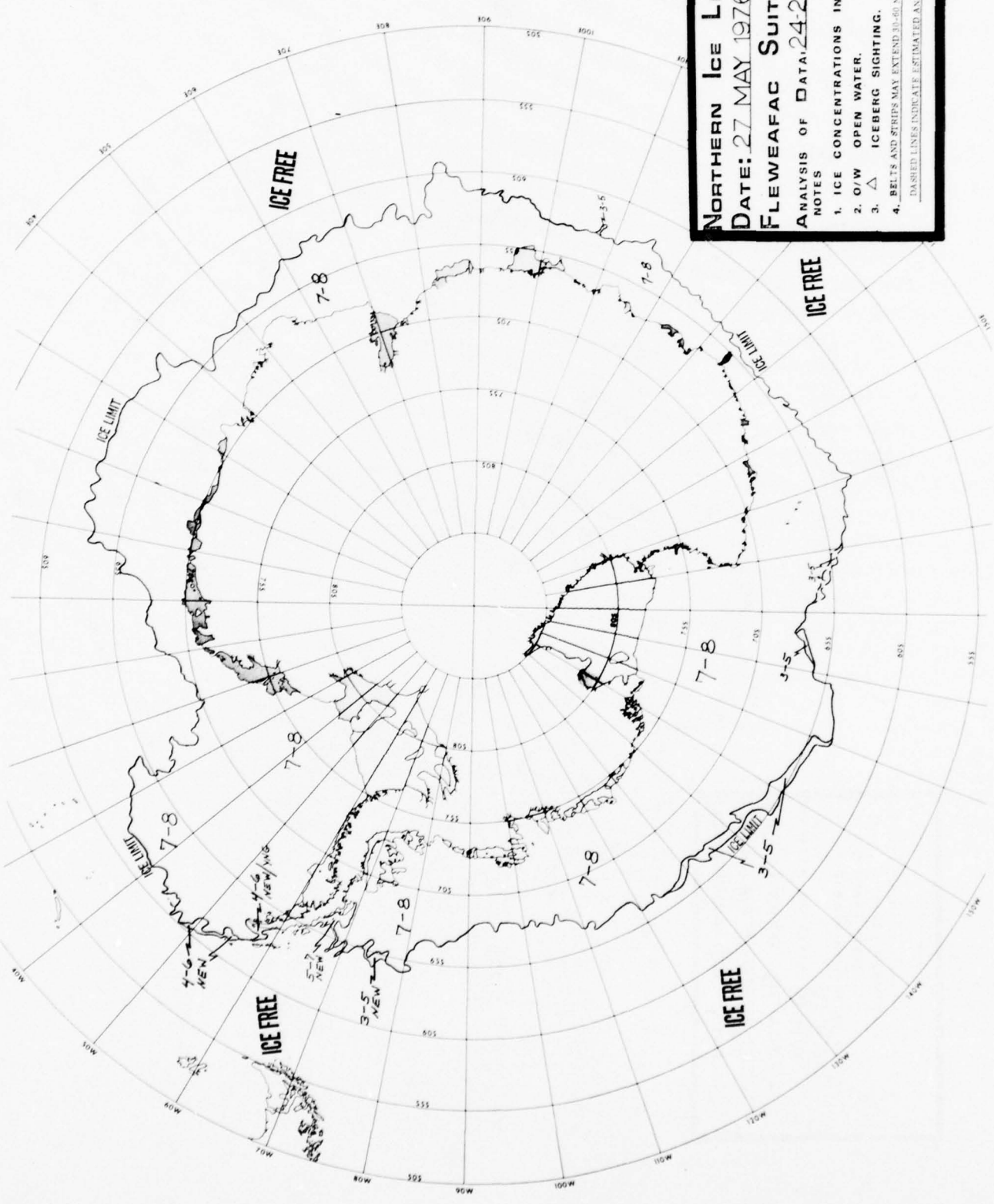
FLEWEAFAC SUITLAND

ANALYSIS OF DATA 17-20 MAY

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. DASHED LINES INDICATE ESTIMATED ANALYSIS.

BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

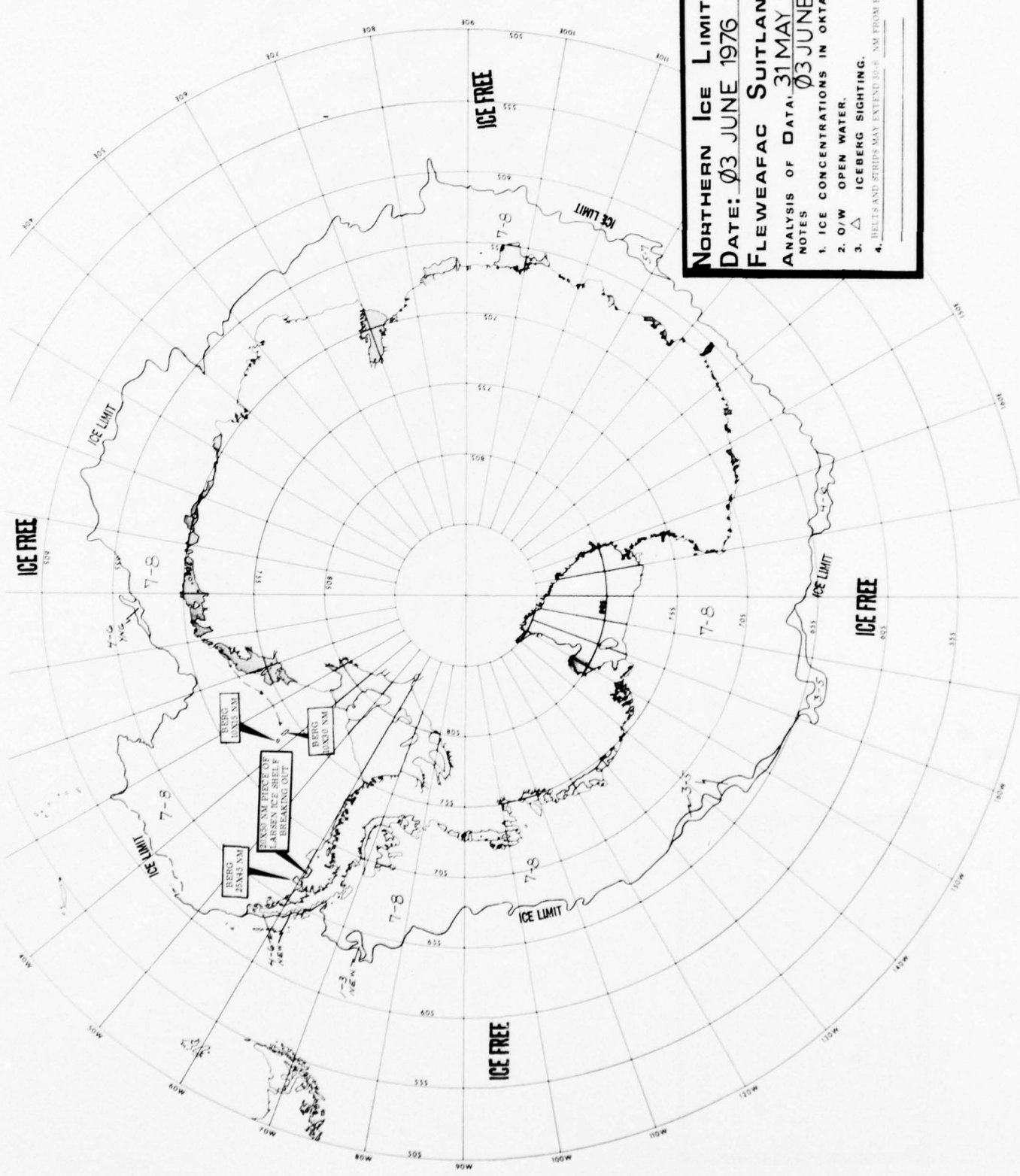


NORTHERN ICE LIMIT
DATE: 27 MAY 1976
FLEWEAFAC SUTLAND
ANALYSIS OF DATA: 24-27 MAY

NOTES

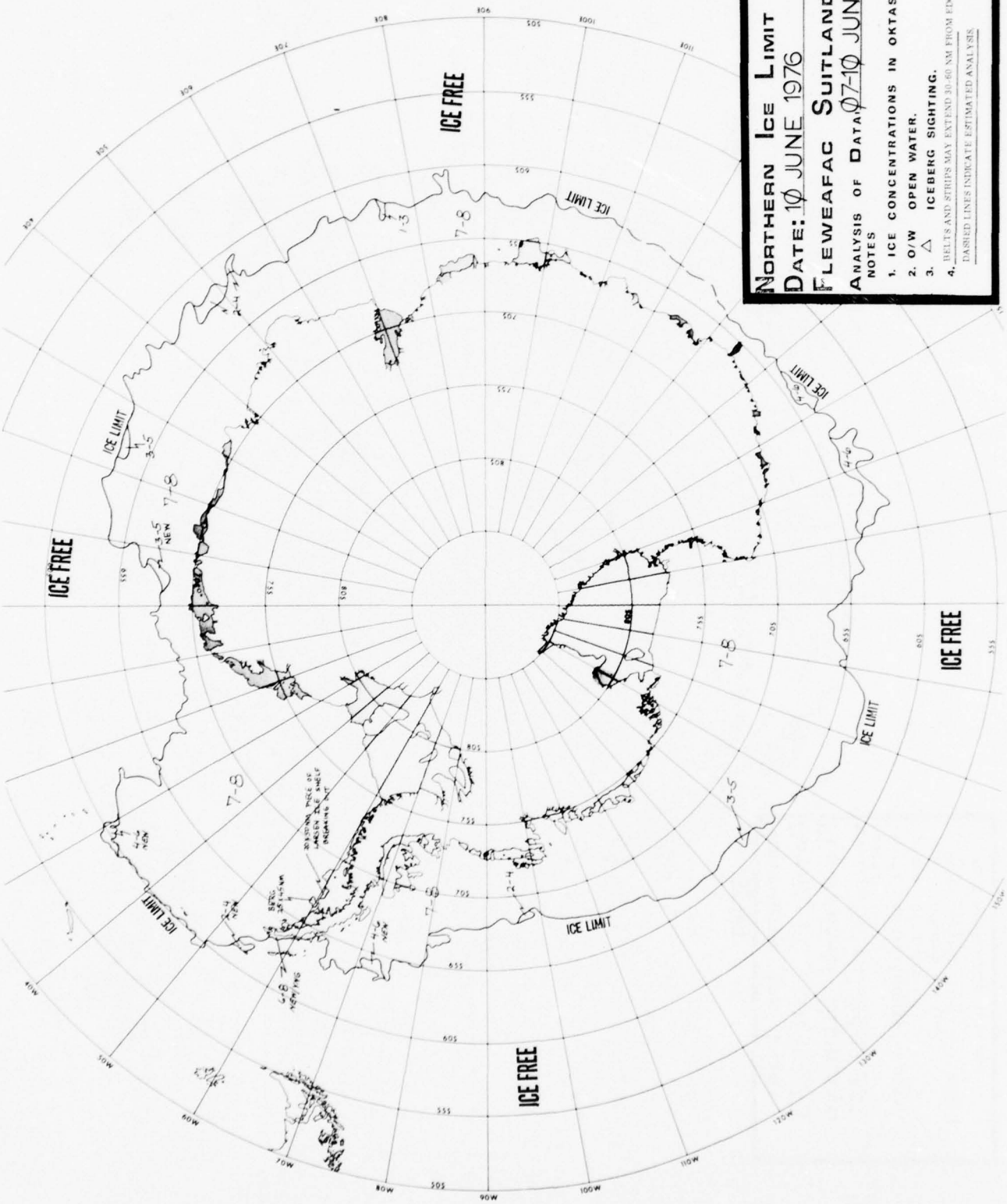
1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS



NORTHERN ICE LIMIT
DATE: 03 JUNE 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 31 MAY
NOTES: 03 JUNE

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 10-15 NM FROM EDGE.

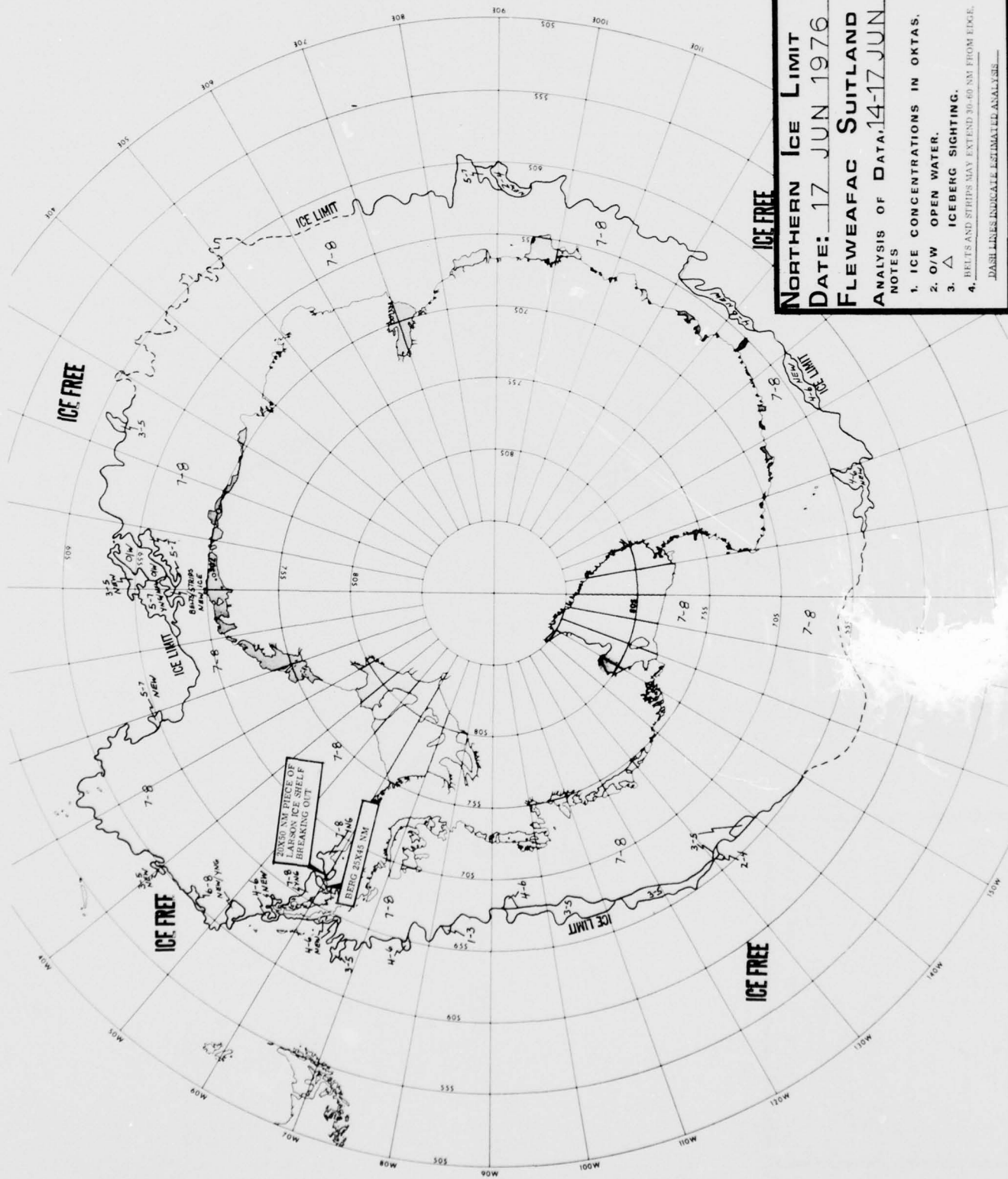


NORTHERN Ice LIMIT
DATE: 10 JUNE 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 07-10 JUNE

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

DASHED LINES INDICATE ESTIMATED ANALYSIS

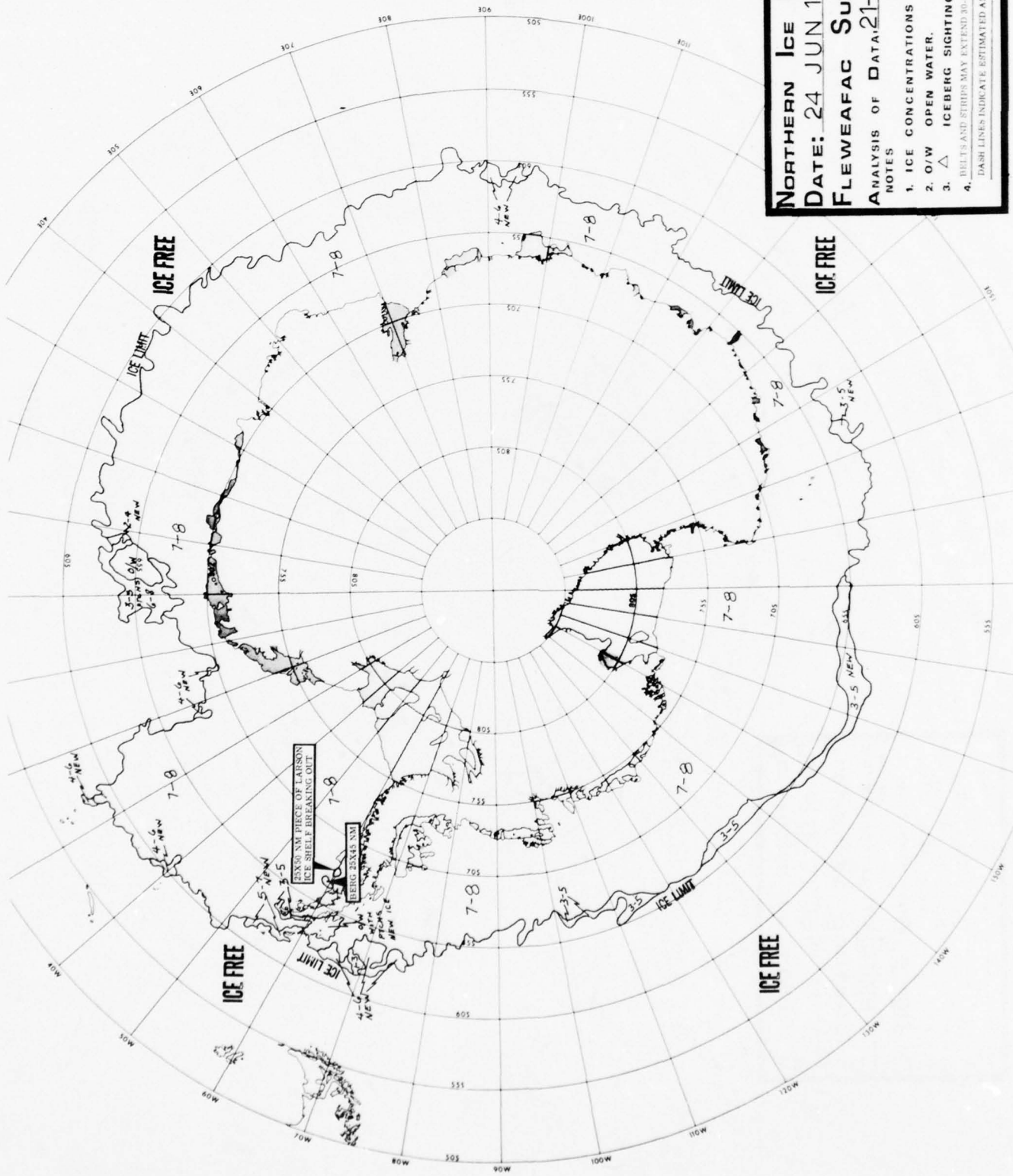


NORTHERN ICE LIMIT
DATE: 17 JUN 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 14-17 JUN

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

DASH LINES INDICATE ESTIMATED ANALYSIS

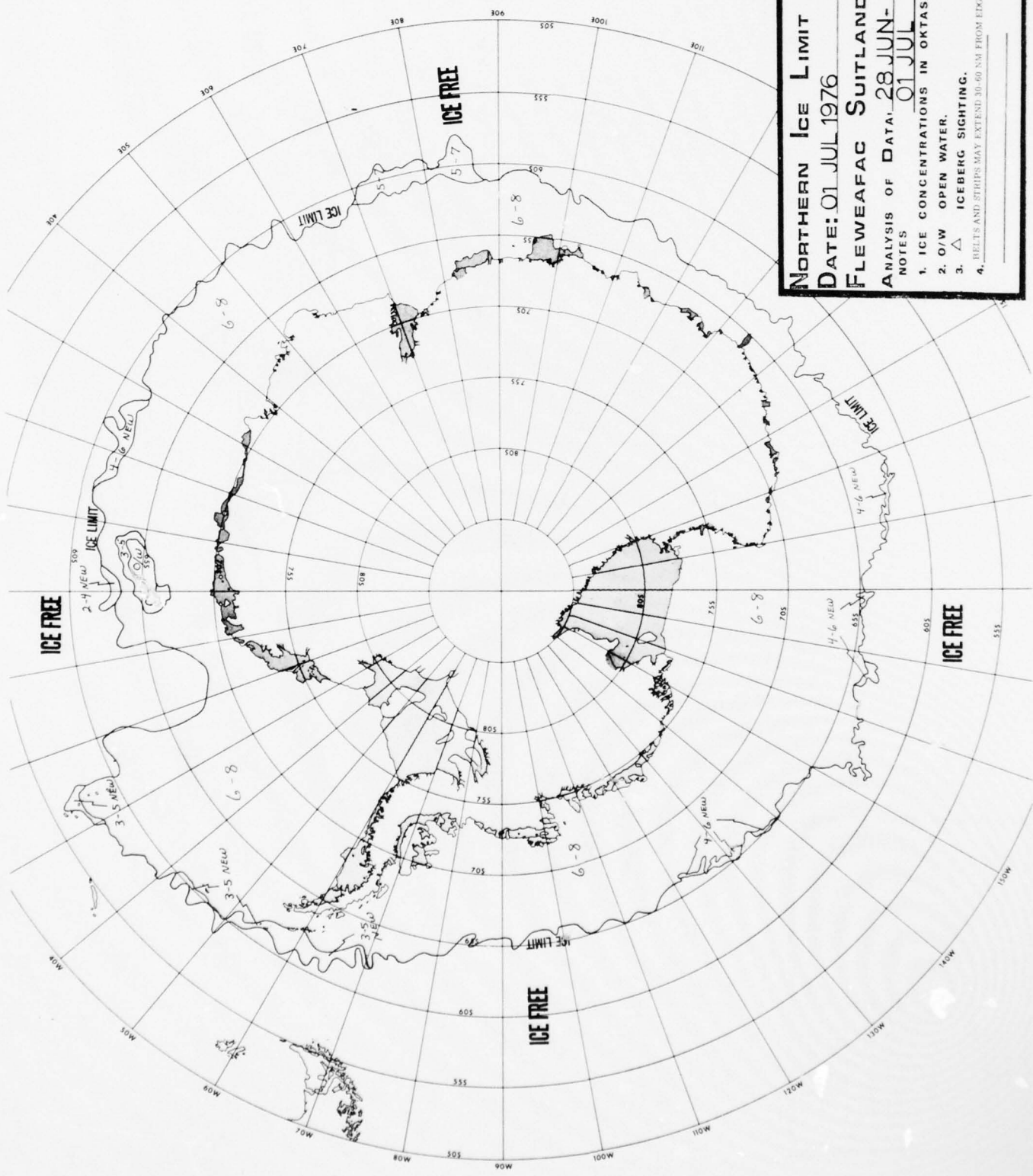


NORTHERN ICE LIMIT
DATE: 24 JUN 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 21-24 JUN

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

DASH LINES INDICATE ESTIMATED ANALYSIS



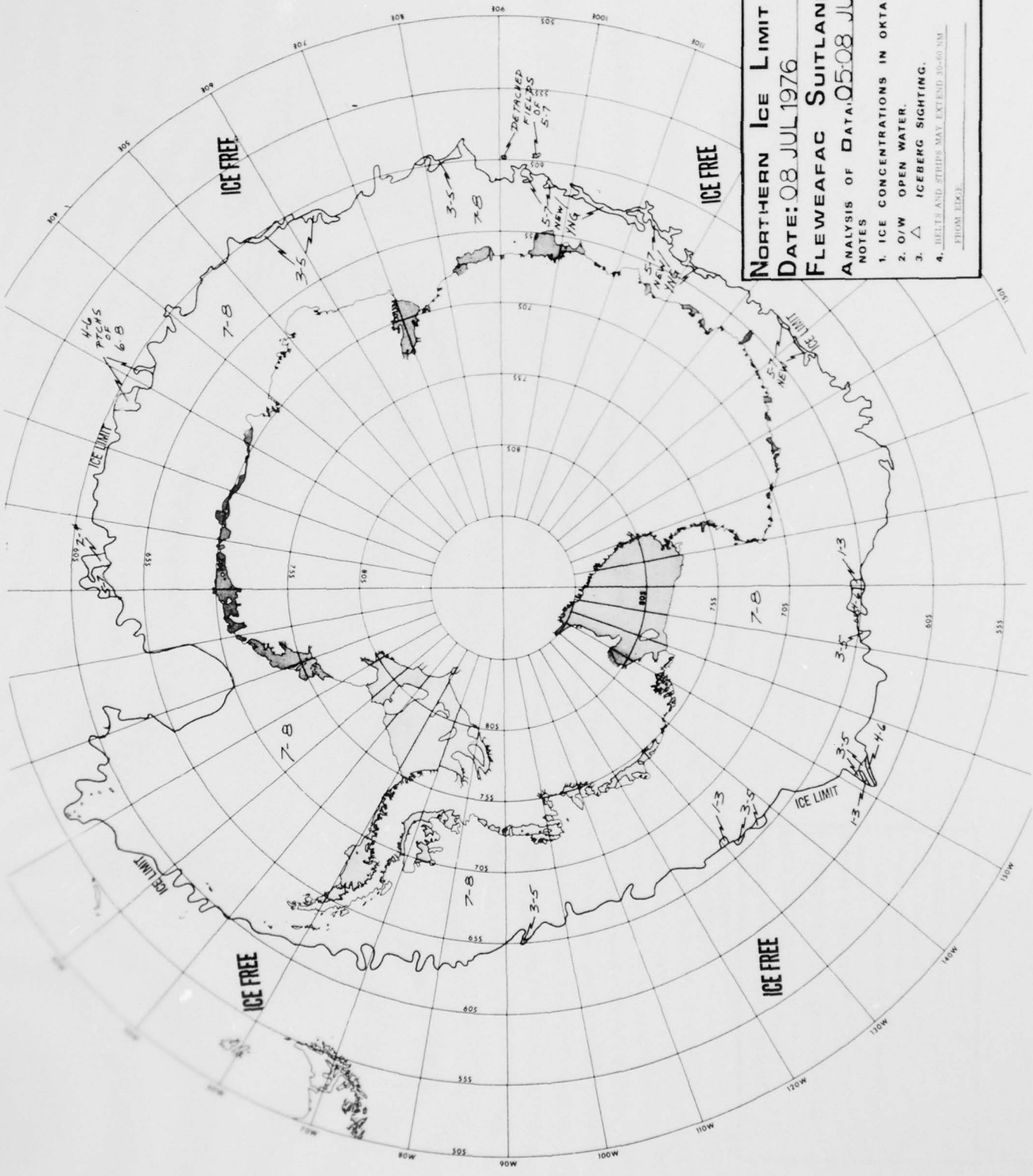
NORTHERN ICE LIMIT
DATE: 01 JUL 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 28 JUN - 01 JUL

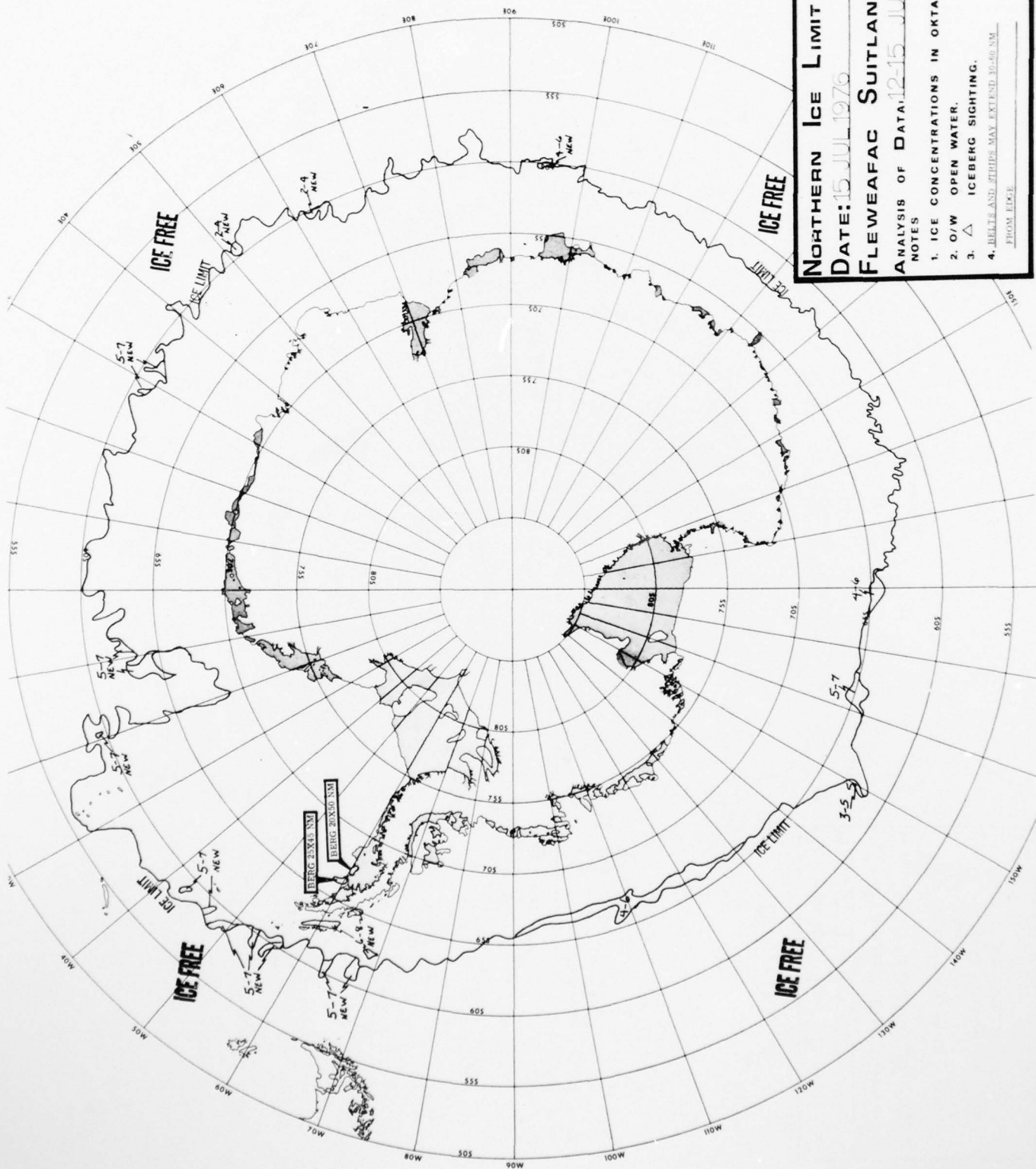
NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

NORTHERN ICE LIMIT
DATE: 08 JUL 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 05-08 JUL

NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.





NORTHERN ICE LIMIT

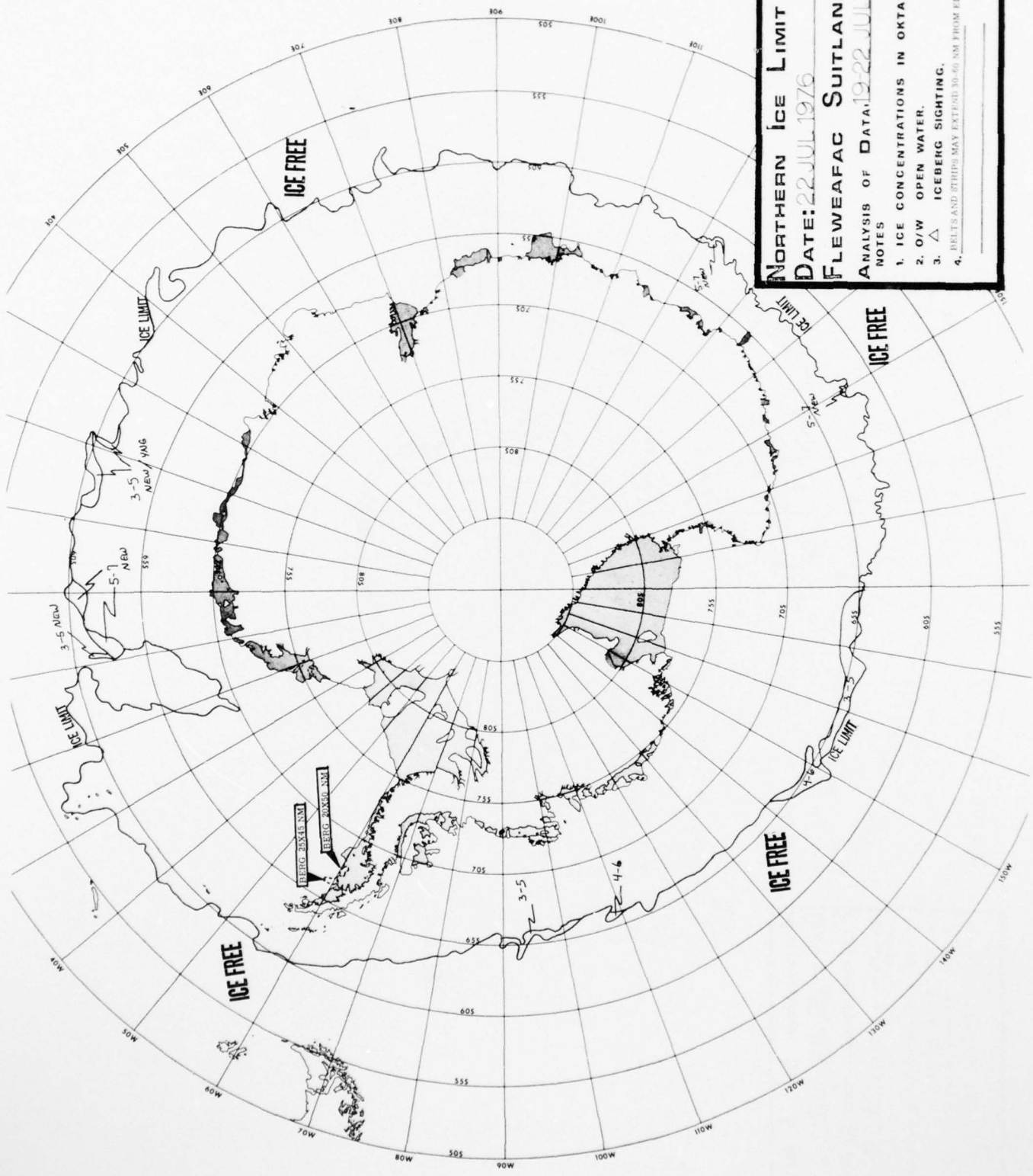
DATE: 15 JUL 1976

FLEWEAFAC SUITLAND

ANALYSIS OF DATA: 12-15 JUL

NOTES

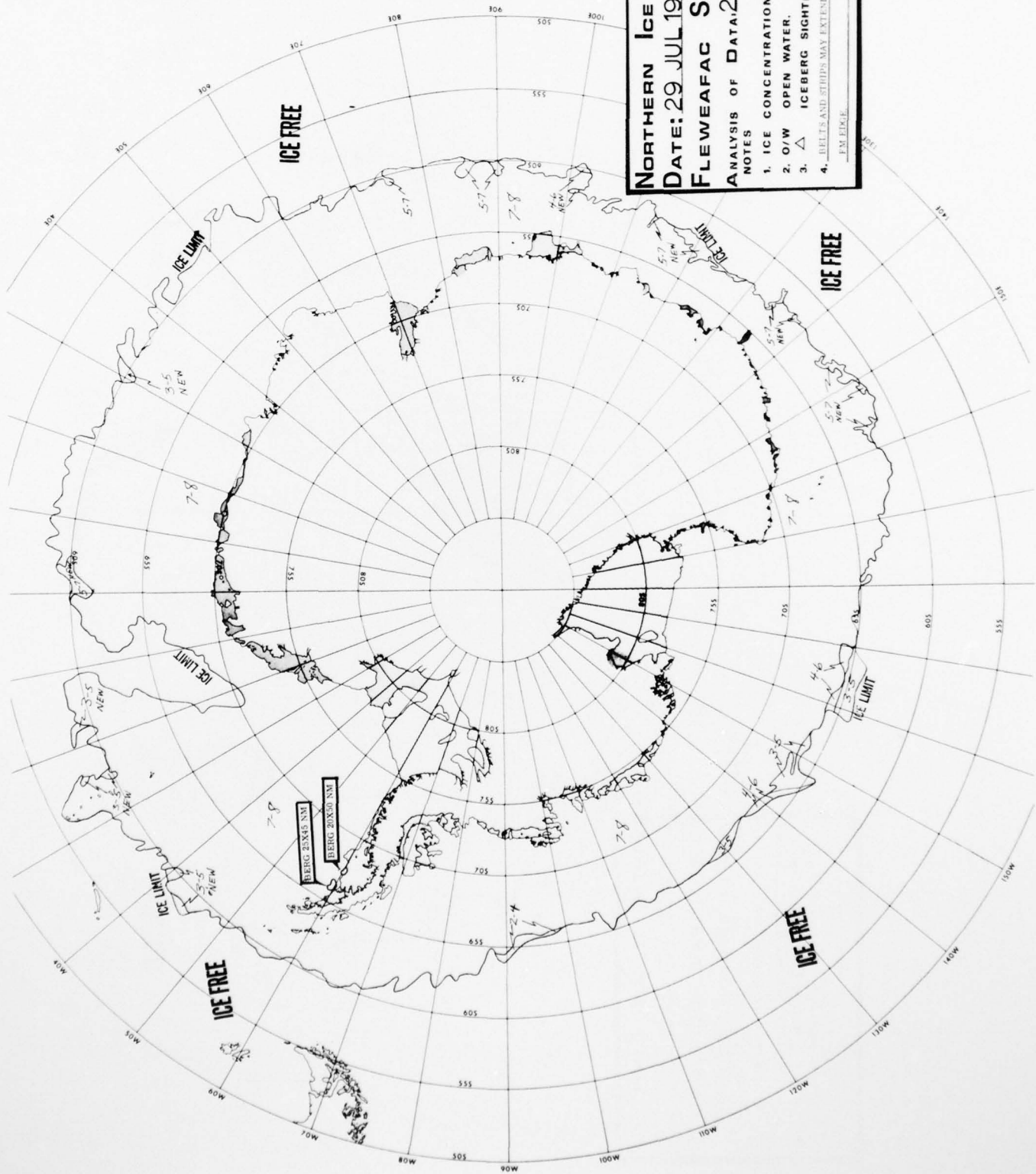
1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELLS AND STRIPS MAY EXTEND 10-40 NM FROM EDGE.



NORTHERN ICE LIMIT
DATE: 22 JUL 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 12-22 JULY

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.



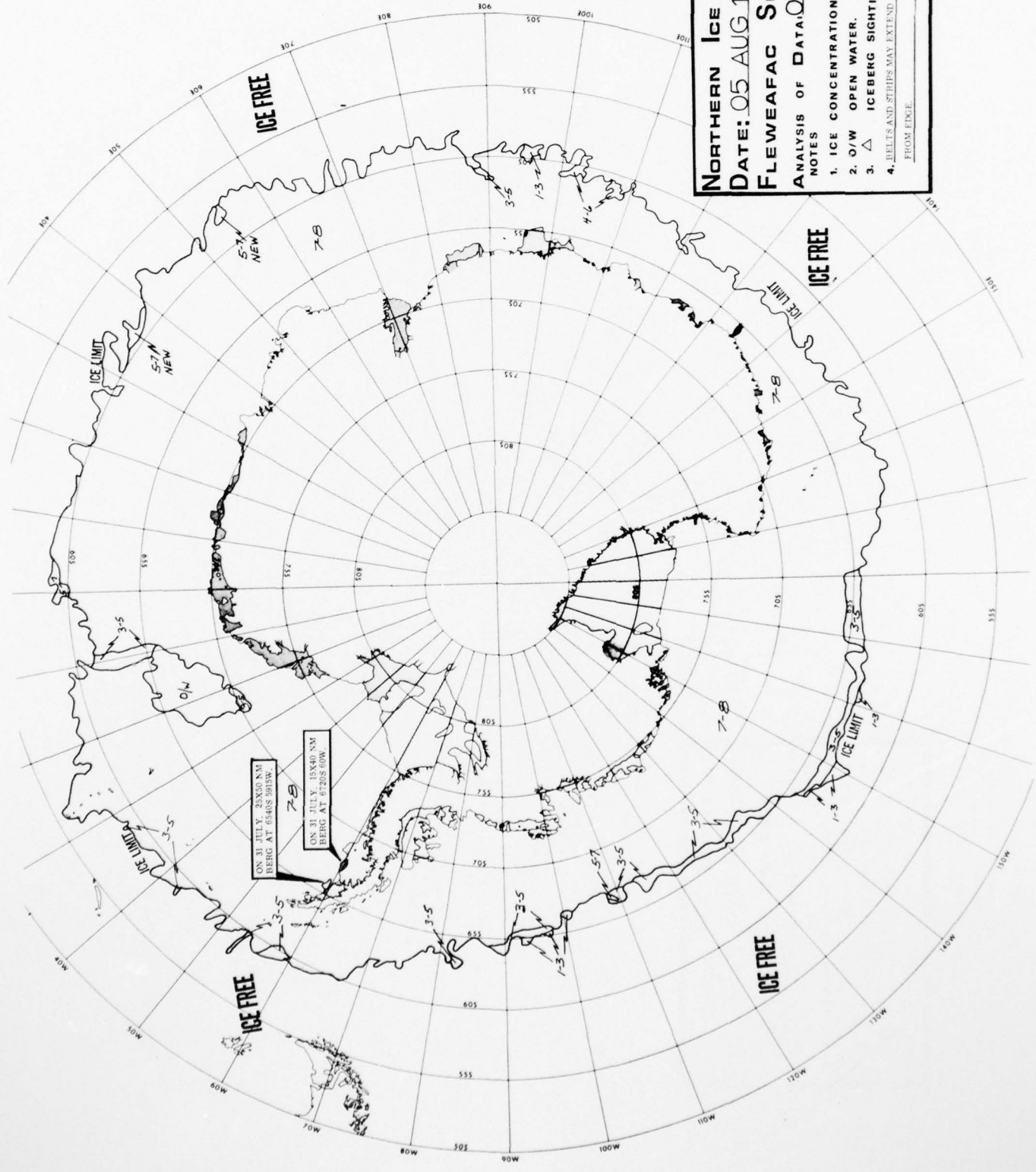
NORTHERN ICE LIMIT
DATE: 29 JUL 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 26-29 JUL

NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STIPES MAY EXTEND 30-60 NM
 FROM EDGE.

NORTHERN ICE LIMIT
DATE: 05 AUG 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 02 05 AUG

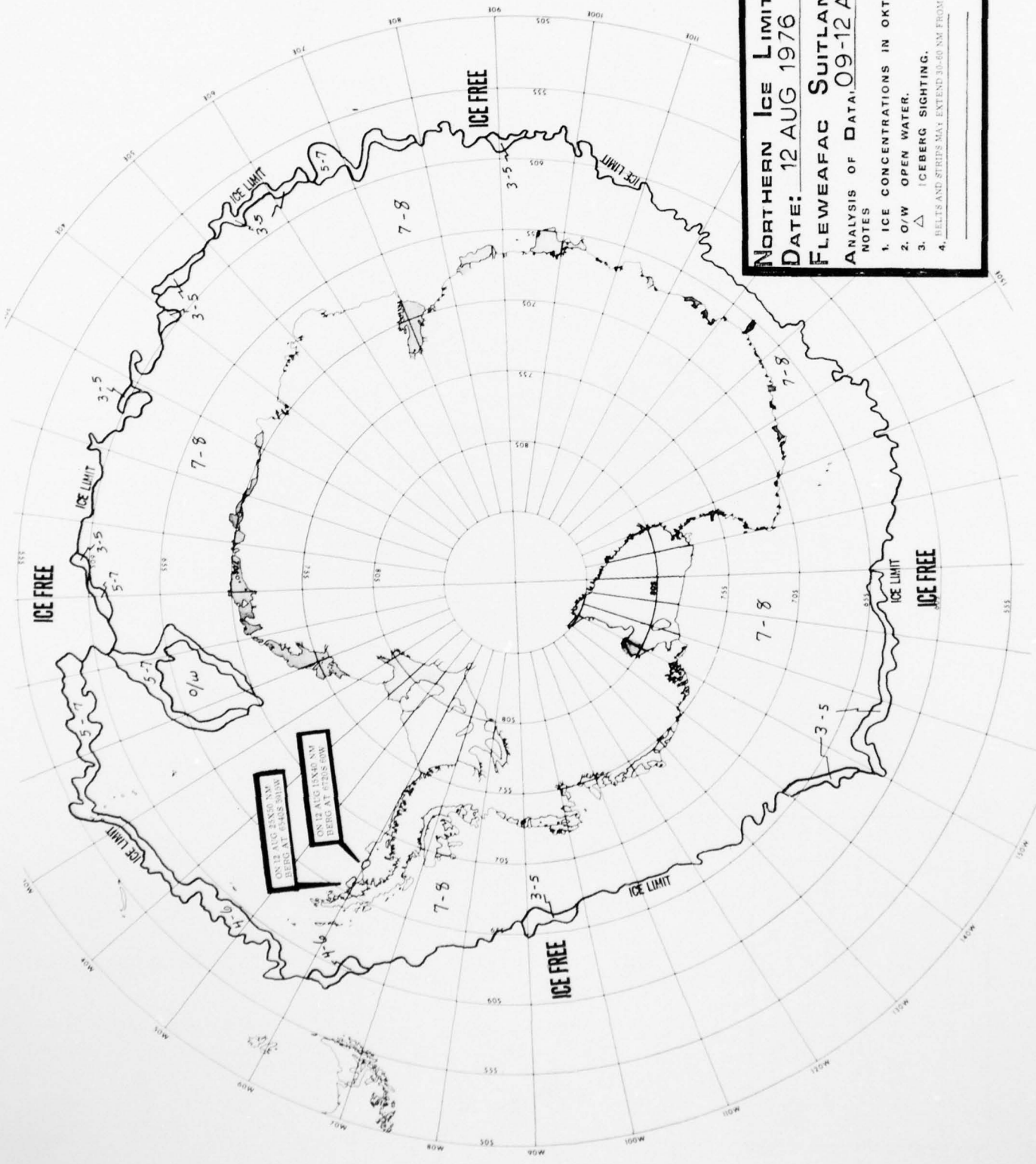
NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE



ON 31 JULY, 28560 NM
 BERG AT 6340S 9913W

ON 31 JULY, 15840 NM
 BERG AT 6720S 00W

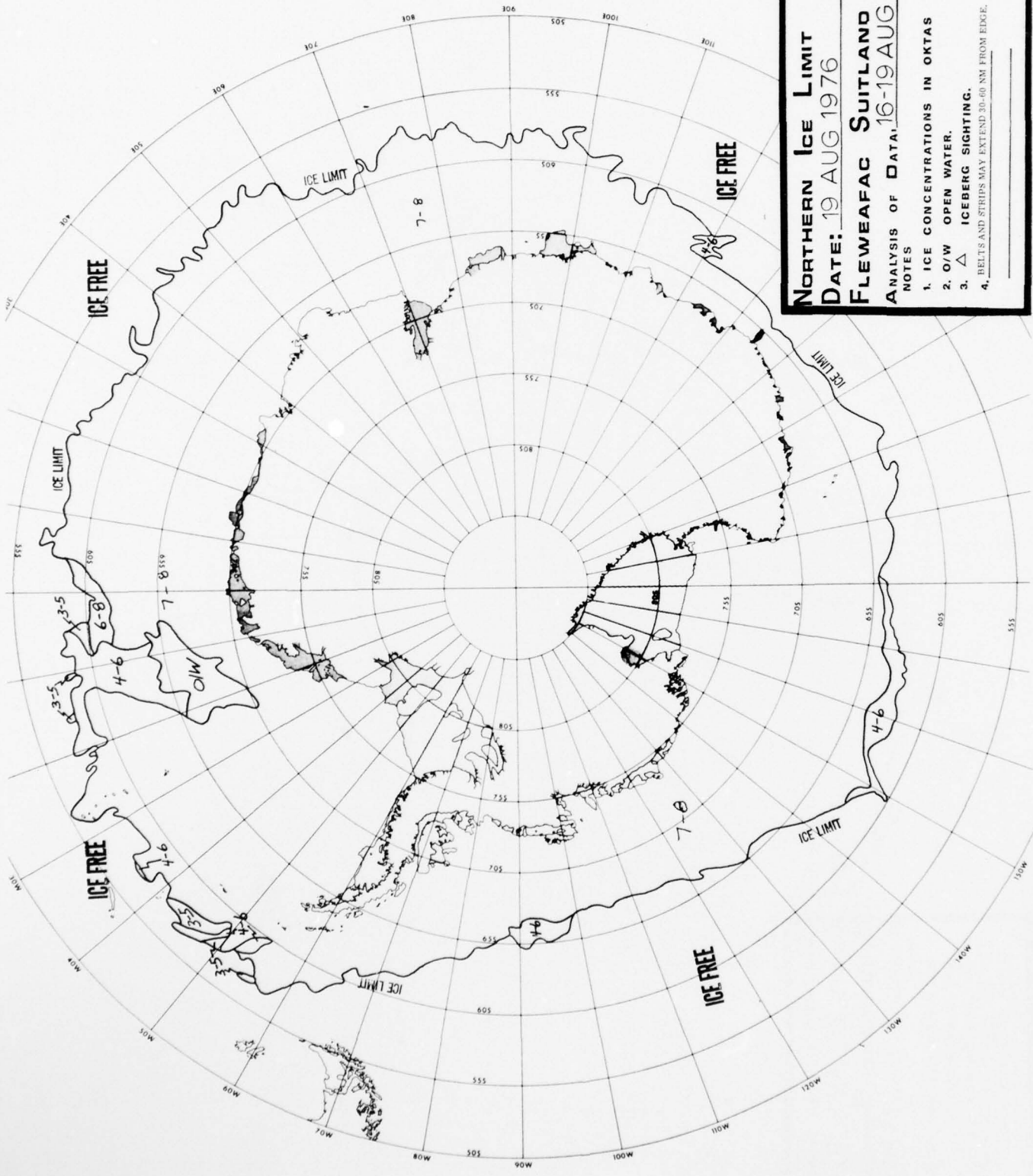


NORTHERN ICE LIMIT
DATE: 12 AUG 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 09-12 AUG

NOTES

1. ICE CONCENTRATIONS IN ORTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

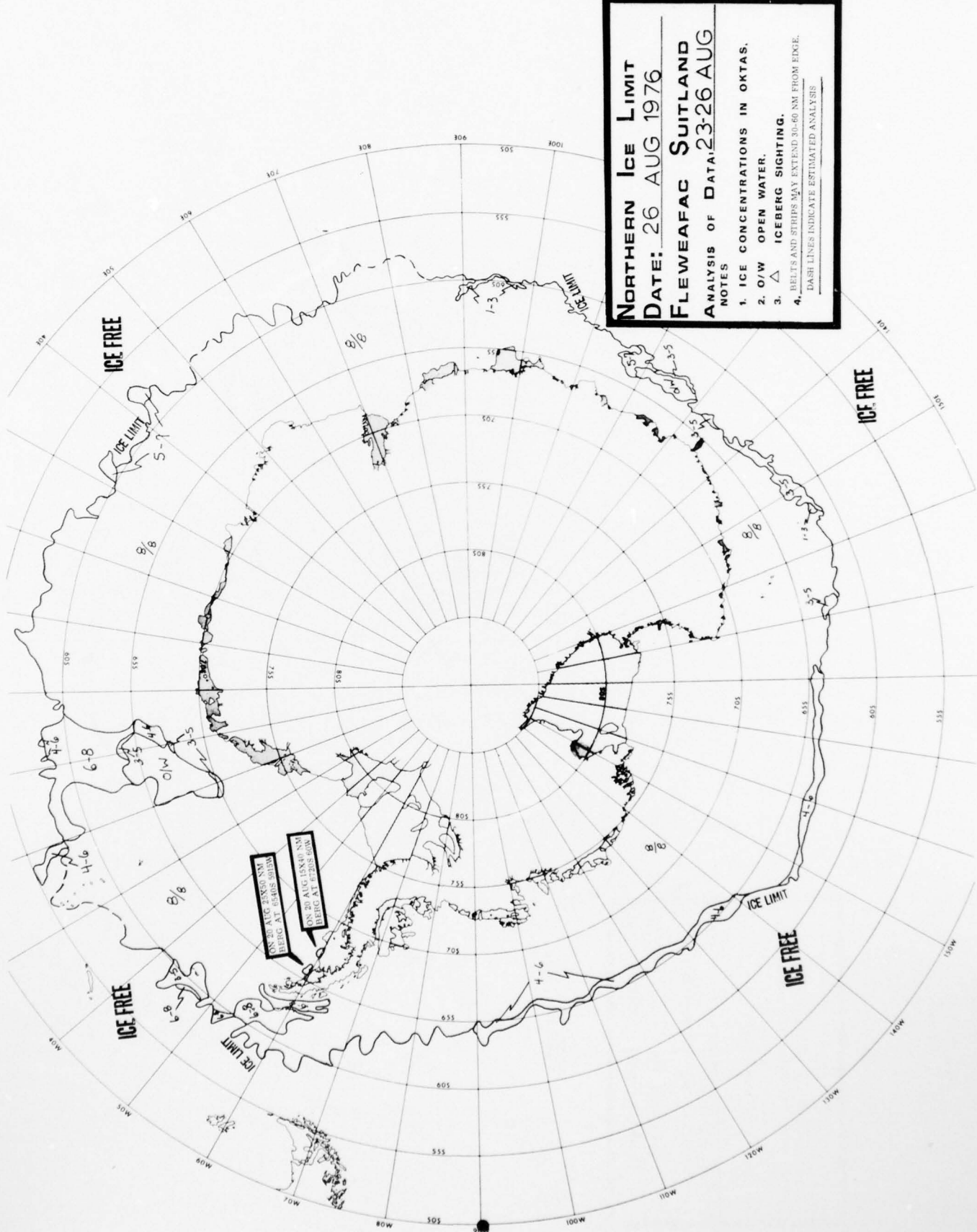
ON 12 AUG 1976 AN
 ICEBERG AT 64°55'N
 154°55'W



NORTHERN ICE LIMIT
DATE: 19 AUG 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 16-19 AUG

NOTES

1. ICE CONCENTRATIONS IN OKTAS
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.



NORTHERN ICE LIMIT
DATE: 26 AUG 1976

FLEWEAFAC SUITLAND
ANALYSIS OF DATA 23-26 AUG

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.
DASH LINES INDICATE ESTIMATED ANALYSIS

ICEBERG SIGHTING
 0302 AUG 1976 54°N 158°W
 BEING AT 6750M CON

ICE FREE

ICE FREE

ICE FREE

ICE FREE

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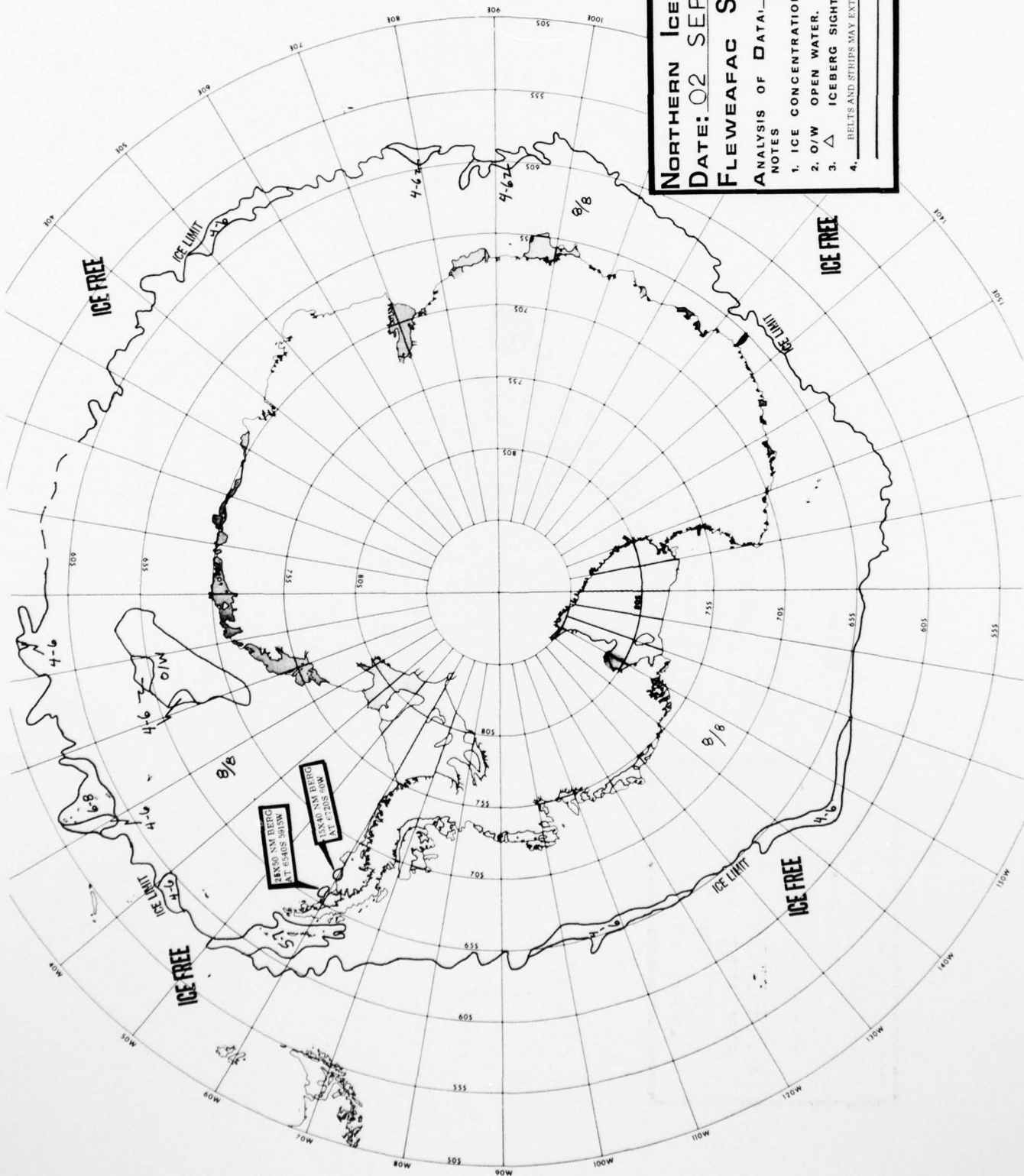
ICE LIMIT

ICE LIMIT

ICE LIMIT

NORTHERN ICE LIMIT
DATE: 02 SEP 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 02 SEP
NOTES: 30 AUG

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

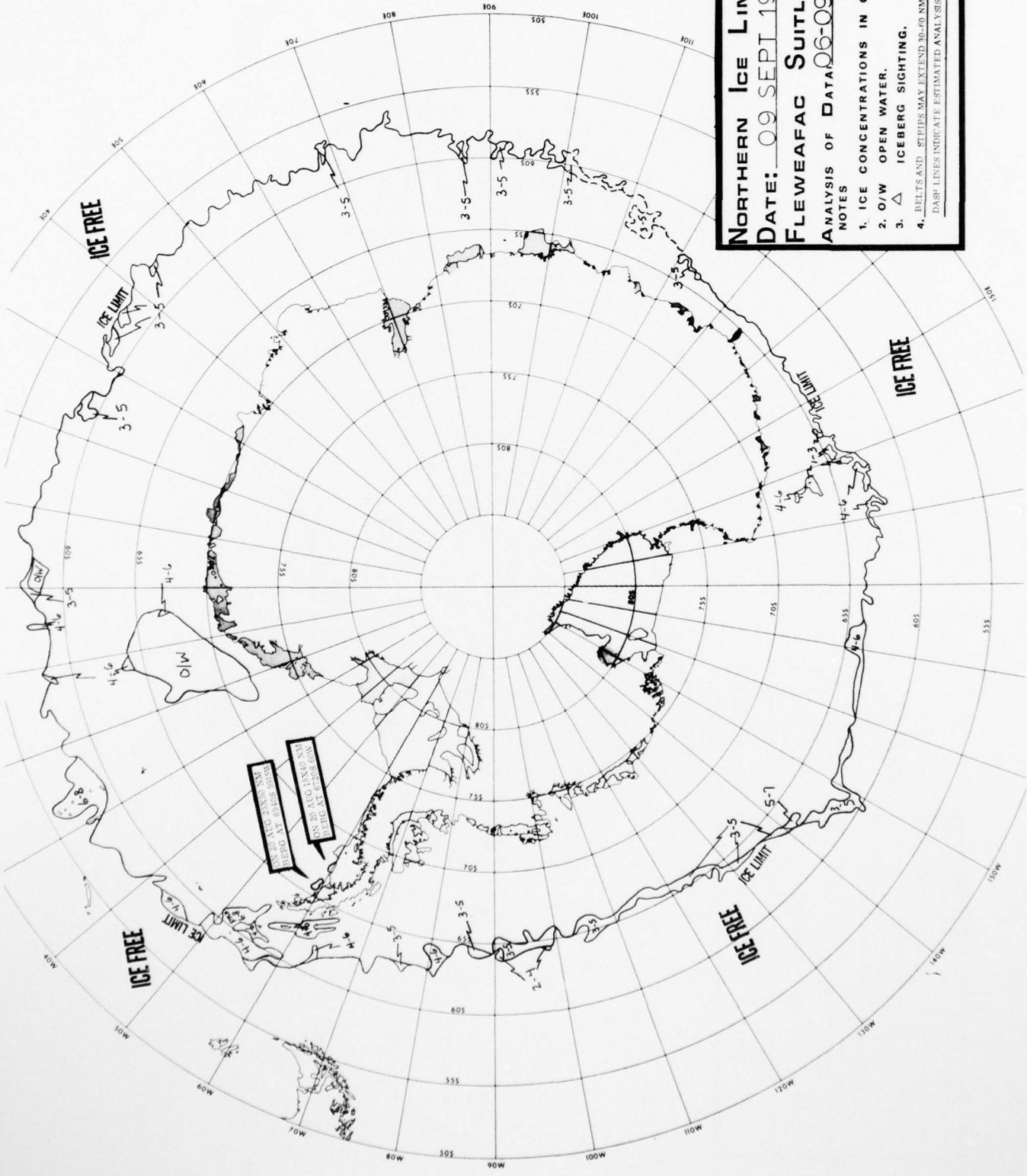


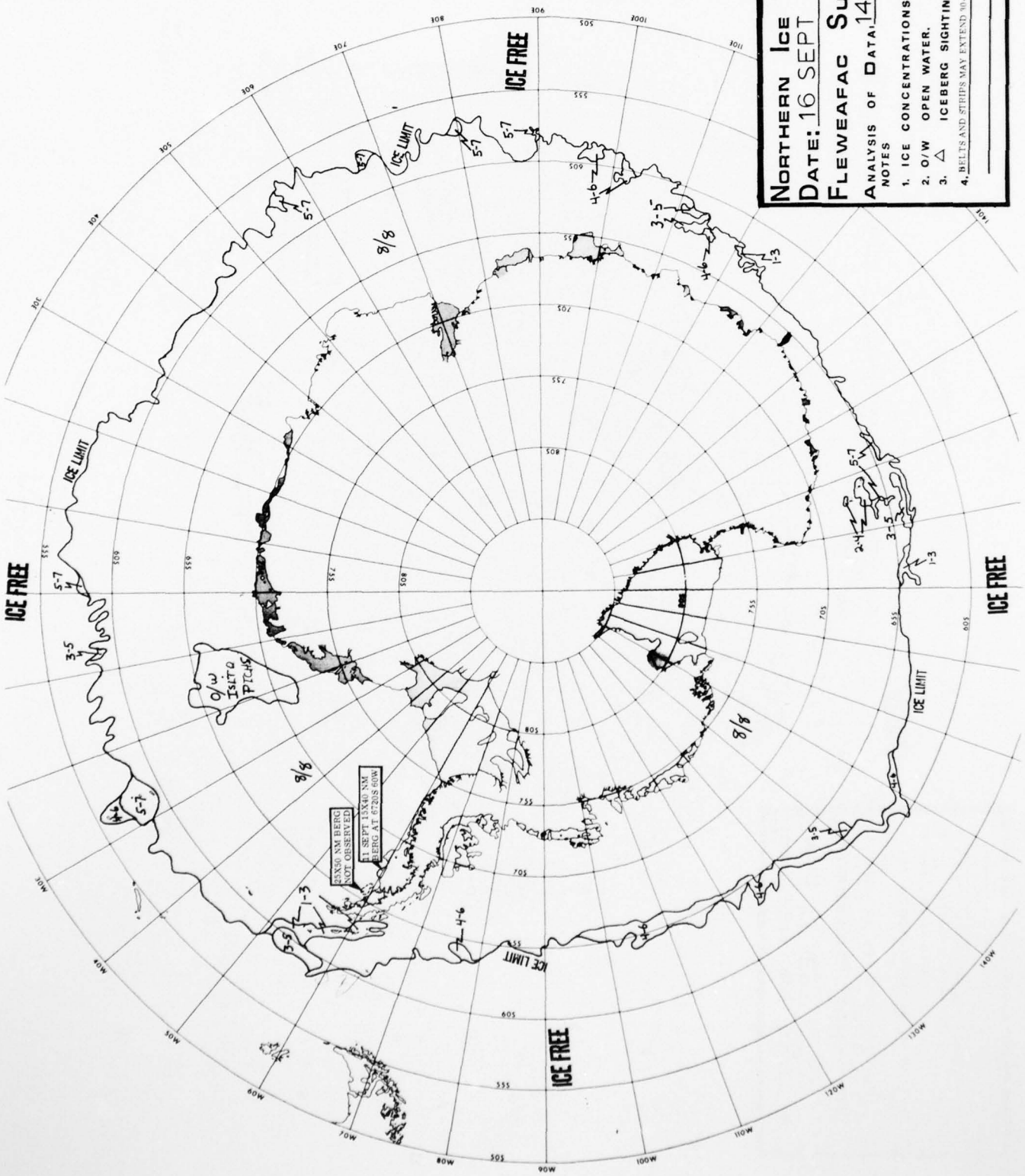
NORTHERN ICE LIMIT
DATE: 09 SEPT 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA 06-09 SEPT

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STIPES MAY EXTEND 30-40 NM FROM EDGE.

DASH LINES INDICATE ESTIMATED ANALYSIS

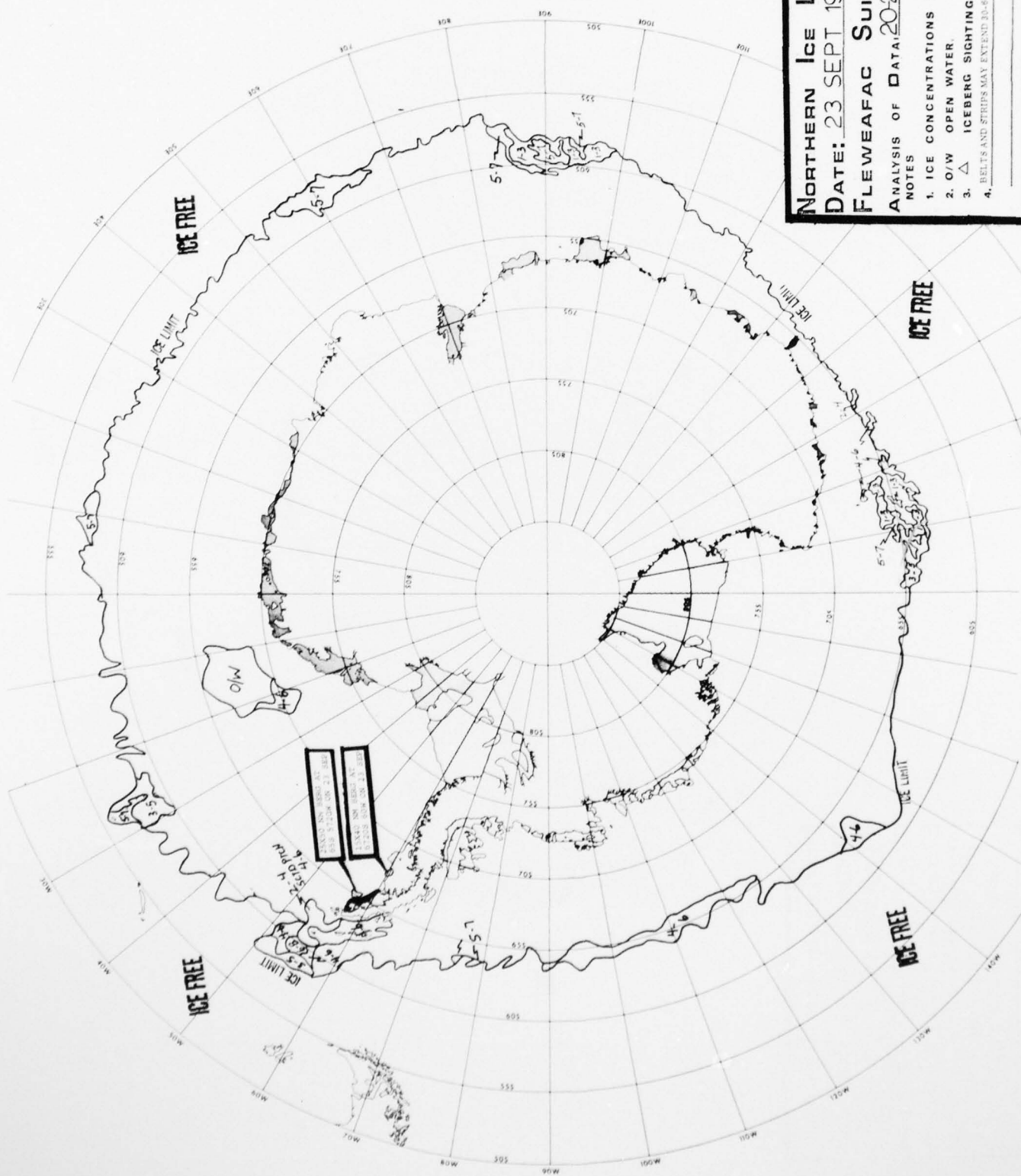




NORTHERN ICE LIMIT
DATE: 16 SEPT 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 14-16 SEPT

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STEPS MAY EXTEND 30.48 KM FROM EDGE



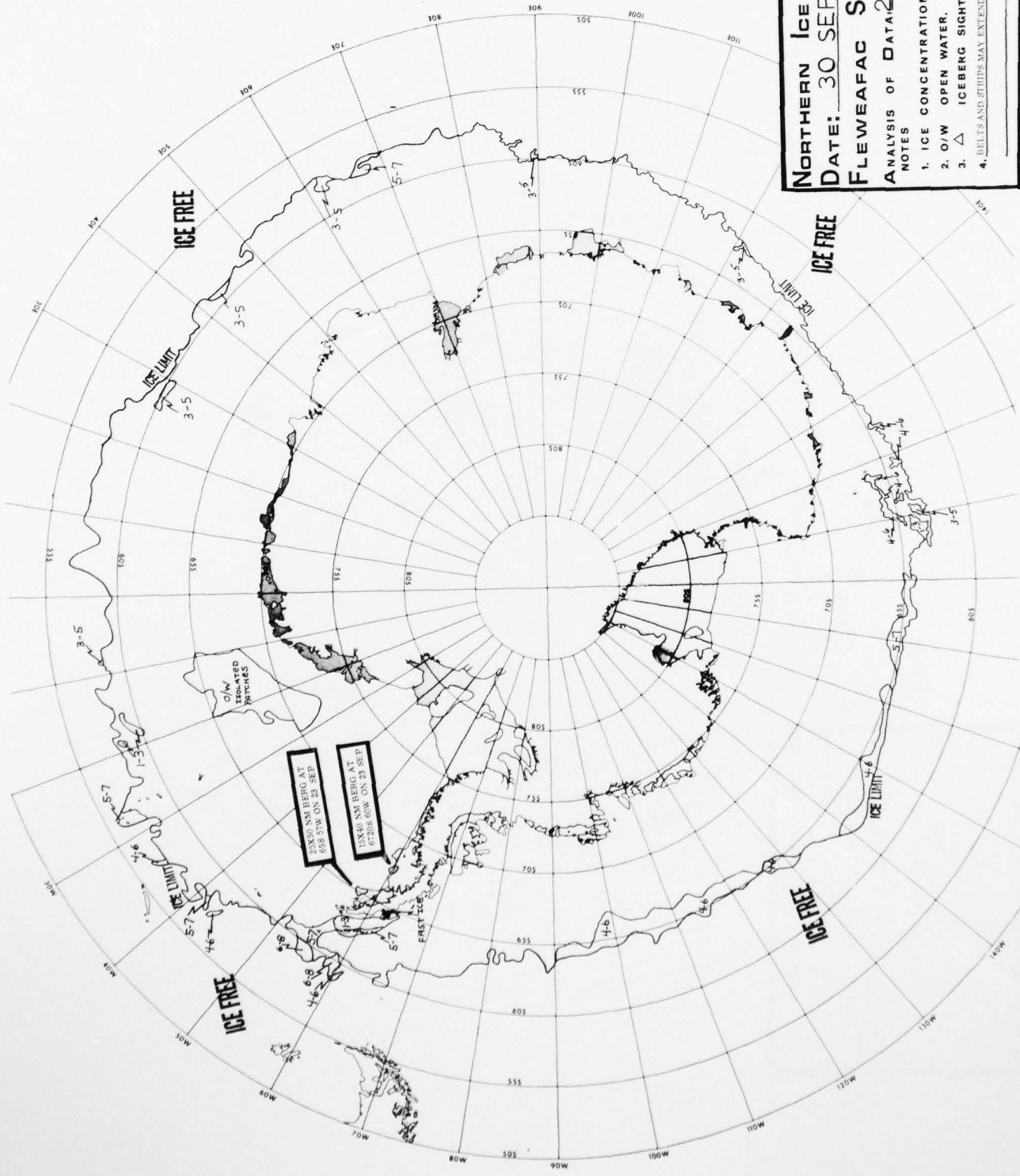
NORTHERN ICE LIMIT
DATE: 23 SEPT 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 20-23 SEPT
 NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

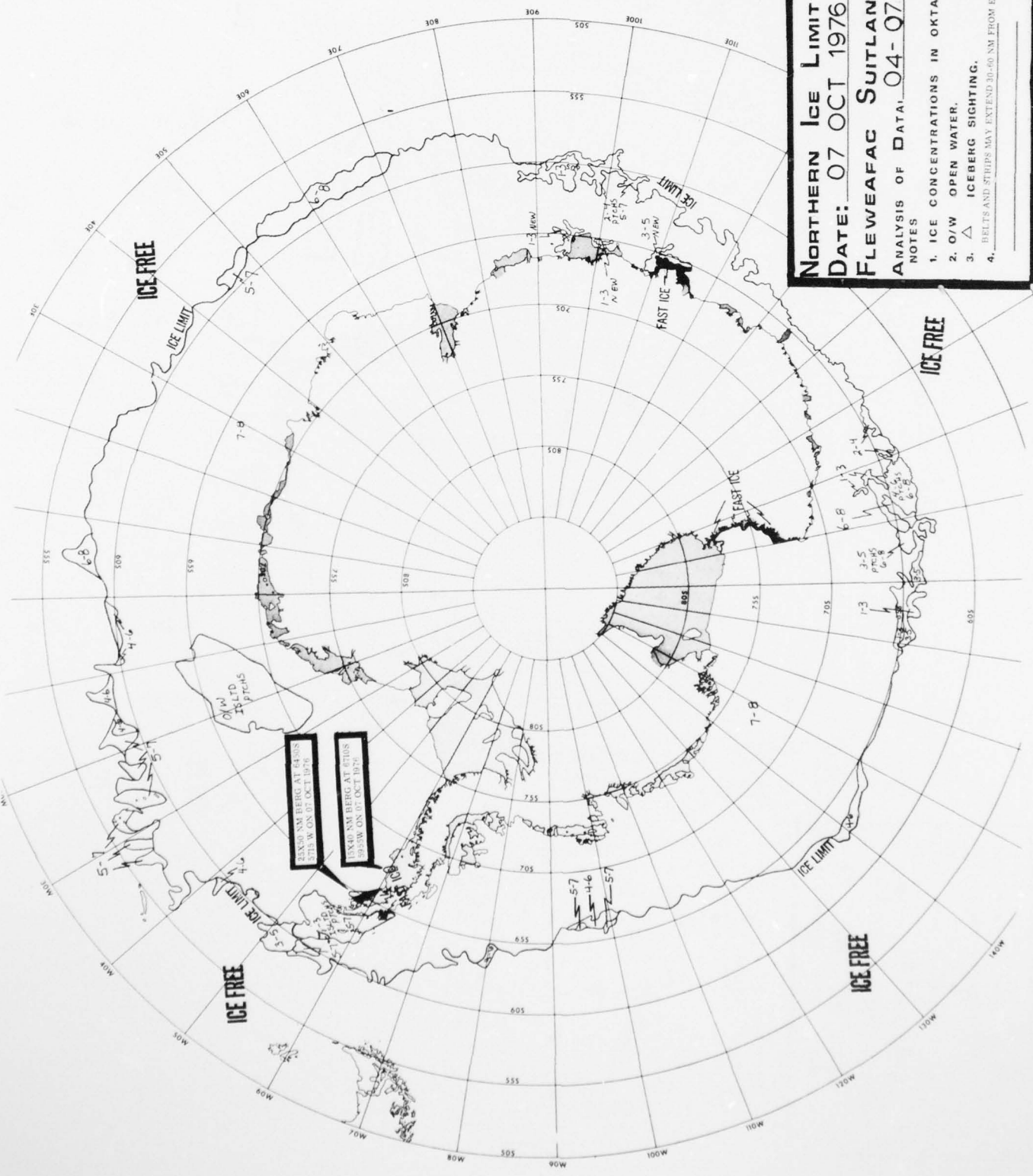
1. Δ ICEBERG SIGHTING
 2. O/W OPEN WATER
 3. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE

NORTHERN ICE LIMIT
DATE: 30 SEP 1976

FLEWEAFAC SUITLAND
ANALYSIS OF DATA 27-30 SEP

- NOTES**
- 1. ICE CONCENTRATIONS IN OKTAS.
 - 2. O/W OPEN WATER.
 - 3. Δ ICEBERG SIGHTING.
 - 4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.





NORTHERN ICE LIMIT
DATE: 07 OCT 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 04-07 OCT

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. △ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

33X30 NM BELTS AT 64.5°N
 1000 W 04-07 OCT 1976

33X40 NM BELTS AT 65.5°N
 1000 W 04-07 OCT 1976

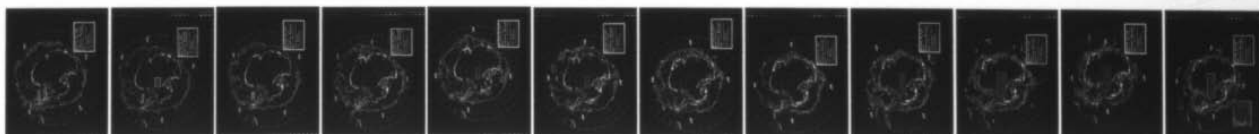
AD-A043 954 FLEET WEATHER FACILITY SUITLAND MD
ANTARCTIC ICE CHARTS 1975-1976. (U)
1976

F/G 8/12

UNCLASSIFIED

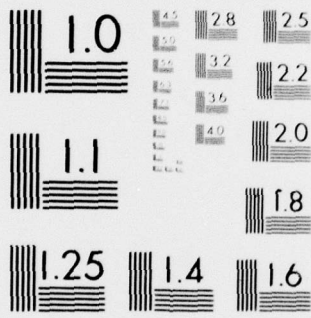
NL

2 OF 2
AD
A043354

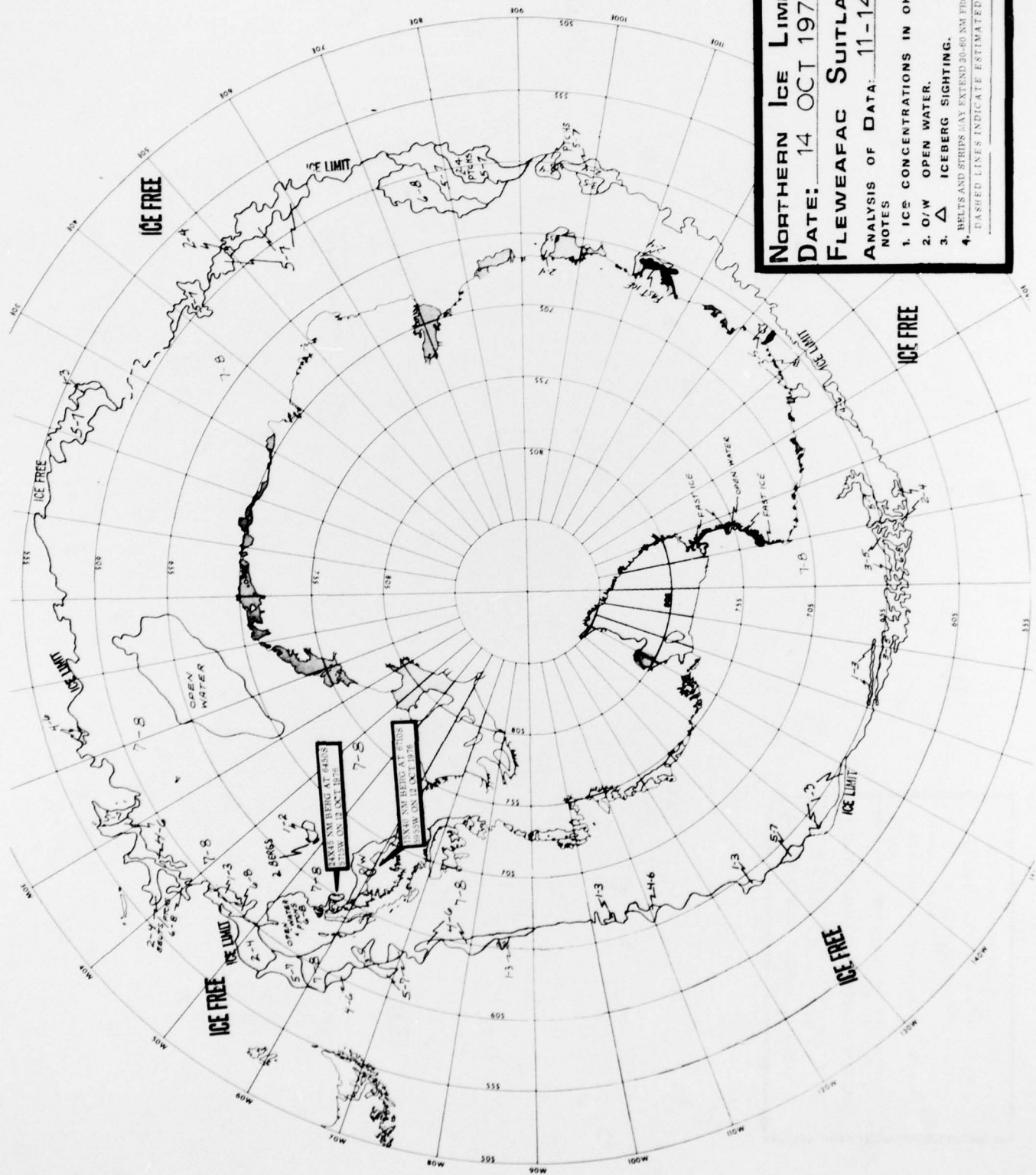


END
DATE
FILMED
11-78
DDC





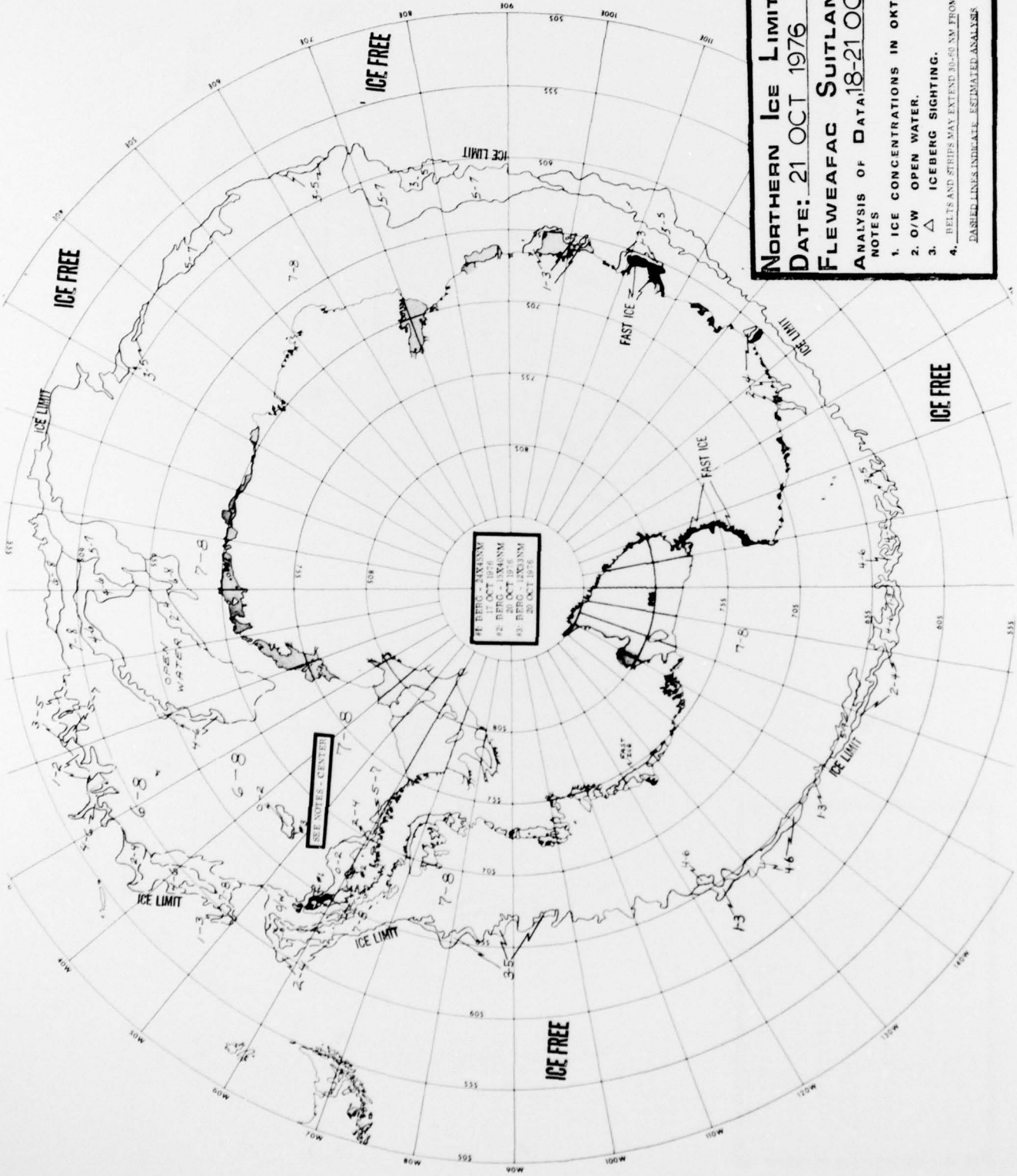
MICROCOPY RESOLUTION TEST CHART
 NATIONAL BUREAU OF STANDARDS-1963-A

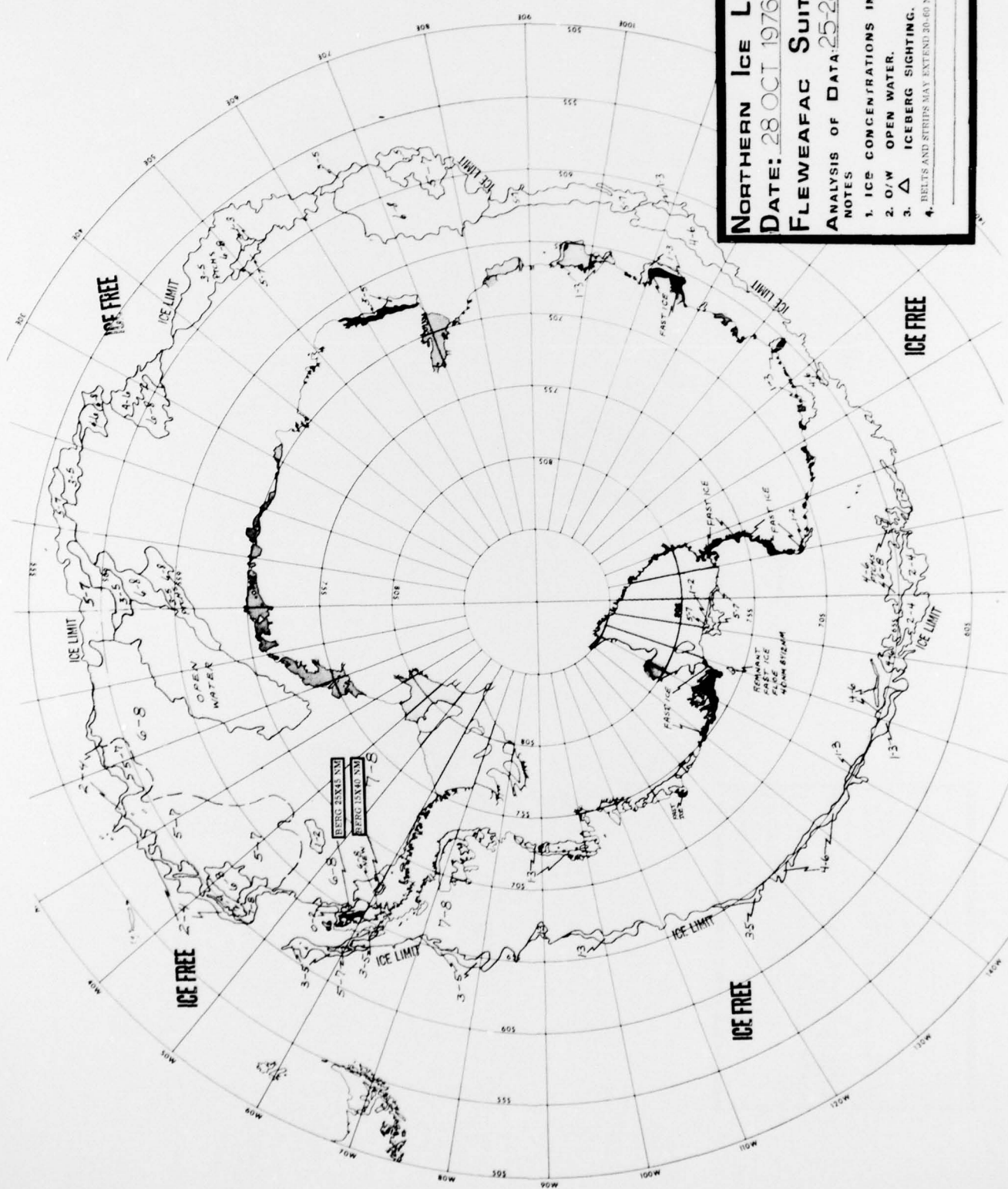


NORTHERN ICE LIMIT
DATE: 14 OCT 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 11-14 OCT

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE. DASHED LINES INDICATE ESTIMATED DATA.

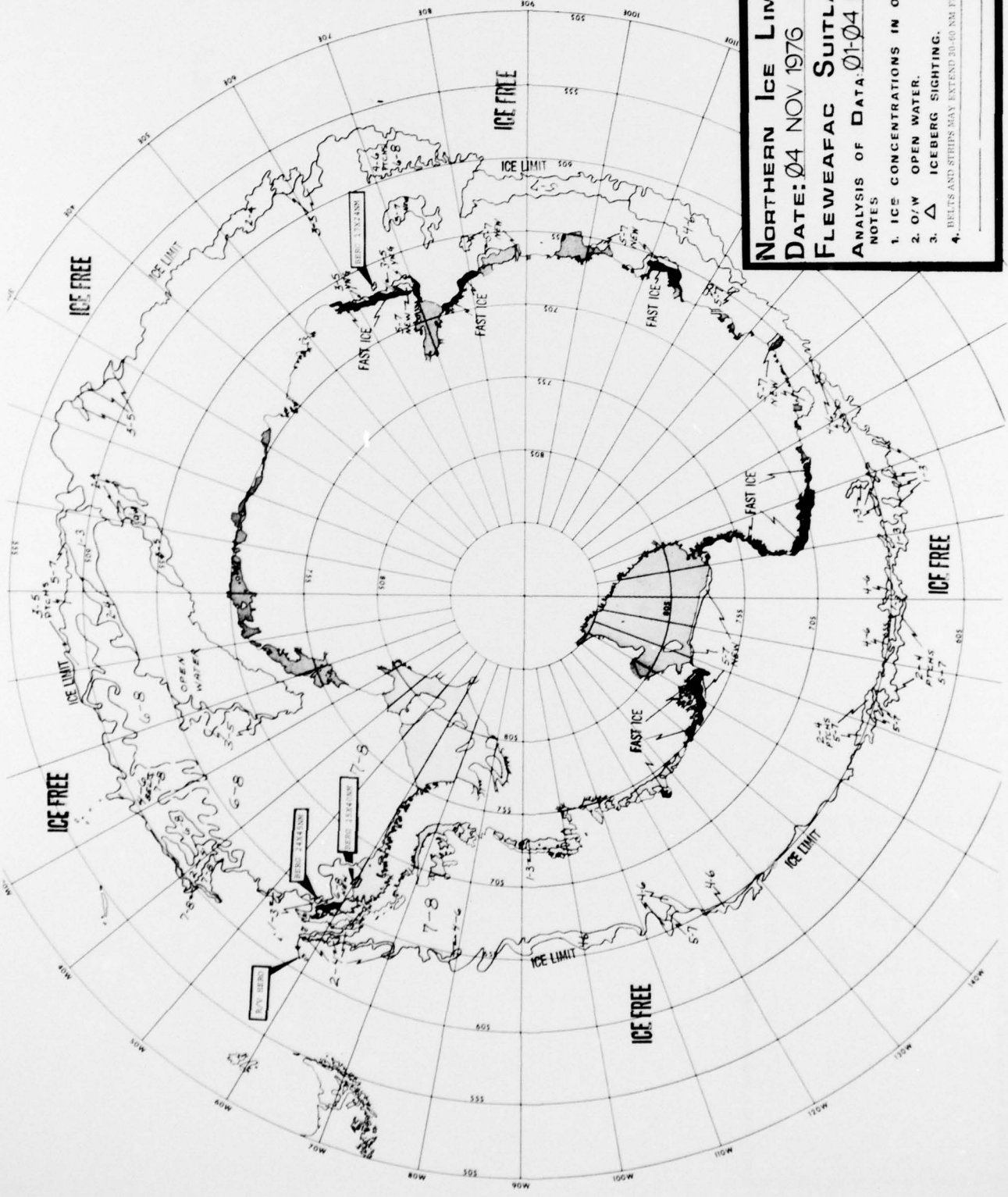




NORTHERN ICE LIMIT
DATE: 28 OCT 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 25-28 OCT

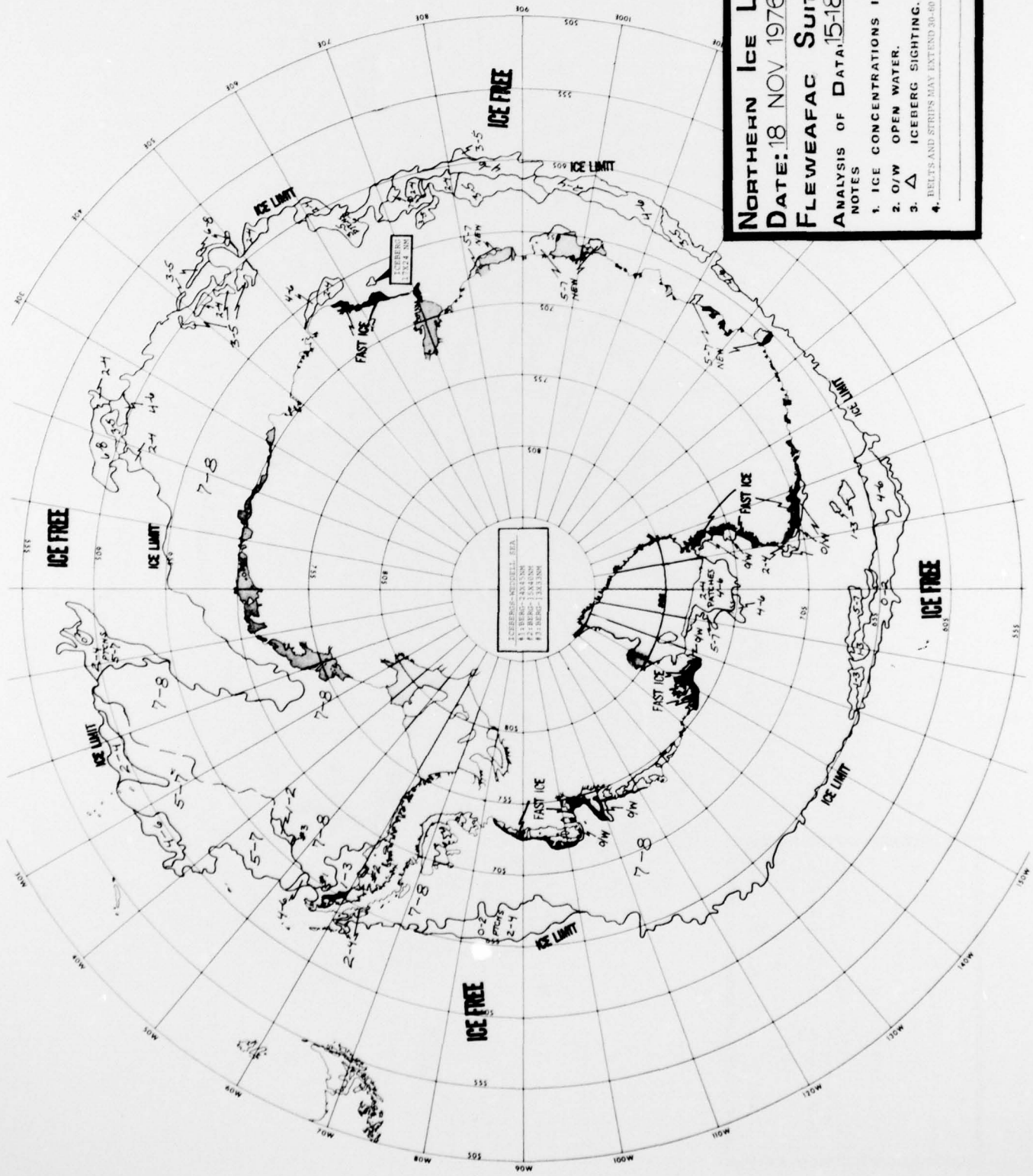
NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 20-60 NM FROM EDGE.



NORTHERN ICE LIMIT
DATE: 04 NOV 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 01-04 NOV
NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM LINE.



NORTHERN ICE LIMIT
DATE: 18 NOV 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA, 15-18 NOV

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

NORTHERN ICE LIMIT

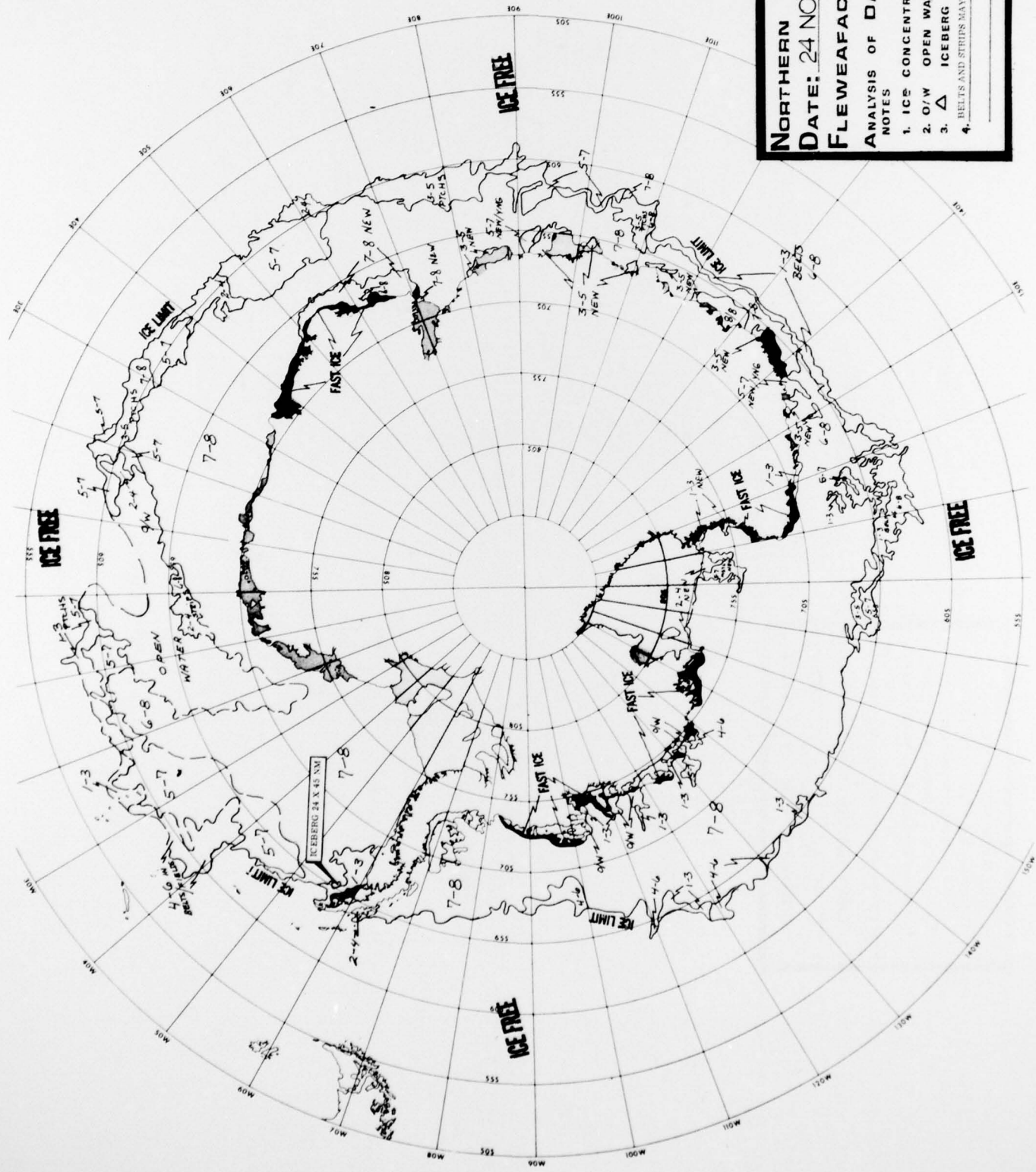
DATE: 24 NOV 1976

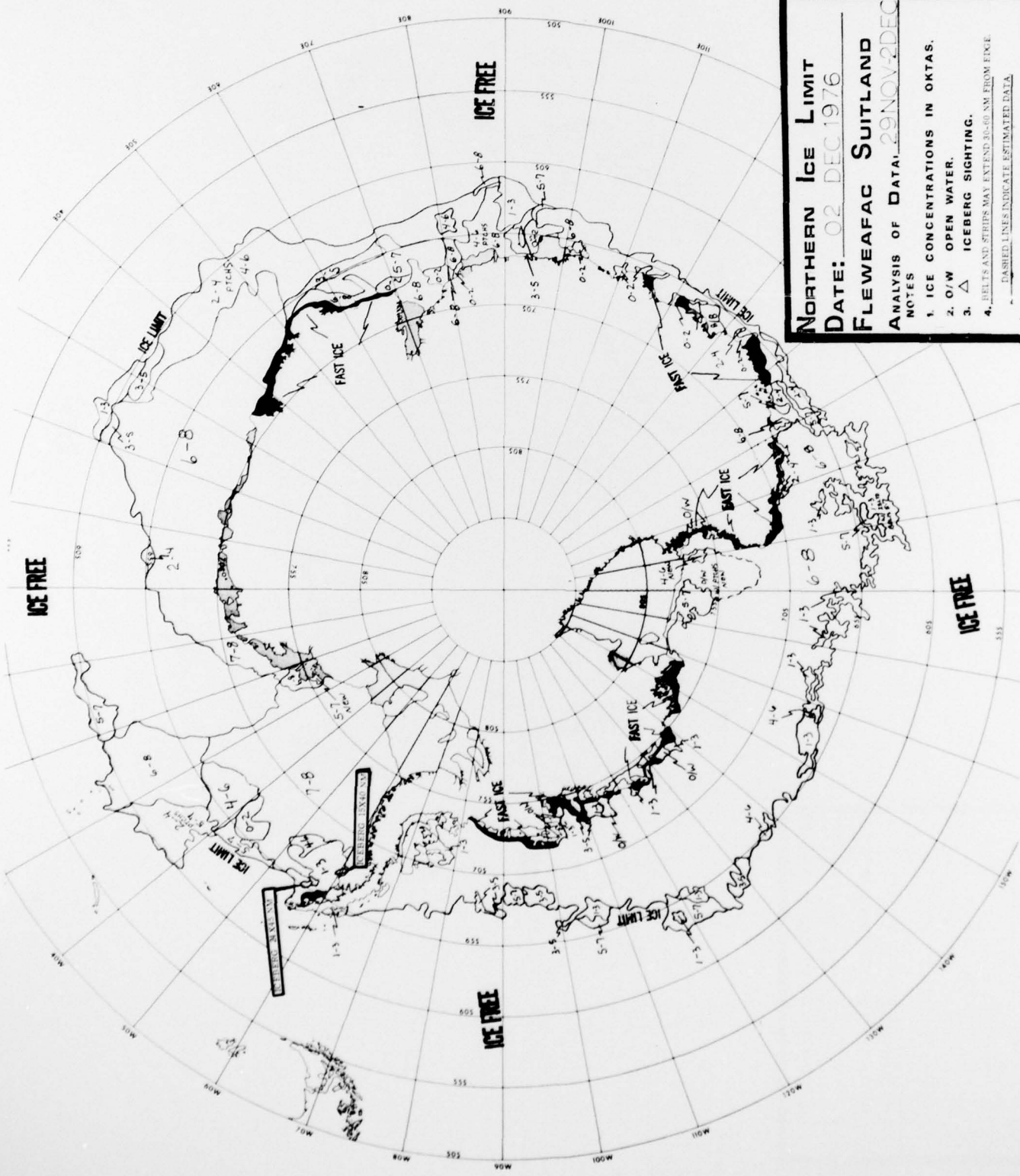
FLEWEAFAC SUITLAND

ANALYSIS OF DATA: 22-24 NOV

NOTES

- 1. ICE CONCENTRATIONS IN ORTAS.
- 2. O/W OPEN WATER.
- 3. Δ ICEBERG SIGHTING.
- 4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.





NORTHERN ICE LIMIT
DATE: 02 DEC 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 29 NOV-2 DEC

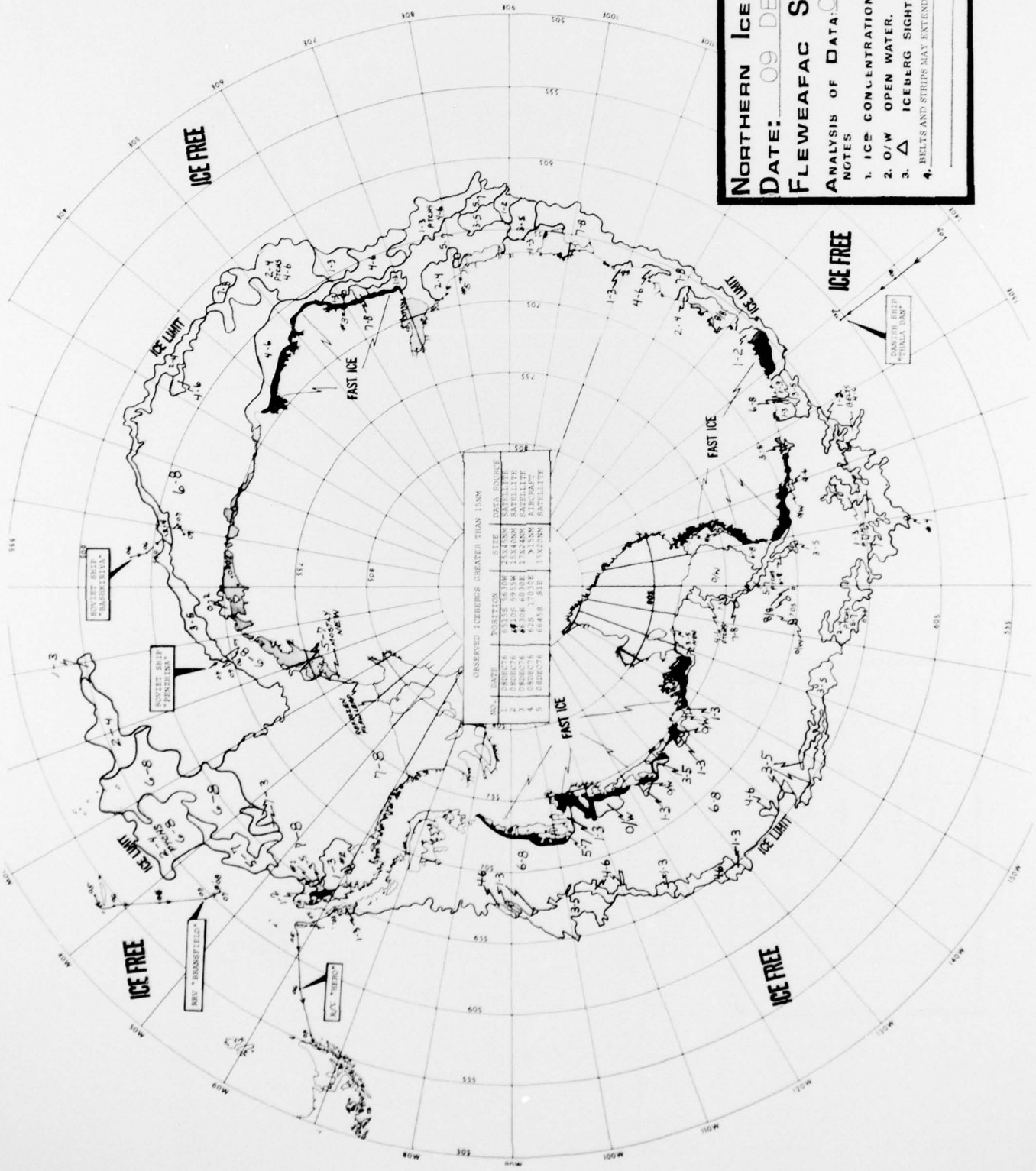
NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM ICE.

--- DASHED LINES INDICATE ESTIMATED DATA

NORTHERN ICE LIMIT
DATE: 09 DEC 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 06-09 DEC

NOTES
 1. ICB CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STRIPS MAY EXTEND 20-60 NM FROM EDGE.



OBSERVED ICEBERGS GREATER THAN 150M

NO.	DATE	POSITION	SEE DATA SOURCE
1	06 DEC 76	68°N 178°W	JASON SATELLITE
2	06 DEC 76	68°N 178°W	ATLAS SATELLITE
3	06 DEC 76	68°N 178°W	ATLAS SATELLITE
4	06 DEC 76	68°N 178°W	ATLAS SATELLITE
5	06 DEC 76	68°N 178°W	ATLAS SATELLITE

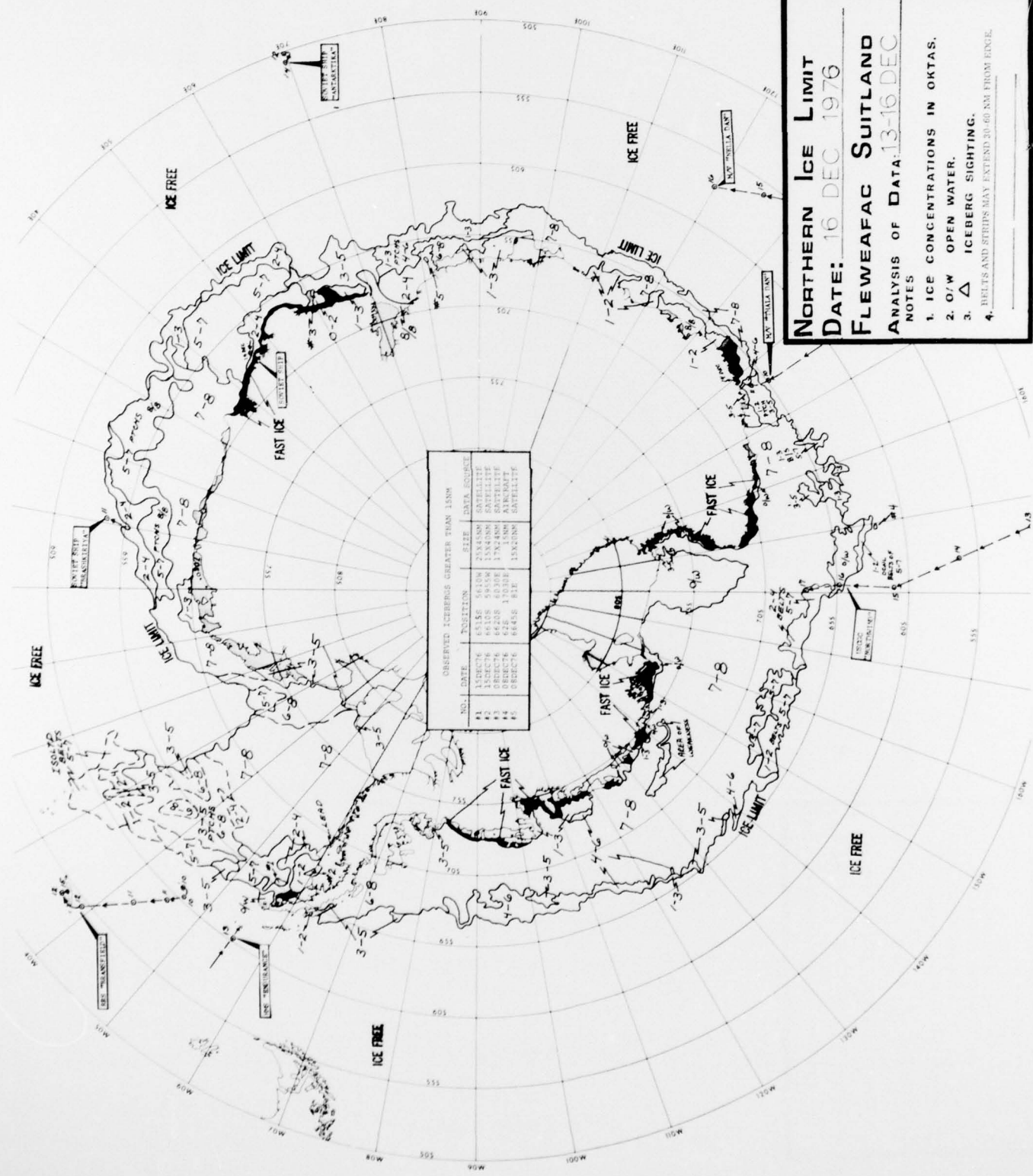
SOVIET SHIP
"MASHKERTSA"

SOVIET SHIP
"FRENZELIN"

SOV. "TRANSPELICKA"

R/V "SIBER"

SCALE IN BELTS
"TOTAL 100NM"



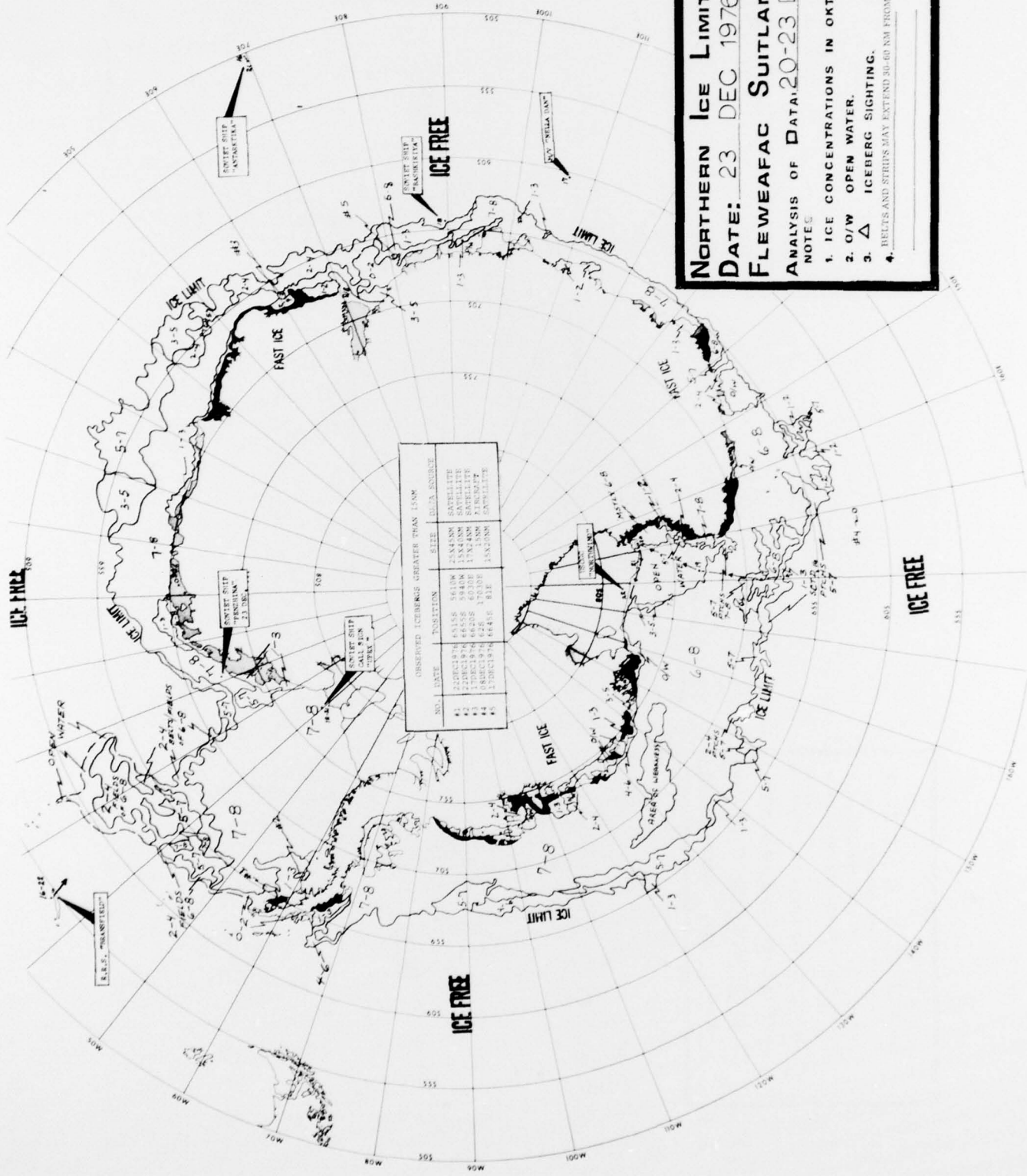
OBSERVED ICEBERGS GREATER THAN 150M

NO.	DATE	POSITION	SIZE	DATA SOURCE
41	13 DEC 76	65130N 258450W	SATELLITE	
42	13 DEC 76	65130N 258450W	SATELLITE	
43	13 DEC 76	65200N 258300W	SATELLITE	
44	13 DEC 76	64200N 258300W	ATK/MARAT	
45	13 DEC 76	64450N 258300W	SATELLITE	

NORTHERN ICE LIMIT
DATE: 16 DEC 1976
FLEWEAFAC SUTLAND
ANALYSIS OF DATA 13-16 DEC

NOTES

1. ICE CONCENTRATIONS IN OKTAS.
2. O/W OPEN WATER.
3. Δ ICEBERG SIGHTING.
4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

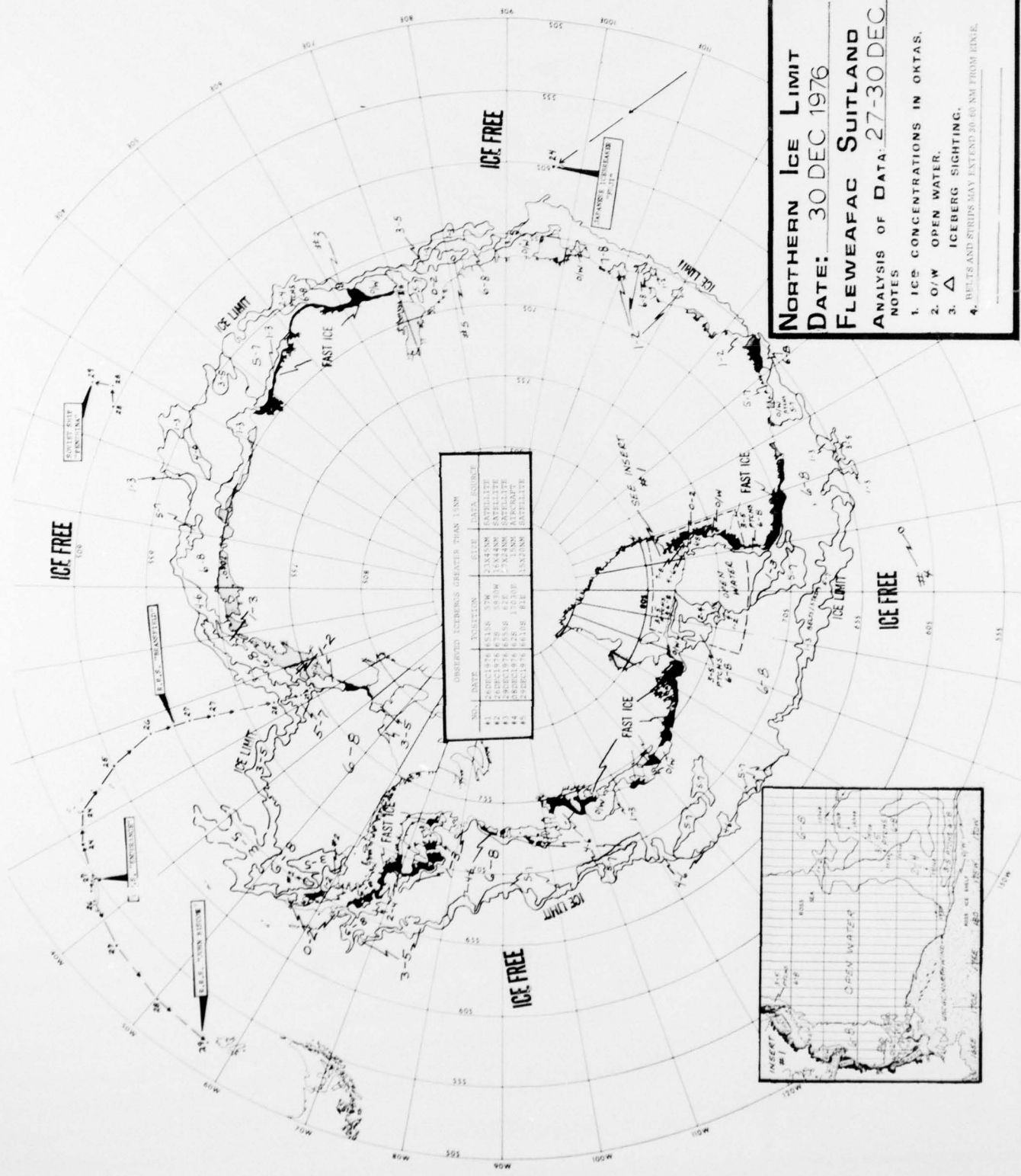


OBSERVED ICEBERGS GREATER THAN 150M

NO.	DATE	POSITION	SIZE	DATA SOURCE
1	22DEC1976	65158 56108	250X1000	SATELLITE
2	22DEC1976	65558 56408	150X1000	SATELLITE
3	13DEC1976	6525 170100	1500	PERISCOPE
4	13DEC1976	6525 170100	1500	PERISCOPE
5	13DEC1976	65416 81E	150X1000	ENTWITTE

NORTHERN ICE LIMIT
DATE: 23 DEC 1976
FLEWEFAC SUITLAND
ANALYSIS OF DATA: 20-23 DEC

NOTE:
 1. ICE CONCENTRATIONS IN OKTAS,
 2. O/W OPEN WATER,
 3. Δ ICEBERG SIGHTING,
 4. BELTS AND STRAITS MAY EXTEND 30-60 NM FROM LIMIT.



NORTHERN ICE LIMIT
DATE: 30 DEC 1976
FLEWEAFAC SUITLAND
ANALYSIS OF DATA: 27-30 DEC

NOTES
 1. ICE CONCENTRATIONS IN OKTAS.
 2. O/W OPEN WATER.
 3. Δ ICEBERG SIGHTING.
 4. BELTS AND STRIPS MAY EXTEND 30-60 NM FROM EDGE.

OBSERVED ICEBERGS GREATER THAN 100M

NO.	DATE	POSITION	SATELITE	DATA SOURCE
1	28DEC1976	61°15N 157°00W	OSAKAMA	SATELLITE
2	28DEC1976	67°28N 153°00W	OSAKAMA	SATELLITE
3	28DEC1976	65°55N 152°00W	OSAKAMA	SATELLITE
4	28DEC1976	62°25N 153°00W	OSAKAMA	SATELLITE
5	28DEC1976	62°25N 153°00W	OSAKAMA	SATELLITE
6	28DEC1976	62°25N 153°00W	OSAKAMA	SATELLITE
7	28DEC1976	62°25N 153°00W	OSAKAMA	SATELLITE
8	28DEC1976	62°25N 153°00W	OSAKAMA	SATELLITE
9	28DEC1976	62°25N 153°00W	OSAKAMA	SATELLITE
10	28DEC1976	62°25N 153°00W	OSAKAMA	SATELLITE



