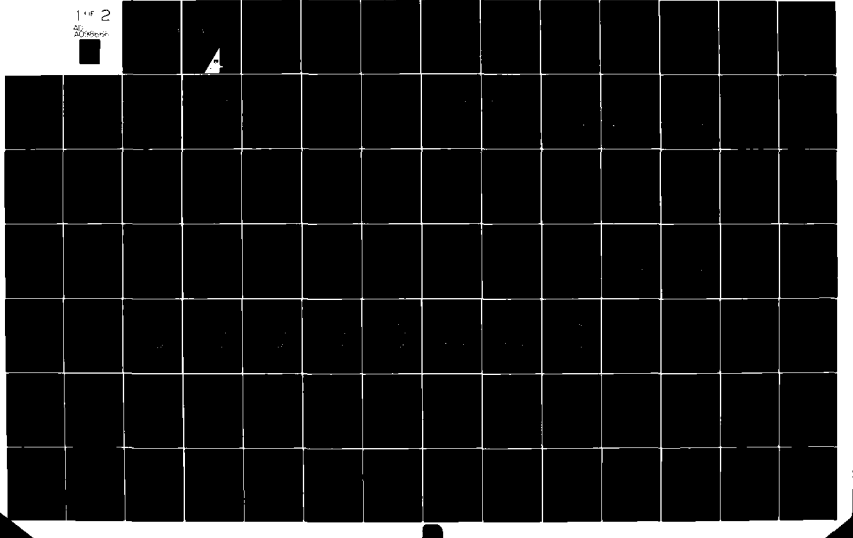
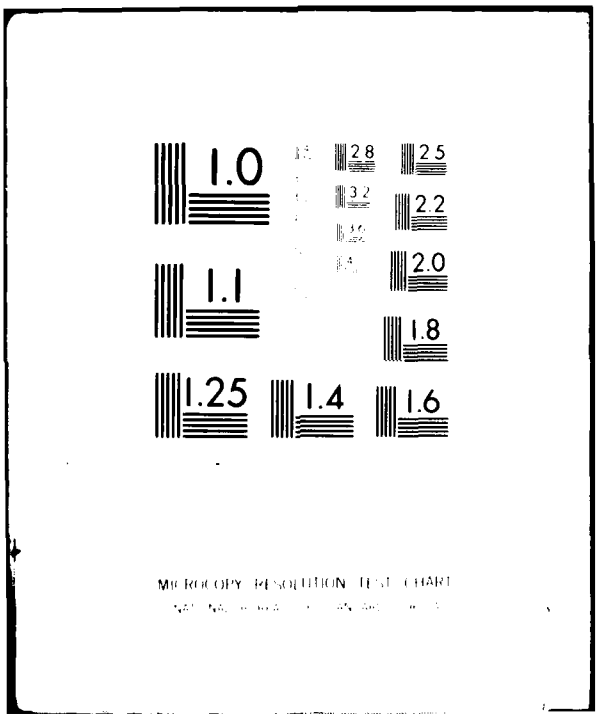
AD-A098 666 NAVAL POLAR OCEANOGRAPHY CENTER WASHINGTON DC F/G 8/12
ANTARCTIC ICE CHARTS 1979-1980.(U)
MAY 81

UNCLASSIFIED NL

1 OF 2
AD
A098666




1.0
2.8
2.5
3.2
2.2
2.0
1.1
1.8
1.25
1.4
1.6
MICROCOPY RESOLUTION TEST CHART

UNCLASSIFIED

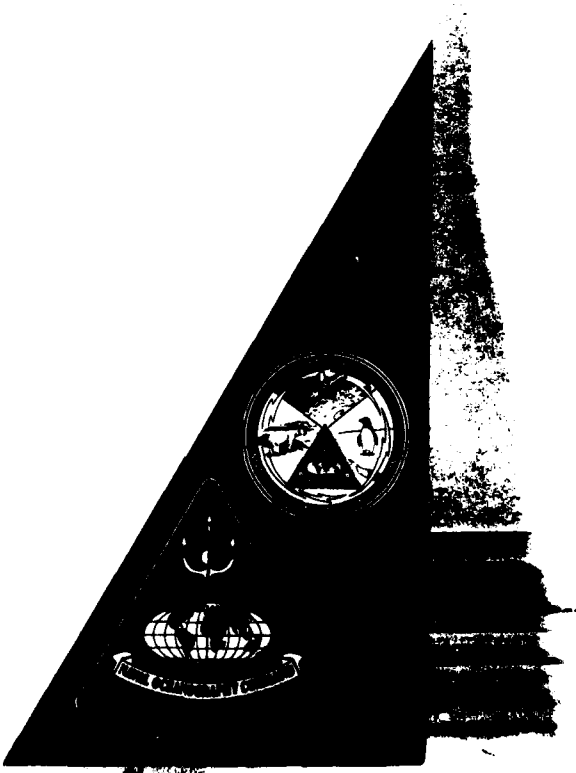
LEVEL III

ANTARCTIC ICE CHARTS
1979—1980

PREPARED BY
NAVAL POLAR OCEANOGRAPHY CENTER,
SUITLAND, MD

PREPARED FOR
COMMANDER,
NAVAL OCEANOGRAPHY COMMAND
NSTL STATION, BAY ST. LOUIS. MS 39529

LEVEL III



FOREWORD

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 have resulted in a greater requirement for environmental information. In 1976, the National Oceanic and Atmospheric Administration (NOAA) joined the Navy in forming a Joint Ice Center (JIC) to combine efforts and resources in sea ice analysis and forecasting.

Through 1972, 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 mainly to the relatively small areas observed primarily during the ship operating seasons. The advent of high resolution satellite imagery combined with the ground truth of conventional observations has in recent years enabled a description of the polar ice fields on a semi-synoptic scale in both polar regions.

This publication is the fourth in a continuing bi-yearly series of Antarctic sea ice atlases prepared in the Joint Ice Center at the Naval Polar Oceanography Center, Suitland. The atlas contains weekly charts depicting Southern Hemisphere ice conditions and extents. The information presented was prepared under operational time constraints principally from satellite imagery supplemented by conventional observations. Table I located on the inside back cover summarizes satellite data availability for 1979 and 1980.

Commencing with the first analysis of 1980, ice concentrations are identified in tenths of ice coverage. Ice concentrations in analyses of prior years, 1979 and earlier, were identified in oktas or eighths coverage.

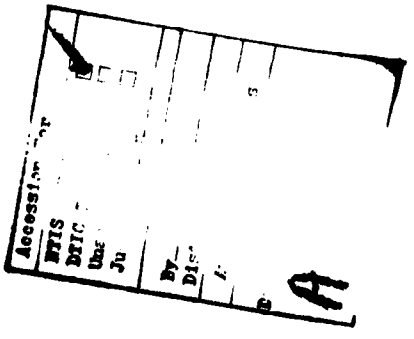
The purpose of this atlas is to provide operators and researchers with reliable weekly hemispheric ice analyses. Satellite data limitations and other difficulties involved in manually synthesizing various forms of ice data have evolved the following analysis procedures:

a. Conventional shore station, ship and aerial ice reconnaissance observations are plotted on base charts and evaluated for timeliness.

b. Satellite data is analyzed for ice information content, with the most recent and highest resolution considered first. Synthesis of conventional with satellite data yields the final analysis.

c. Where sufficient data is not available to define the sea ice limit, an estimated ice boundary is depicted. After one week of no data availability the ice edge position is based on analyzed theoretical ice drift data and other diagnostic aids. During subsequent weeks of no data availability the ice edges approach seasonal mean positions.

Naval Polar Oceanography Center
Navy Department
4301 Suitland Road
Washington, DC 20390



FOREWORD

ng and colorful history of polar exploration and currently is growing national activity in the Arctic and Antarctic. The ncreased demand for the natural resources of these areas requirement for environmental information. In 1976, the spheric Administration (NOAA) joined the Navy in forming a combine efforts and resources in sea ice analysis and

sea ice information in the polar regions was based on a and ship reports augmented by limited aerial reconnaissance ther restricted mainly to the relatively small areas observed operating seasons. The advent of high resolution satellite ground truth of conventional observations has in recent years he polar ice fields on a semi-synoptic scale in both polar

fourth in a continuing bi-yearly series of Antarctic sea ice oint Ice Center at the Naval Polar Oceanography Center, s weekly charts depicting Southern Hemisphere ice conditions ion presented was prepared under operational time constraints imagery supplemented by conventional observations. Table 1 cover summarizes satellite data availability for 1979 and

first analysis of 1980, ice concentrations are identified in ice concentrations in analyses of prior years, 1979 and oktas or eighths coverage.

atlas is to provide operators and researchers with reliable nalyses. Satellite data limitations and other difficulties sizing various forms of ice data have evolved the following

e station, ship and aerial ice reconnaissance observations are evaluated for timeliness.

analyzed for ice information content, with the most recent sidered first. Synthesis of conventional with satellite data

nt data is not available to define the sea ice limit, an depicted. After one week of no data availability the ice analyzed theoretical ice drift data and other diagnostic aids. f no data availability the ice edges approach seasonal mean

Naval Polar Oceanography Center
Navy Department
4301 Suitland Road
Washington, DC 20390

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO. AD-A098666	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Antarctic Ice Charts 1979-1980.		5. TYPE OF REPORT & PERIOD COVERED Reference Publication, 1979 and 1980
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) N/A		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Naval Oceanography Command Detachment Federal Building Asheville, NC 28801		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS Commander, Naval Oceanography Command NSTL Station Bay St Louis, MS 39529		12. REPORT DATE May 1981
		13. NUMBER OF PAGES 52
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) Naval Polar Oceanography Center Joint Ice Center Suitland, MD 20390		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

Approved for public release; distribution unlimited.

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Antarctic, ice analysis, sea ice, ice charts, Antarctic ice.

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

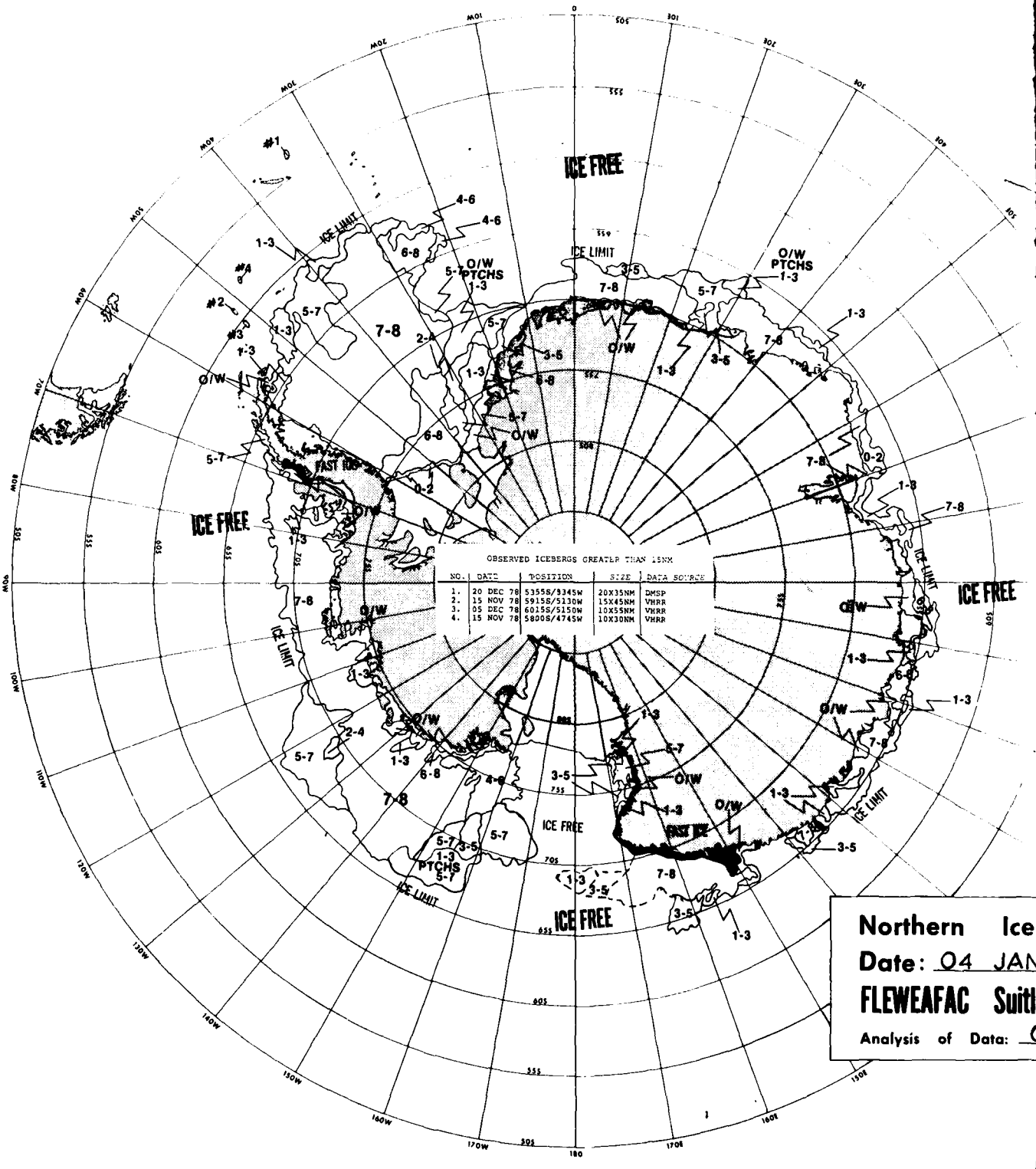
This publication contains the weekly analysis charts of sea ice in the Antarctic for years 1979 and 1980. Ice free, Northern limits, types and concentrations of sea ice are depicted.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

S/N 0102-LF-014-6601

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)



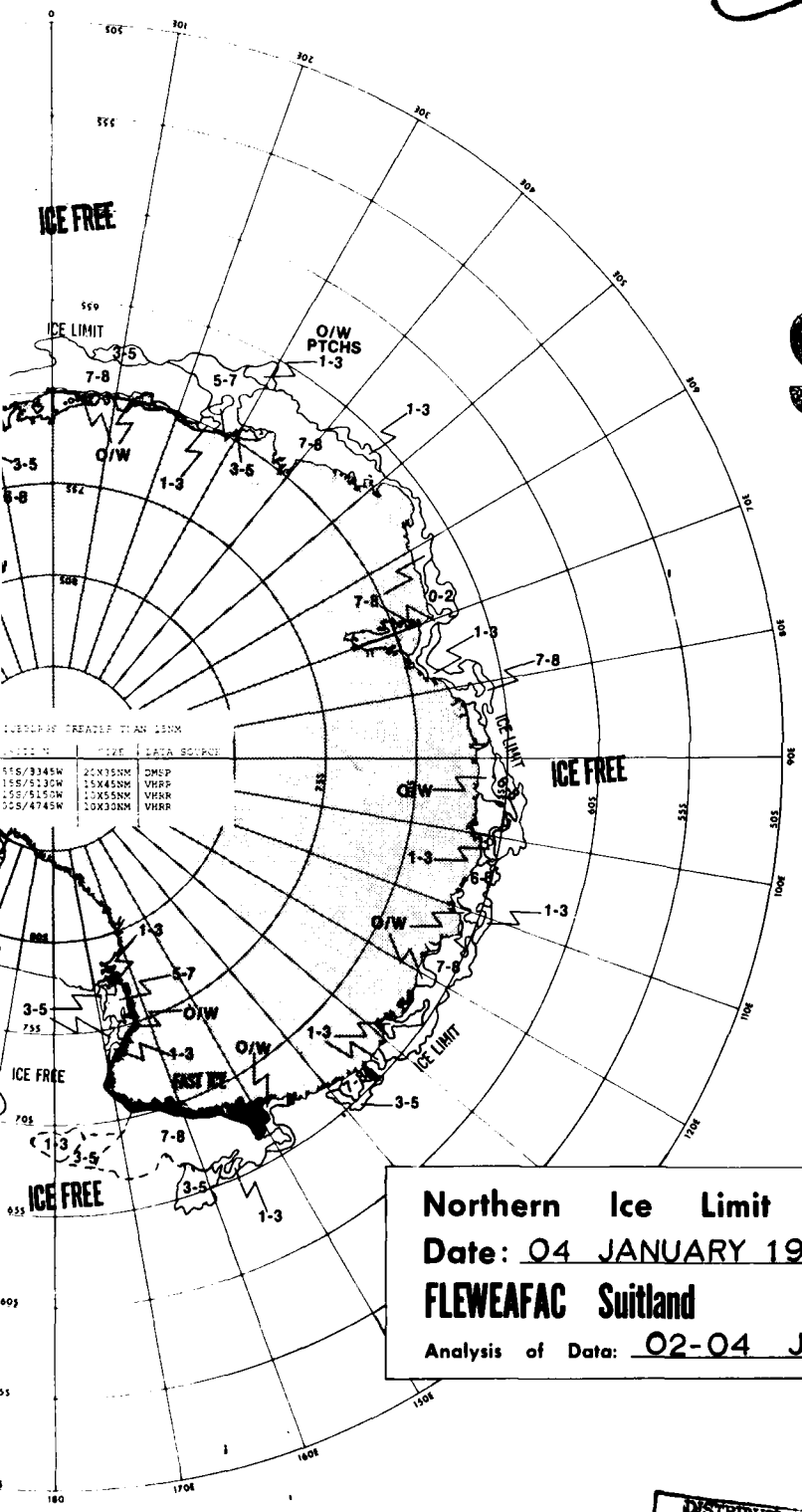
Northern Ice

Date: 04 JAN

FLEWEAFAC Suitla

Analysis of Data: O

(12)

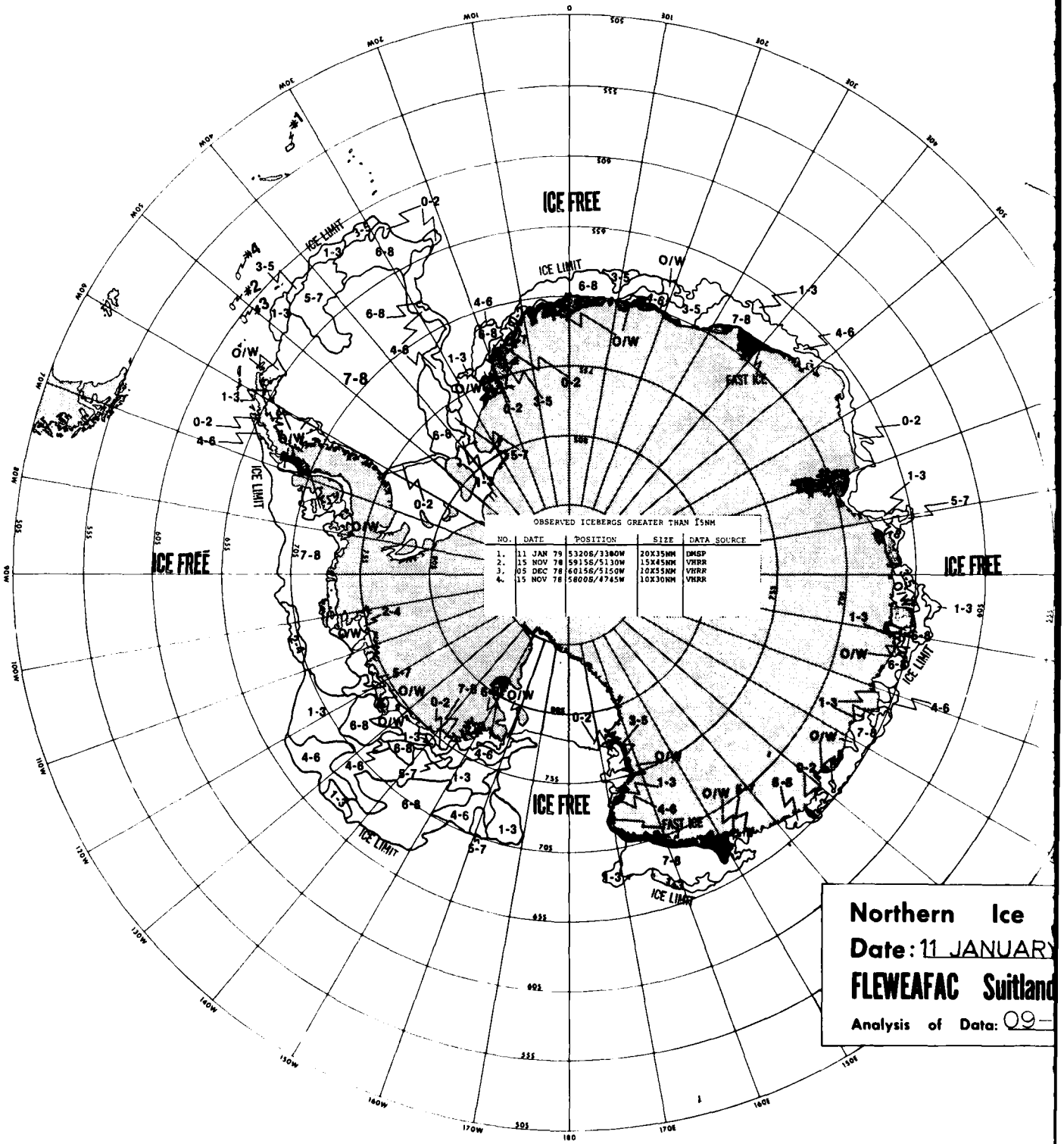


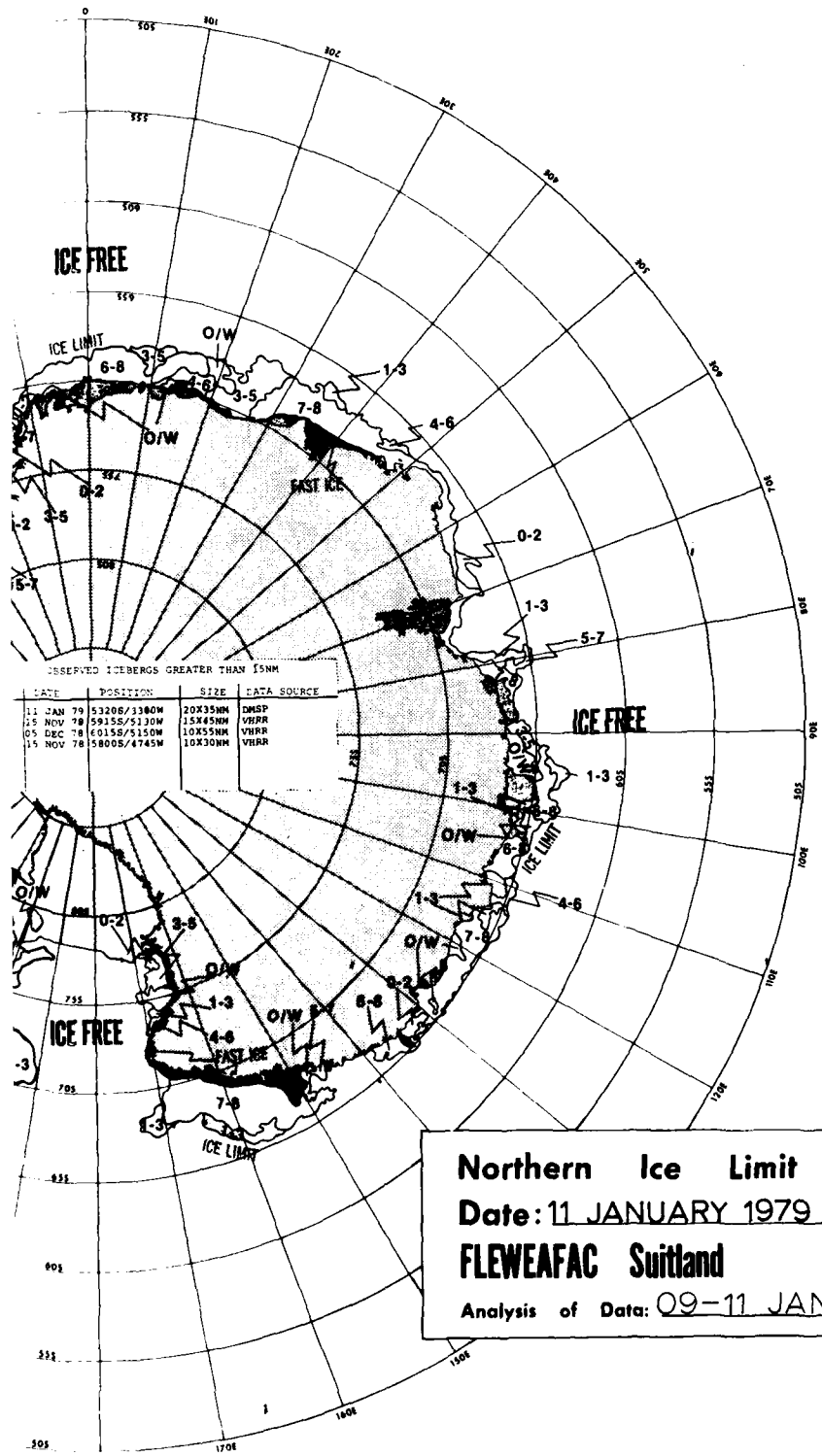
Northern Ice Limit

Date: 04 JANUARY 1979

FLEWEAFAC Suitland

Analysis of Data: 02-04 JAN


ICE FREE
ICE FREE
ICE FREE
ICE FREE
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
FAST ICE
FAST ICE
O/W
0-2
1-3
3-5
4-6
5-7
6-8
7-8
#1
#2
#3
#4
OBSERVED ICEBERGS GREATER THAN 15NM
NO. DATE POSITION SIZE DATA SOURCE
1. 11 JAN 79 53208/3380W 20X35NM OMSP
2. 15 NOV 78 59158/5130W 15X45NM VHRR
3. 05 DEC 78 60156/5150W 20X55NM VHRR
4. 15 NOV 78 58005/4745W 10X30NM VHRR
Northern Ice
Date: 11 JANUARY
FLEWEAFAC Suitland
Analysis of Data: 09-



OBSERVED ICEBERGS GREATER THAN 15NM

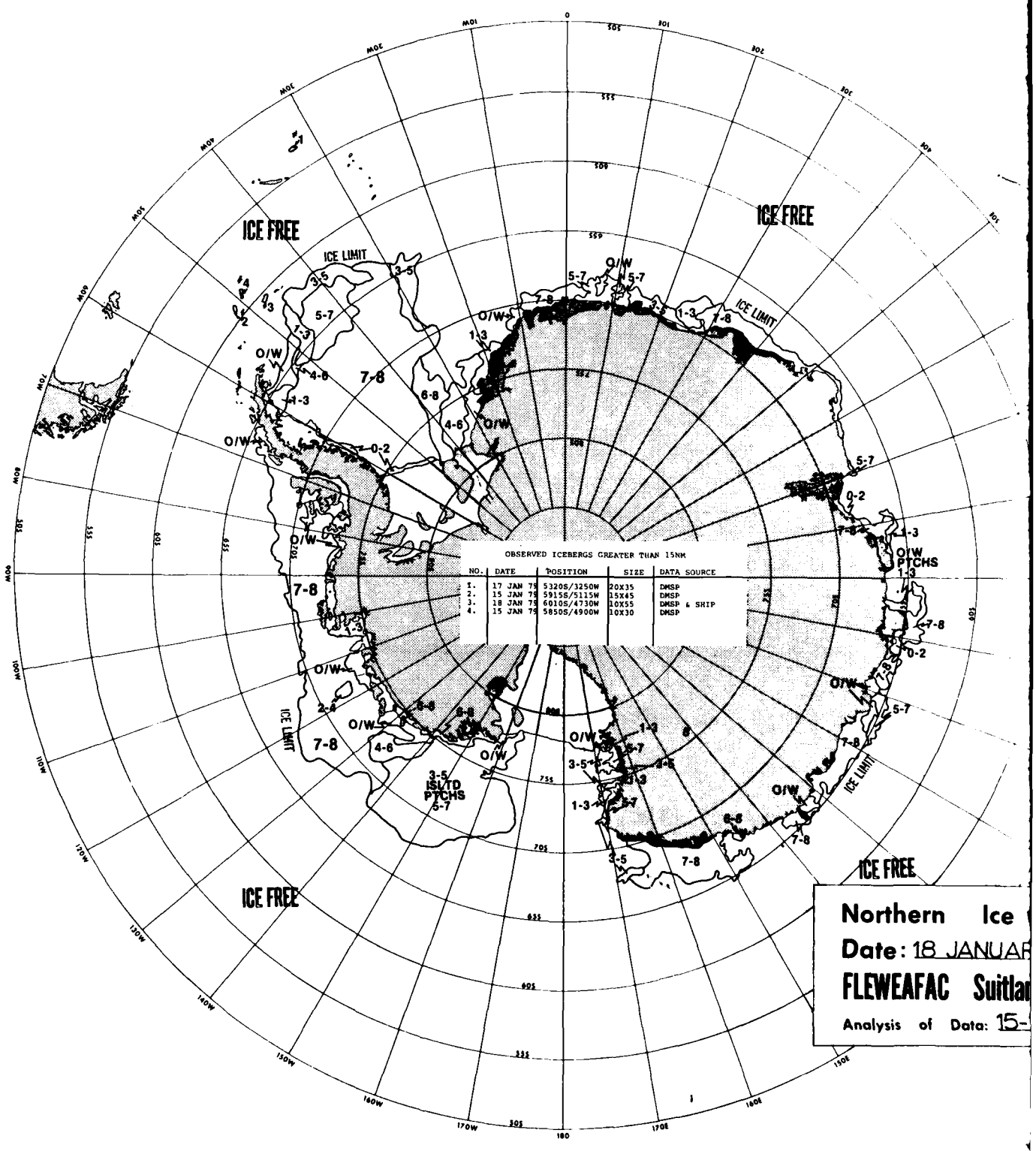
DATE	POSITION	SIZE	DATA SOURCE
11 JAN 79	5320S/3300W	20X35NM	DMSP
25 NOV 78	5915S/5130W	15X45NM	VHRR
05 DEC 78	6015S/5150W	10X55NM	VHRR
15 NOV 78	5800S/4745W	10X30NM	VHRR

Northern Ice Limit

Date: 11 JANUARY 1979

FLEWEAFAC Suitland

Analysis of Data: 09-11 JAN 79

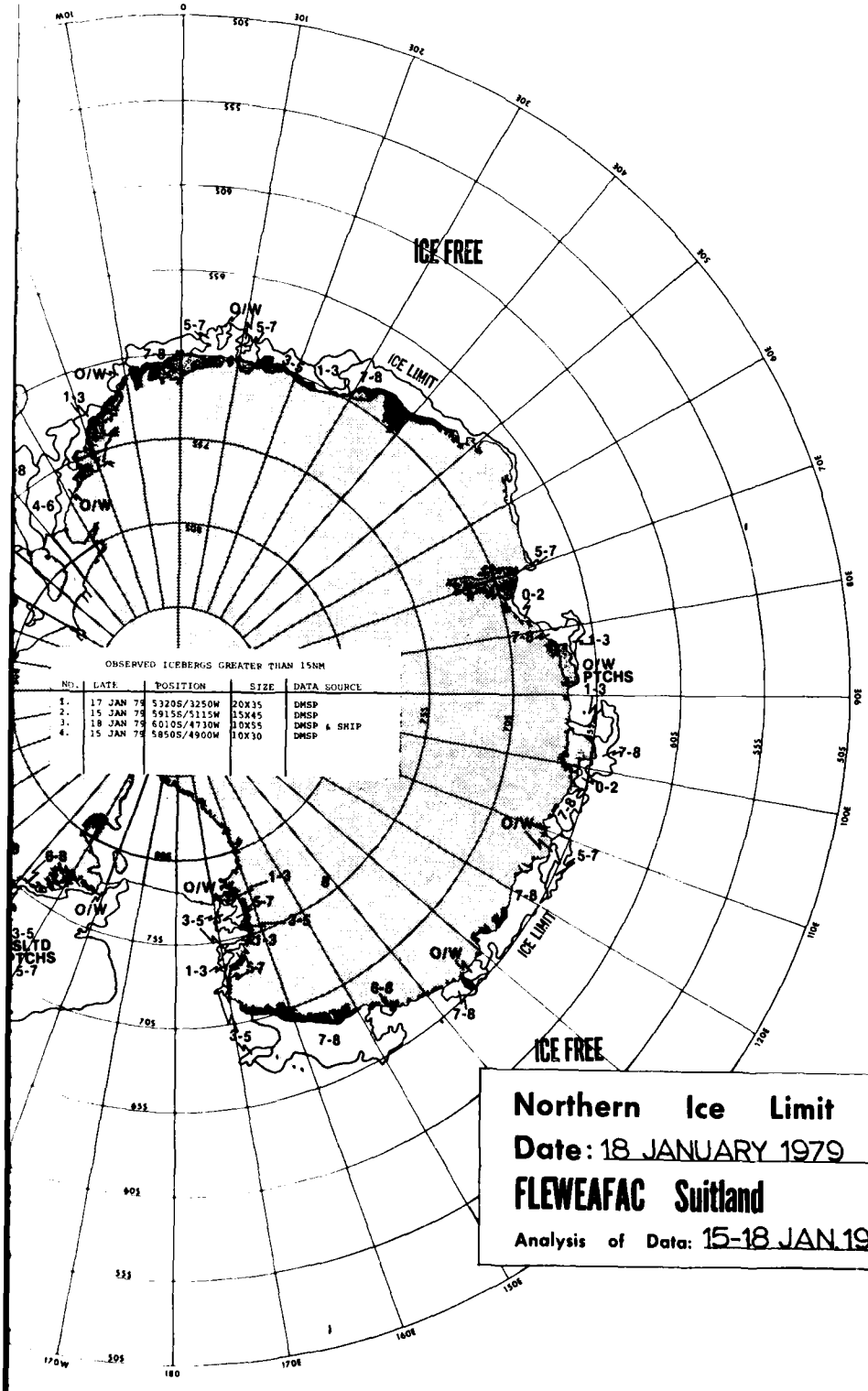


Northern Ice

Date: 18 JANUAR

FLEWEAFAC Suitlan

Analysis of Data: 15-



OBSERVED ICEBERGS GREATER THAN 15NM

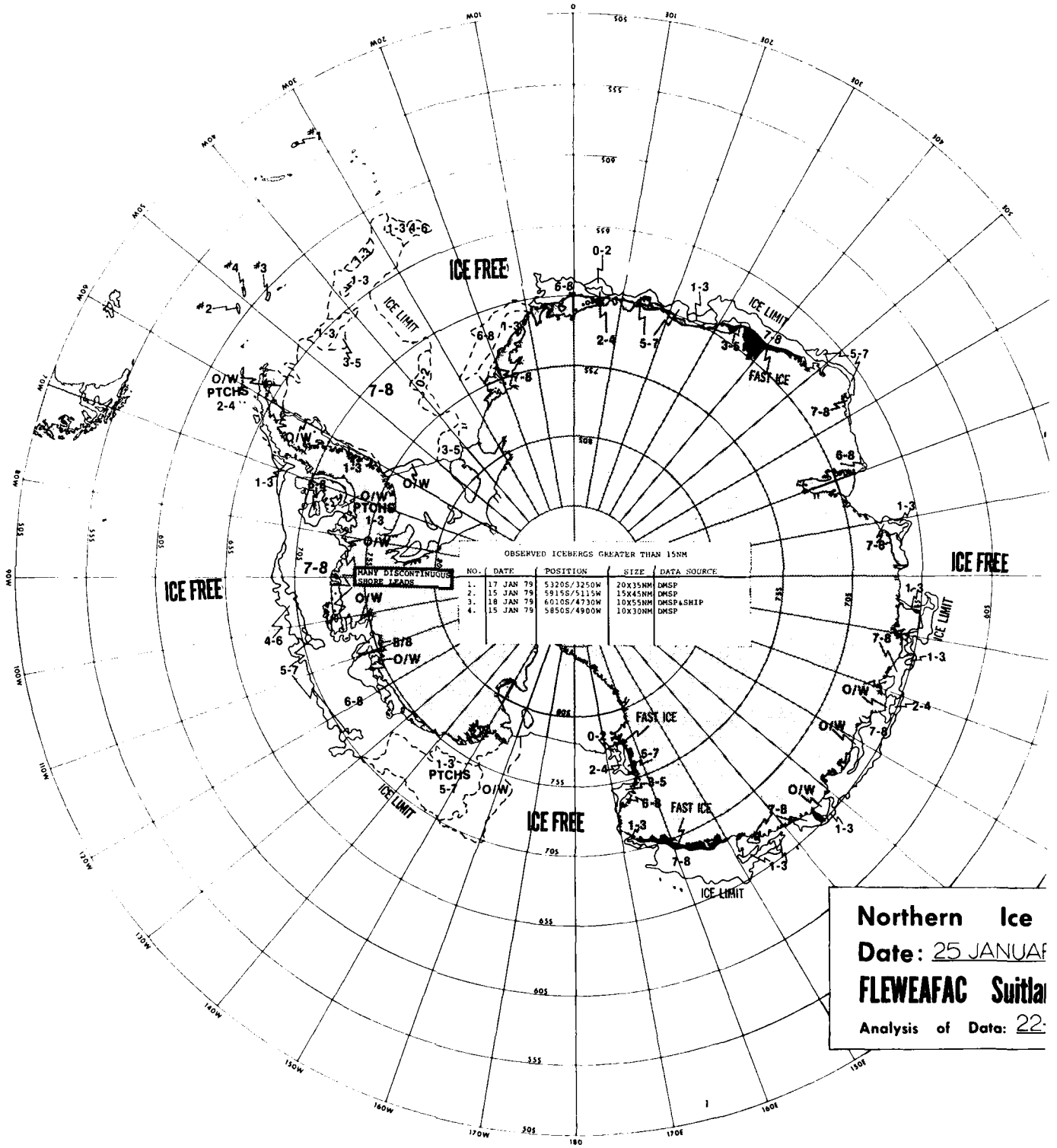
NO.	DATE	POSITION	SIZE	DATA SOURCE
1.	17 JAN 79	5320S/3250W	20X35	DMSP
2.	15 JAN 79	5915S/5115W	15X45	DMSP
3.	18 JAN 79	6010S/4730W	10X55	DMSP & SHIP
4.	15 JAN 79	5850S/4900W	10X30	DMSP

Northern Ice Limit

Date: 18 JANUARY 1979

FLEWEAFAC Suitland

Analysis of Data: 15-18 JAN 1979

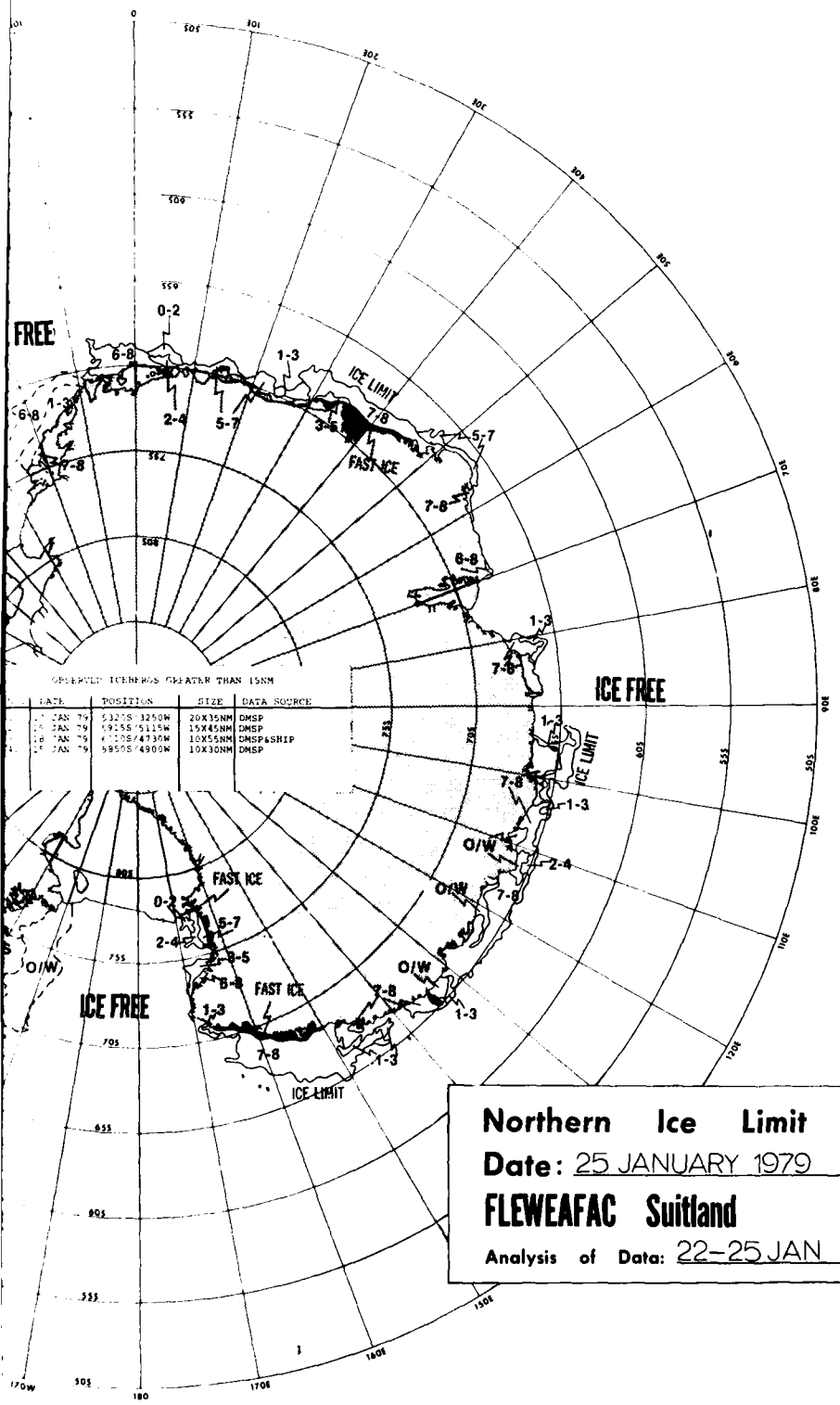


Northern Ice

Date: 25 JANUAF

FLEWEAFAC Suitla

Analysis of Data: 22



OBSERVED ICEBERGS GREATER THAN 15NM

DATE	POSITION	SIZE	DATA SOURCE
JAN 79	6320S/3250W	20X35NM	DMSP
JAN 79	6955S/5115W	15X45NM	DMSP
JAN 79	6110S/4730W	10X55NM	DMSP&SHIP
JAN 79	5850S/4900W	10X30NM	DMSP

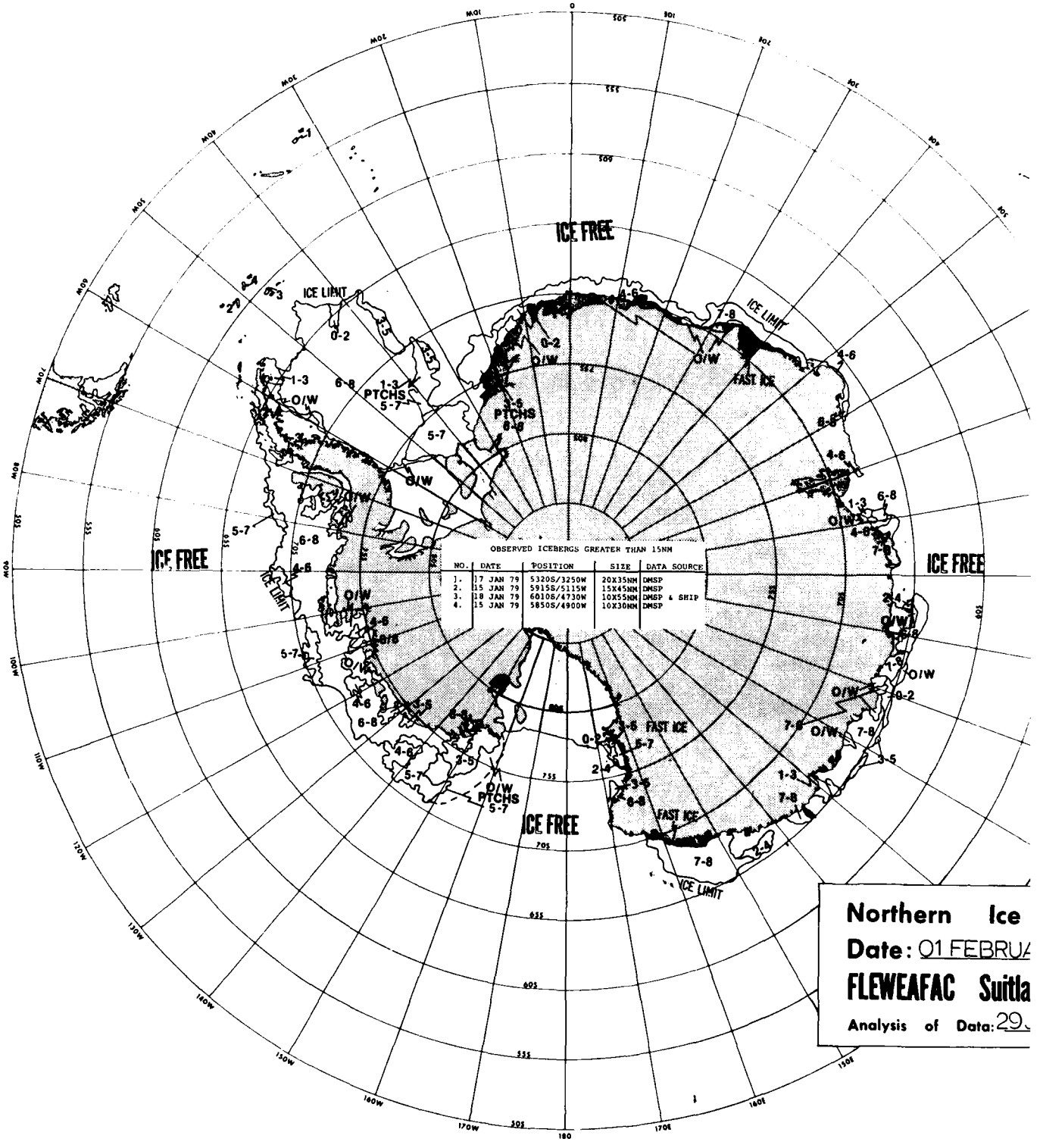
Northern Ice Limit

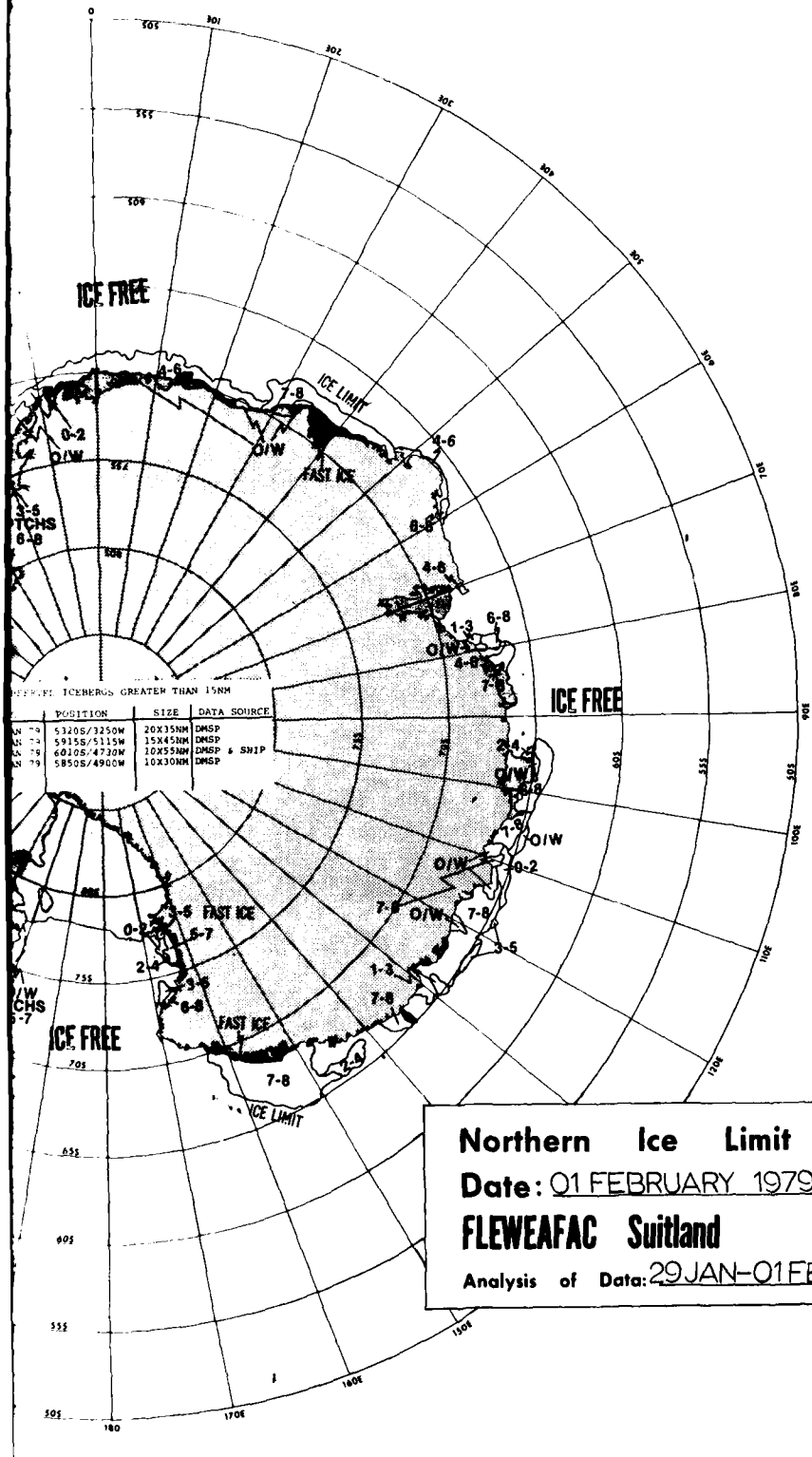
Date: 25 JANUARY 1979

FLEWEAFAC Suitland

Analysis of Data: 22-25 JAN 79

2


ICE FREE
ICE LIMIT
FAST ICE
PTCHS
O/W
OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
1. | 17 JAN 79 | 5320S/3250W | 20X35NM | DMSP
2. | 15 JAN 79 | 5915S/5115W | 15X45NM | DMSP
3. | 18 JAN 79 | 6010S/4730W | 10X55NM | DMSP & SHIP
4. | 15 JAN 79 | 5850S/4900W | 10X30NM | DMSP
Northern Ice
Date: 01 FEBRU
FLEWEAFAC Suitla
Analysis of Data: 29



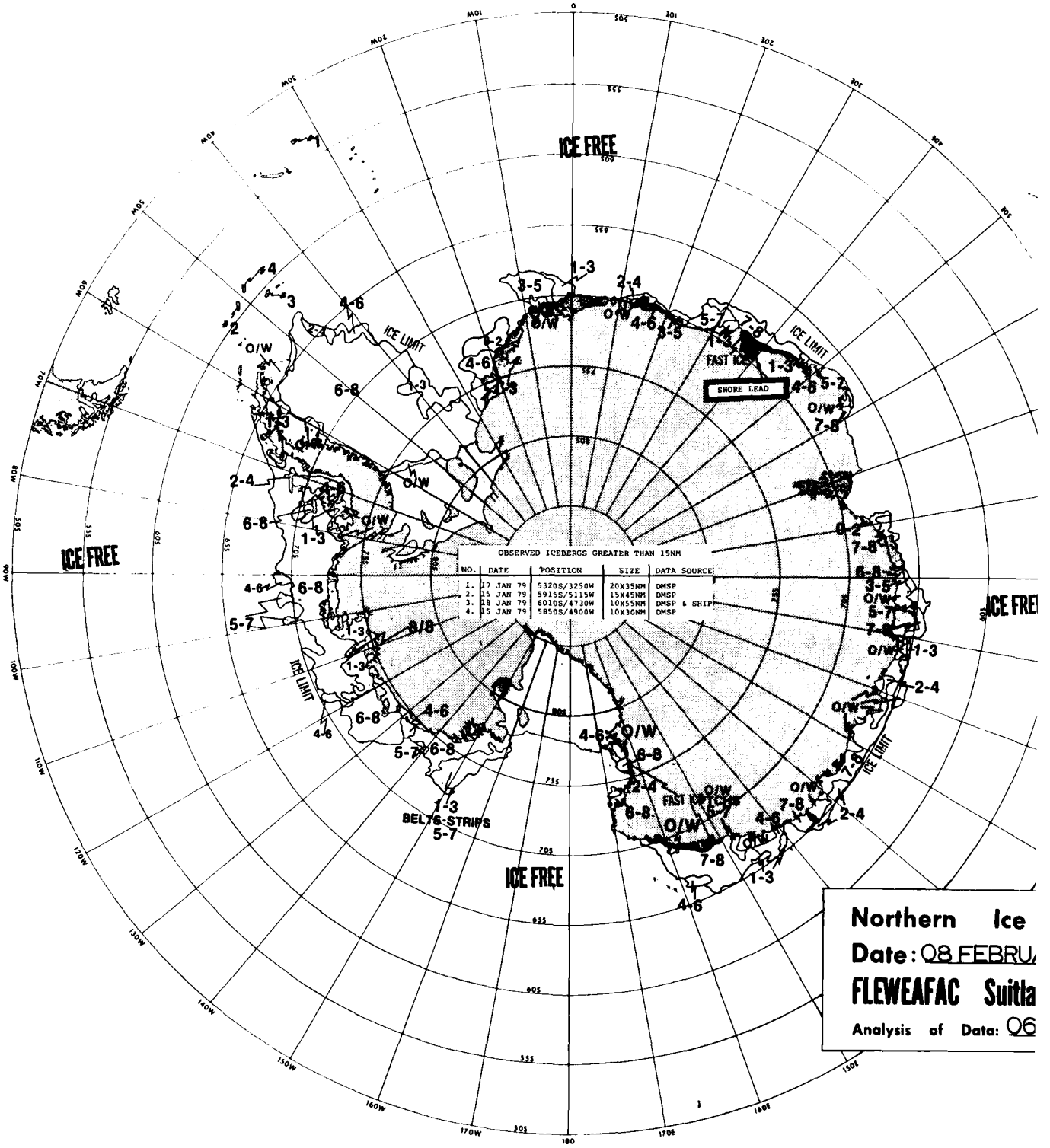
Northern Ice Limit

Date: 01 FEBRUARY 1979

FLEWEAFAC Suitland

Analysis of Data: 29 JAN-01 FEB 79

2

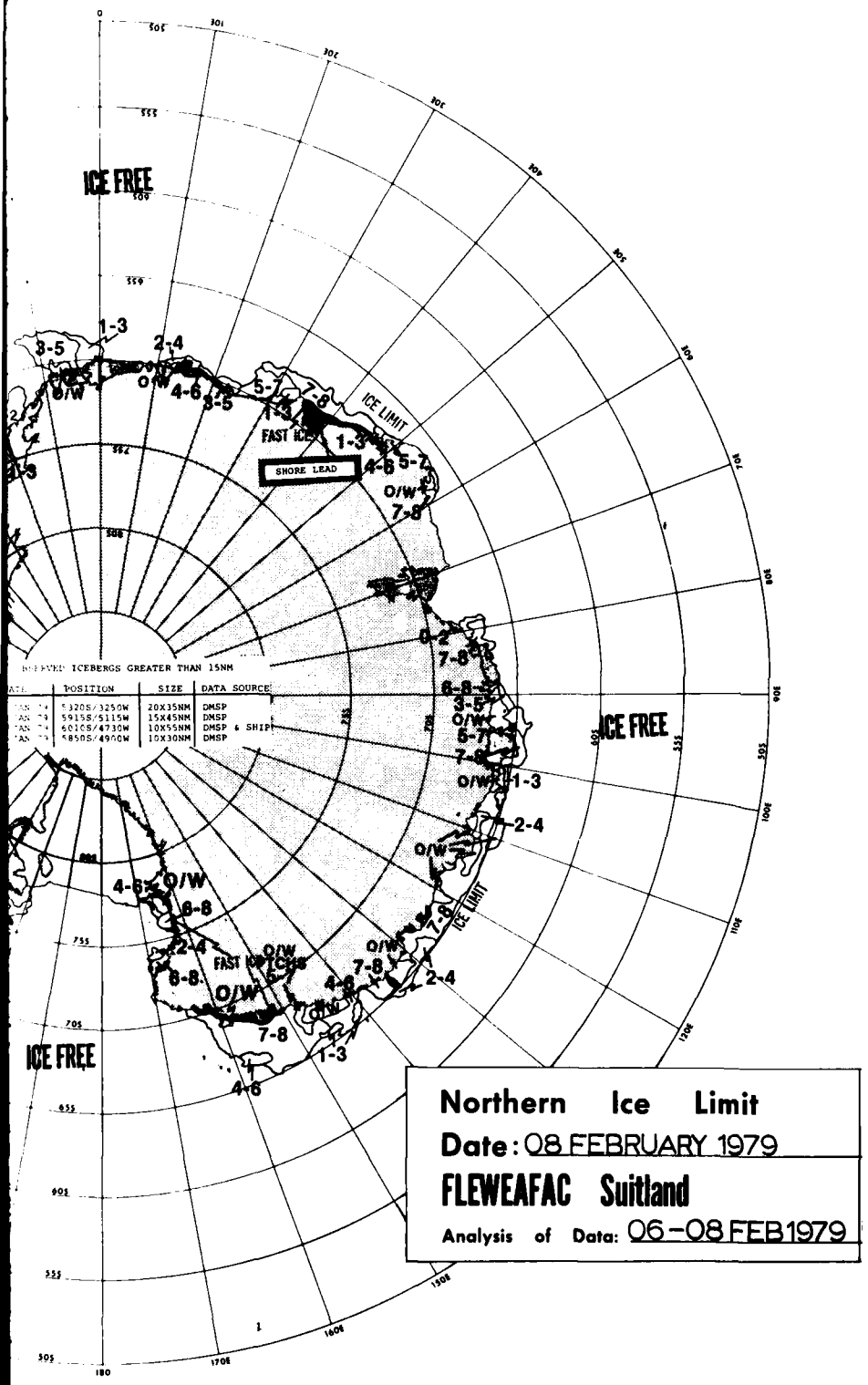


Northern Ice

Date: 08 FEBRU

FLEWEAFAC Suitla

Analysis of Data: 06

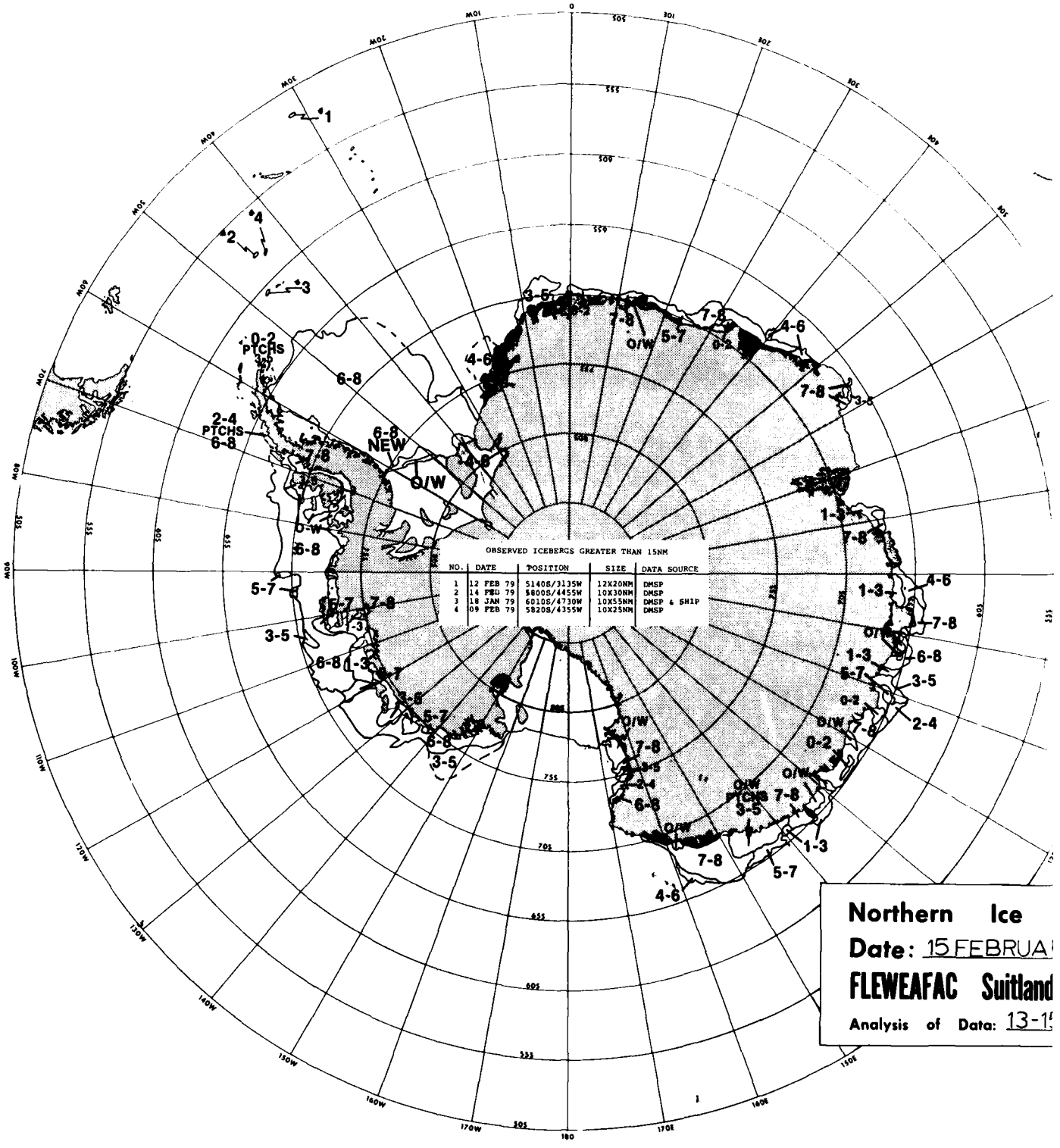


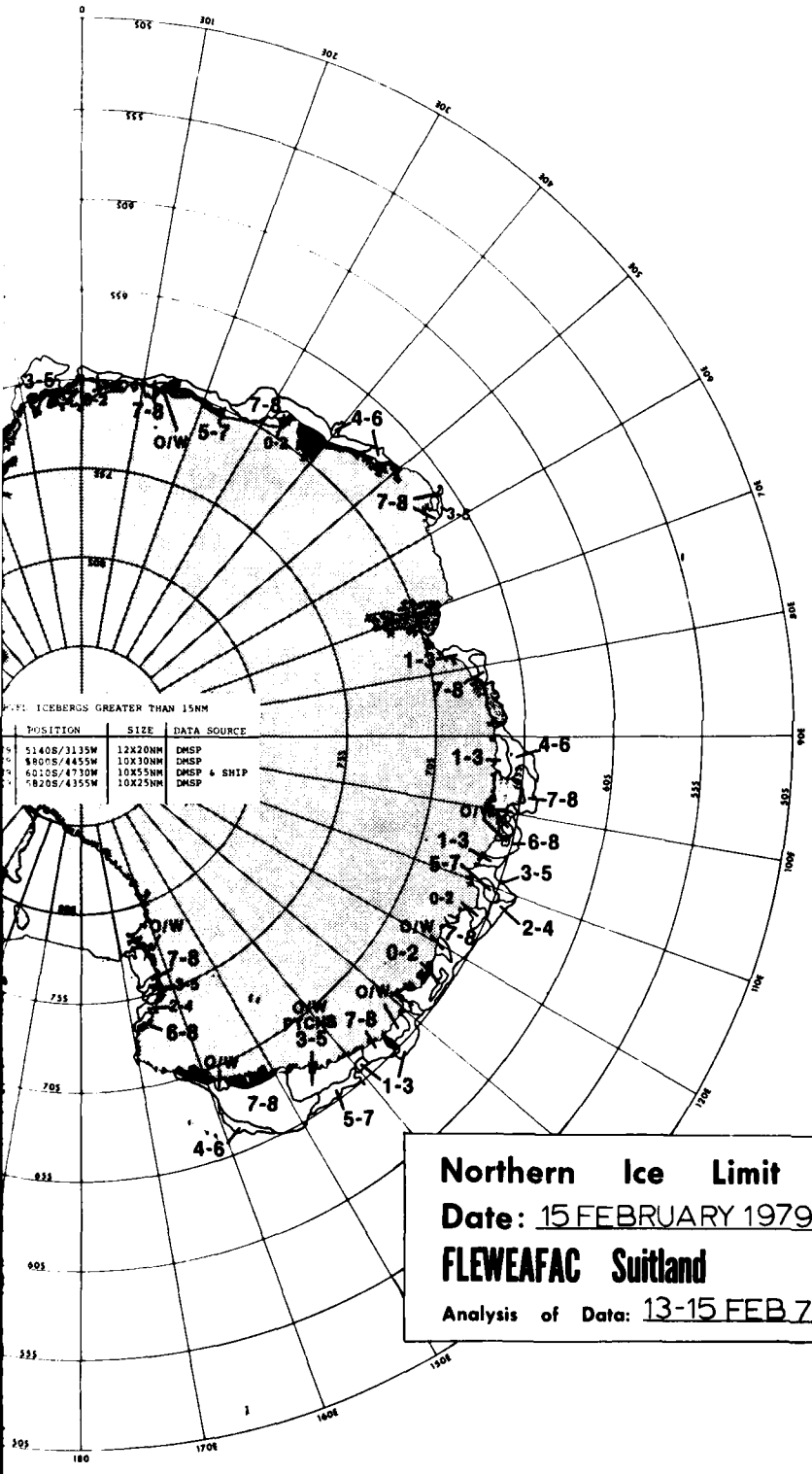
Northern Ice Limit

Date: 08 FEBRUARY 1979

FLEWEAFAC Suitland

Analysis of Data: 06-08 FEB 1979


OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
1 | 12 FEB 79 | 5140S/3135W | 12X20NM | DMSP
2 | 14 FEB 79 | 5800S/4455W | 10X30NM | DMSP
3 | 18 JAN 79 | 6010S/4730W | 10X55NM | DMSP & SHIP
4 | 09 FEB 79 | 5820S/4355W | 10X25NM | DMSP
Northern Ice
Date: 15 FEBRUA
FLEWEAFAC Suitland
Analysis of Data: 13-1

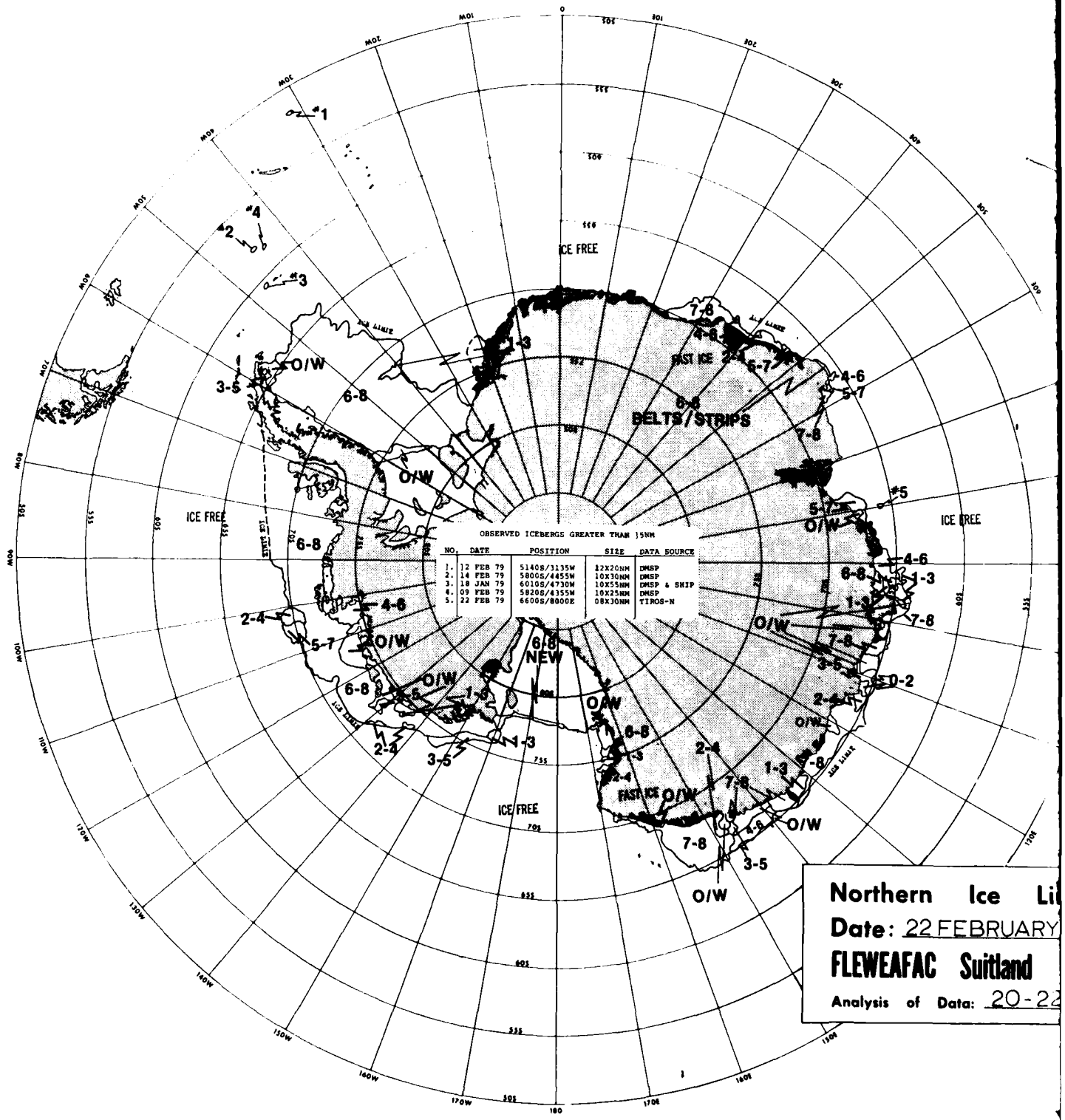


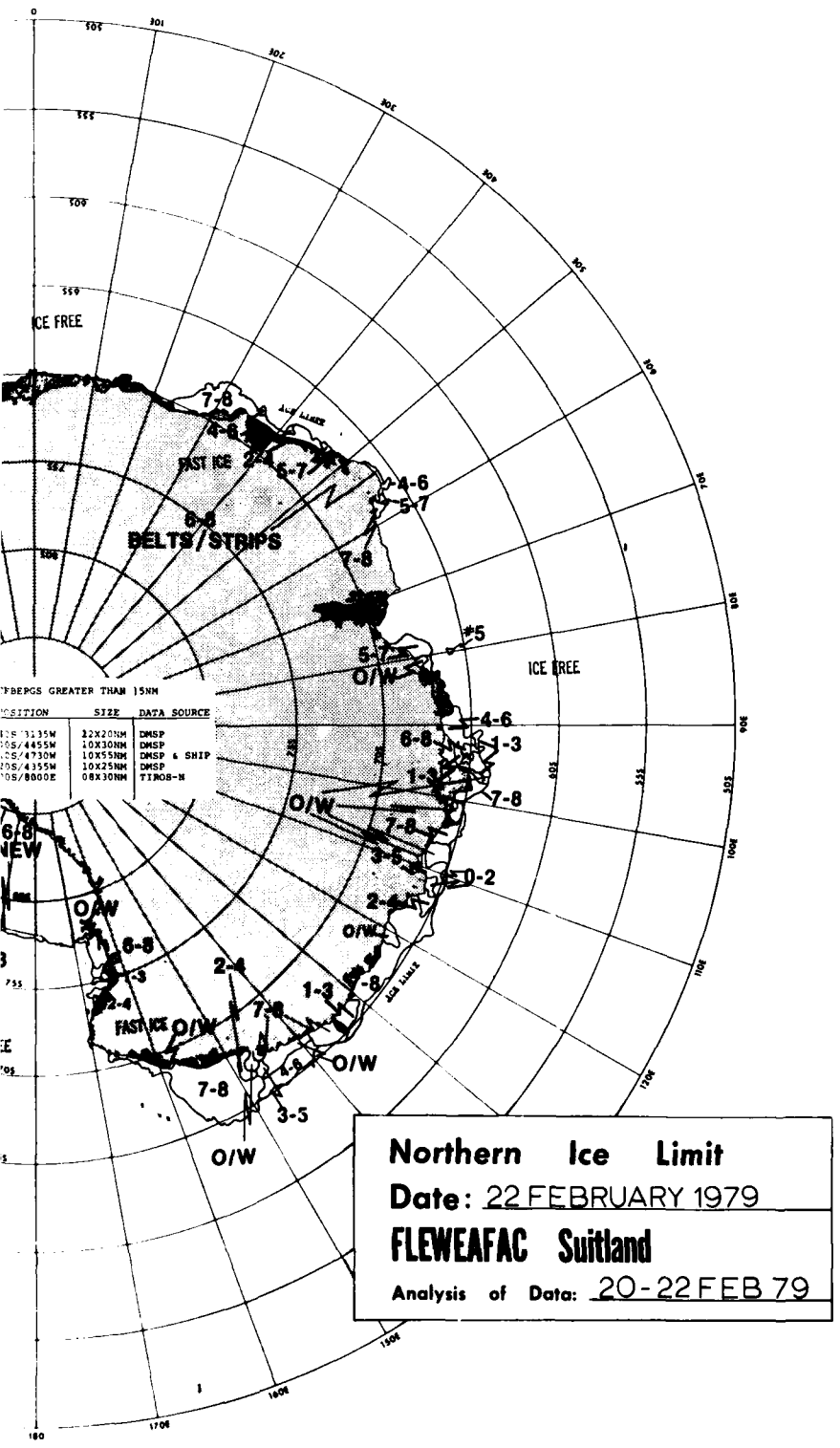
Northern Ice Limit

Date: 15 FEBRUARY 1979

FLEWEAFAC Suitland

Analysis of Data: 13-15 FEB 79


ICE FREE
FAST ICE
BELTS/STRIPS
NEW
O/W
ICE FREE
ICE FREE
ICE FREE
FAST ICE
O/W
O/W
O/W
O/W
O/W
O/W
O/W
O/W
O/W
O/W
O/W
#1
#2
#3
#4
#5
7-8
4-6
5-7
6-8
3-5
2-4
1-3
0-2
1-8
2-4
3-5
7-8
4-6
5-7
6-8
1-3
7-8
0-2
2-4
1-8
3-5
6-8
2-4
1-3
7-8
3-5
4-6
5-7
6-8
2-4
1-3
7-8
3-5
6-8
1-3
2-4
3-5
6-8
1-3
2-4
7-8
3-5
OBSERVED ICEBERGS GREATER THAN 15NM
NO. DATE POSITION SIZE DATA SOURCE
1. 12 FEB 79 5140S/3135W 12X20NM DMSP
2. 14 FEB 79 5800S/4455W 10X30NM DMSP
3. 18 JAN 79 6010S/4730W 10X55NM DMSP & SHIP
4. 09 FEB 79 5820S/4355W 10X25NM DMSP
5. 22 FEB 79 6600S/8000E 08X30NM TIROS-N
Northern Ice Li
Date: 22 FEBRUARY
FLEWEAFAC Suitland
Analysis of Data: 20-22



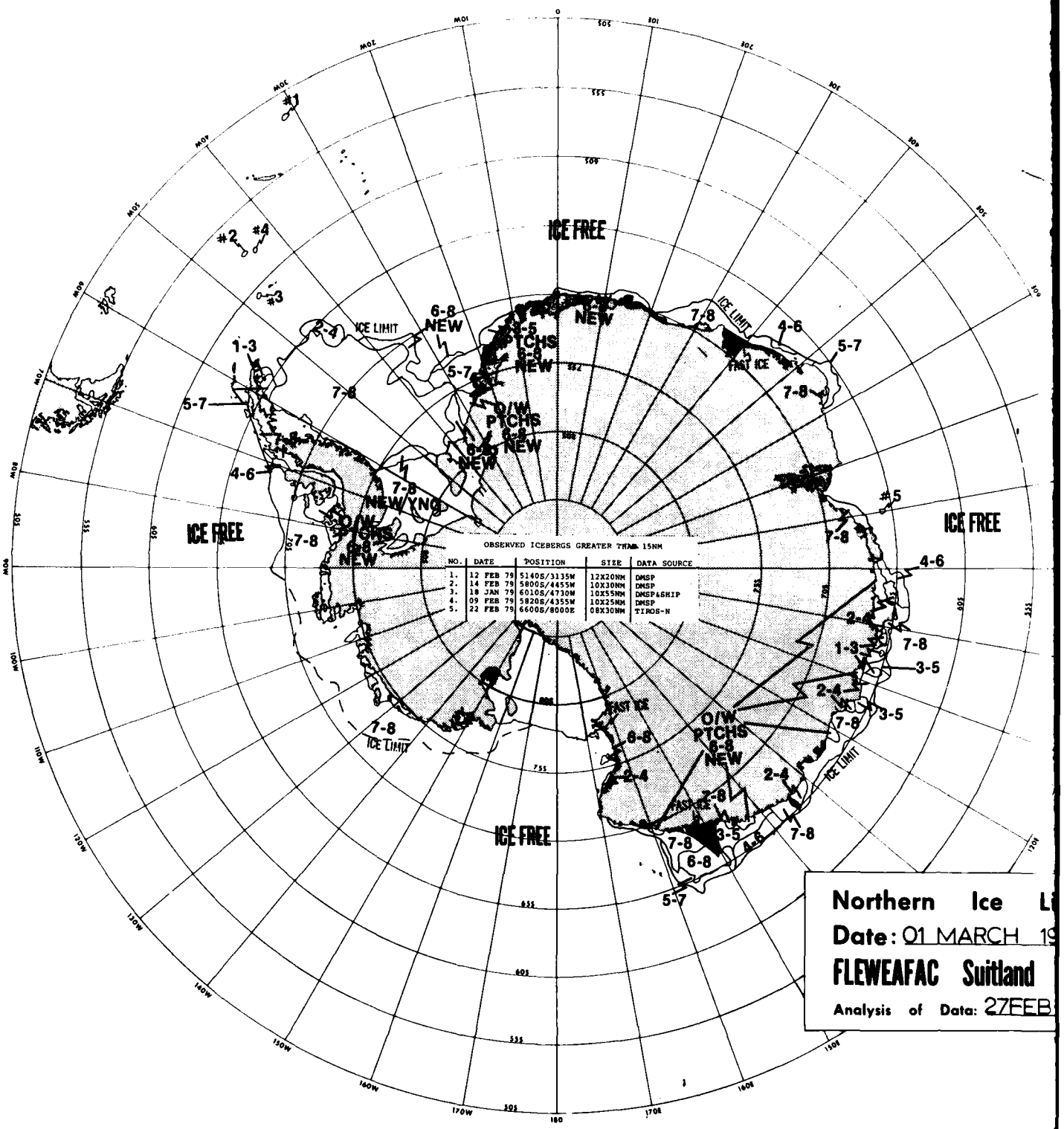
Northern Ice Limit

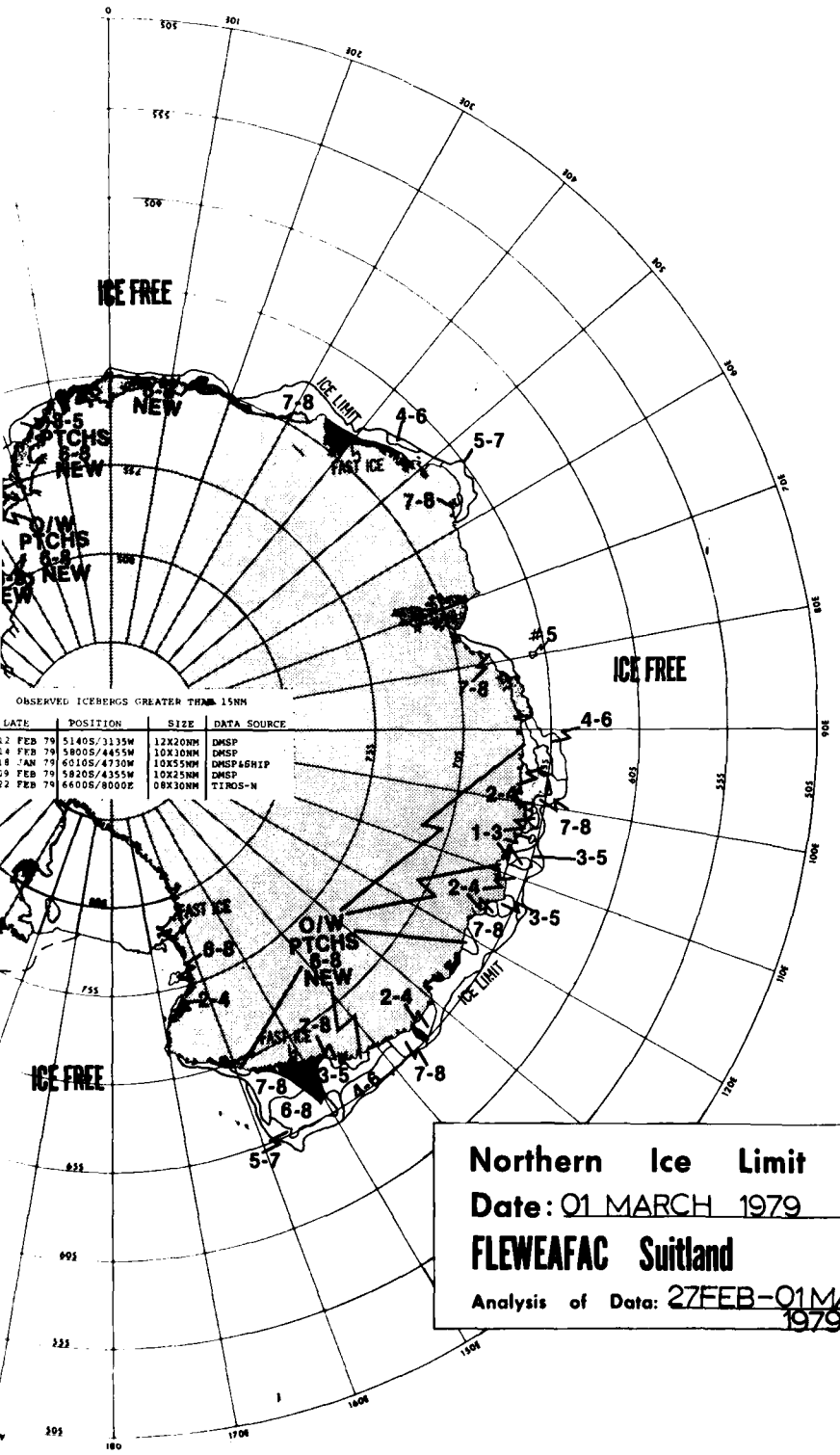
Date: 22 FEBRUARY 1979

FLEWEAFAC Suitland

Analysis of Data: 20-22 FEB 79

2


ICE FREE
ICE FREE
ICE FREE
ICE FREE
ICE LIMIT
ICE LIMIT
ICE LIMIT
FAST ICE
FAST ICE
NEW
O/W PTCHS 6-8 NEW
7-8 NEW/YNG
#1
#2
#3
#4
#5
1-3
2-4
3-5
4-6
5-7
6-8
7-8
OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
1. 12 FEB 79 5140S/3135W 12X20NM DMSP
2. 14 FEB 79 5800S/4455W 10X30NM DMSP
3. 18 JAN 79 6010S/4730W 10X55NM DMSP&SHIP
4. 09 FEB 79 5820S/4355W 10X25NM DMSP
5. 22 FEB 79 6600S/8000E 08X30NM TIROS-N
Northern Ice L
Date: 01 MARCH 19
FLEWEAFAC Suitland
Analysis of Data: 27FEB

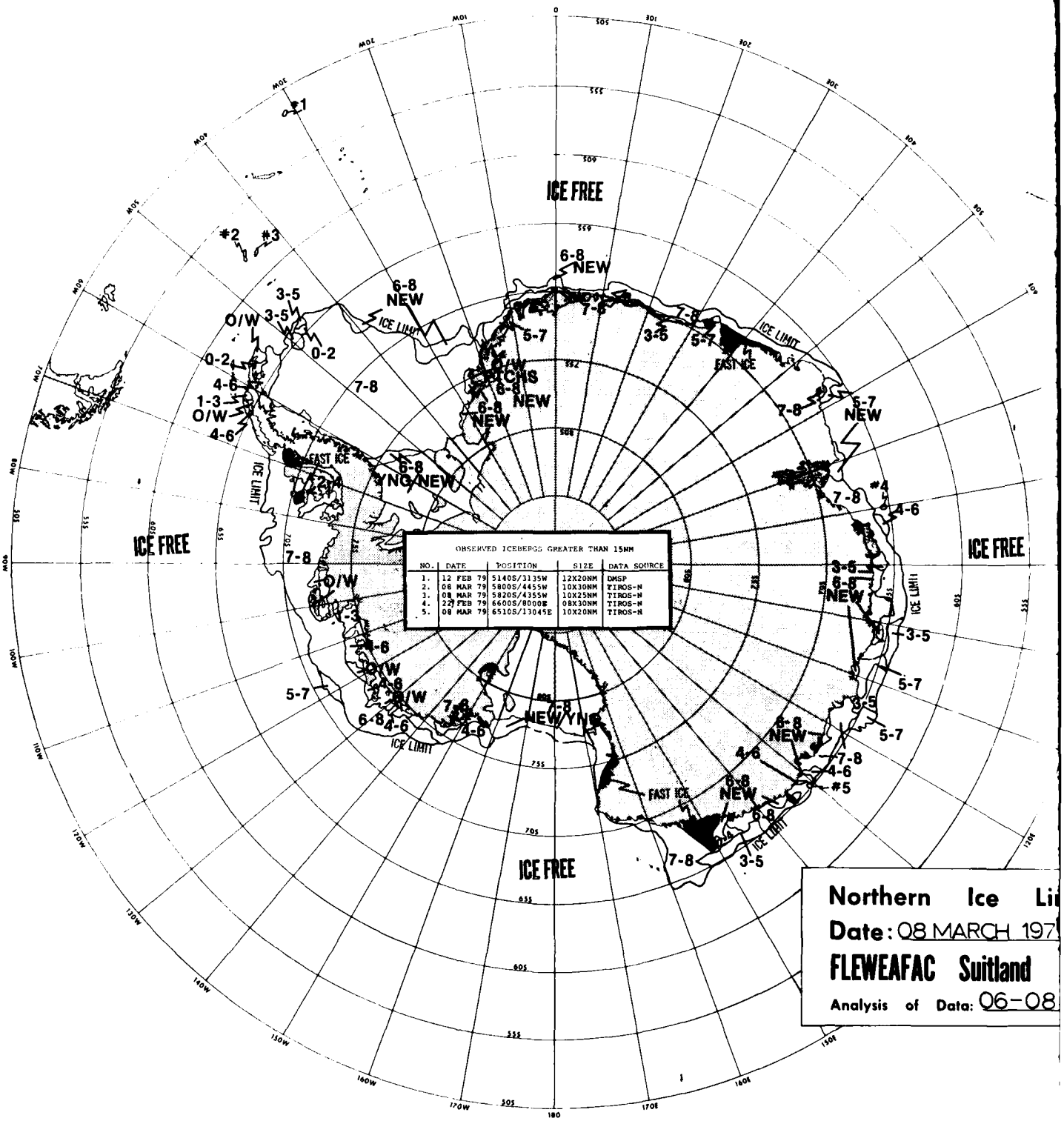


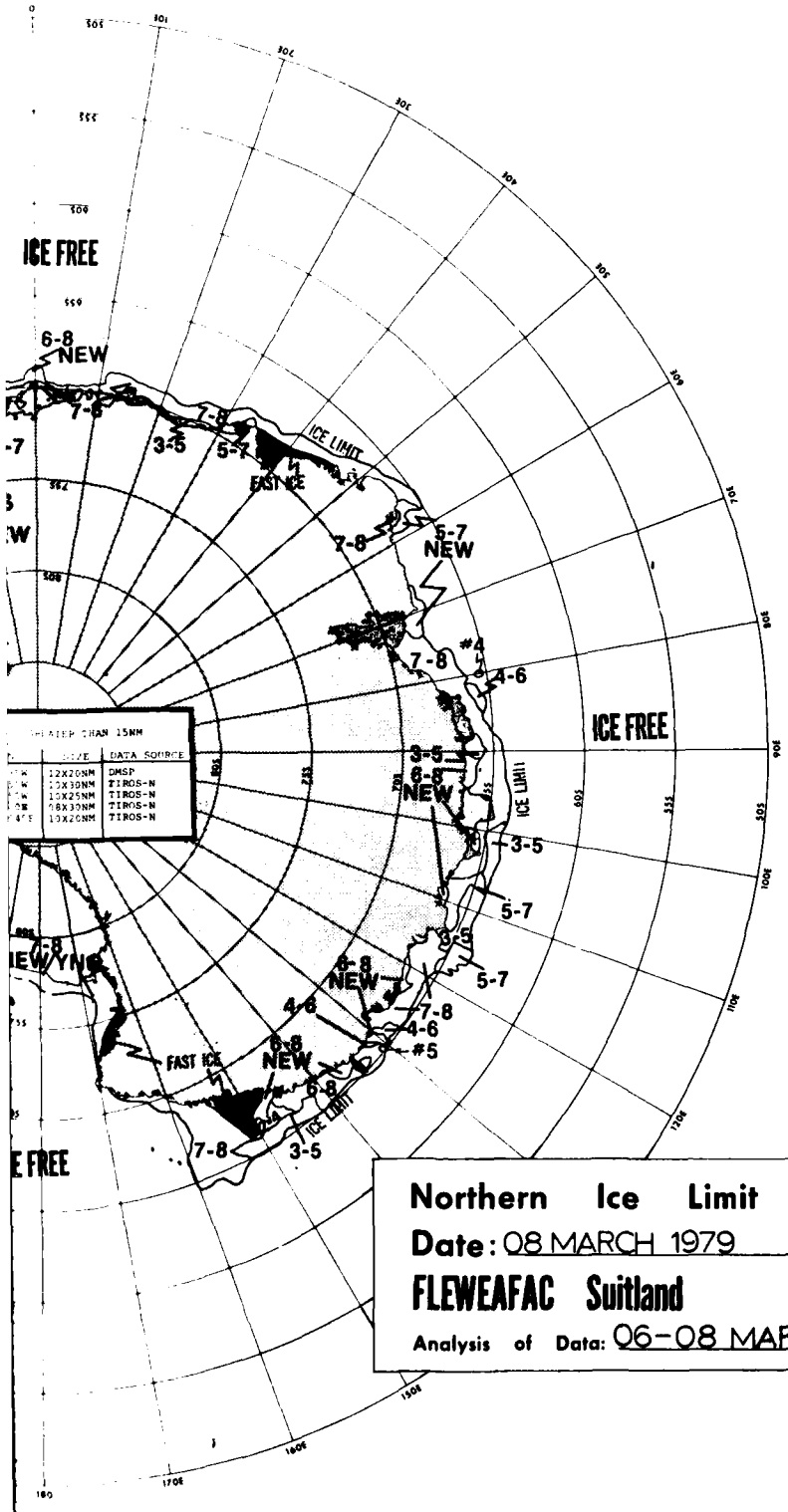
Northern Ice Limit

Date: 01 MARCH 1979

FLEWEAFAC Suitland

Analysis of Data: 27FEB-01MAR 1979


ICE FREE
ICE FREE
ICE FREE
ICE FREE
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
FAST ICE
FAST ICE
#1
#2
#3
#4
#5
6-8 NEW
3-5
5-7
7-8
4-6
O/W
0-2
1-3
6-8 NEW/YNG
OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
1. | 12 FEB 79 | 5140S/3135W | 12X20NM | DMSP
2. | 08 MAR 79 | 5800S/4455W | 10X30NM | TIROS-N
3. | 08 MAR 79 | 5820S/4355W | 10X25NM | TIROS-N
4. | 22 FEB 79 | 6600S/8000E | 08X30NM | TIROS-N
5. | 08 MAR 79 | 6510S/13045E | 10X20NM | TIROS-N
Northern Ice Li
Date: 08 MARCH 197
FLEWEAFAC Suitland
Analysis of Data: 06-08

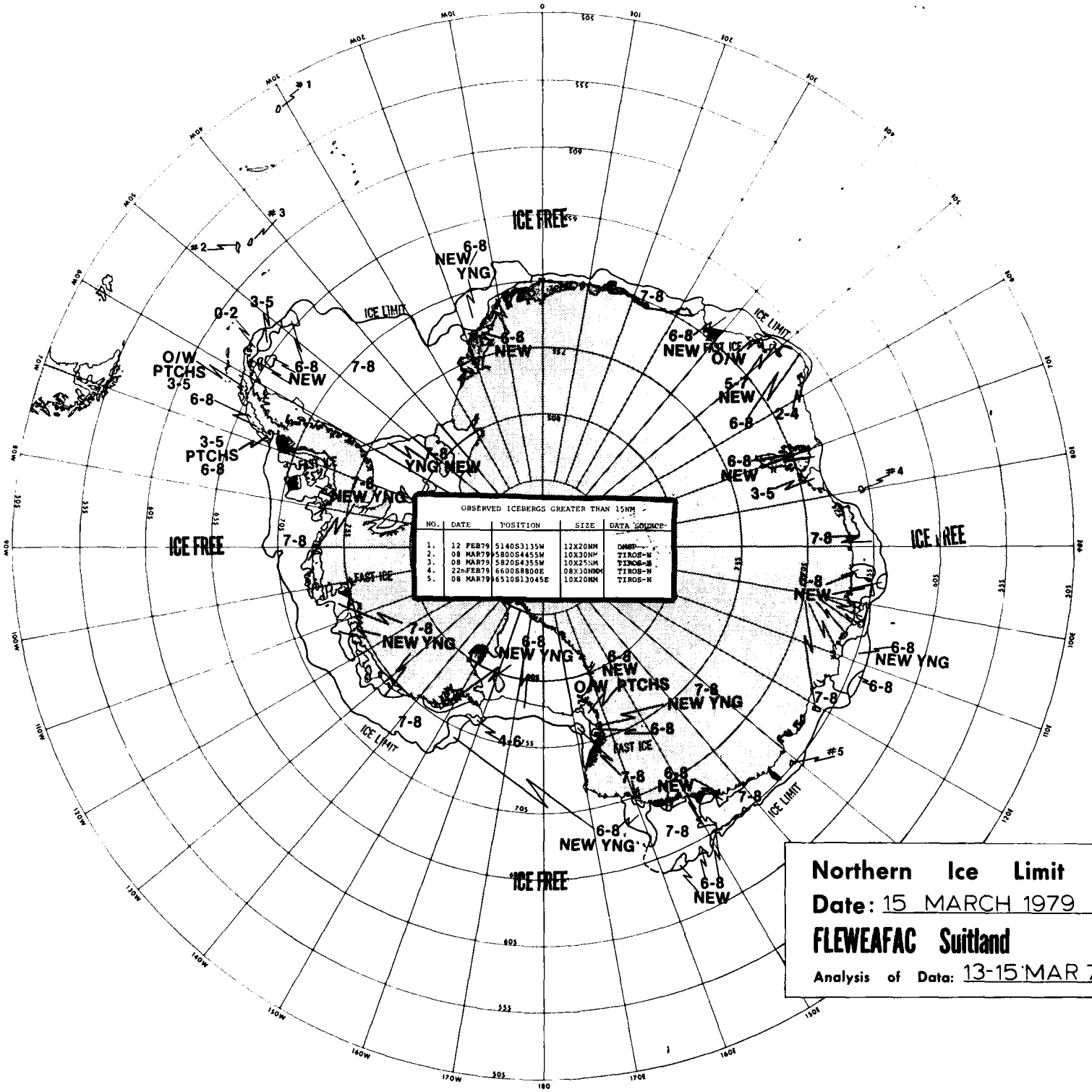


Northern Ice Limit

Date: 08 MARCH 1979

FLEWEAFAC Suitland

Analysis of Data: 06-08 MAR1979



OBSERVED ICEBERGS GREATER THAN 15NM

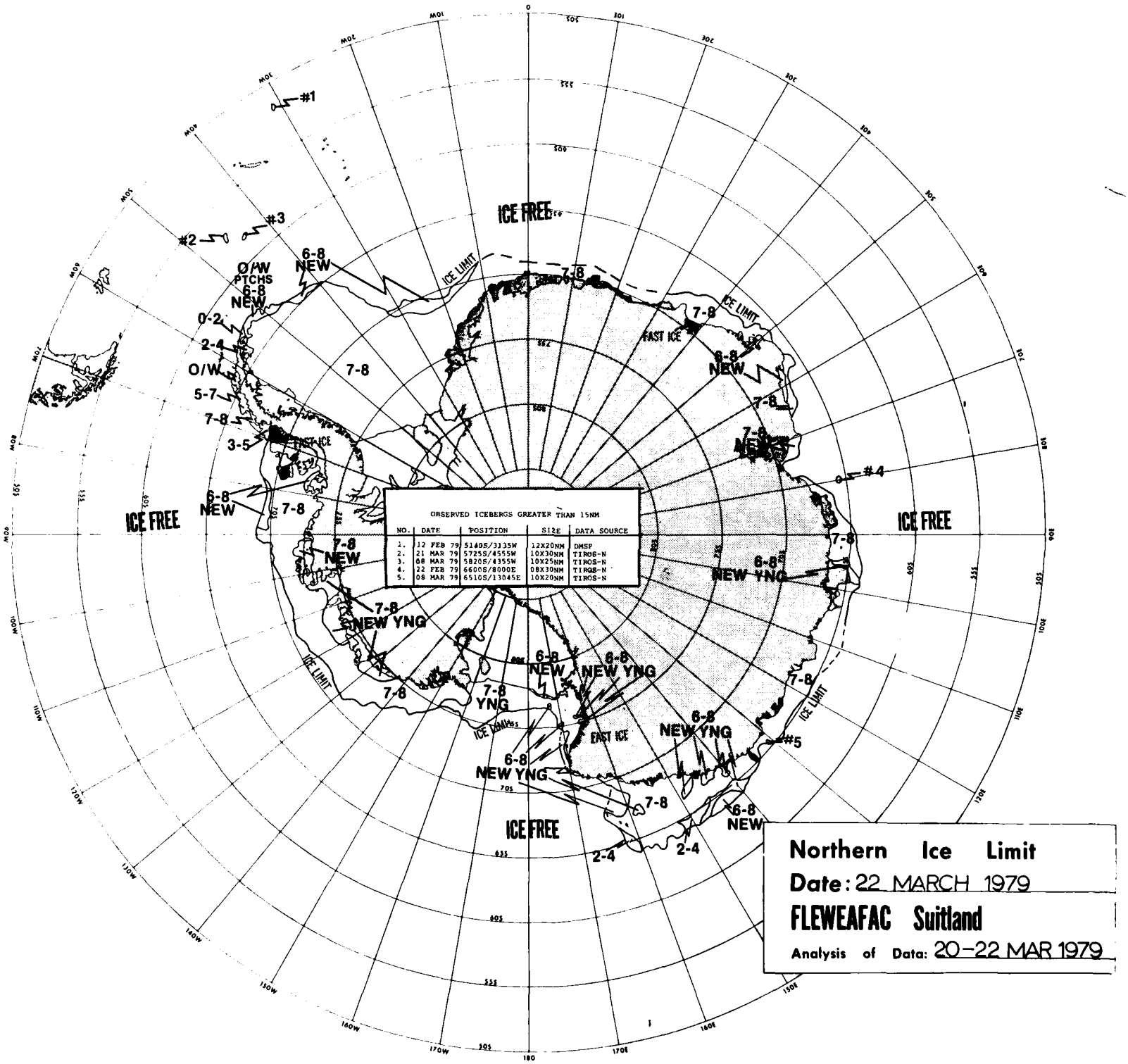
NO.	DATE	POSITION	SIZE	DATA SOURCE
1.	12 FEB79	5140S3135W	12X20NM	DMSP
2.	08 MAR79	5800S4455W	10X30NM	TIROS-N
3.	08 MAR79	5820S4355W	10X25NM	TIROS-N
4.	22nFEB79	6600S8800E	08X30NMM	TIROS-N
5.	08 MAR79	6510S13045E	10X20NM	TIROS-N

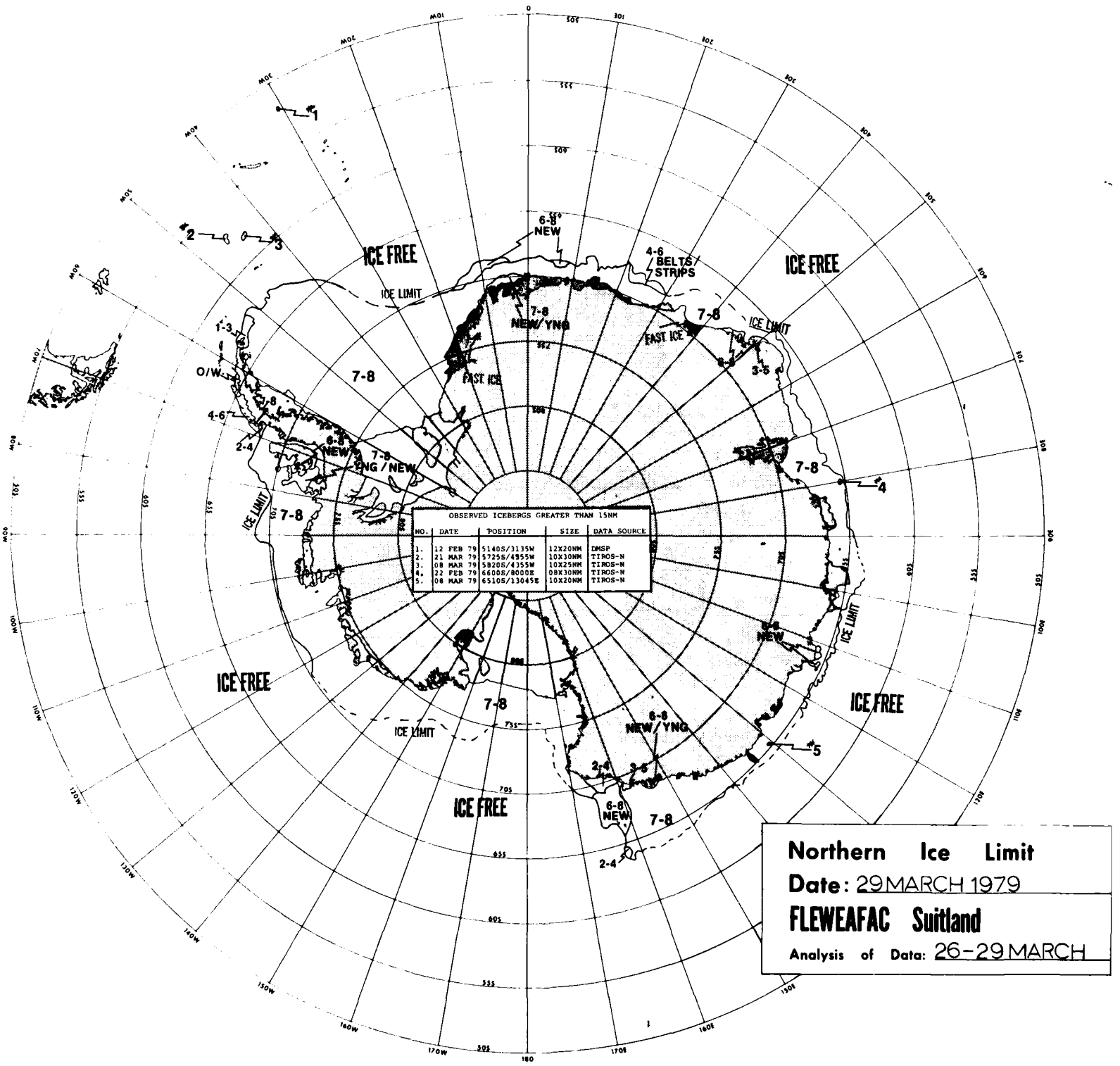
Northern Ice Limit

Date: 15 MARCH 1979

FLEWEAFAC Suitland

Analysis of Data: 13-15 MAR 79


#1
#2
#3
#4
#5
ICE FREE
ICE FREE
ICE FREE
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
FAST ICE
FAST ICE
FAST ICE
6-8 NEW
O/W PTCHS
6-8 NEW
0-2
2-4
O/W
5-7
7-8
3-5
7-8
6-8 NEW
7-8
7-8
7-8
7-8
7-8
7-8
6-8 NEW
7-8
7-8
7-8
7-8 NEW
7-8 NEW YNG
7-8
7-8 YNG
6-8 NEW
6-8 NEW YNG
6-8 NEW YNG
6-8 NEW YNG
6-8 NEW YNG
6-8 NEW YNG
7-8
6-8 NEW
2-4
2-4
OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
1. | 12 FEB 79 | 5140S/3135W | 12X20NM | DMSP
2. | 21 MAR 79 | 5725S/4555W | 10X30NM | TIROS-N
3. | 08 MAR 79 | 5820S/4355W | 10X25NM | TIROS-N
4. | 22 FEB 79 | 6600S/8000E | 08X30NM | TIROS-N
5. | 08 MAR 79 | 6510S/13045E | 10X20NM | TIROS-N
Northern Ice Limit
Date: 22 MARCH 1979
FLEWEAFAC Suitland
Analysis of Data: 20-22 MAR 1979

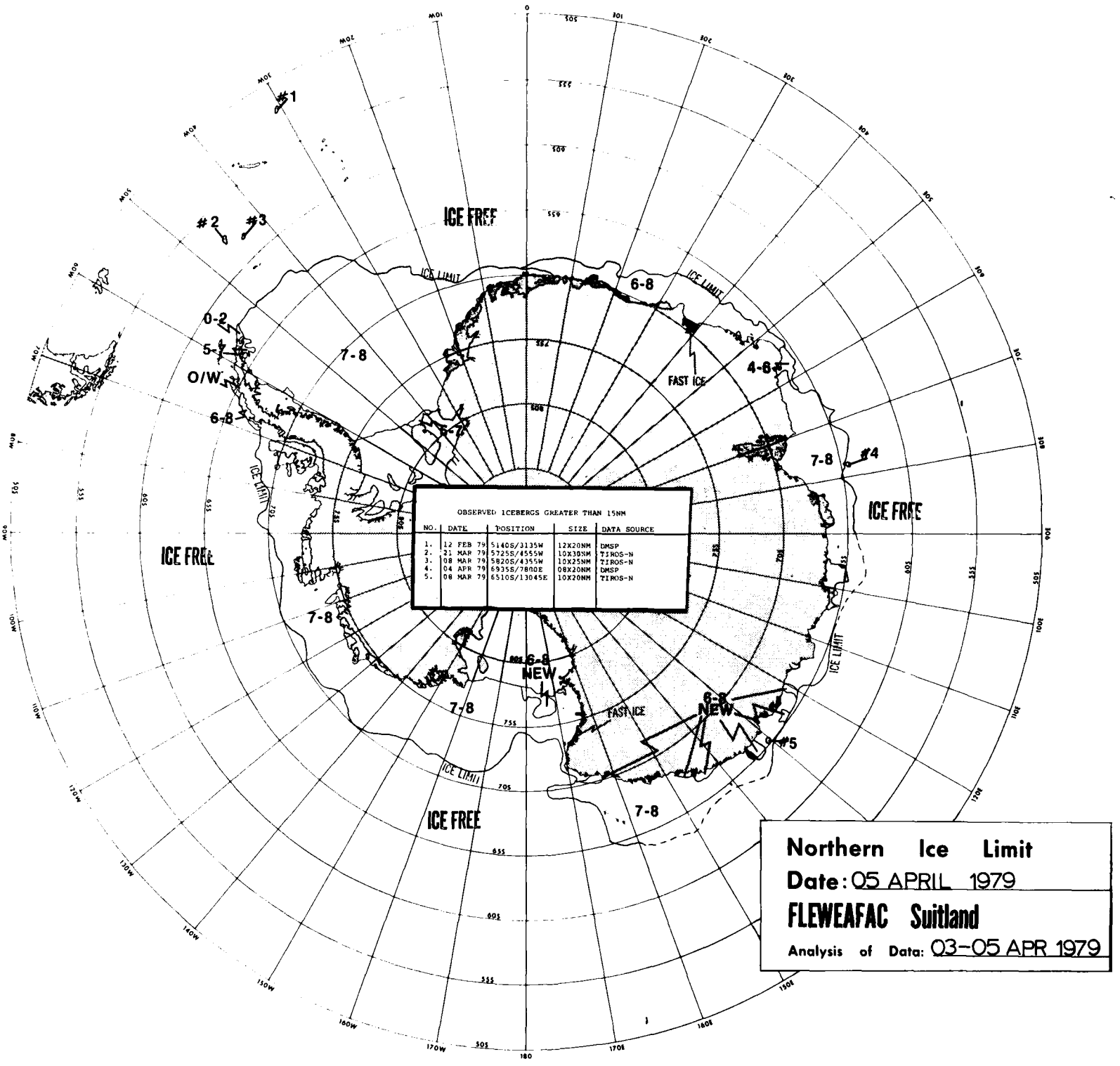


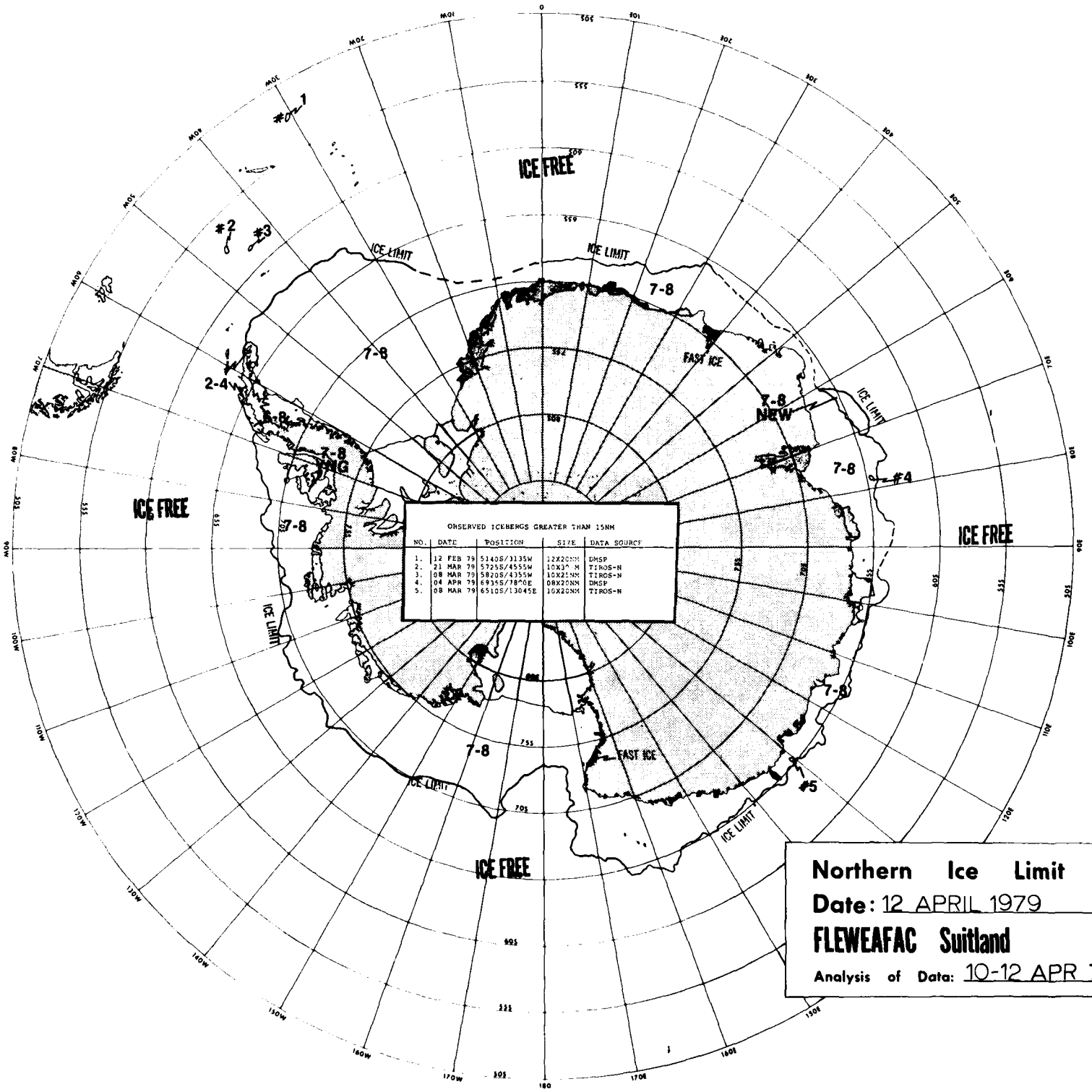
Northern Ice Limit

Date: 29 MARCH 1979

FLEWEAFAC Suitland

Analysis of Data: 26-29 MARCH


#1
#2
#3
#4
#5
ICE FREE
ICE LIMIT
6-8
7-8
0-2
5-7
O/W
4-6
FAST ICE
6-8 NEW
7-8
ICE FREE
ICE FREE
ICE FREE
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
1. | 12 FEB 79 | 5140S/3135W | 12X20NM | DMSP
2. | 21 MAR 79 | 5725S/4555W | 10X30NM | TIROS-N
3. | 08 MAR 79 | 5820S/4355W | 10X25NM | TIROS-N
4. | 04 APR 79 | 6925S/7800E | 08X20NM | DMSP
5. | 08 MAR 79 | 6510S/13045E | 10X20NM | TIROS-N
Northern Ice Limit
Date: 05 APRIL 1979
FLEWEAFAC Suitland
Analysis of Data: 03-05 APR 1979



OBSERVED ICEBERGS GREATER THAN 15NM

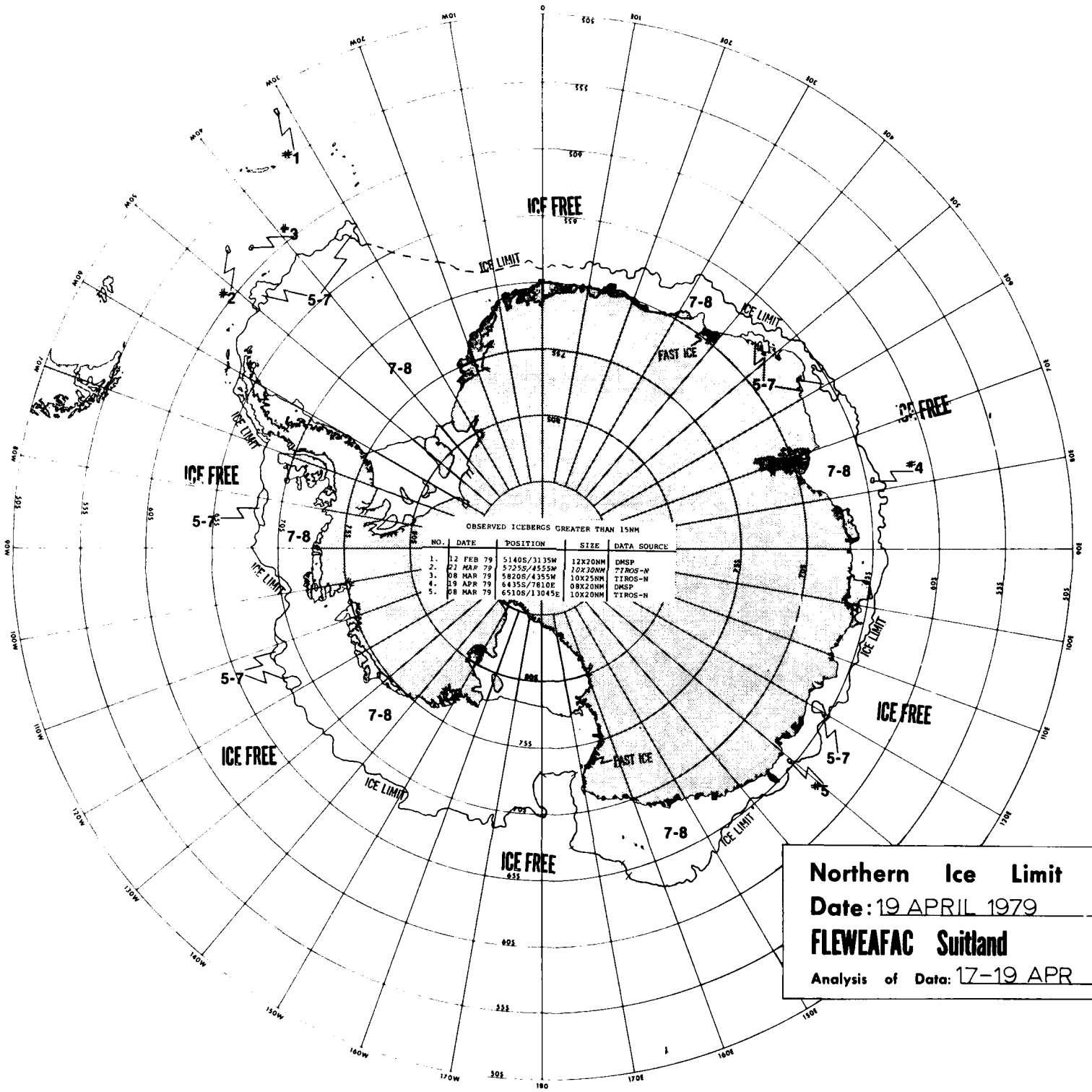
NO.	DATE	POSITION	SIZE	DATA SOURCE
1.	12 FEB 79	5140S/3135W	12X20NM	DMSP
2.	21 MAR 79	5725S/4555W	10X30 M	TIROS-N
3.	08 MAR 79	5820S/4355W	10X22NM	TIROS-N
4.	04 APR 79	6935S/7800E	08X20NM	DMSP
5.	08 MAR 79	6510S/13045E	10X20NM	TIROS-N

Northern Ice Limit

Date: 12 APRIL 1979

FLEWEAFAC Suitland

Analysis of Data: 10-12 APR 79

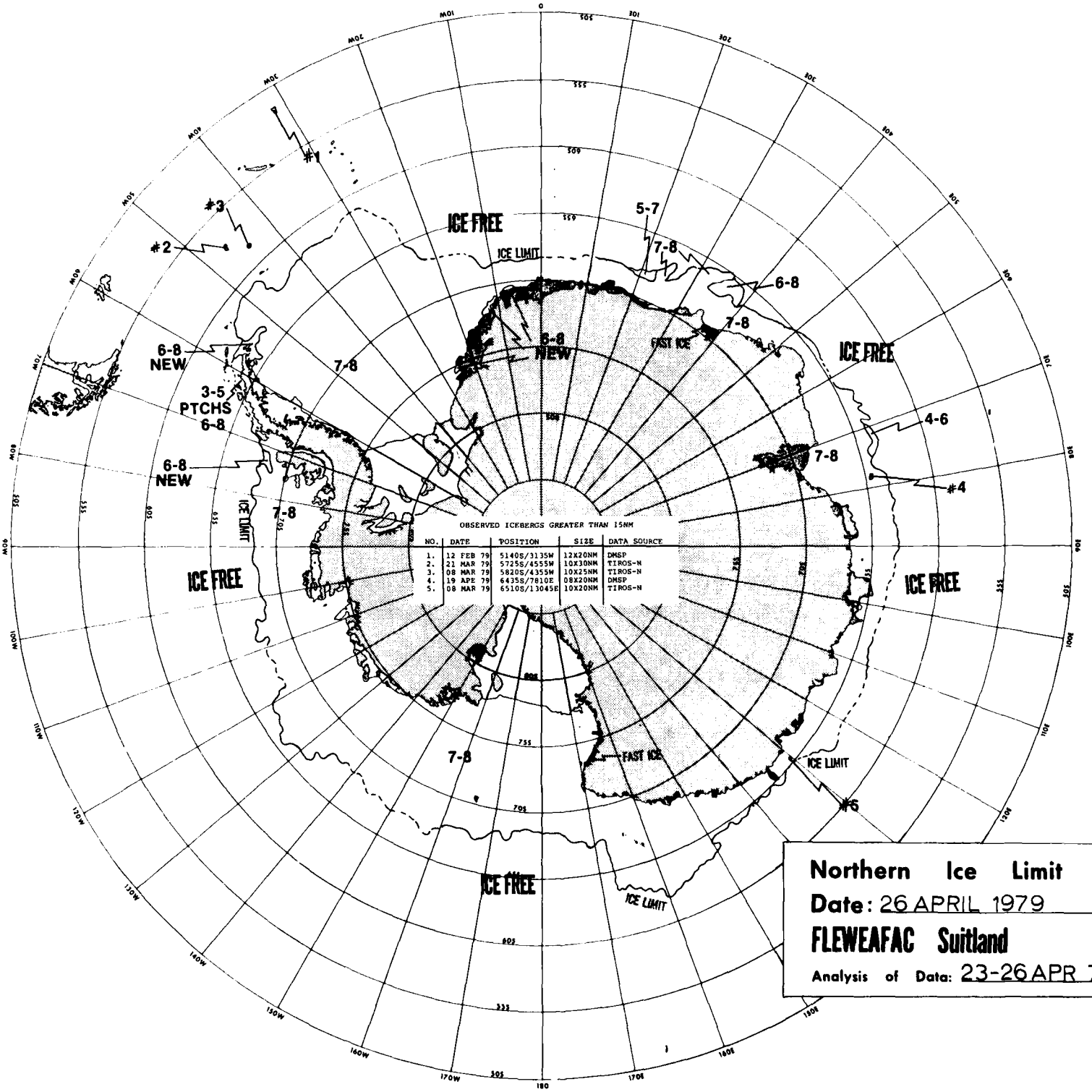


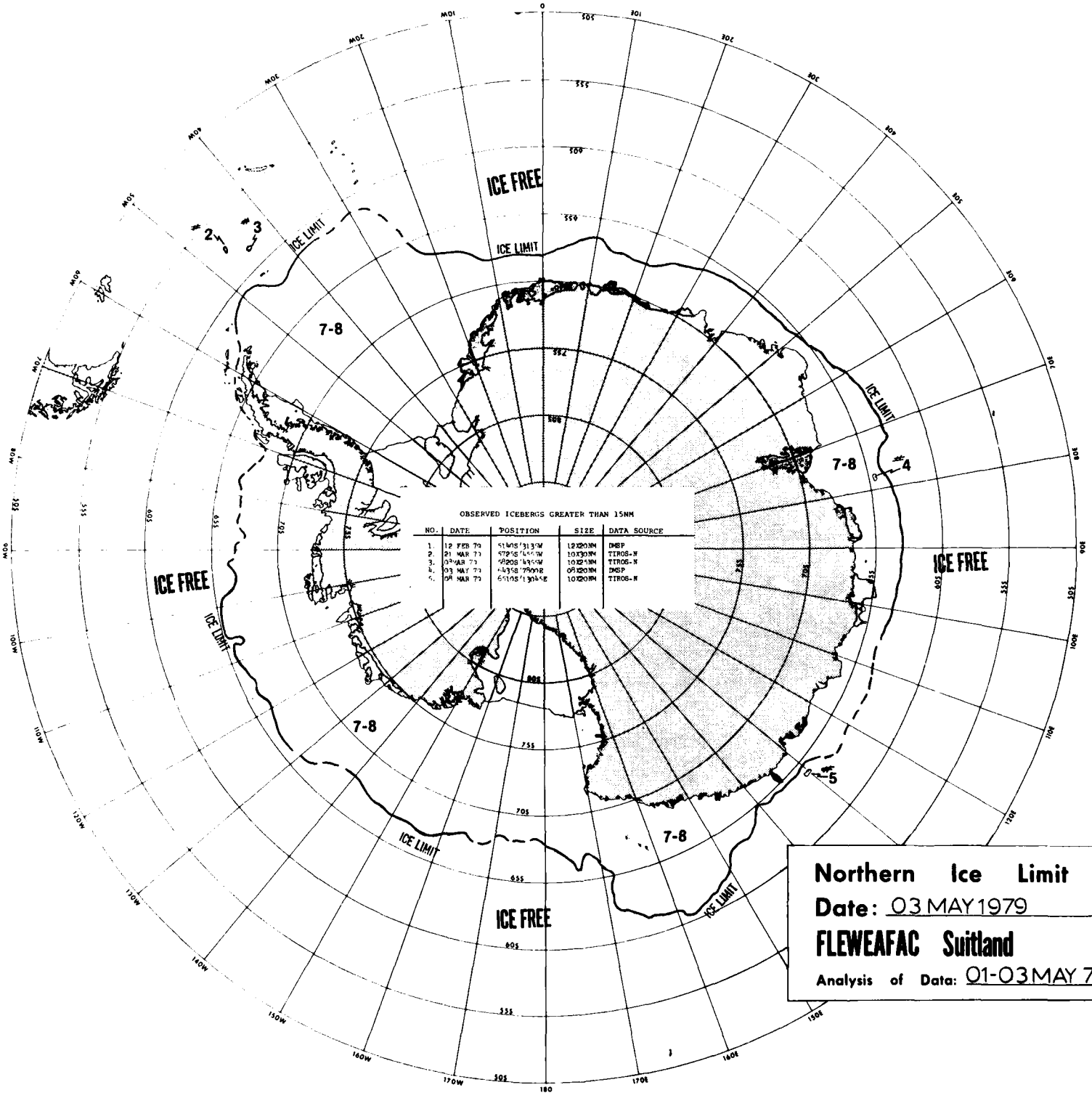
Northern Ice Limit

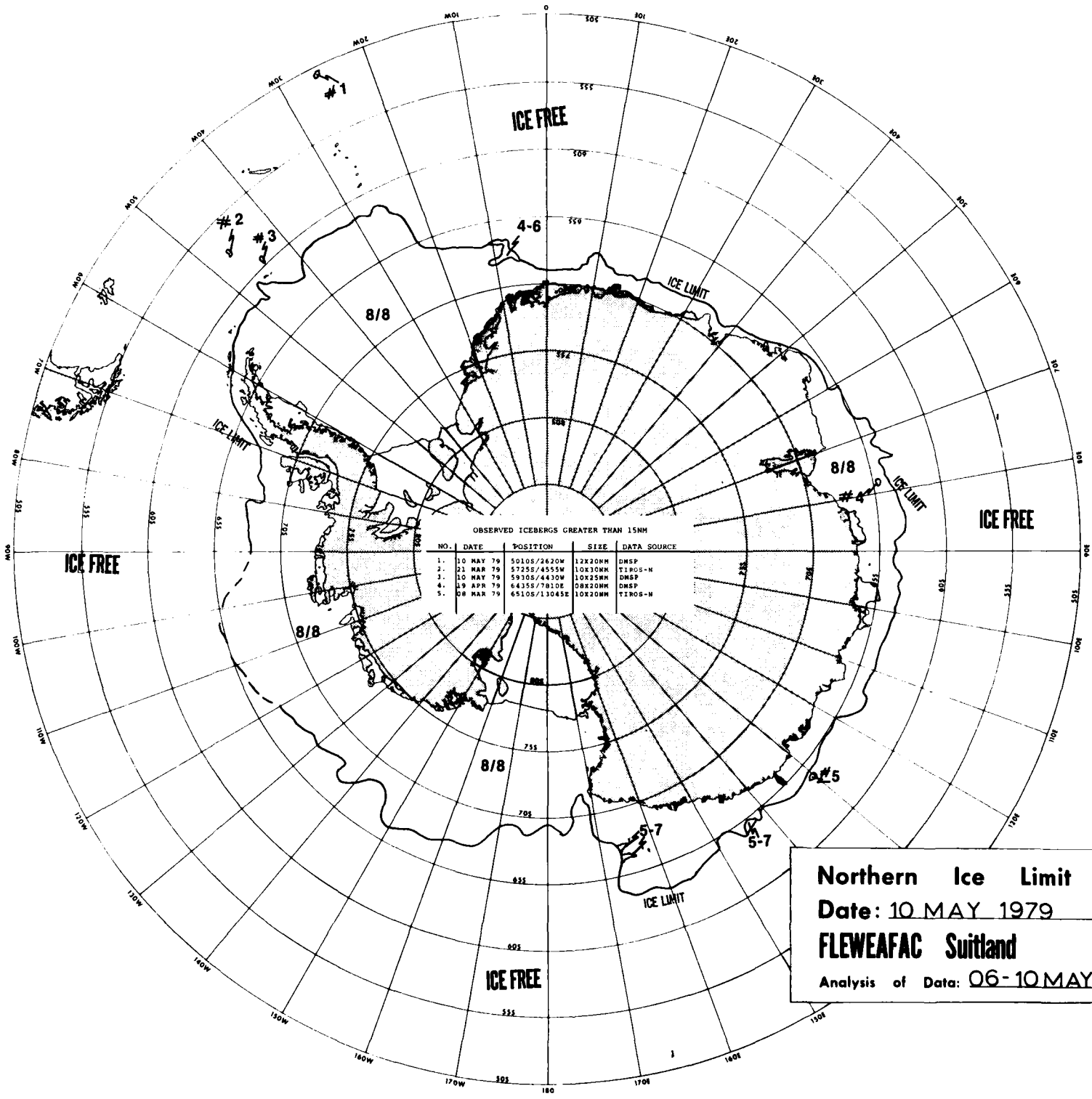
Date: 19 APRIL 1979

FLEWEAFAC Suitland

Analysis of Data: 17-19 APR 79


ICE FREE
ICE LIMIT
5-7
7-8
6-8
7-8
FAST ICE
ICE FREE
6-8
NEW
7-8
3-5
PTCHS
6-8
6-8
NEW
4-6
7-8
#4
#1
#2
#3
ICE LIMIT
7-8
ICE FREE
ICE FREE
7-8
FAST ICE
ICE LIMIT
#5
ICE FREE
ICE LIMIT
OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
1. | 12 FEB 79 | 5140S/3135W | 12X20NM | DMSP
2. | 21 MAR 79 | 5725S/4555W | 10X30NM | TIROS-N
3. | 08 MAR 79 | 5820S/4355W | 10X25NM | TIROS-N
4. | 19 APR 79 | 6435S/7810E | 08X20NM | DMSP
5. | 08 MAR 79 | 6510S/13045E | 10X20NM | TIROS-N
Northern Ice Limit
Date: 26 APRIL 1979
FLEWEAFAC Suitland
Analysis of Data: 23-26 APR 79


ICE FREE
ICE LIMIT
7-8
ICE FREE
ICE LIMIT
7-8
ICE FREE
ICE LIMIT
7-8
ICE FREE
ICE LIMIT
7-8
ICE LIMIT
#2
#3
#4
#5
OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
1. | 12 FEB 79 | 51N05'313W | 12X20NM | DMSP
2. | 21 MAR 79 | 57S05'455W | 10X30NM | TIROS-N
3. | 02 APR 79 | 58S05'445W | 10X20NM | TIROS-N
4. | 03 MAY 79 | 64S58'179W | 09X20NM | DMSP
5. | 08 MAR 79 | 65S05'130E | 10X20NM | TIROS-N
Northern Ice Limit
Date: 03 MAY 1979
FLEWEAFAC Suitland
Analysis of Data: 01-03 MAY 79

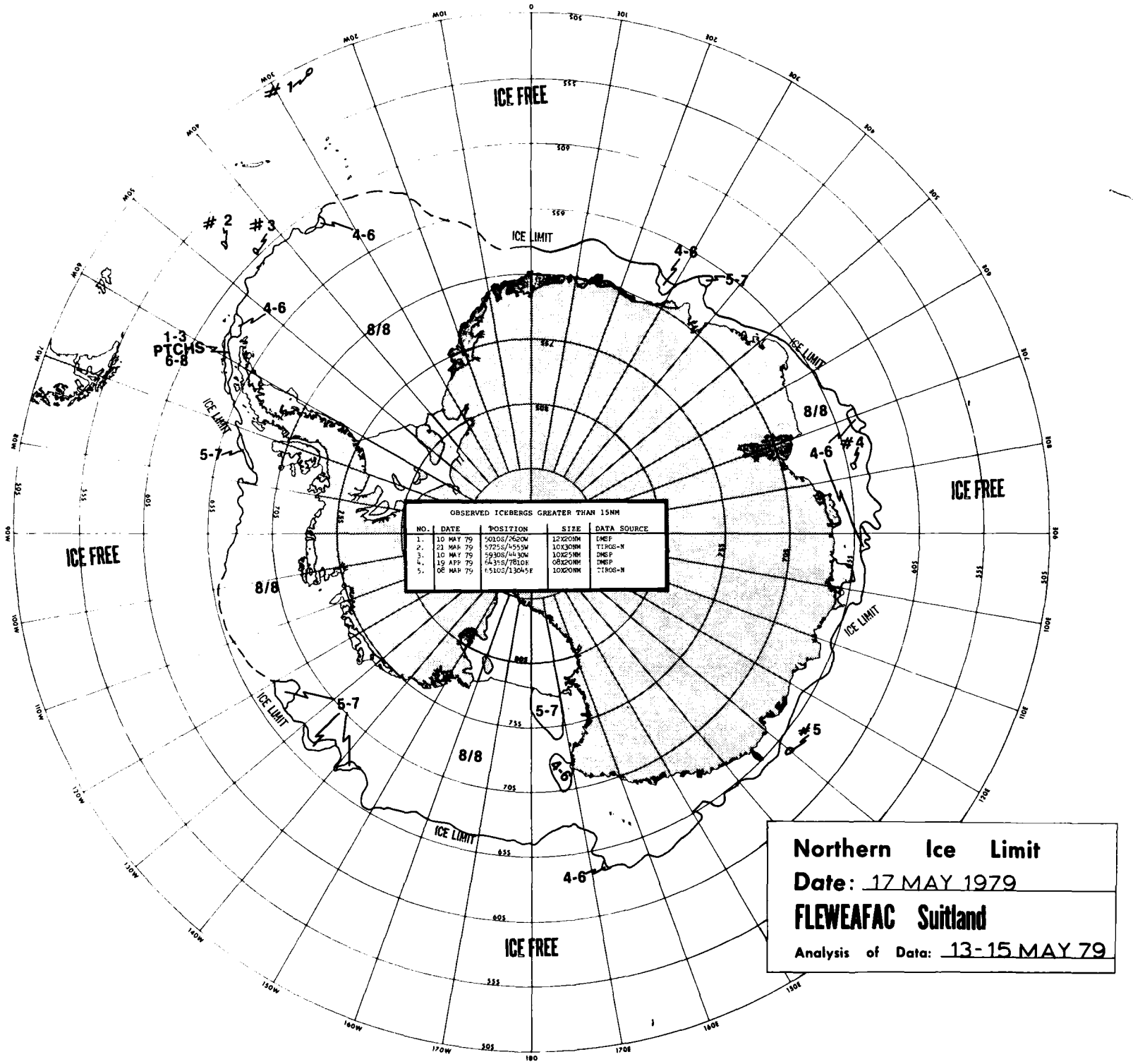


Northern Ice Limit

Date: 10 MAY 1979

FLEWEAFAC Suitland

Analysis of Data: 06-10 MAY 79

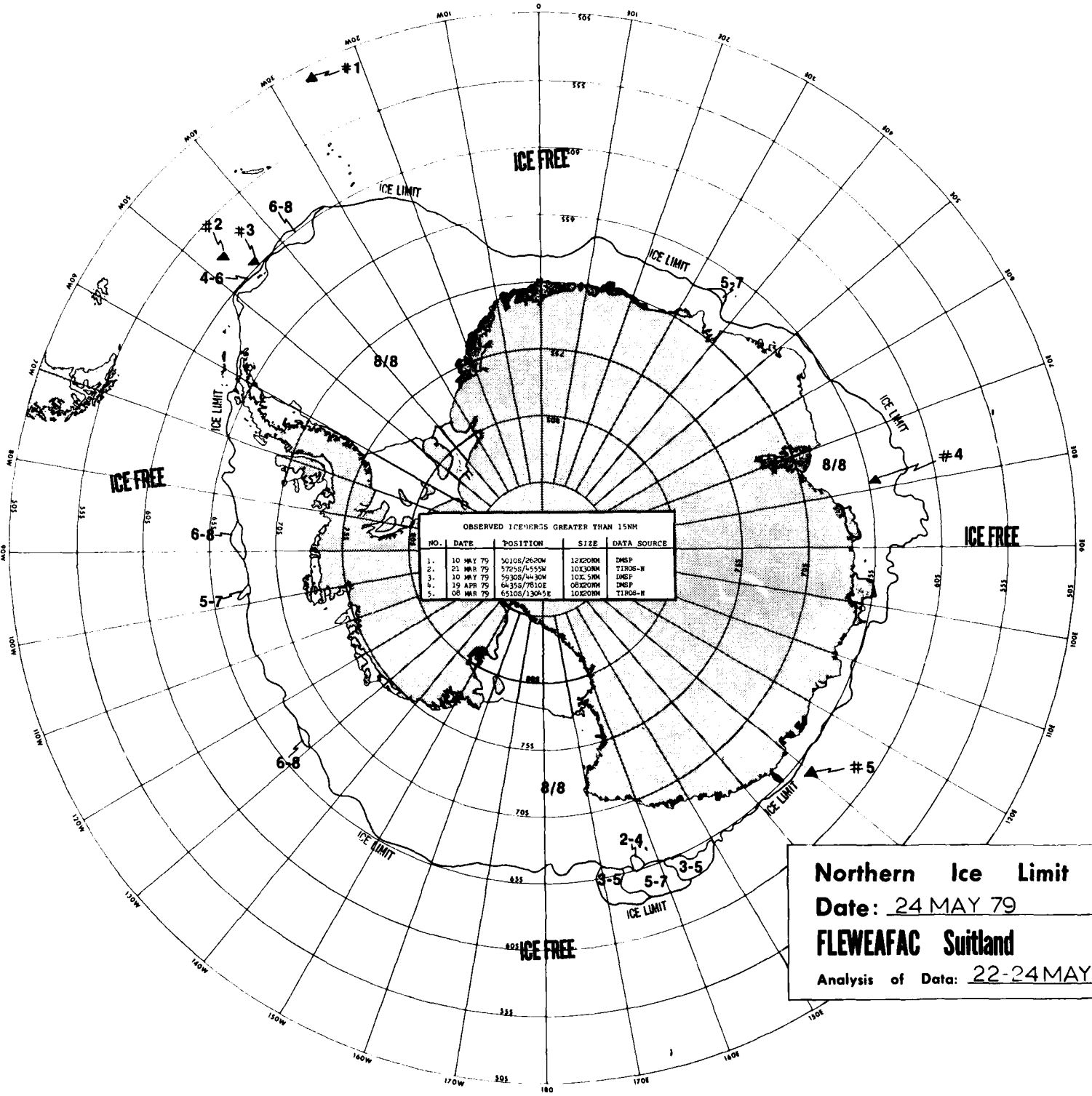


Northern Ice Limit

Date: 17 MAY 1979

FLEWEAFAC Suitland

Analysis of Data: 13-15 MAY 79

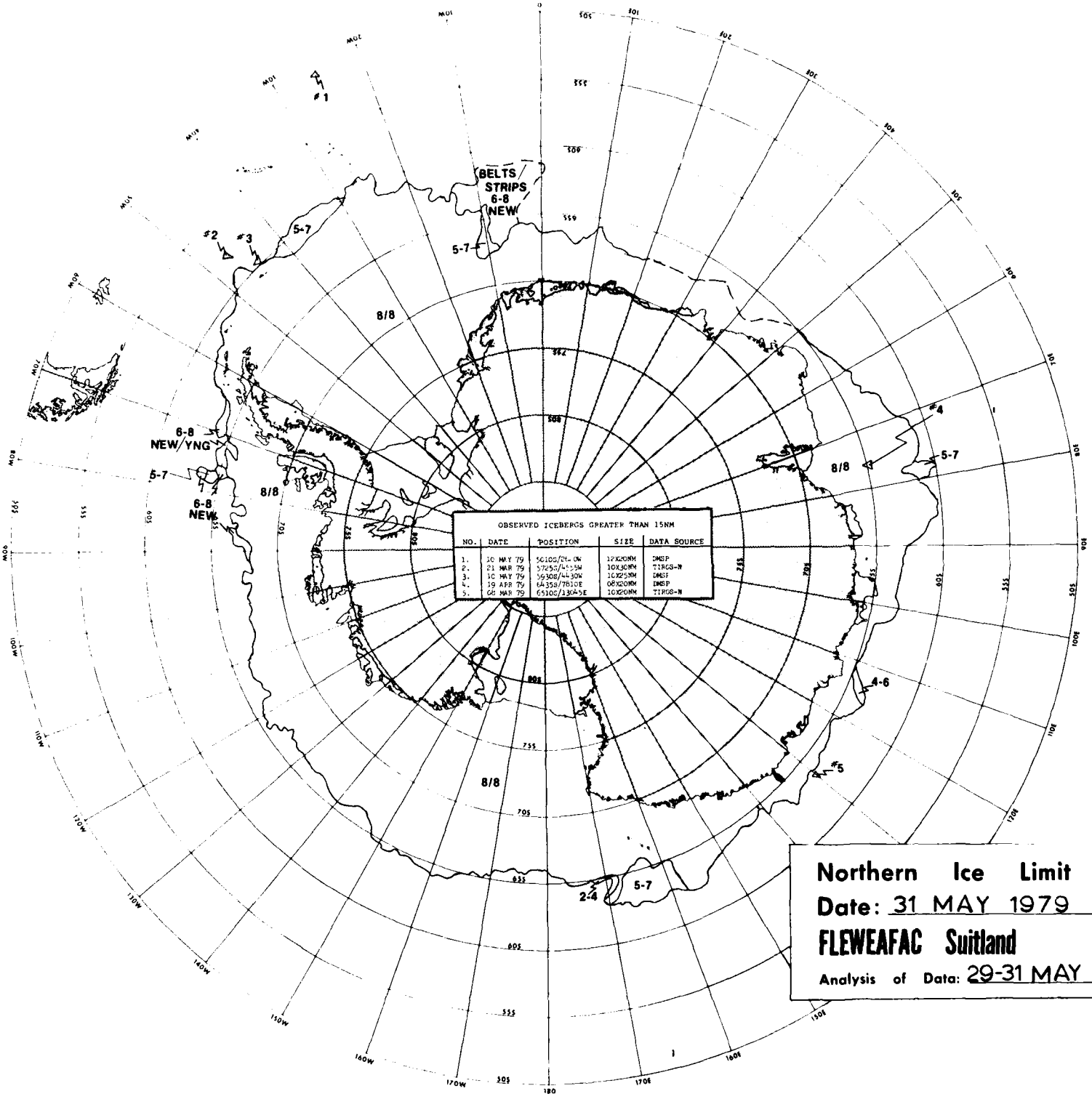


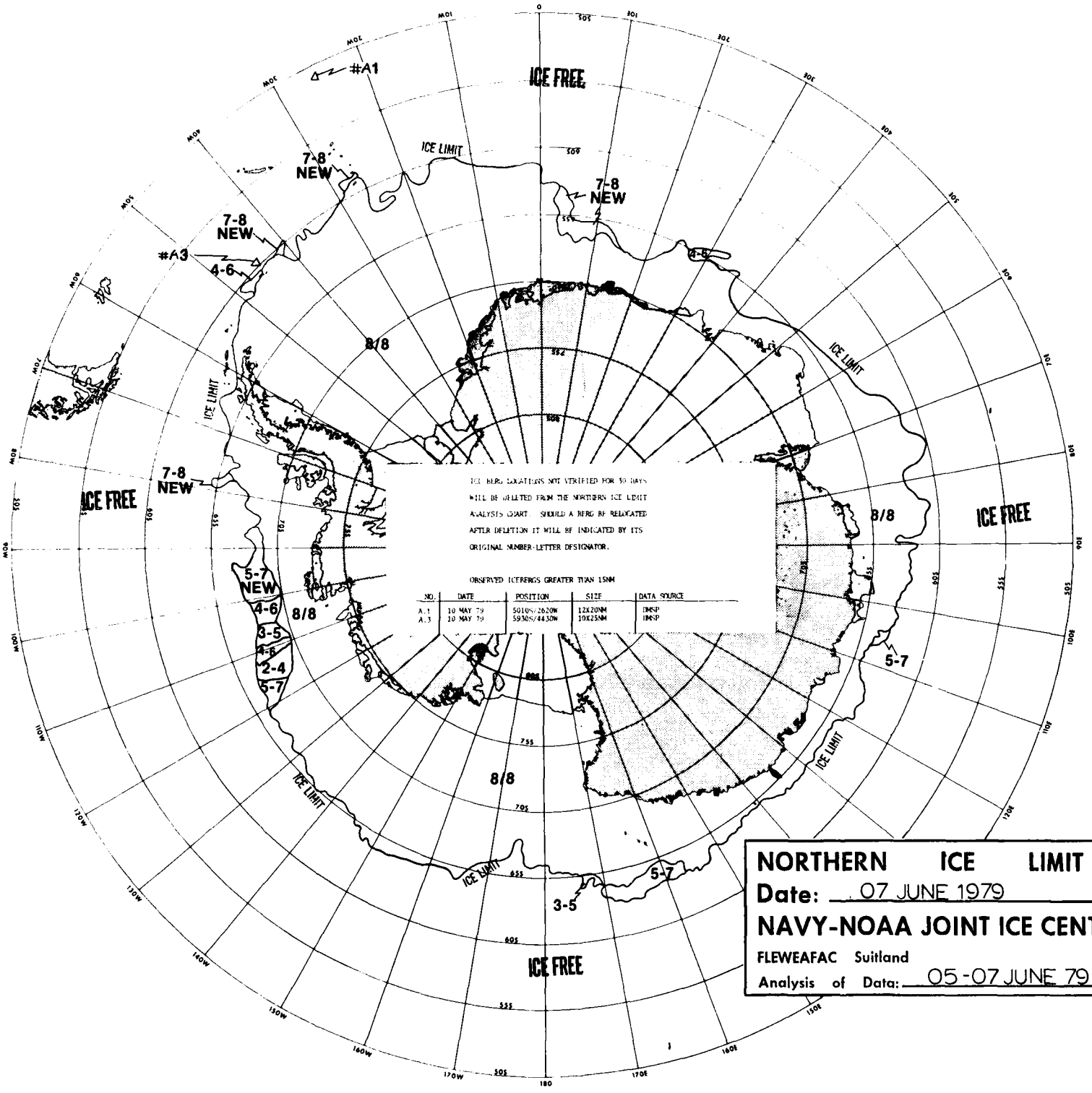
Northern Ice Limit

Date: 24 MAY 79

FLEWEAFAC Suitland

Analysis of Data: 22-24 MAY 79


#1
#2
#3
#4
#5
BELTS/
STRIPS
6-8
NEW
5-7
5-7
8/8
6-8
NEW/YNG
5-7
6-8
NEW
8/8
8/8
5-7
4-6
8/8
2-4
5-7
OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
1. | 30 MAY 79 | 56108/24.0W | 12X5NM | DMSP
2. | 21 MAR 79 | 57053/44.5W | 10X3NM | TIROS-N
3. | 10 MAY 79 | 59308/44.3W | 10X25NM | DMSP
4. | 19 APR 79 | 64358/78.0E | 08X20NM | DMSP
5. | 08 MAR 79 | 65100/138.5E | 10X20NM | TIROS-N
Northern Ice Limit
Date: 31 MAY 1979
FLEWEAFAC Suitland
Analysis of Data: 29-31 MAY 1979



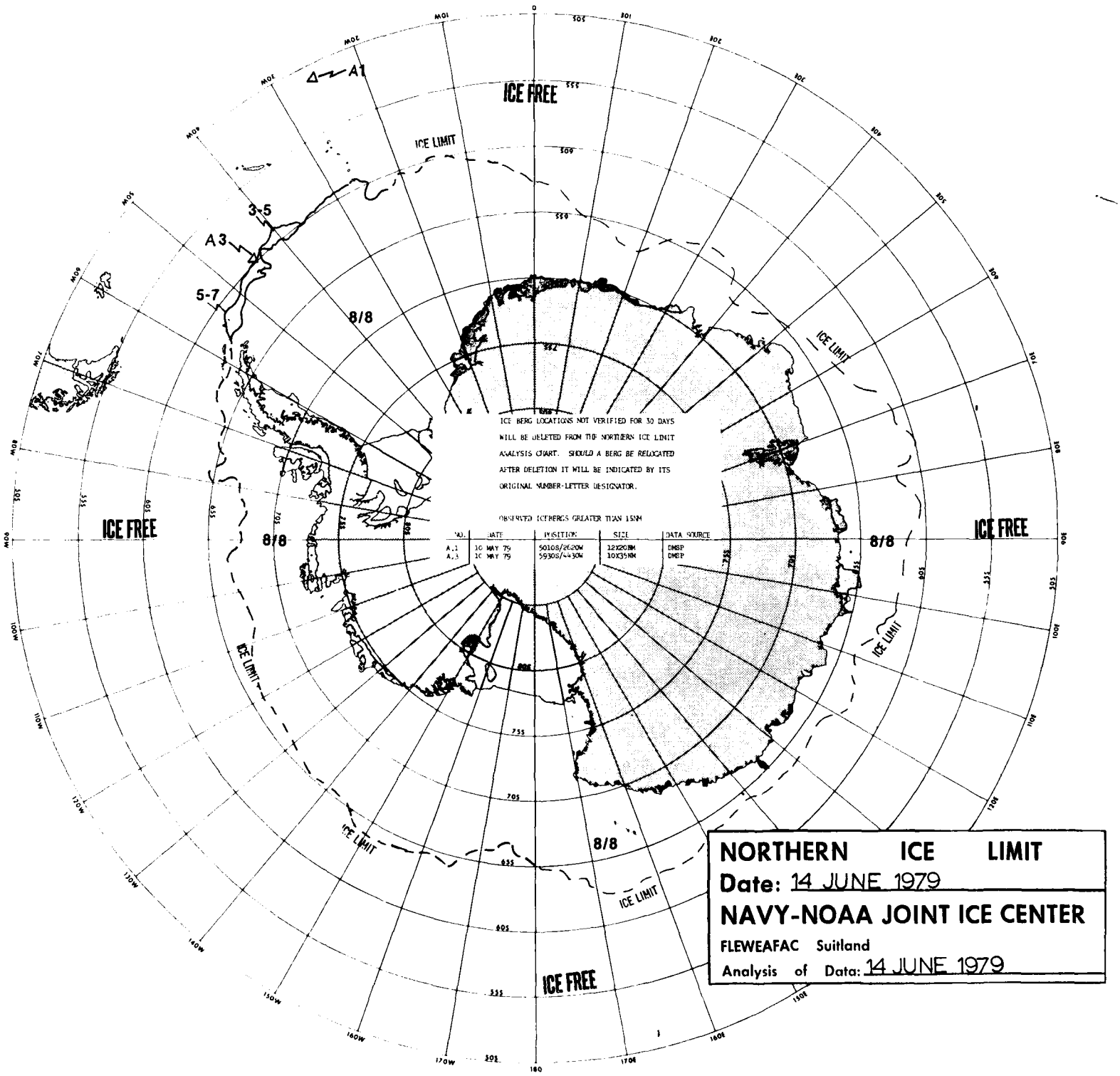
NORTHERN ICE LIMIT

Date: 07 JUNE 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 05-07 JUNE 79



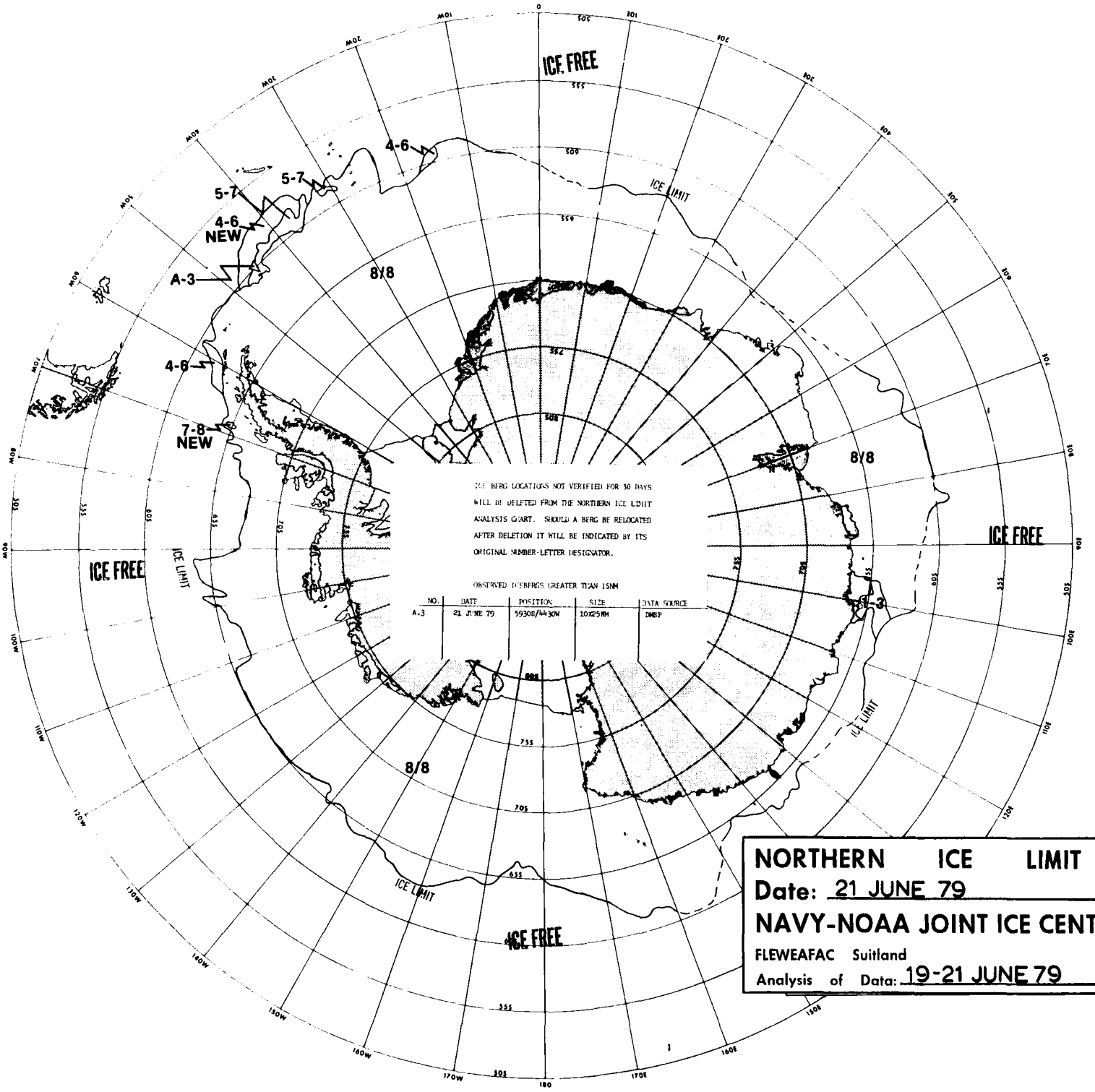
NORTHERN ICE LIMIT

Date: 14 JUNE 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 14 JUNE 1979



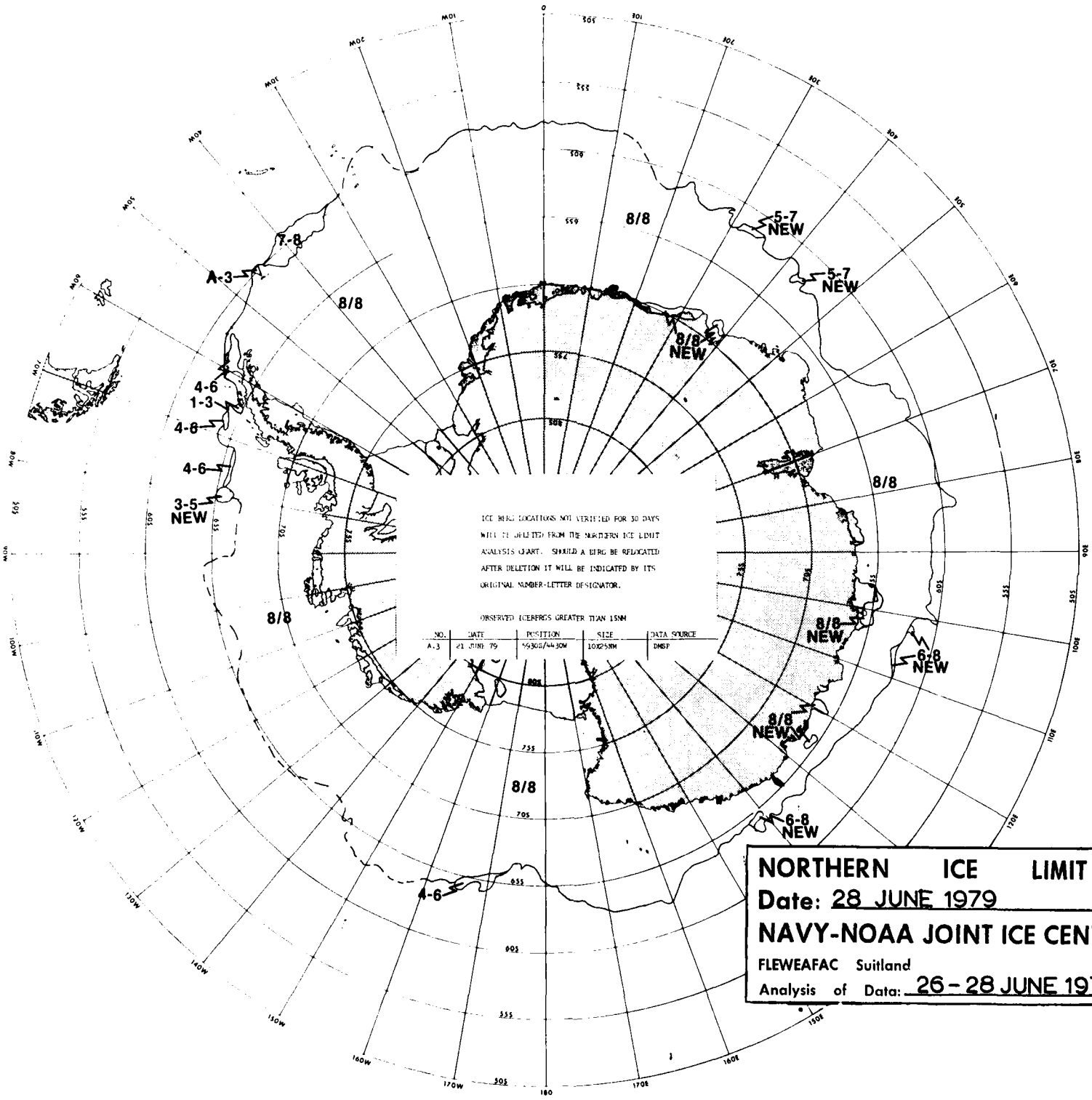
NORTHERN ICE LIMIT

Date: 21 JUNE 79

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 19-21 JUNE 79



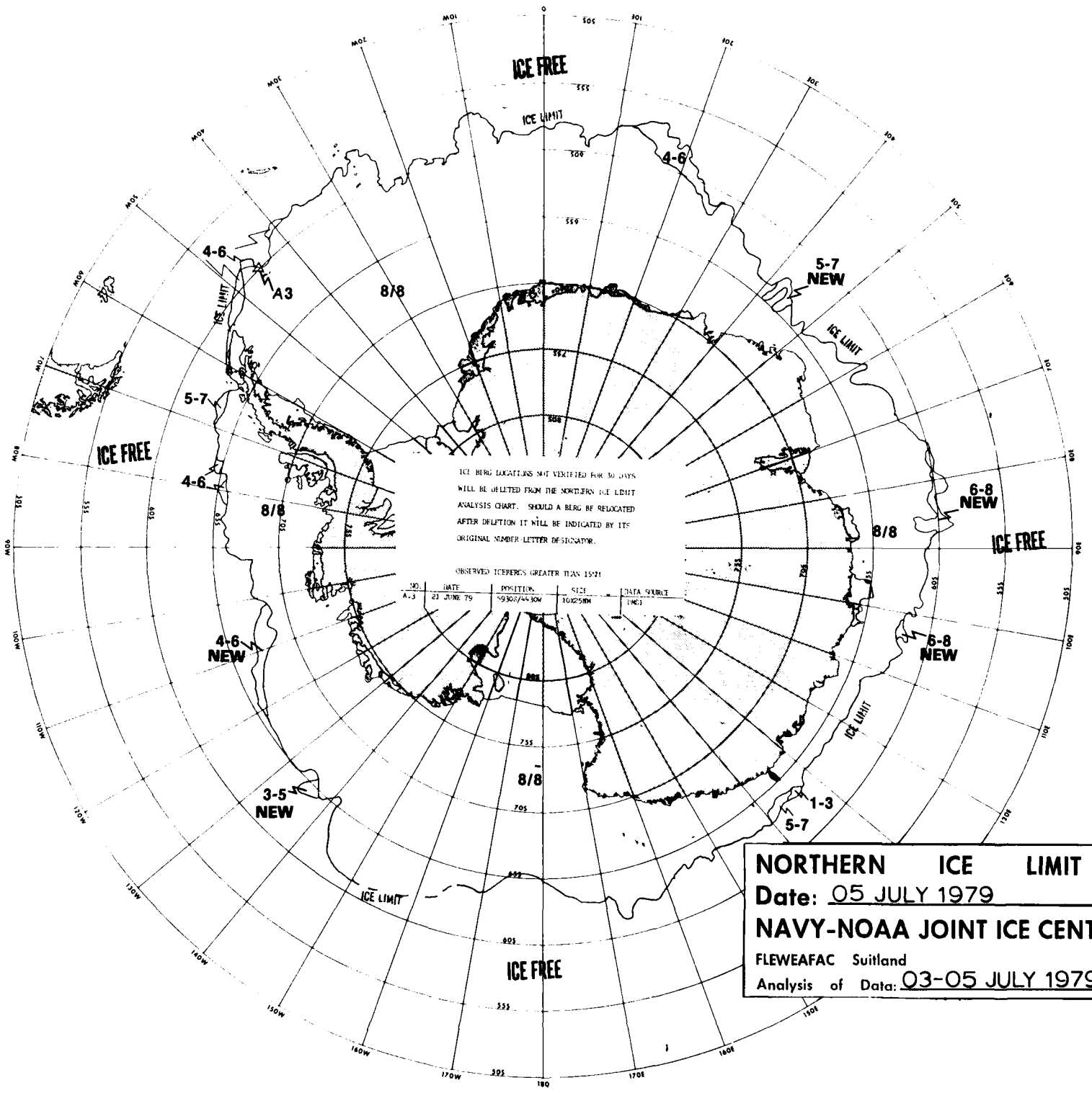
NORTHERN ICE LIMIT

Date: 28 JUNE 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 26 - 28 JUNE 1979



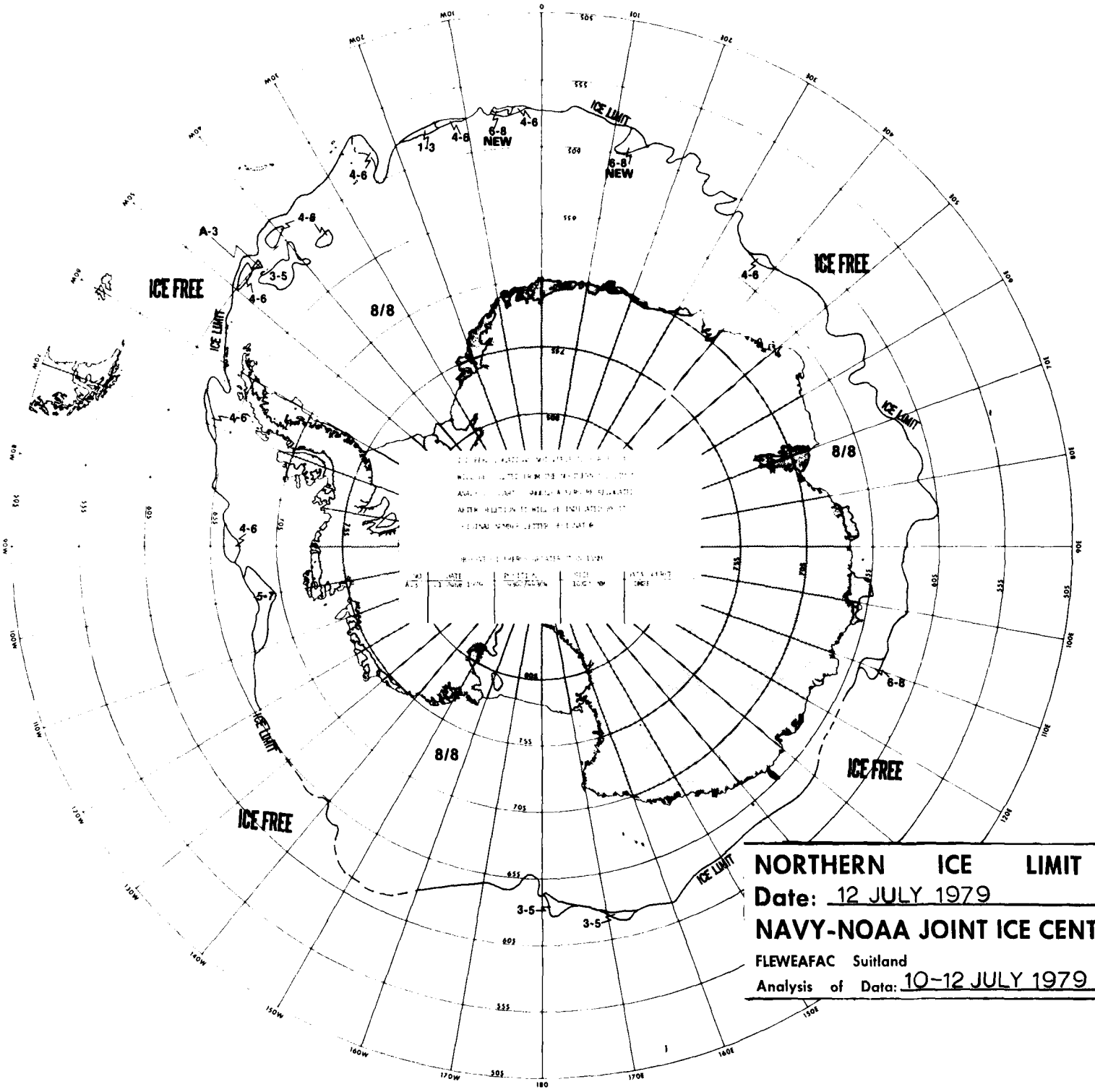
NORTHERN ICE LIMIT

Date: 05 JULY 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 03-05 JULY 1979



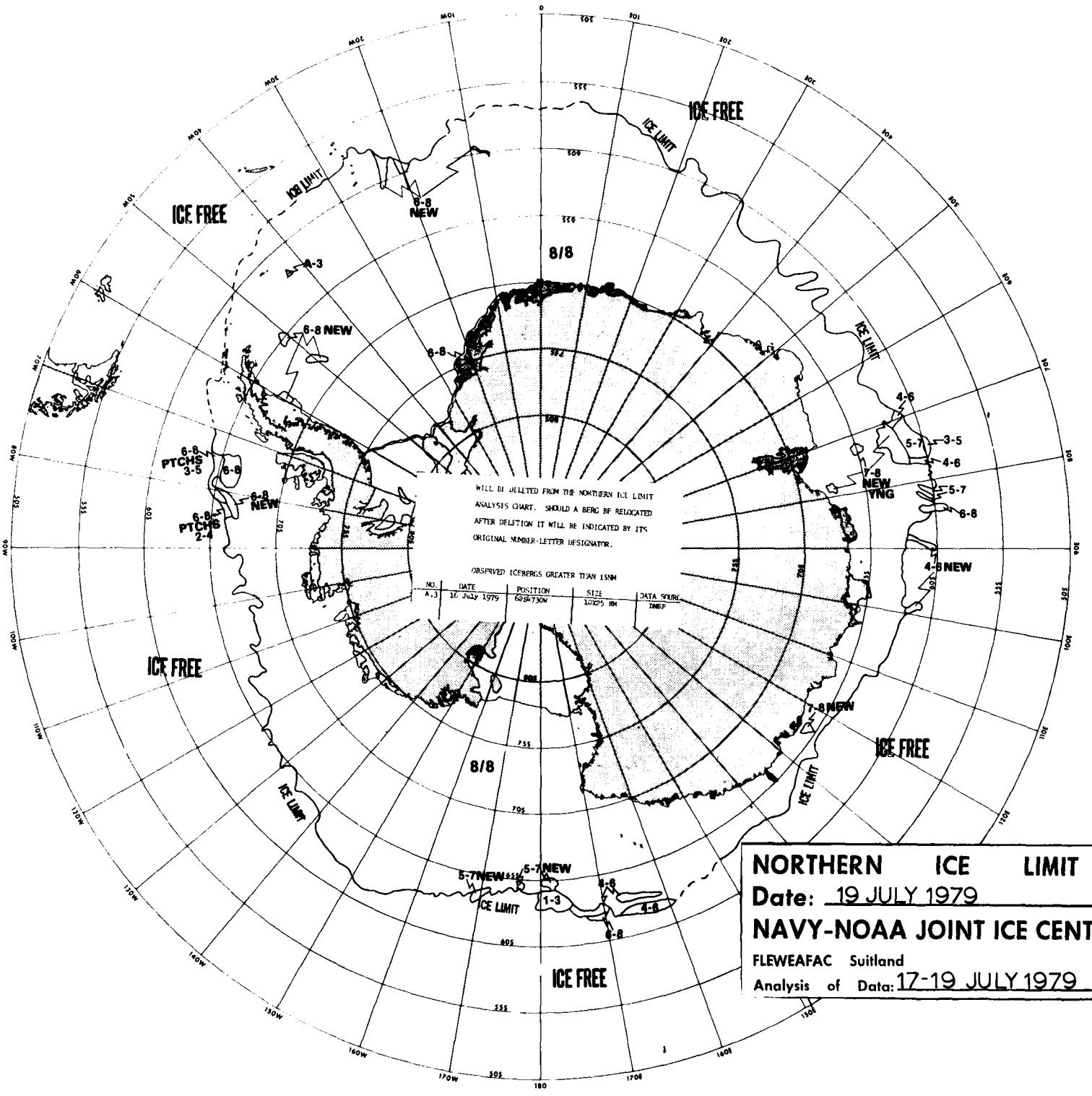
NORTHERN ICE LIMIT

Date: 12 JULY 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 10-12 JULY 1979



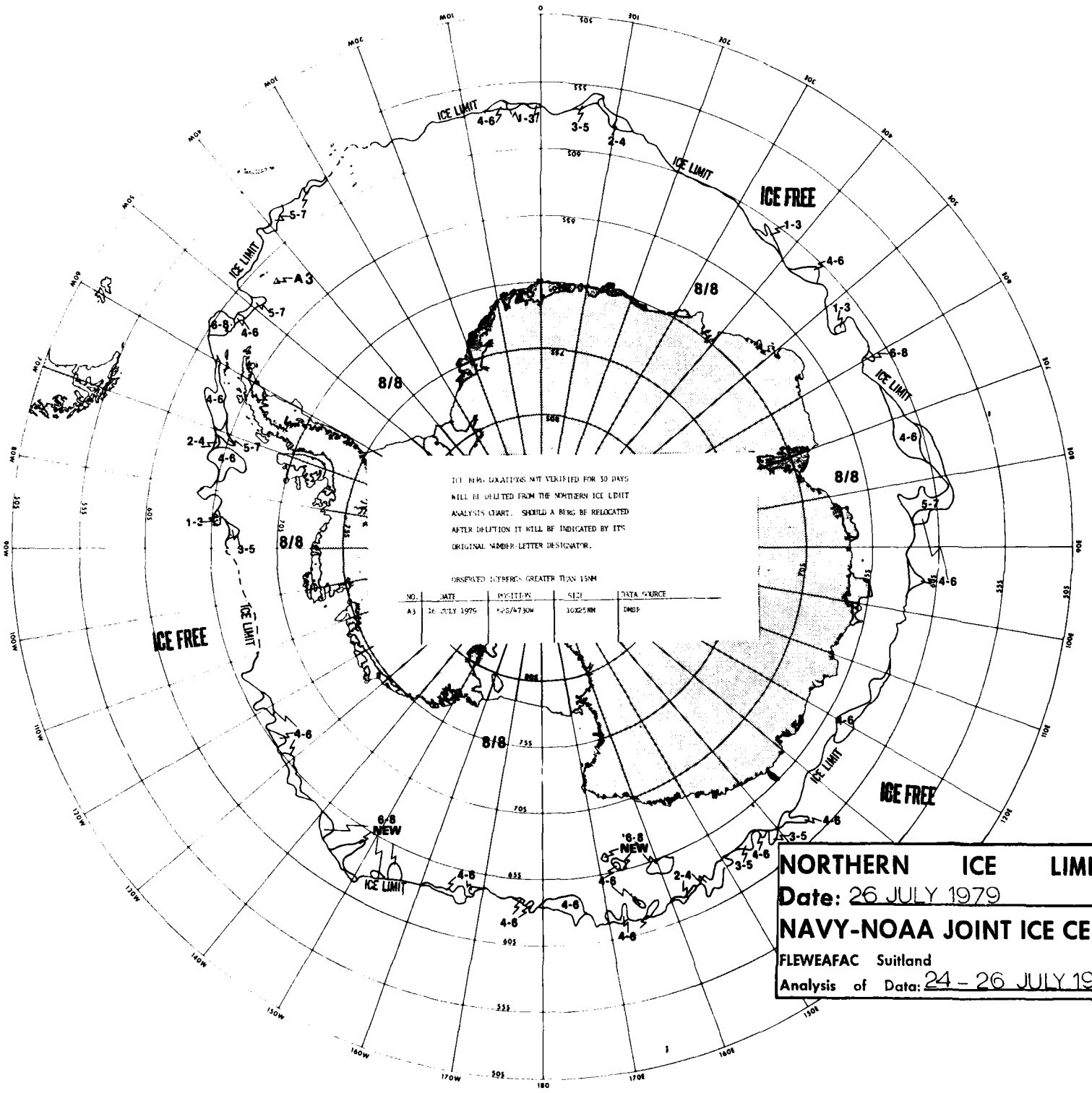
NORTHERN ICE LIMIT

Date: 19 JULY 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 17-19 JULY 1979



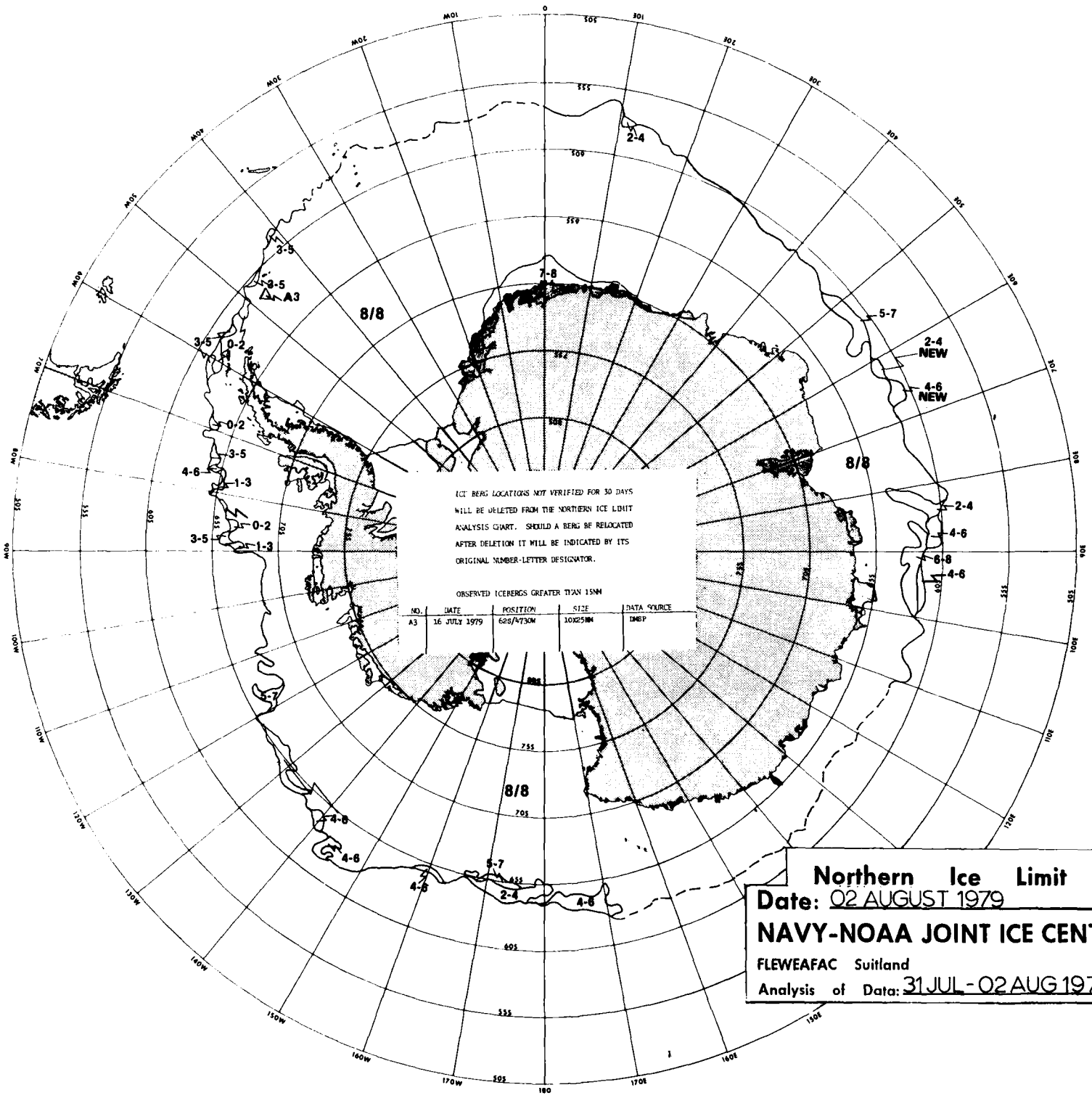
NORTHERN ICE LIMIT

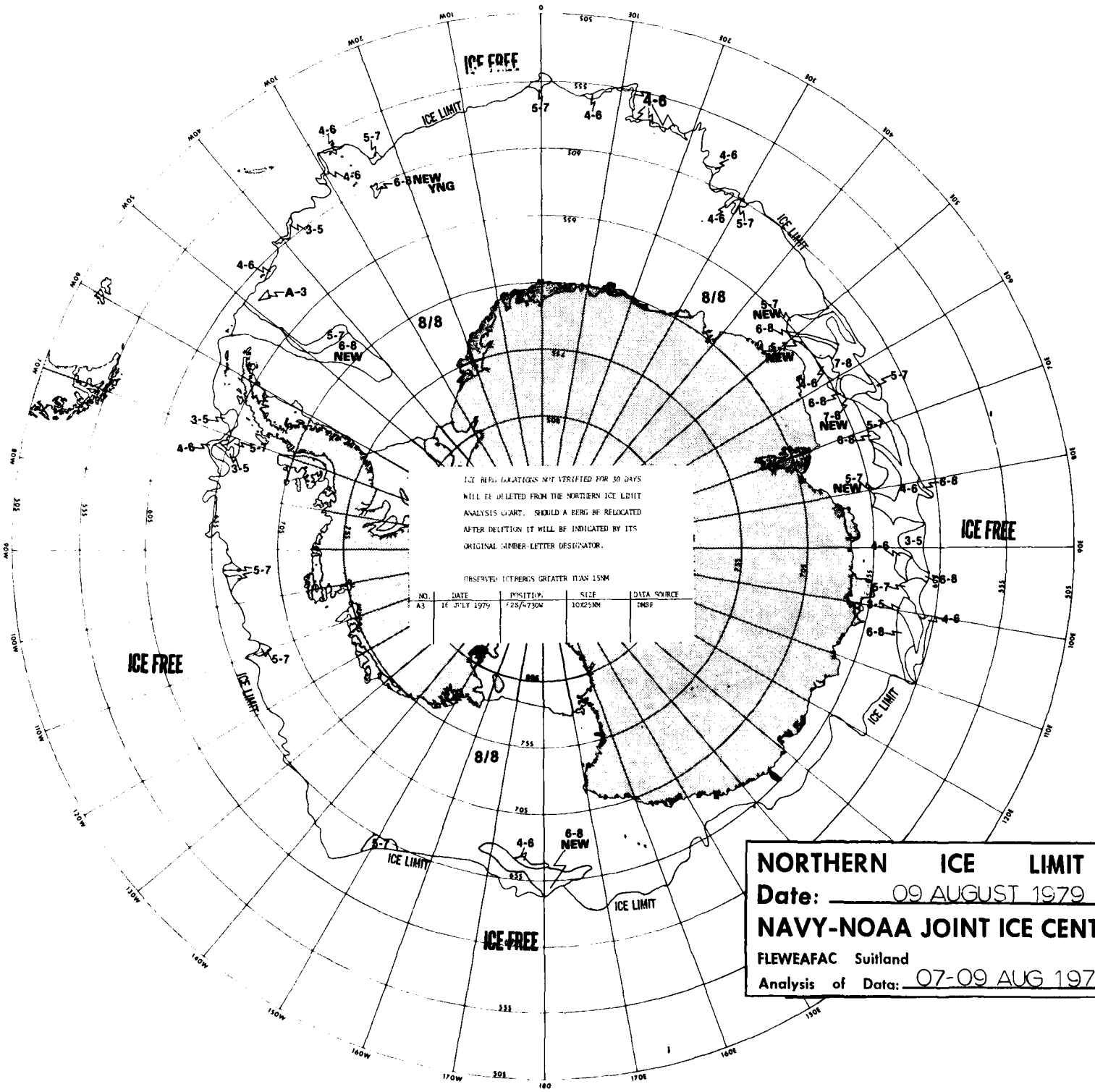
Date: 26 JULY 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 24 - 26 JULY 1979


2-4
3-5
3-5
A3
8/8
3-5
0-2
0-2
3-5
4-6
1-3
0-2
3-5
1-3
5-7
4-6
4-6
4-6
5-7
2-4
4-6
7-8
5-7
2-4
NEW
4-6
NEW
8/8
2-4
4-6
6-8
4-6
8/8
ICE BERG LOCATIONS NOT VERIFIED FOR 30 DAYS WILL BE DELETED FROM THE NORTHERN ICE LIMIT ANALYSIS CHART. SHOULD A BERG BE RELOCATED AFTER DELETION IT WILL BE INDICATED BY ITS ORIGINAL NUMBER-LETTER DESIGNATOR.
OBSERVED ICEBERGS GREATER THAN 15NM
NO. | DATE | POSITION | SIZE | DATA SOURCE
A3 | 16 JULY 1979 | 62S/47.3OW | 10X25NM | DMSP
Northern Ice Limit
Date: 02 AUGUST 1979
NAVY-NOAA JOINT ICE CENTER
FLEWEAFAC Suitland
Analysis of Data: 31 JUL - 02 AUG 1979



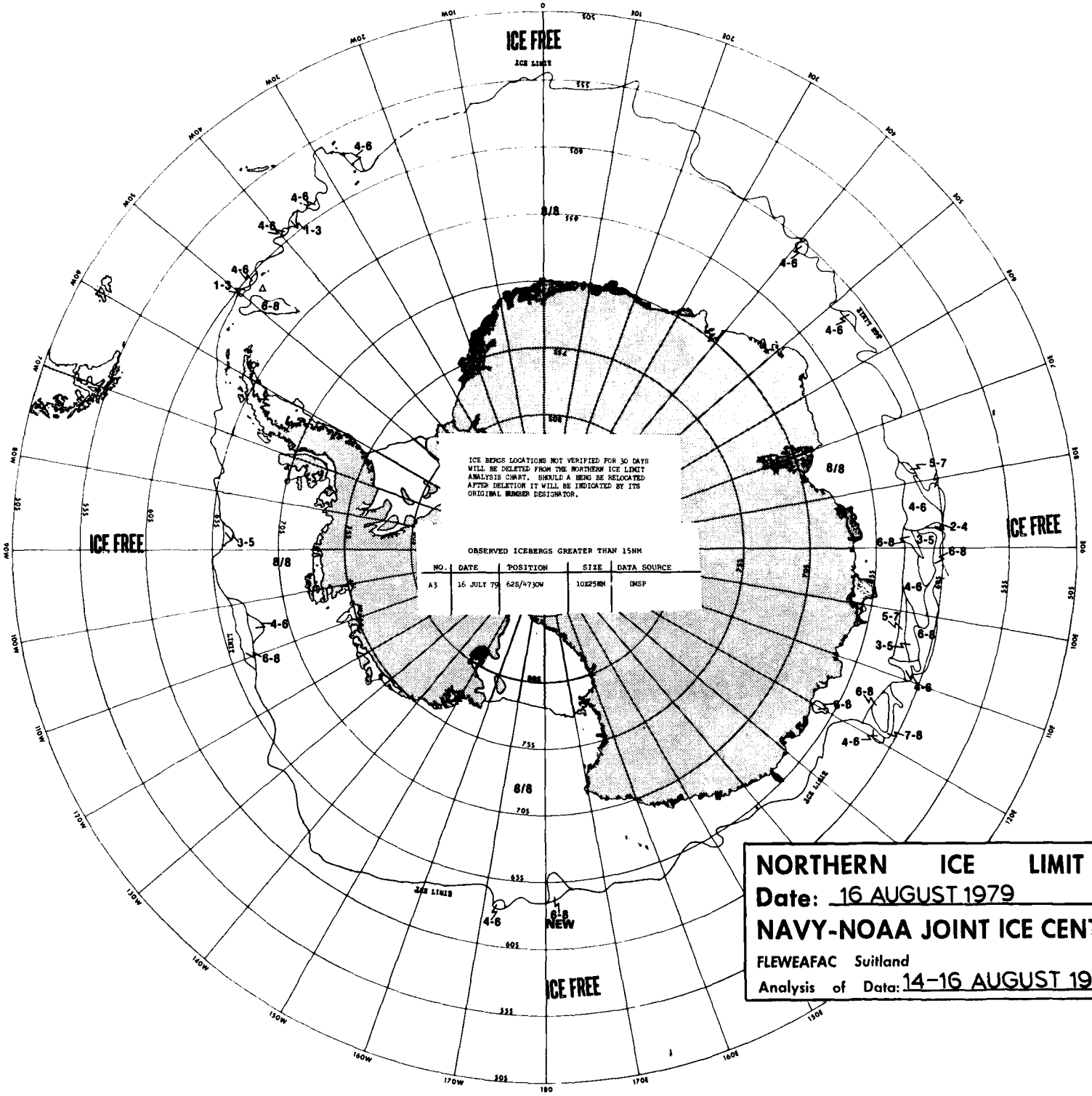
NORTHERN ICE LIMIT

Date: 09 AUGUST 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 07-09 AUG 1979



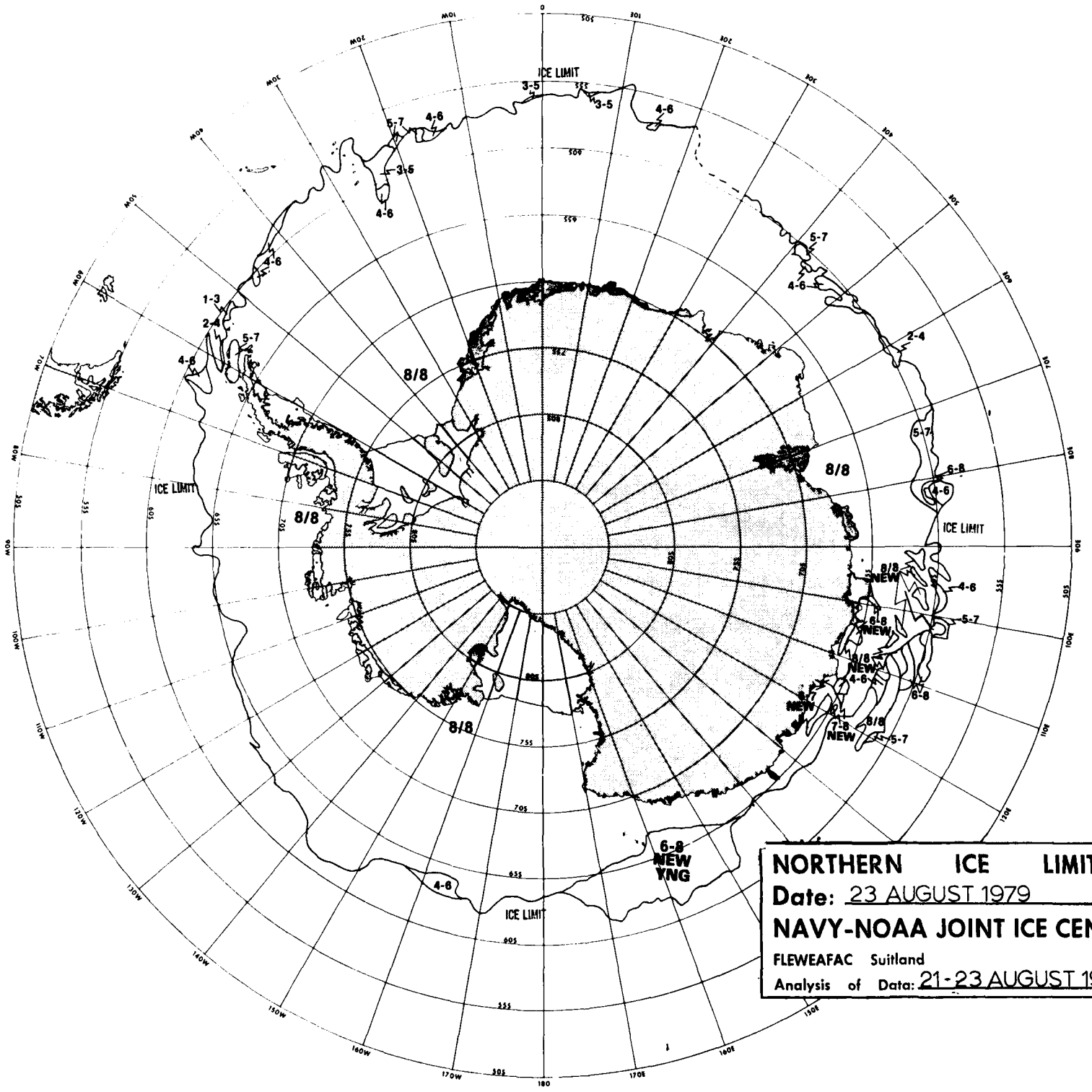
NORTHERN ICE LIMIT

Date: 16 AUGUST 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 14-16 AUGUST 1979



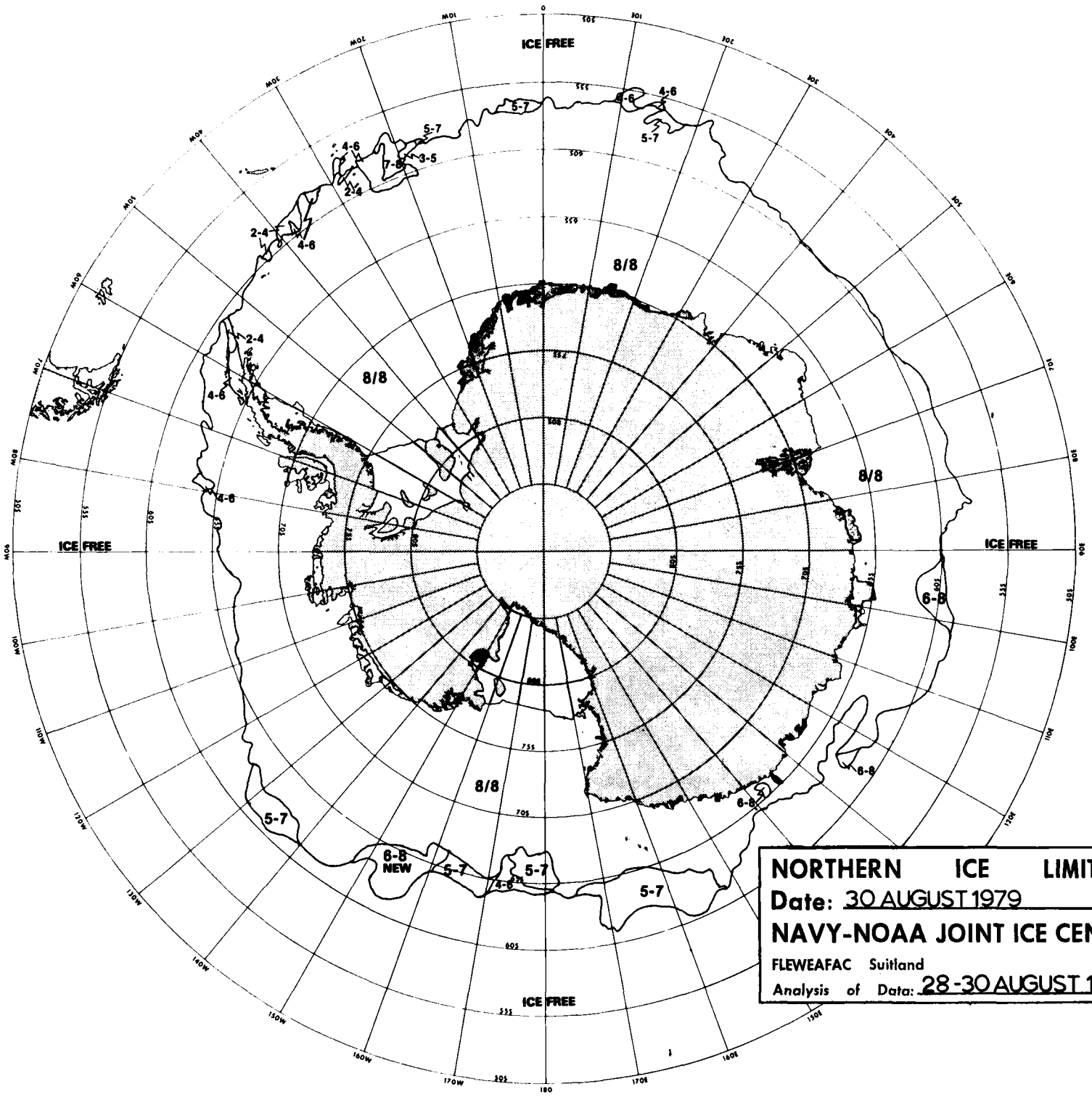
NORTHERN ICE LIMIT

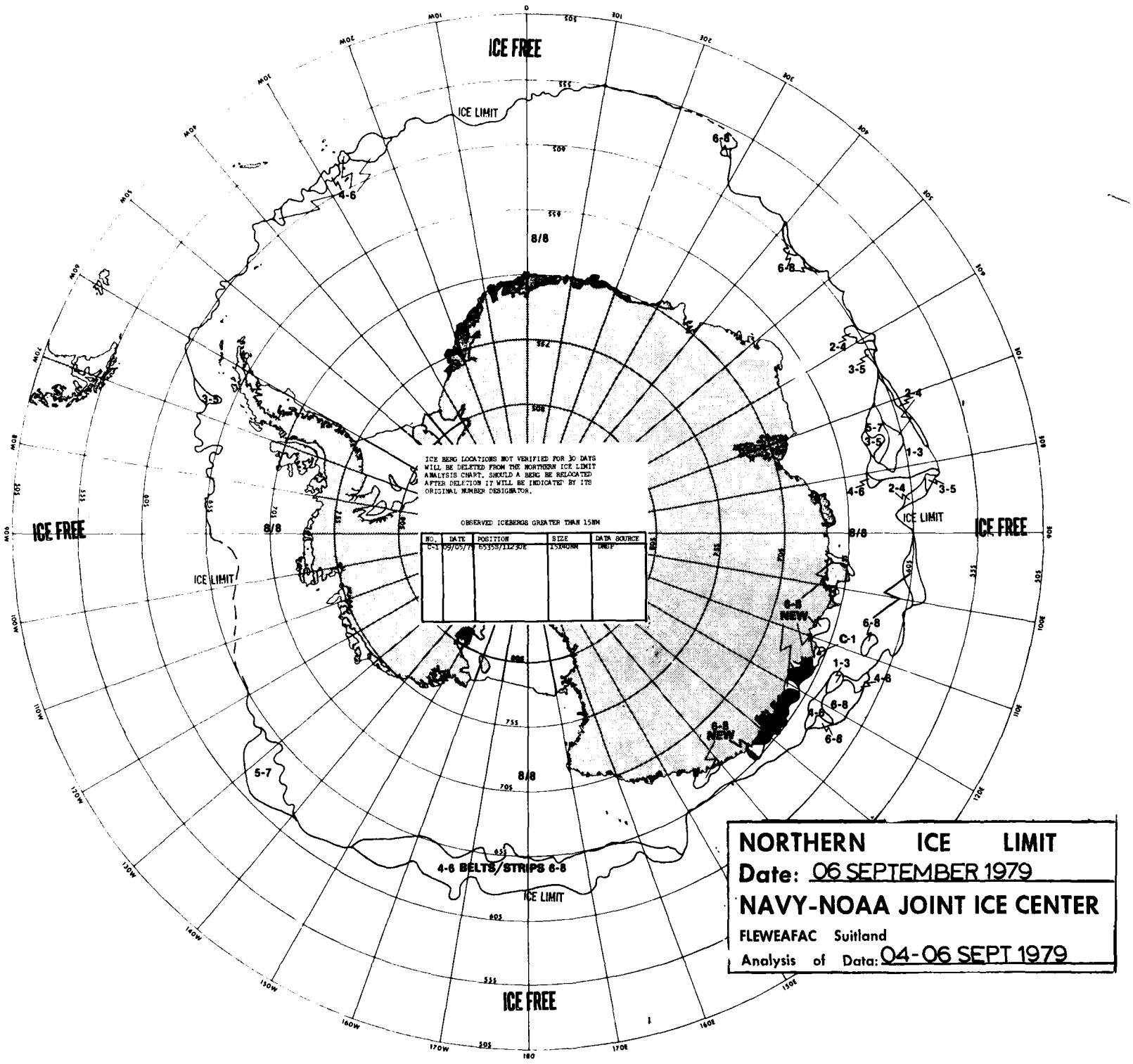
Date: 23 AUGUST 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 21-23 AUGUST 1979


ICE FREE
ICE FREE
ICE FREE
ICE FREE
8/8
8/8
8/8
5-7
4-6
5-7
4-6
3-5
2-4
2-4
4-6
2-4
4-6
4-6
6-8
6-8
6-8
5-7
6-8
NEW
5-7
5-7
4-6
5-7
NORTHERN ICE LIMIT
Date: 30 AUGUST 1979
NAVY-NOAA JOINT ICE CENTER
FLEWEAFAC Suitland
Analysis of Data: 28-30 AUGUST 1979



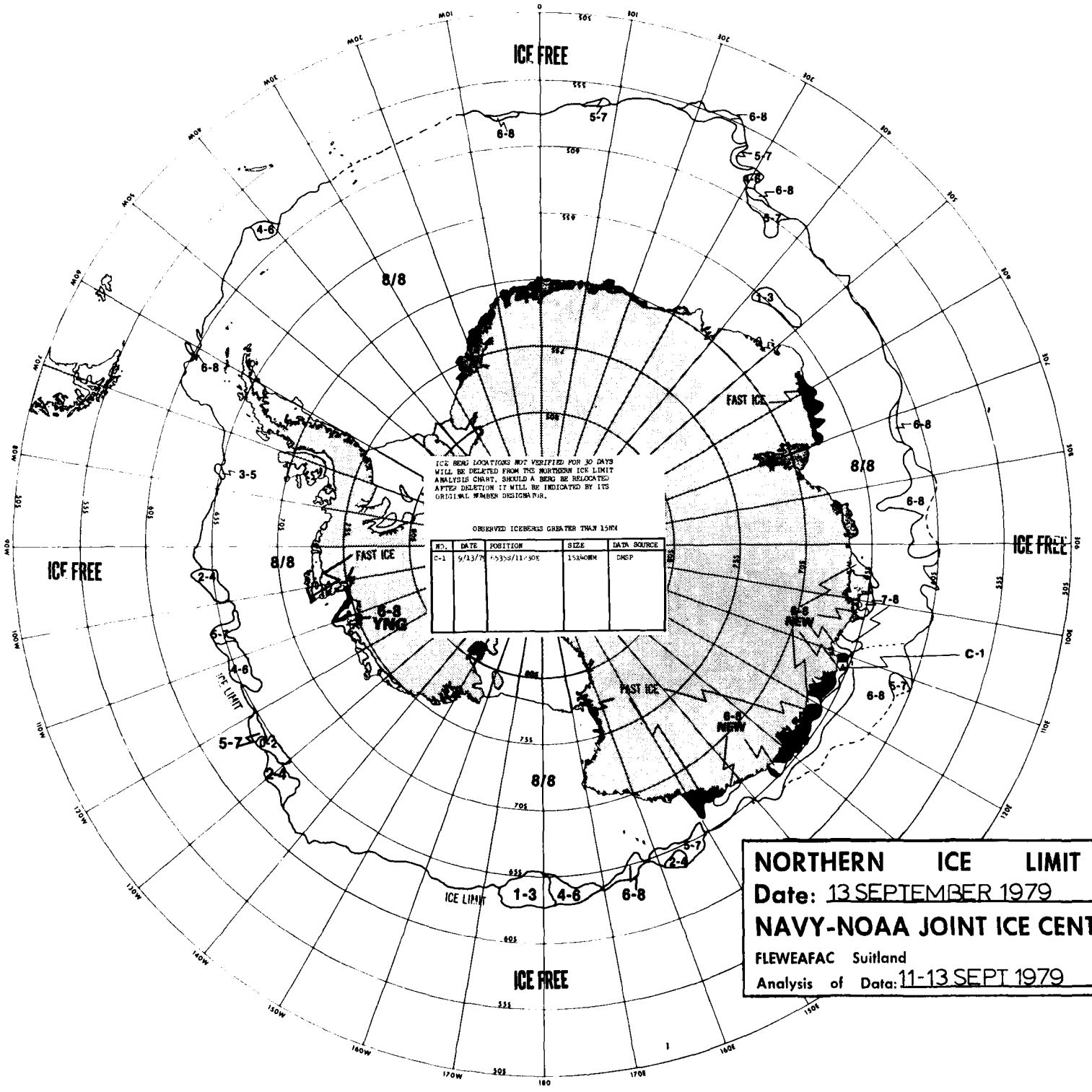
NORTHERN ICE LIMIT

Date: 06 SEPTEMBER 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 04-06 SEPT 1979



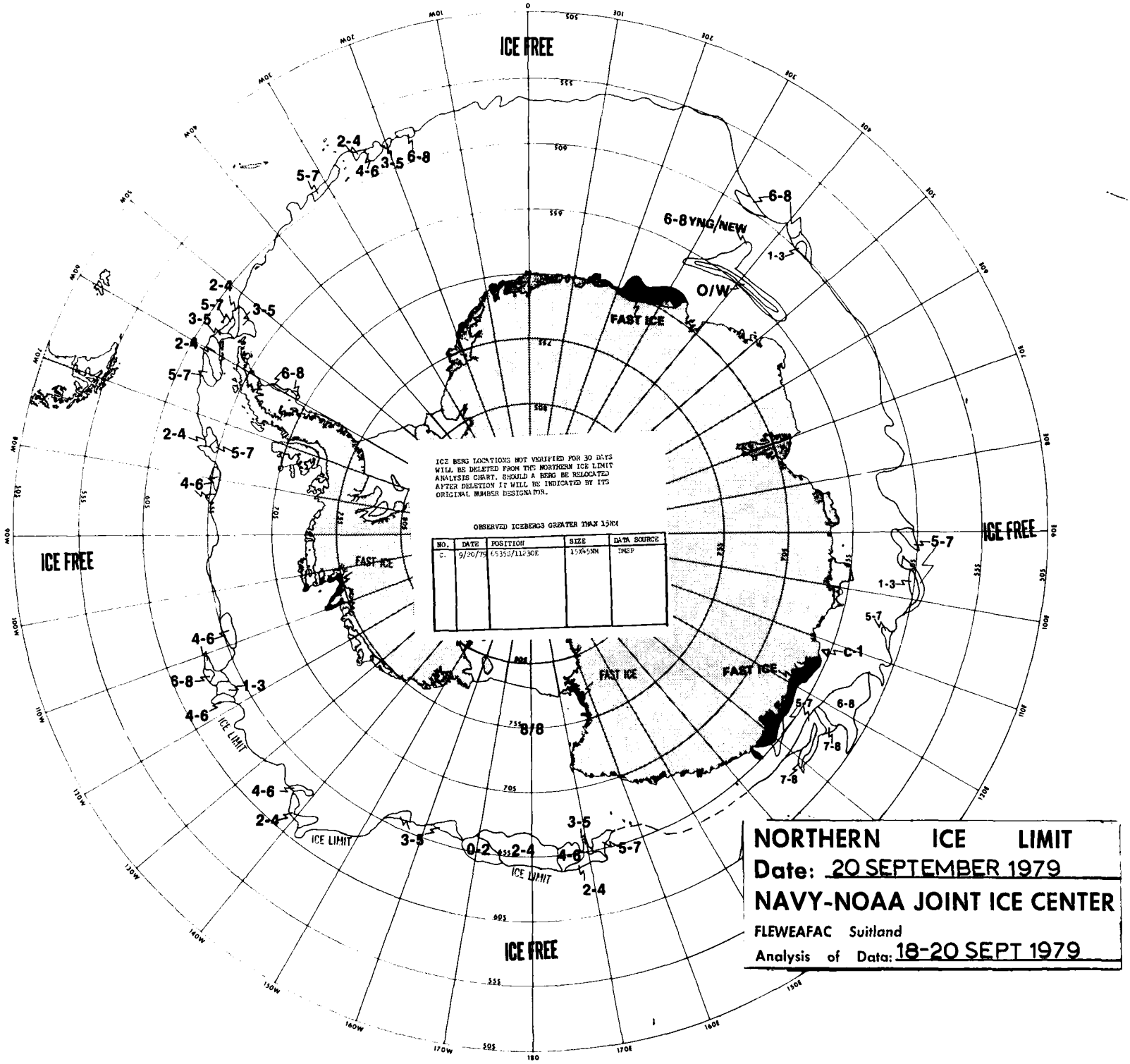
NORTHERN ICE LIMIT

Date: 13 SEPTEMBER 1979

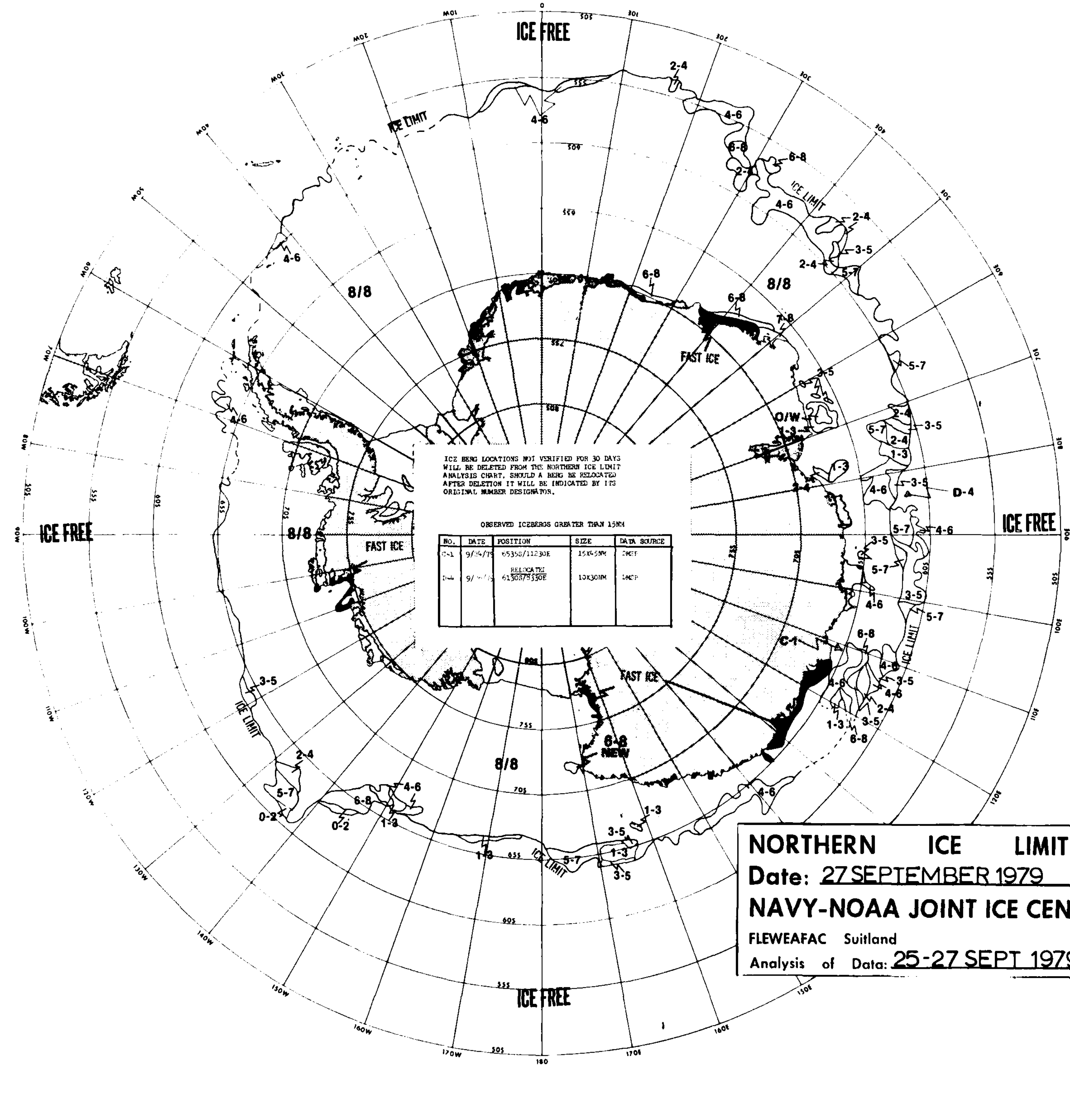
NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 11-13 SEPT 1979



NORTHERN ICE LIMIT
Date: 20 SEPTEMBER 1979
NAVY-NOAA JOINT ICE CENTER
FLEWEAFAC *Suitland*
Analysis of Data: 18-20 SEPT 1979



ICE BERG LOCATIONS NOT VERIFIED FOR 30 DAYS WILL BE DELETED FROM THE NORTHERN ICE LIMIT ANALYSIS CHART. SHOULD A BERG BE RELOCATED AFTER DELETION IT WILL BE INDICATED BY ITS ORIGINAL NUMBER DESIGNATOR.

OBSERVED ICEBERGS GREATER THAN 15NM

NO.	DATE	POSITION	SIZE	DATA SOURCE
C-1	9/[illegible]4/79	6535S/11230E	15X45NM	DMSP
D-4	9/[illegible]	RELOCATED 6130S/5330E	10X30NM	DMSP

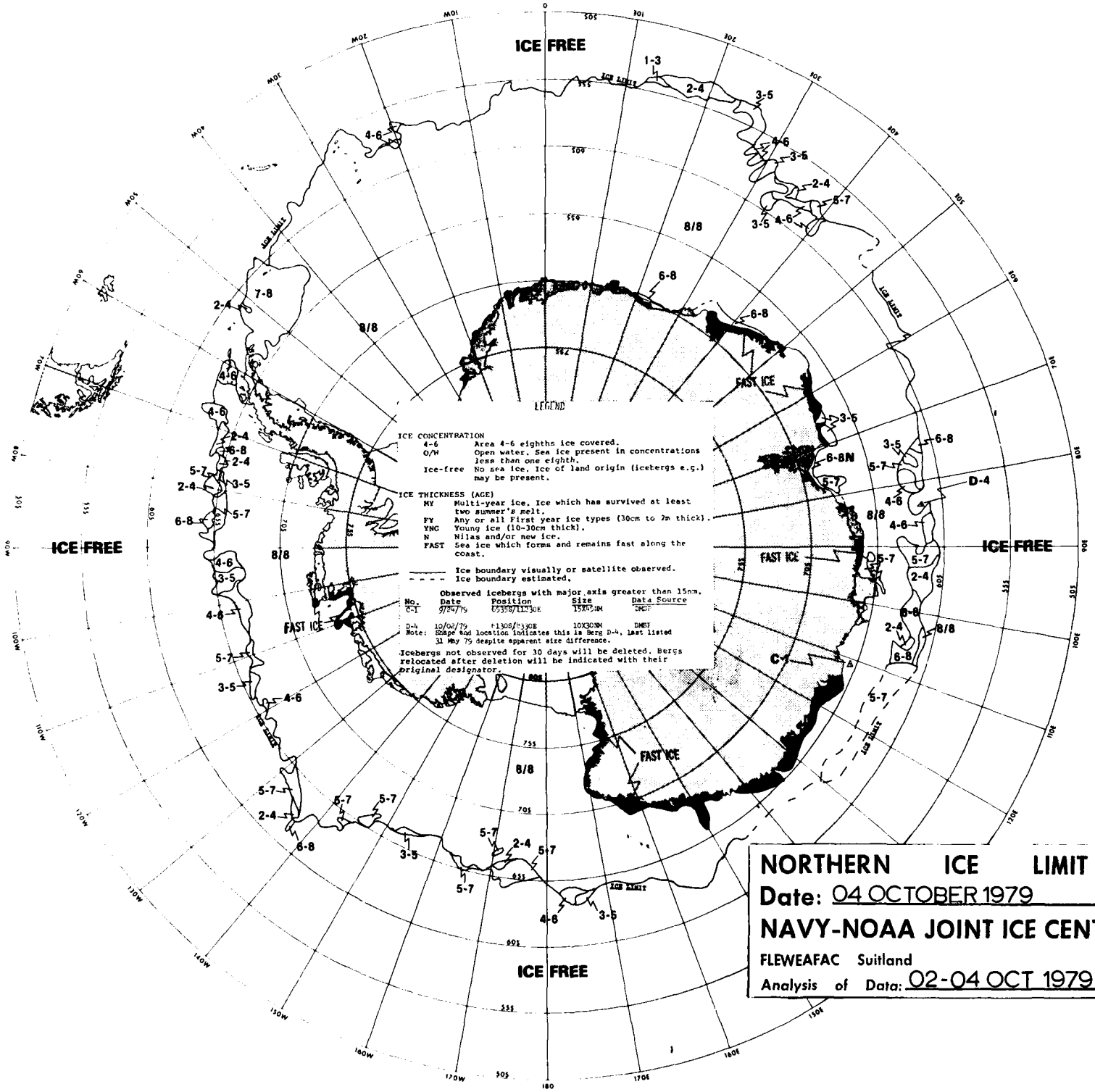
NORTHERN ICE LIMIT

Date: 27 SEPTEMBER 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 25-27 SEPT 1979



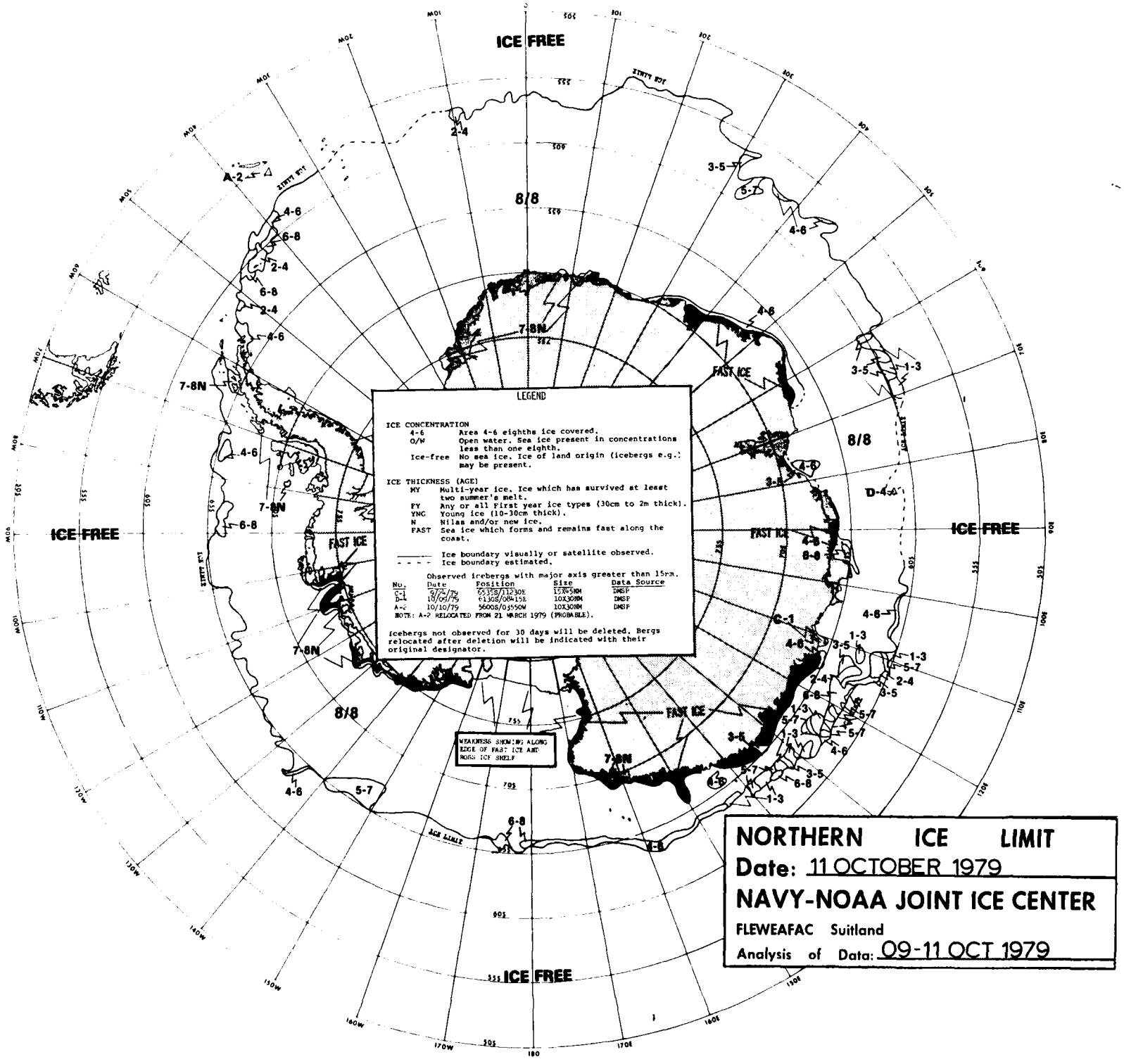
NORTHERN ICE LIMIT

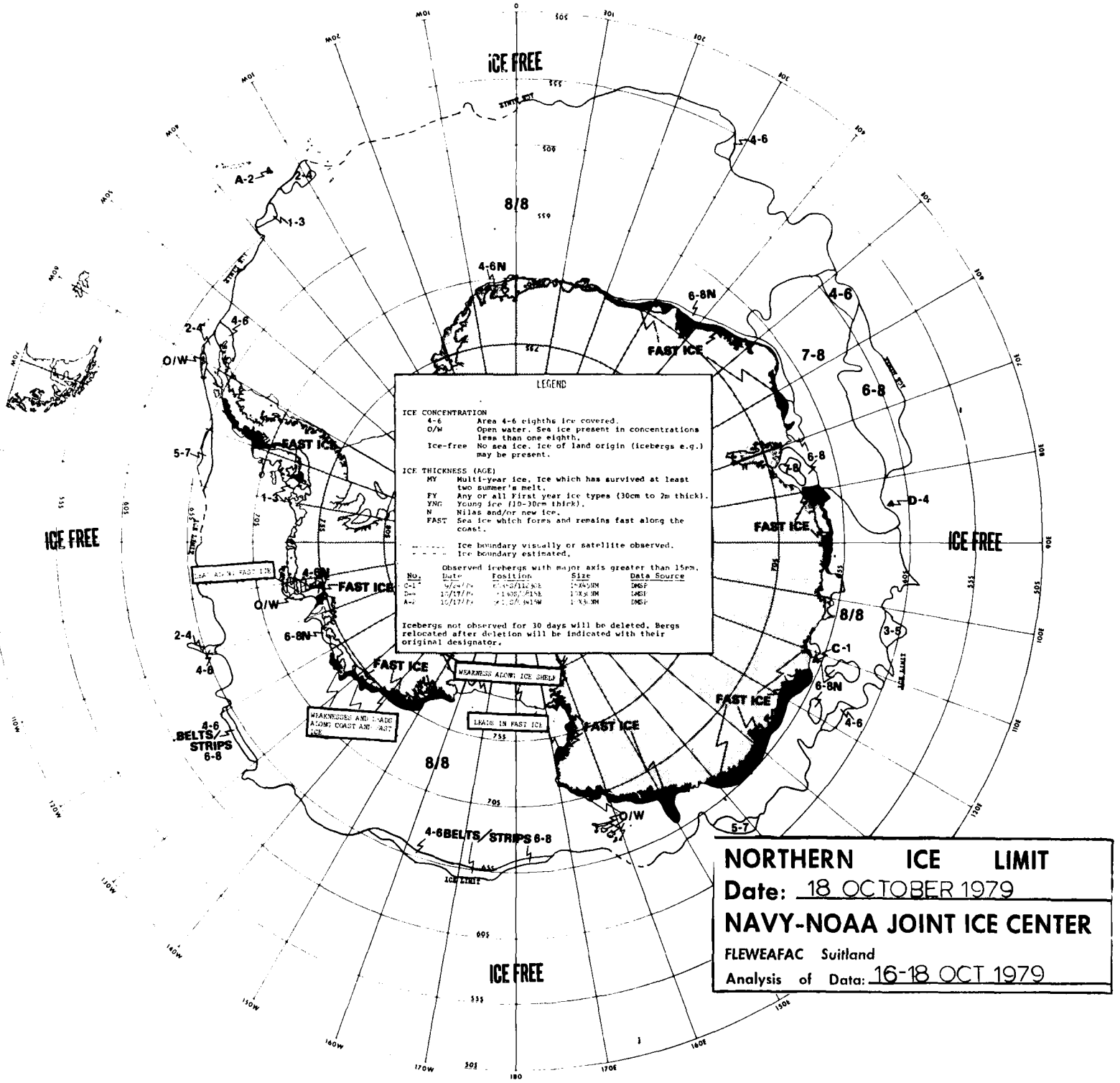
Date: 04 OCTOBER 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 02-04 OCT 1979


ICE FREE
ICE FREE
ICE FREE
ICE FREE
FAST ICE
FAST ICE
FAST ICE
8/8
8/8
8/8
7-8N
7-8N
7-8N
7-8N
A-2
D-4
C-1
WEAKNESS SHOWING ALONG EDGE OF FAST ICE AND NOAS ICE SHELF
LEGEND
ICE CONCENTRATION
4-6 Area 4-6 eighths ice covered.
O/W Open water. Sea ice present in concentrations less than one eighth.
Ice-free No sea ice. Ice of land origin (icebergs e.g.) may be present.
ICE THICKNESS (AGE)
MY Multi-year ice. Ice which has survived at least two summer's melt.
FY Any or all First year ice types (30cm to 2m thick).
YNG Young ice (10-30cm thick).
N Nilas and/or new ice.
FAST Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15nm.
No. Date Fosition Size Data Source
C-1 9/74/79 65358/112305 15X45NM DMSP
D-1 10/04/79 61605/084151 10X30NM DMSP
A-2 10/10/79 56005/035504 10X30NM DMSP
NOTE: A-2 RELOCATED FROM 21 MARCH 1979 (PROBABLE).
Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
NORTHERN ICE LIMIT
Date: 11 OCTOBER 1979
NAVY-NOAA JOINT ICE CENTER
FLEWEAFAC Suitland
Analysis of Data: 09-11 OCT 1979



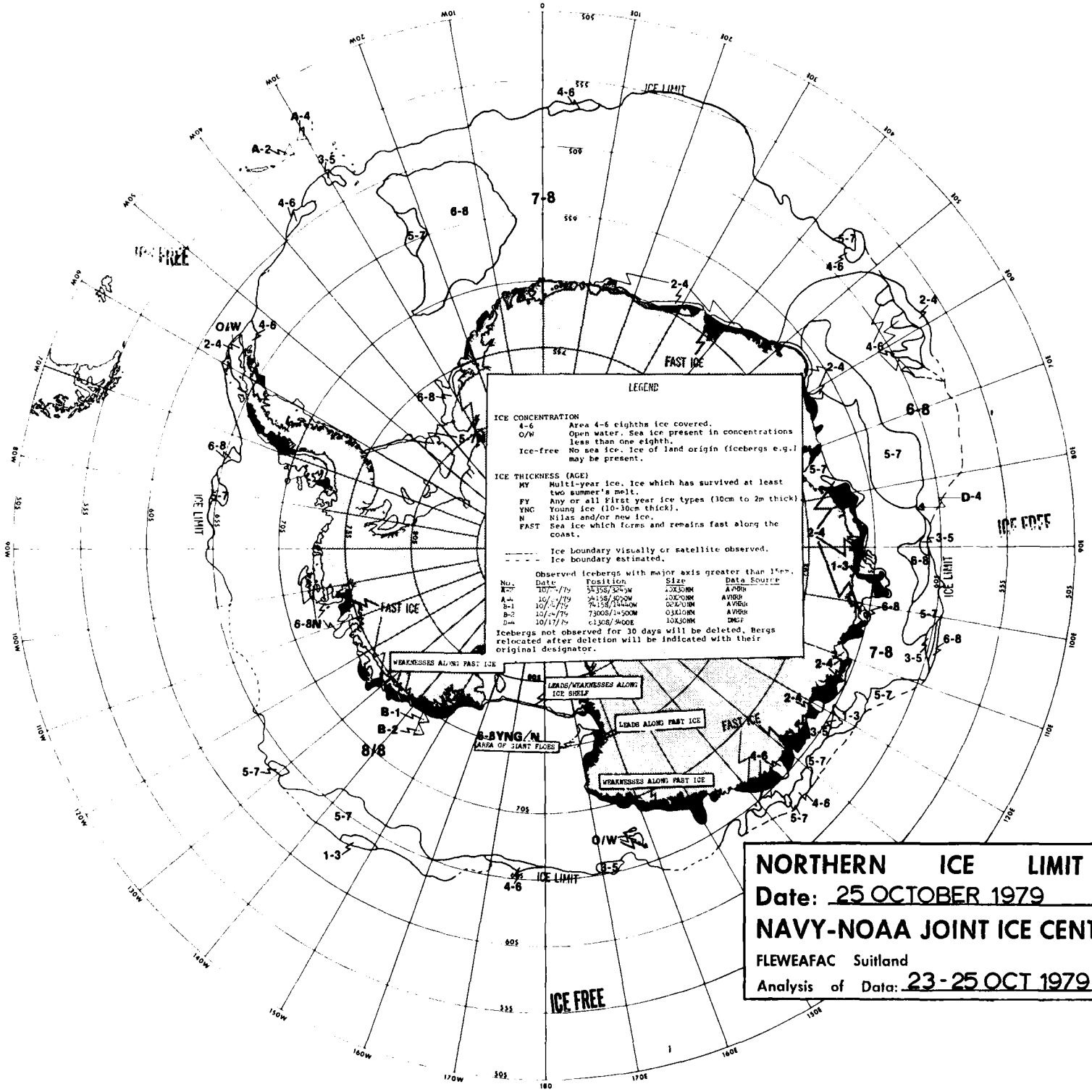
NORTHERN ICE LIMIT

Date: 18 OCTOBER 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 16-18 OCT 1979



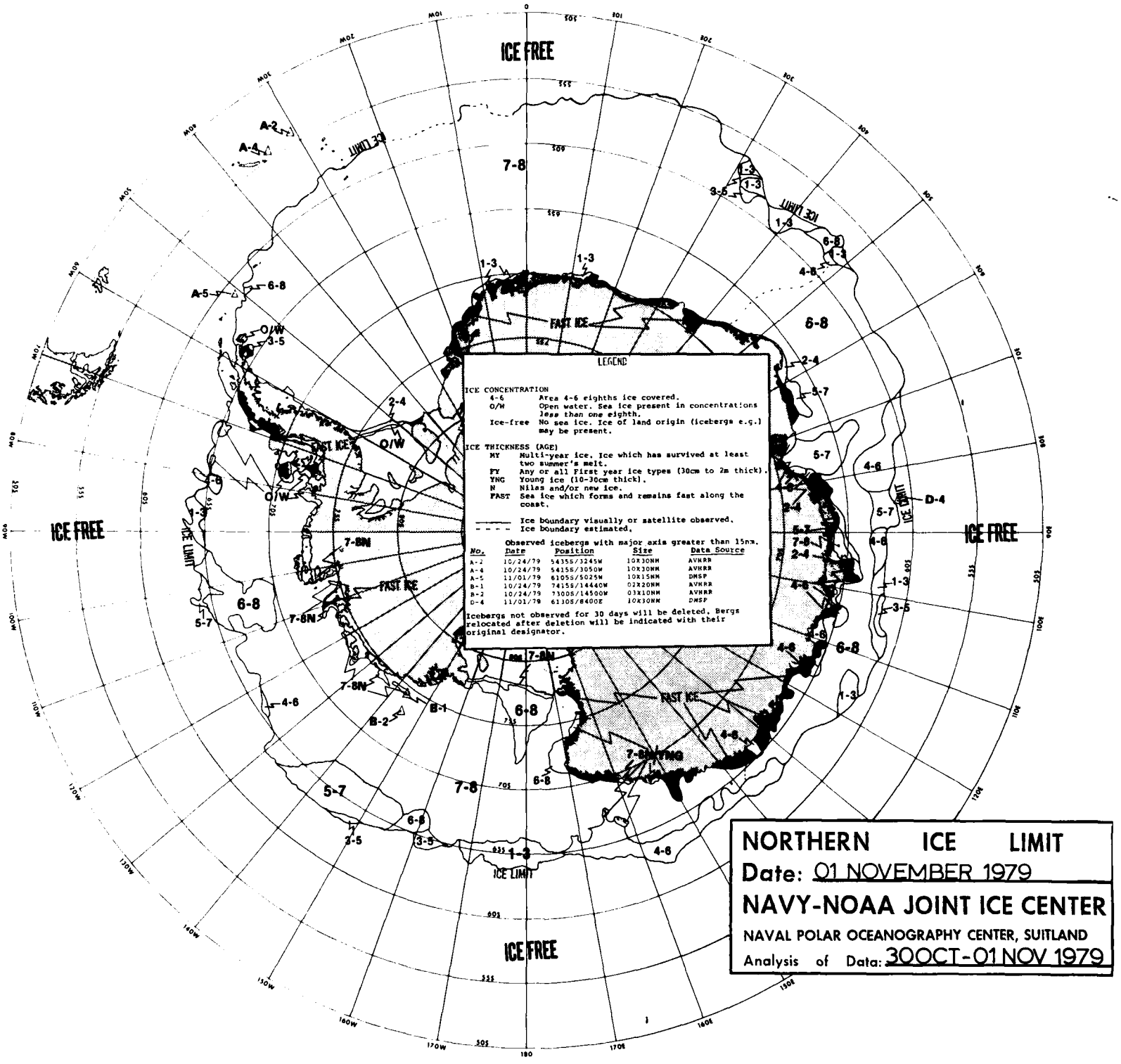
NORTHERN ICE LIMIT

Date: 25 OCTOBER 1979

NAVY-NOAA JOINT ICE CENTER

FLEWEAFAC Suitland

Analysis of Data: 23-25 OCT 1979



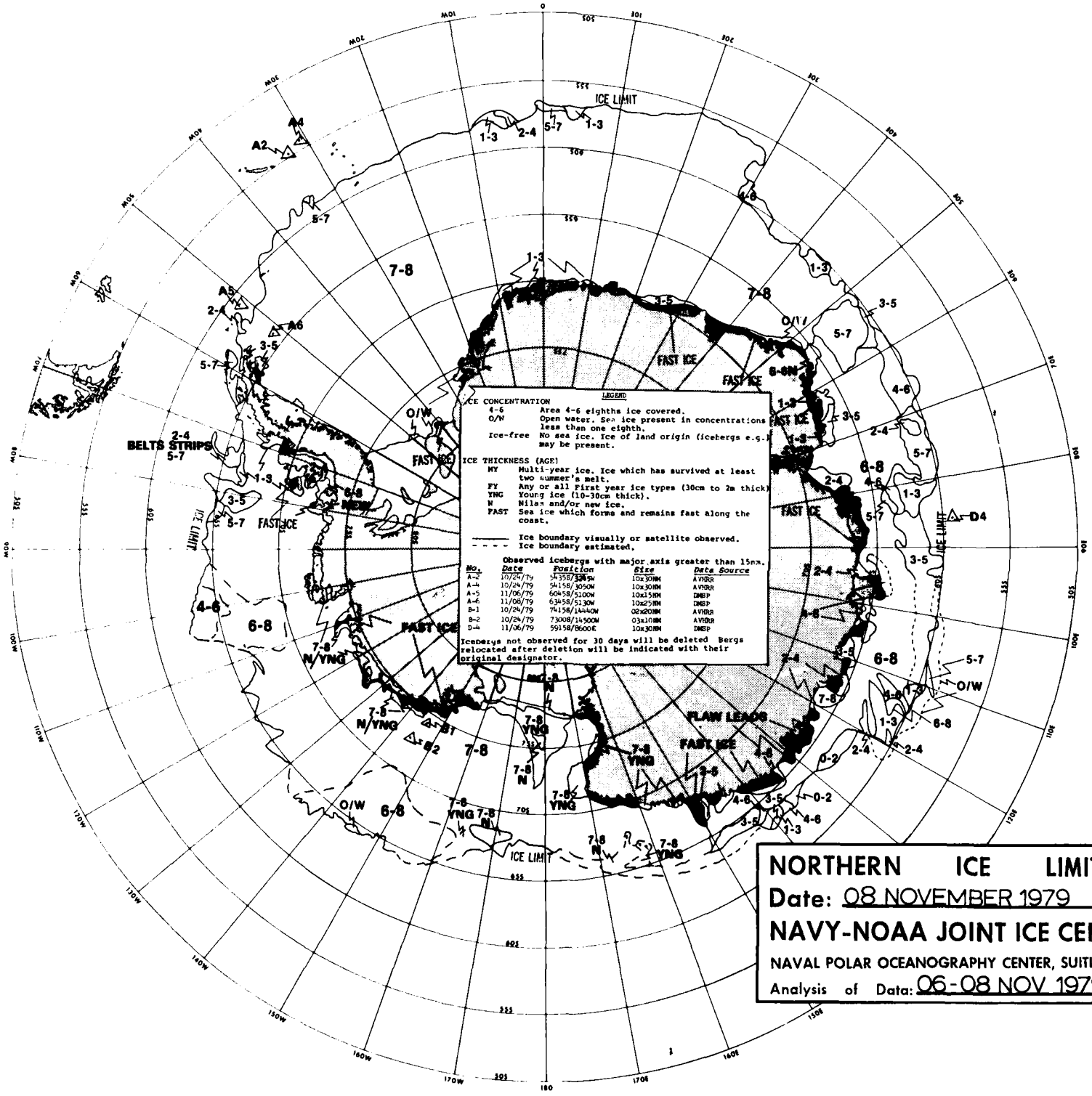
NORTHERN ICE LIMIT

Date: 01 NOVEMBER 1979

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 30OCT-01NOV 1979



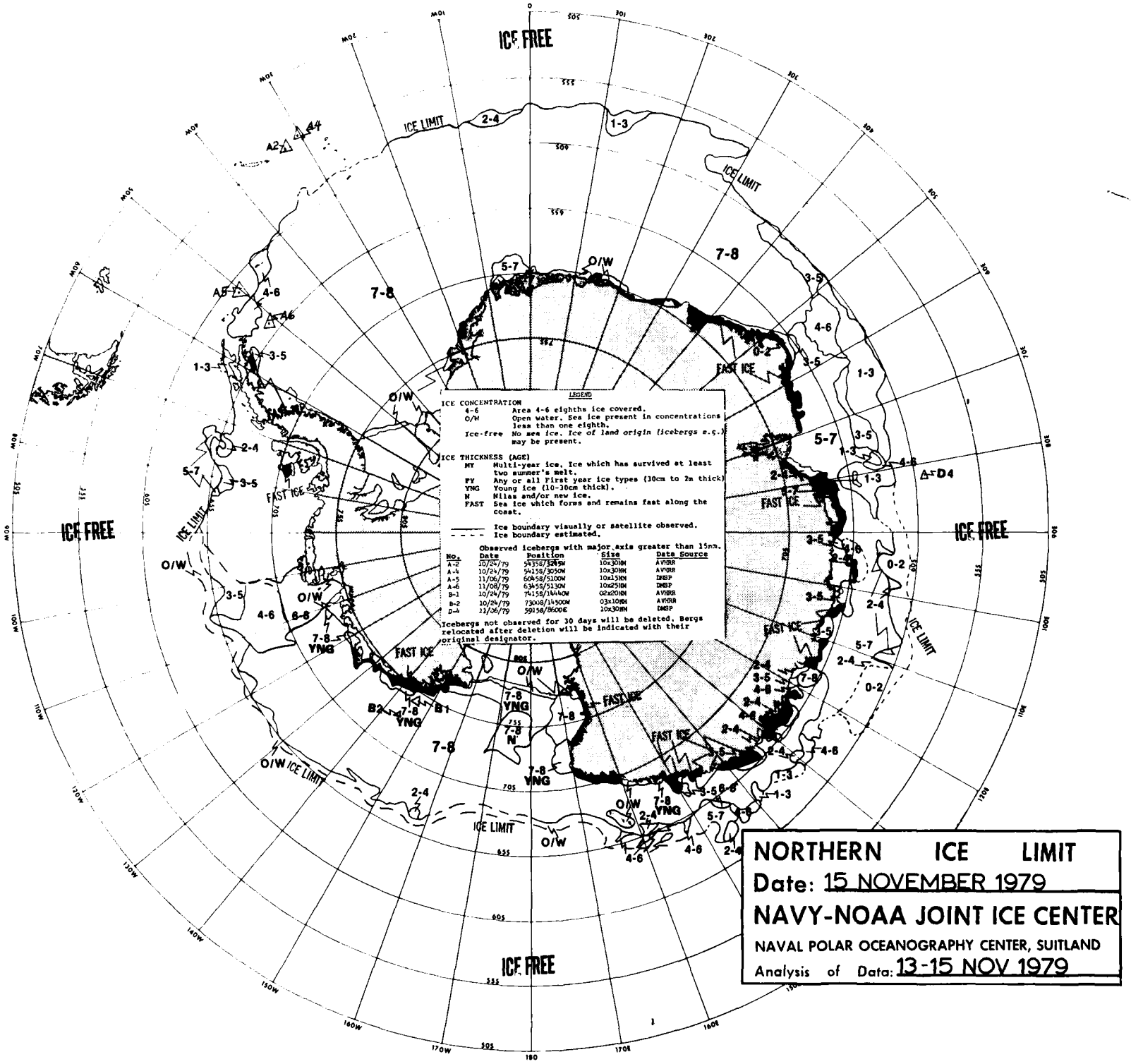
NORTHERN ICE LIMIT

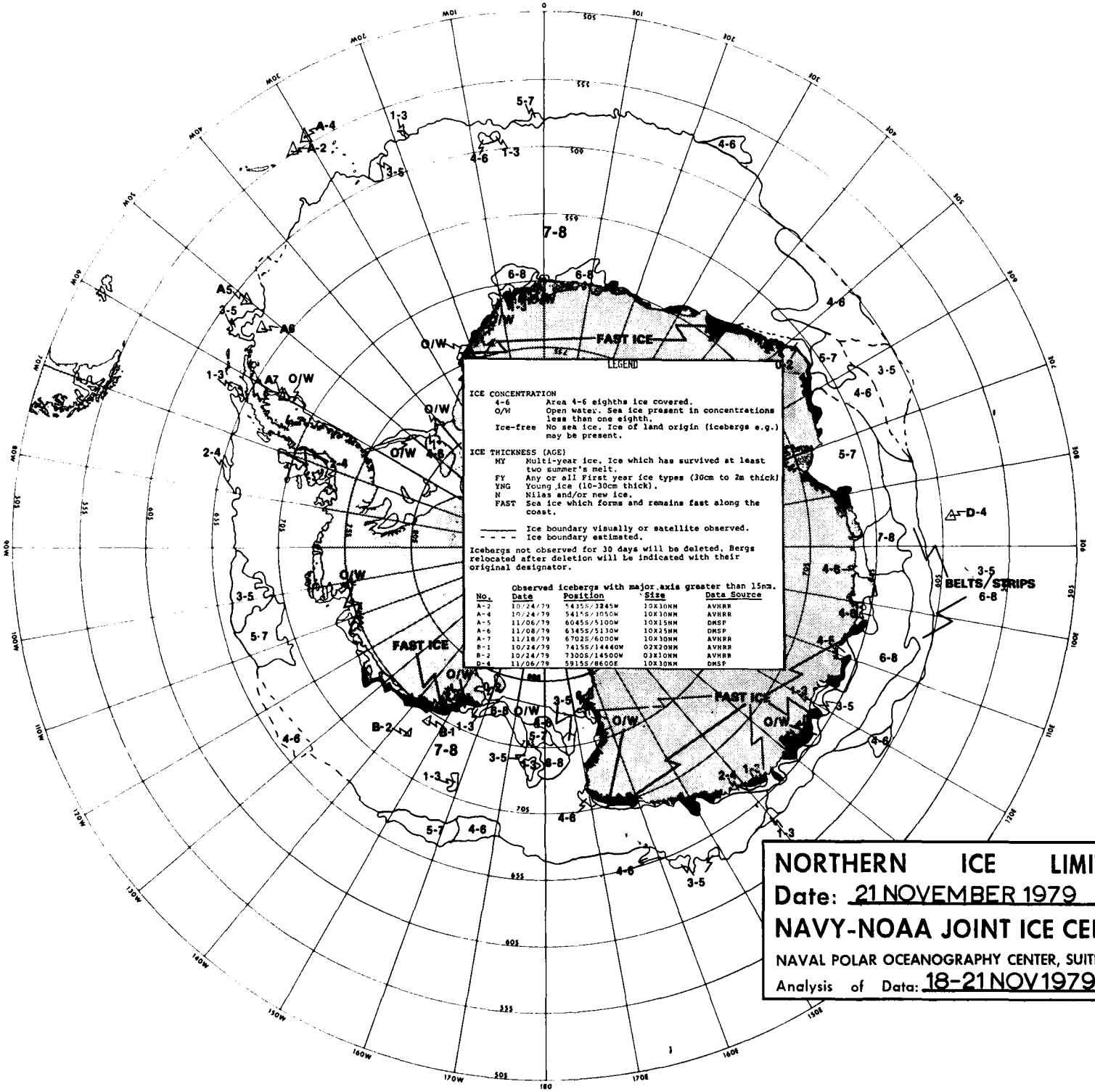
Date: 08 NOVEMBER 1979

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 06-08 NOV 1979


ICE FREE
ICE LIMIT
FAST ICE
O/W
O/W ICE LIMIT
7-8
5-7
4-6
3-5
2-4
1-3
0-2
7-8 YNG
7-8 N
A2
A4
A5
A6
B1
B2
D4
ICE CONCENTRATION
4-6 Area 4-6 eighths ice covered.
O/W Open water. Sea ice present in concentrations less than one eighth.
Ice-free No sea ice. Ice of land origin (icebergs e.g.) may be present.
ICE THICKNESS (AGE)
MY Multi-year ice. Ice which has survived at least two summer's melt.
FY Any or all First year ice types (30cm to 2m thick)
YNG Young ice (10-30cm thick).
N Nilas and/or new ice.
FAST Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15nm.
No. Date Position Size Data Source
A-2 10/24/79 54358/3245W 10x30NM AVHRR
A-4 10/24/79 54158/3050W 10x30NM AVHRR
A-5 11/06/79 60458/5100W 10x15NM DMSP
A-6 11/08/79 63455/5130W 10x25NM DMSP
B-1 10/24/79 74158/1444W 02x20NM AVHRR
B-2 10/24/79 73008/1450OW 03x10NM AVHRR
D-4 11/06/79 59158/3600E 10x30NM DMSP
Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
NORTHERN ICE LIMIT
Date: 15 NOVEMBER 1979
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
Analysis of Data: 13-15 NOV 1979



LEGEND

ICE CONCENTRATION

4-6	Area 4-6 eighths ice covered.
O/W	Open water. Sea ice present in concentrations less than one eighth.
Ice-free	No sea ice. Ice of land origin (icebergs e.g.) may be present.

ICE THICKNESS (AGE)

MY	Multi-year ice. Ice which has survived at least two summer's melt.
FY	Any or all First year ice types (30cm to 2m thick)
YNG	Young ice (10-30cm thick).
N	Nilas and/or new ice.
FAST	Sea ice which forms and remains fast along the coast.

———— Ice boundary visually or satellite observed.
- - - - Ice boundary estimated.

Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.

Observed icebergs with major axis greater than 15nm.

No.	Date	Position	Size	Data Source
A-2	10/24/79	54355/3245W	10X10NM	AVHRR
A-4	10/24/79	54155/3050W	10X10NM	AVHRR
A-5	11/06/79	60455/5100W	10X15NM	DMSP
A-6	11/08/79	63455/5130W	10X25NM	DMSP
A-7	11/18/79	67025/6000W	10X30NM	AVHRR
B-1	10/24/79	74155/14440W	02X20NM	AVHRR
B-2	10/24/79	73005/14500W	03X10NM	AVHRR
D-4	11/06/79	59155/8600E	10X10NM	DMSP

NORTHERN ICE LIMIT

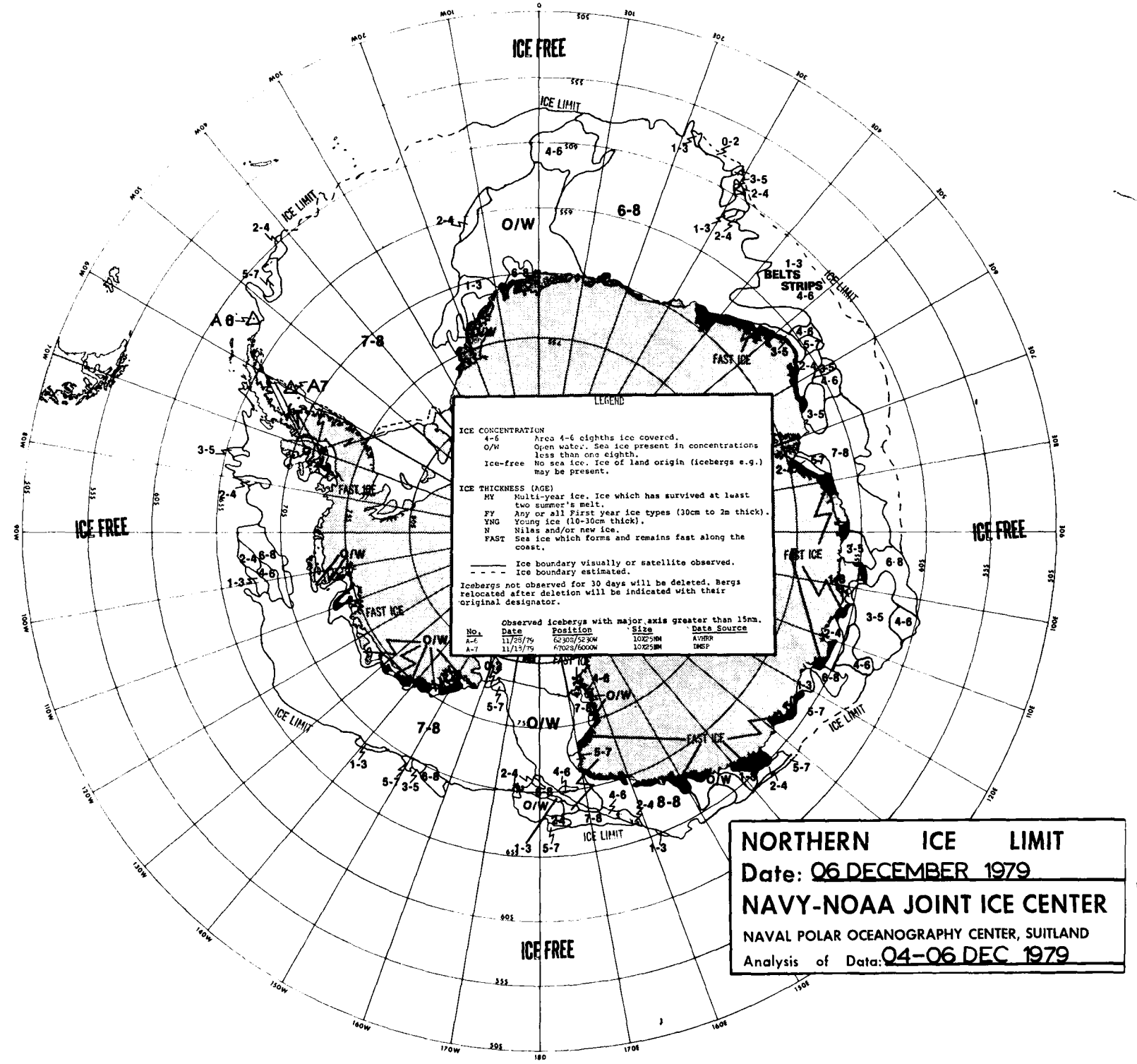
Date: 21 NOVEMBER 1979

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 18-21 NOV 1979

ICE FREE
ICE FREE
ICE FREE
ICE FREE
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
FAST ICE
FAST ICE 0-2
FAST ICE
FAST ICE
FAST ICE
FAST ICE
3-5 BELTS 5-7
0-2 BELTS/STRIPS 5-7
A5
A6
D-4
O/W
7-8
6-8
4-6
3-5
2-4
1-3
5-7
0-2
LEGEND
ICE CONCENTRATION
4-6 Area 4-6 eighths ice covered.
O/W Open water. Sea ice present in concentrations less than one eighth.
Ice-free No sea ice. Ice of land origin (icebergs e.g.) may be present.
ICE THICKNESS (AGE)
MY Multi-year ice. Ice which has survived at least two summer's melt.
FY Any or all First year ice types (30cm to 2m thick)
YNG Young ice (10-30cm thick).
N Nilas and/or new ice.
FAST Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
Observed icebergs with major axis greater than 15nm.
No. Date Position Size Data Source
A-5 11/06/79 60455/5100W 10X15NM DMSP
A-6 11/28/79 62305/5230W 10X25NM AVHRR
A-7 11/18/79 67028/6000W 10X25NM DMSP
D-4 11/06/79 59155/8600E 10X10NM DMSP
NORTHERN ICE LIMIT
Date: 28 NOVEMBER 1979
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
Analysis of Data: 26 - 28 NOV 1979



LEGEND

ICE CONCENTRATION

4-6	Area 4-6 eighths ice covered.
O/W	Open water. Sea ice present in concentrations less than one eighth.
Ice-free	No sea ice. Ice of land origin (icebergs e.g.) may be present.

ICE THICKNESS (AGE)

MY	Multi-year ice. Ice which has survived at least two summer's melt.
FY	Any or all First year ice types (30cm to 2m thick).
YNG	Young ice (10-30cm thick).
N	Nilas and/or new ice.
FAST	Sea ice which forms and remains fast along the coast.

———— Ice boundary visually or satellite observed.
- - - - Ice boundary estimated.

Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.

Observed icebergs with major axis greater than 15nm.

No.	Date	Position	Size	Data Source
A-6	11/28/79	62308/5230W	10X25NM	AVHRR
A-7	11/13/79	67028/6000W	10X25NM	DMSP

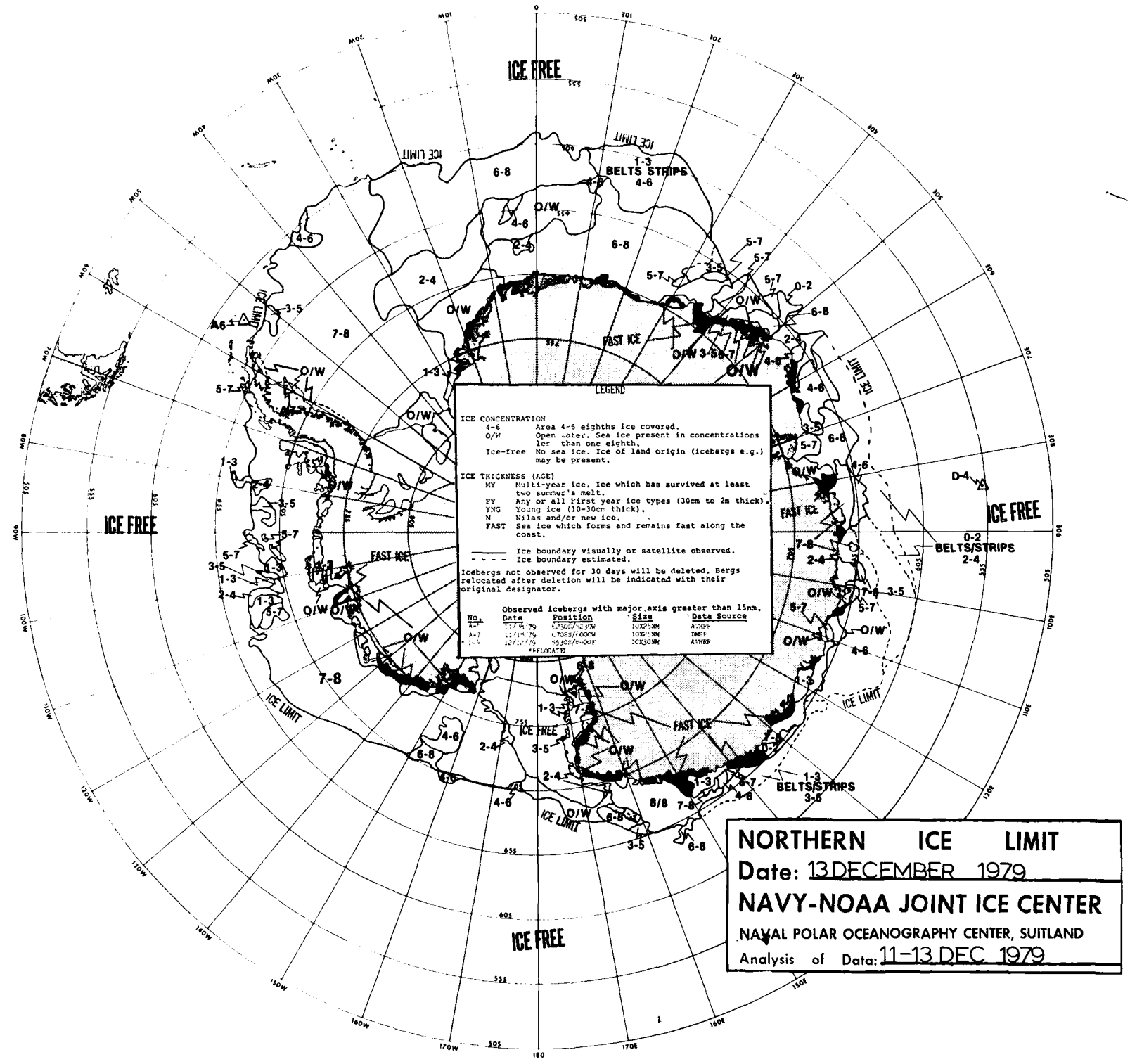
NORTHERN ICE LIMIT

Date: 06 DECEMBER 1979

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 04-06 DEC 1979



LEGEND

ICE CONCENTRATION

4-6	Area 4-6 eighths ice covered.
O/W	Open water. Sea ice present in concentrations less than one eighth.
Ice-free	No sea ice. Ice of land origin (icebergs e.g.) may be present.

ICE THICKNESS (AGE)

MY	Multi-year ice. Ice which has survived at least two summer's melt.
FY	Any or all First year ice types (30cm to 2m thick).
YNG	Young ice (10-30cm thick).
N	Nilas and/or new ice.
FAST	Sea ice which forms and remains fast along the coast.

——— Ice boundary visually or satellite observed.
- - - - Ice boundary estimated.

Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.

Observed icebergs with major axis greater than 15nm.

No.	Date	Position	Size	Data Source
A-7	11/14/79	67°30'S/62°10'W	10X25NM	AVHRR
A-7	11/14/79	67°03'S/60°00'W	10X25NM	DMSP
I-4	12/1/79	65°30'S/64°00'E	10X30NM	AVHRR

*RELOCATED

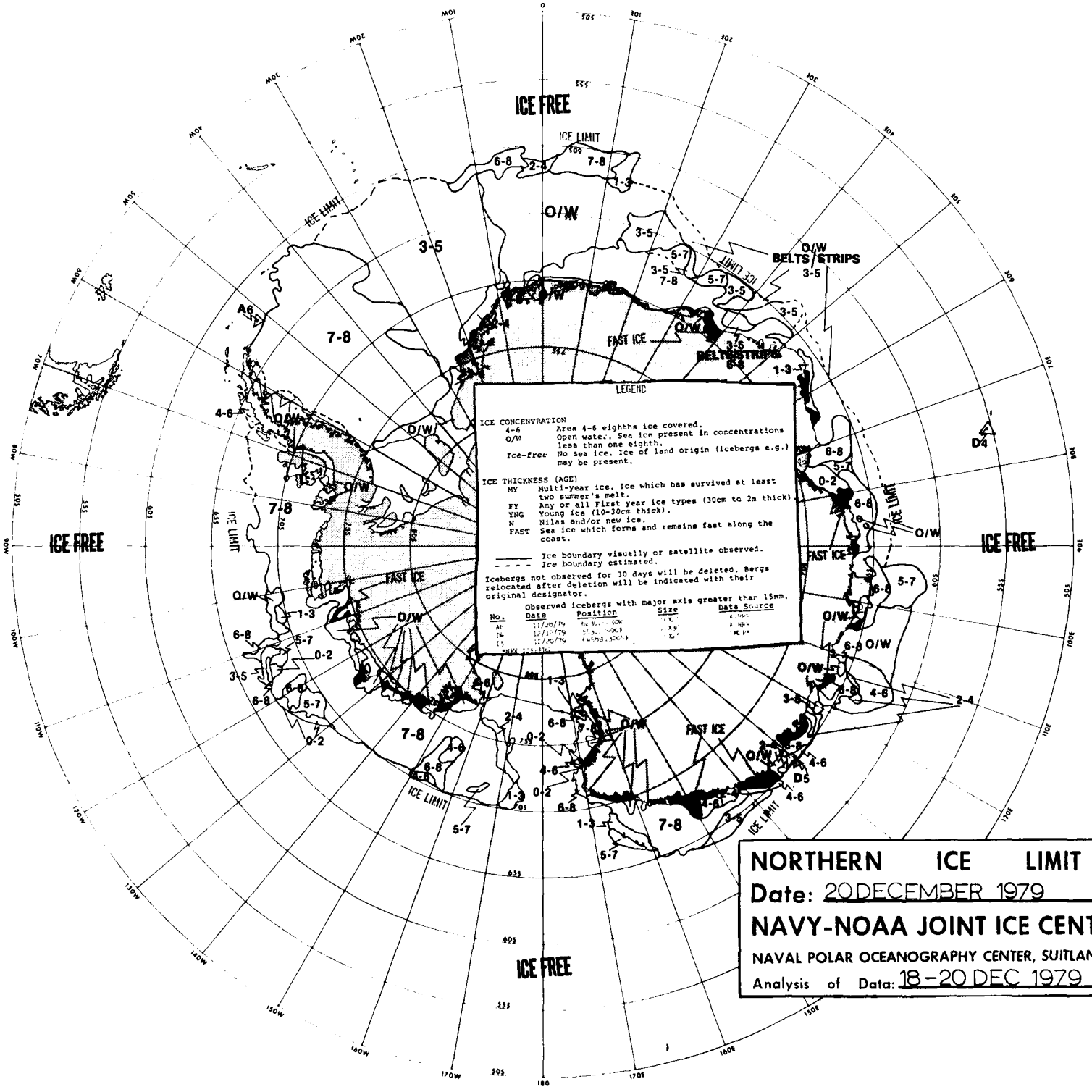
NORTHERN ICE LIMIT

Date: 13 DECEMBER 1979

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 11-13 DEC 1979



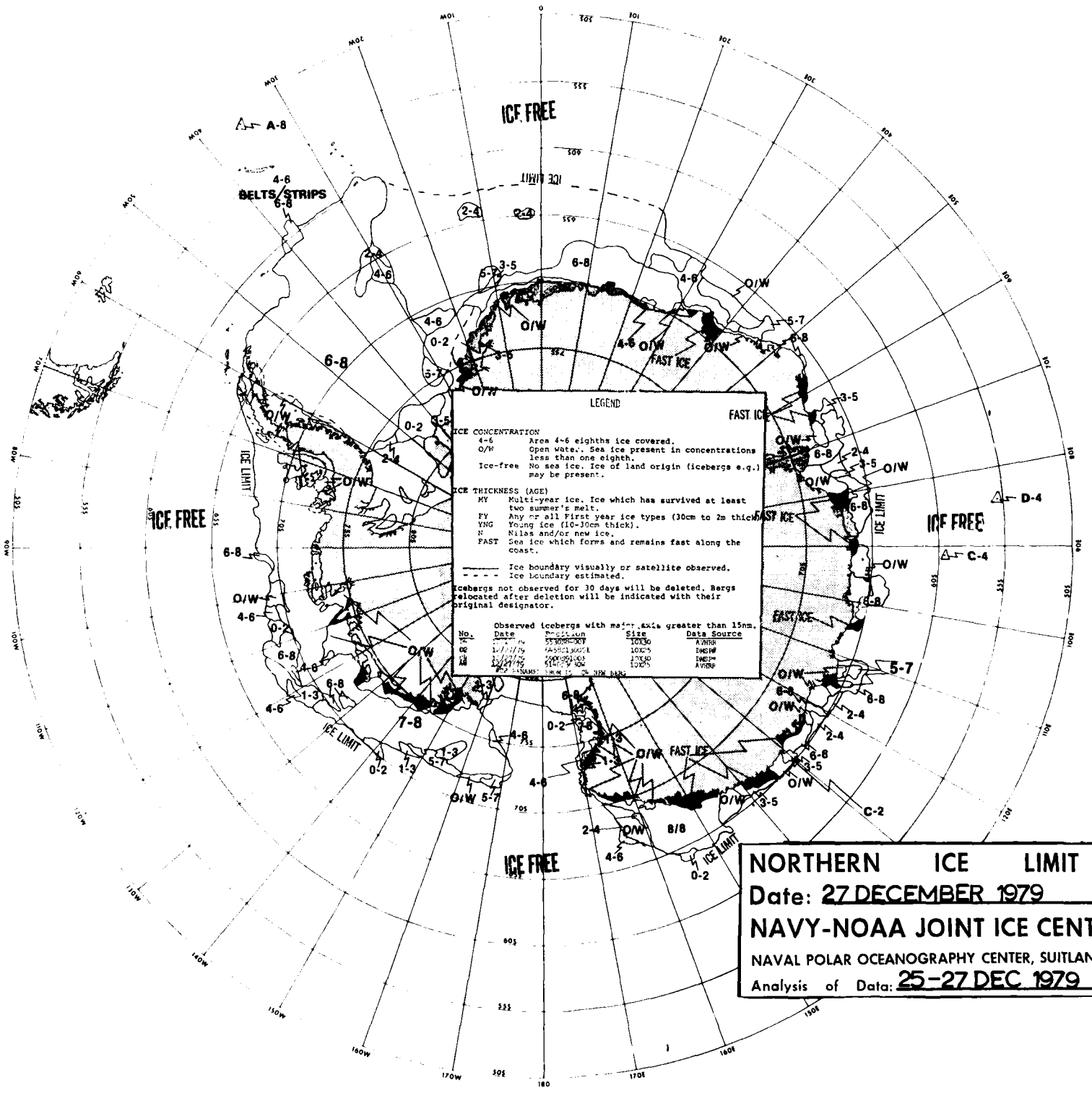
NORTHERN ICE LIMIT

Date: 20 DECEMBER 1979

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 18-20 DEC 1979



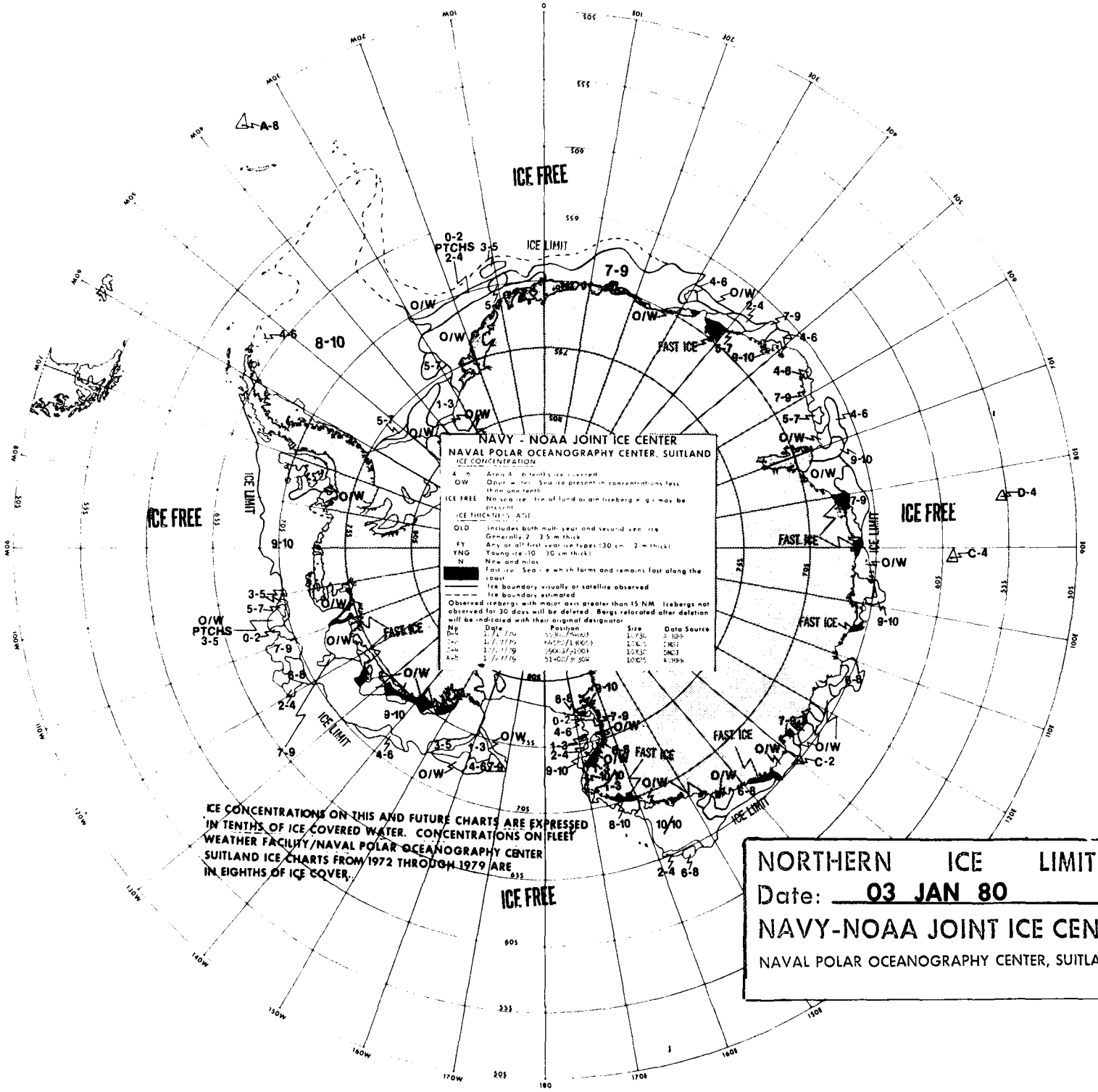
NORTHERN ICE LIMIT

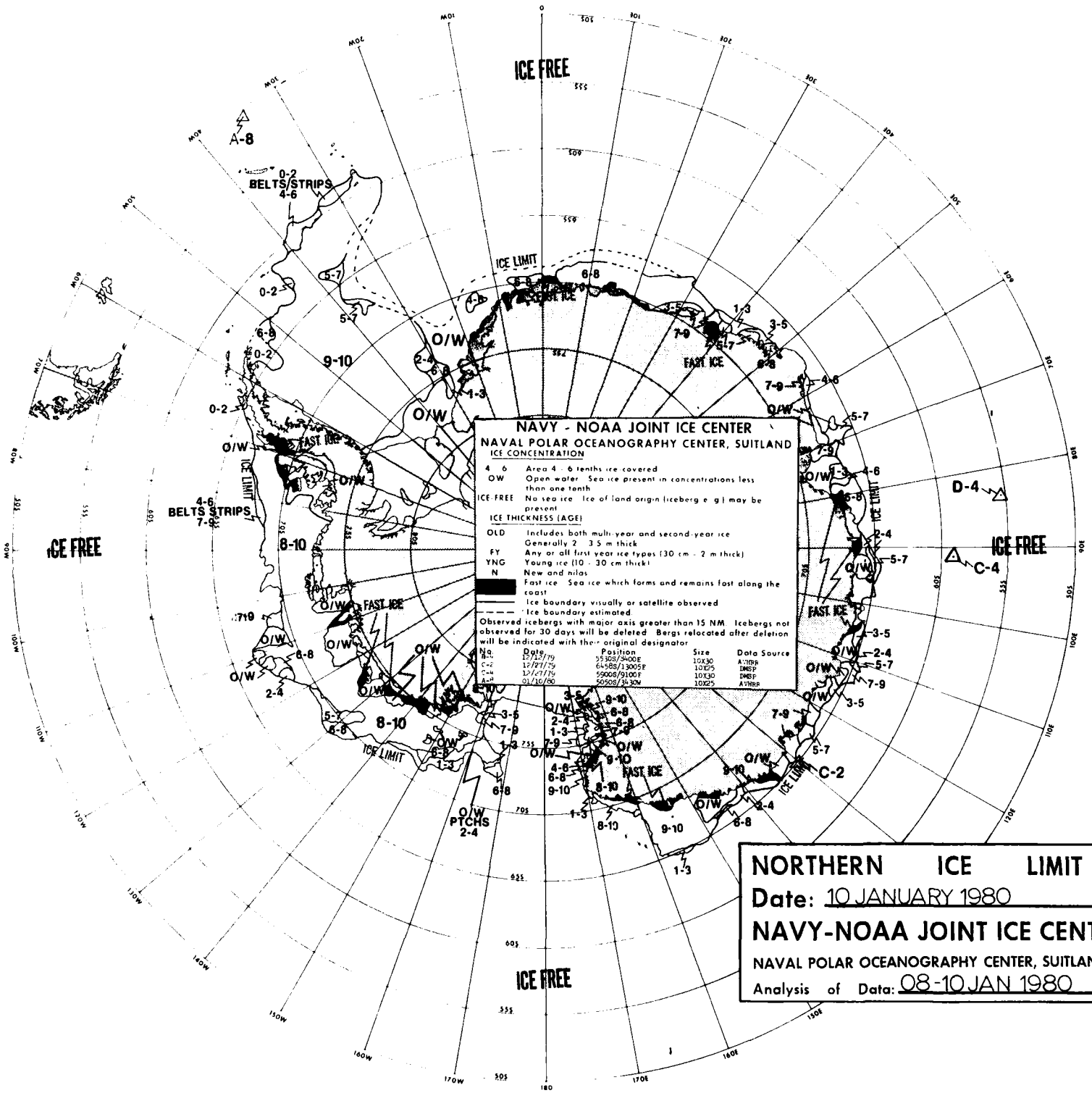
Date: 27 DECEMBER 1979

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 25-27 DEC 1979


NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
OW Open water - Small ice present in concentrations less than one tenth
ICE FREE No sea ice - Ice of land origin (icebergs e.g.) may be present
ICE THICKNESS / AGE
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick
FY Any or all first-year ice types (30 cm - 2 m thick)
YNG Young ice (10 - 30 cm thick)
N New and nilas
Fast ice - Seaward extension of land-formed or grounded ice which forms and remains fast along the coast
Ice boundary visually or satellite observed
Ice boundary estimated
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
ICE FREE
ICE LIMIT
FAST ICE
O/W
PTCHS
A-8
C-4
D-4
C-2
8-10
7-9
9-10
10/10
ICE CONCENTRATIONS ON THIS AND FUTURE CHARTS ARE EXPRESSED IN TENTHS OF ICE COVERED WATER. CONCENTRATIONS ON FLEET WEATHER FACILITY/NAVAL POLAR OCEANOGRAPHY CENTER SUITLAND ICE CHARTS FROM 1972 THROUGH 1979 ARE IN EIGHTHS OF ICE COVER.
NORTHERN ICE LIMIT
Date: 03 JAN 80
NAVY-NOAA JOINT ICE CENTE
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND



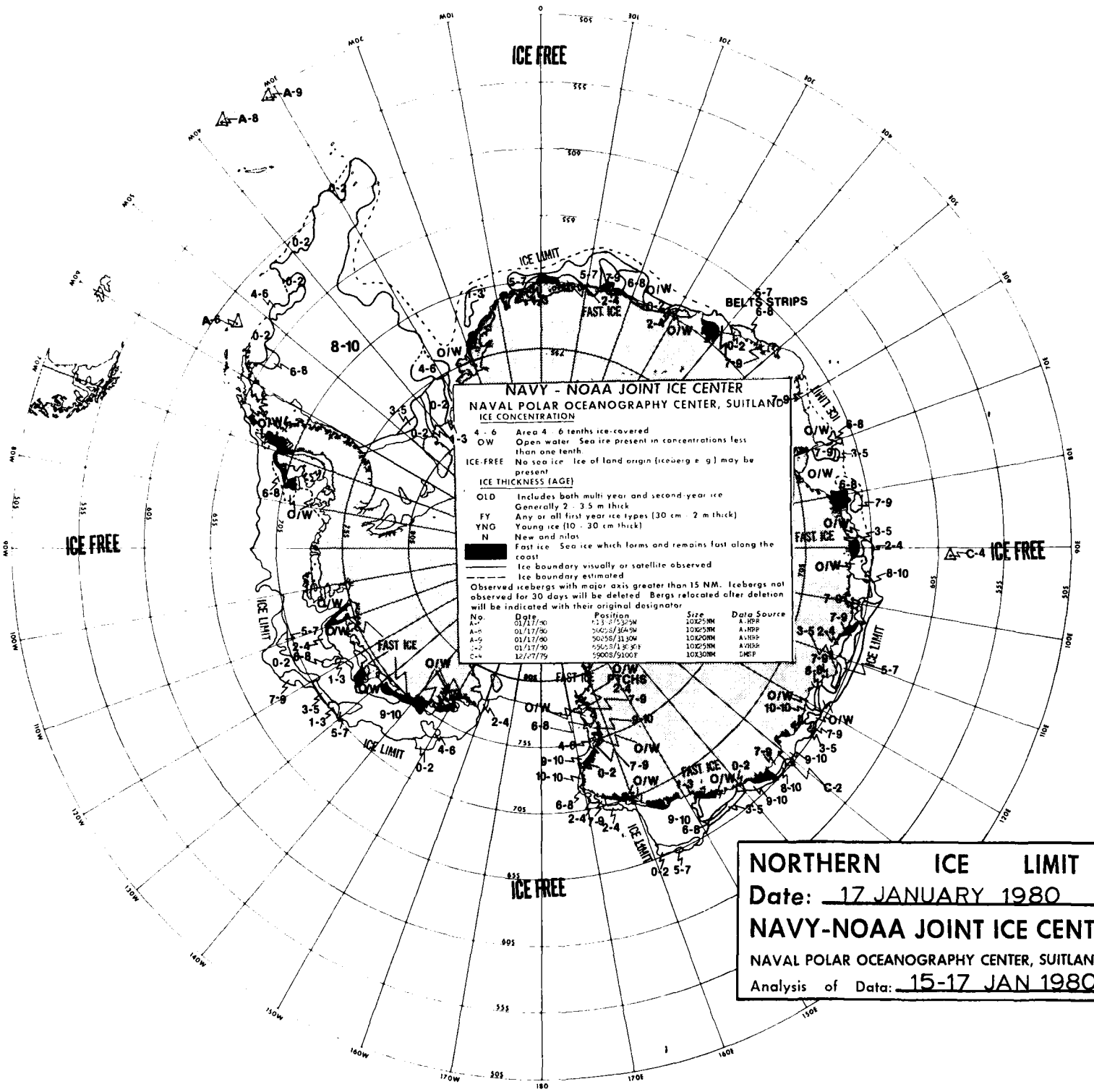
NORTHERN ICE LIMIT

Date: 10 JANUARY 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 08-10 JAN 1980



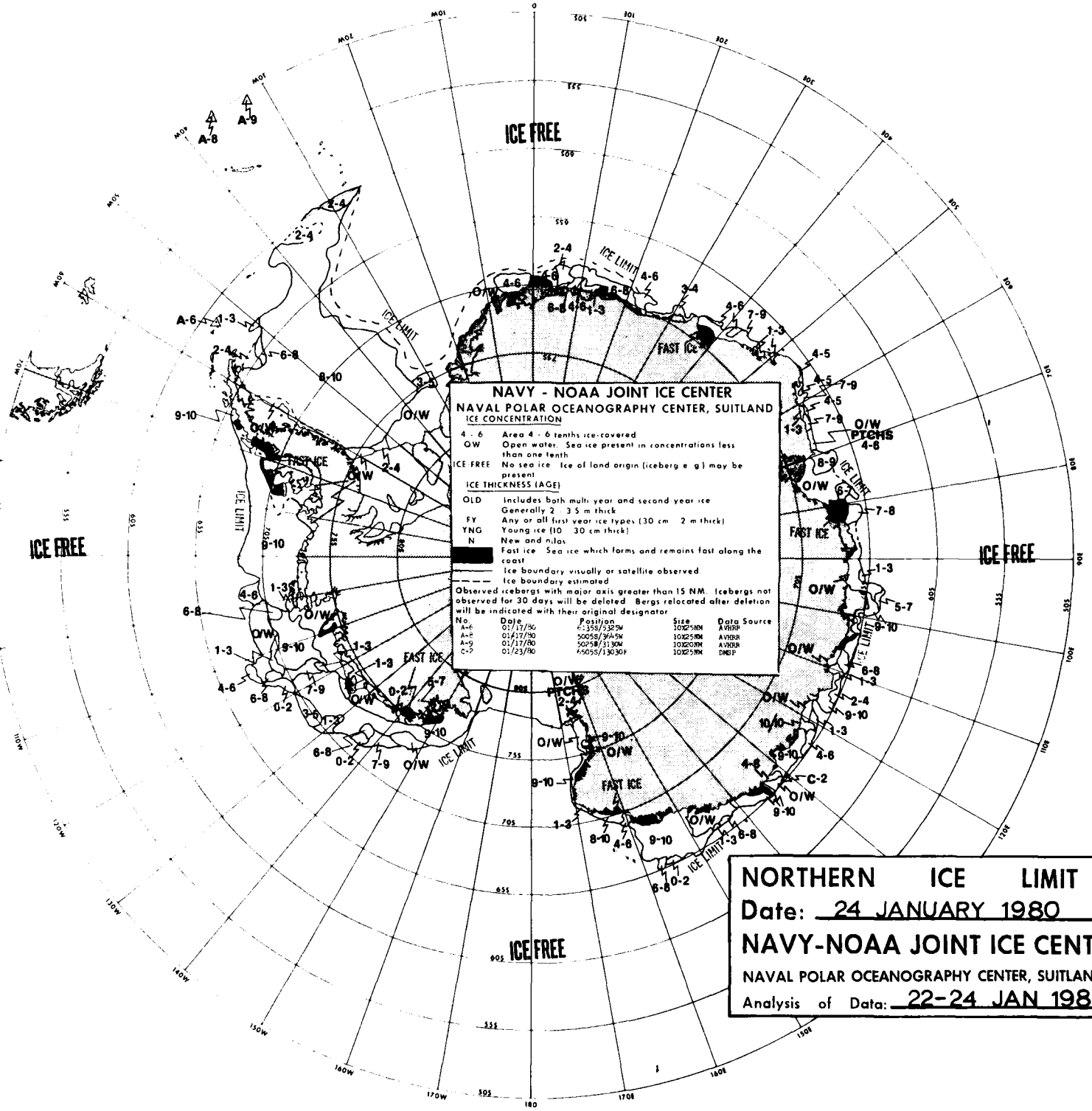
NORTHERN ICE LIMIT

Date: 17 JANUARY 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 15-17 JAN 1980



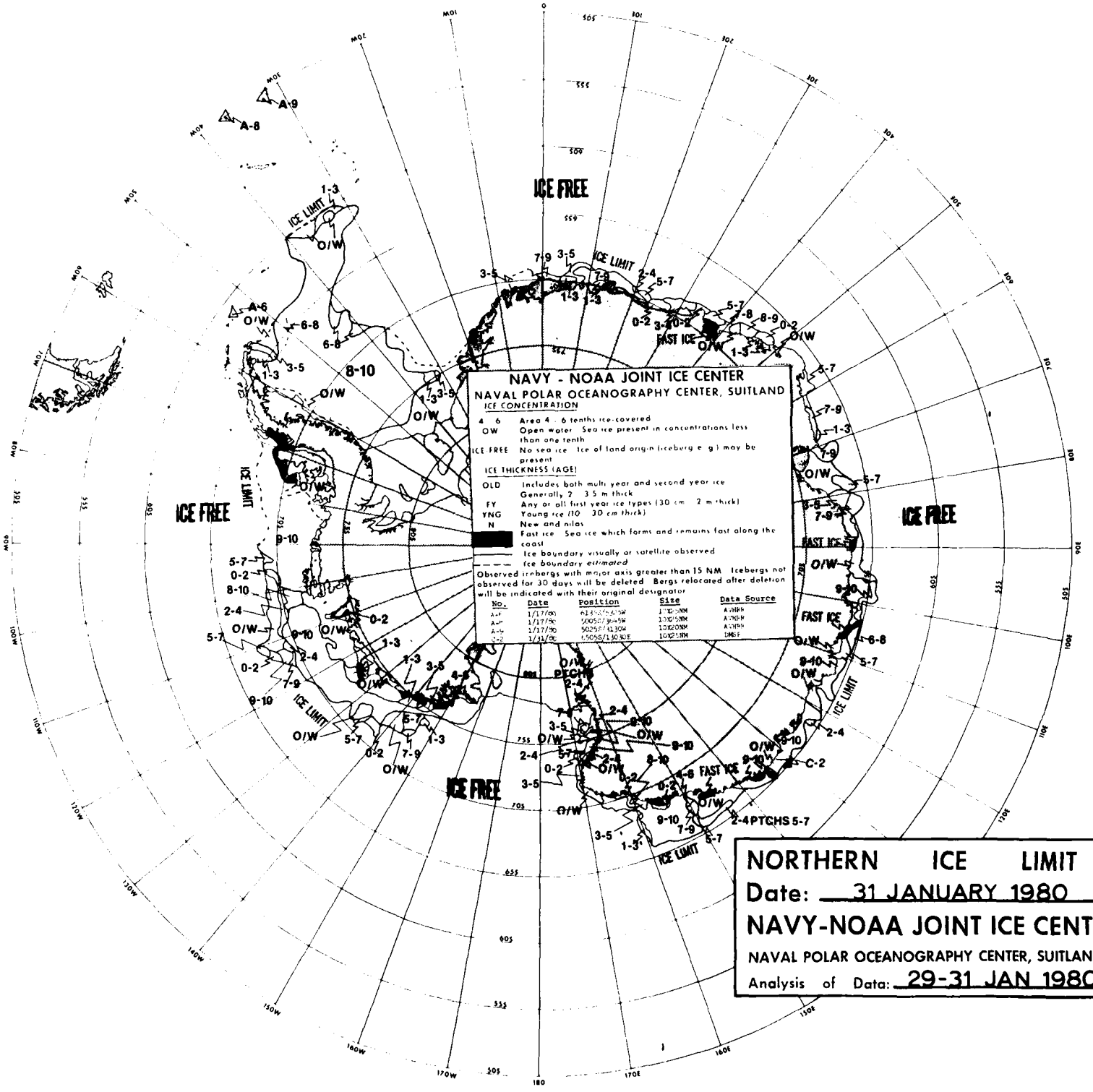
NORTHERN ICE LIMIT

Date: 24 JANUARY 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 22-24 JAN 1980



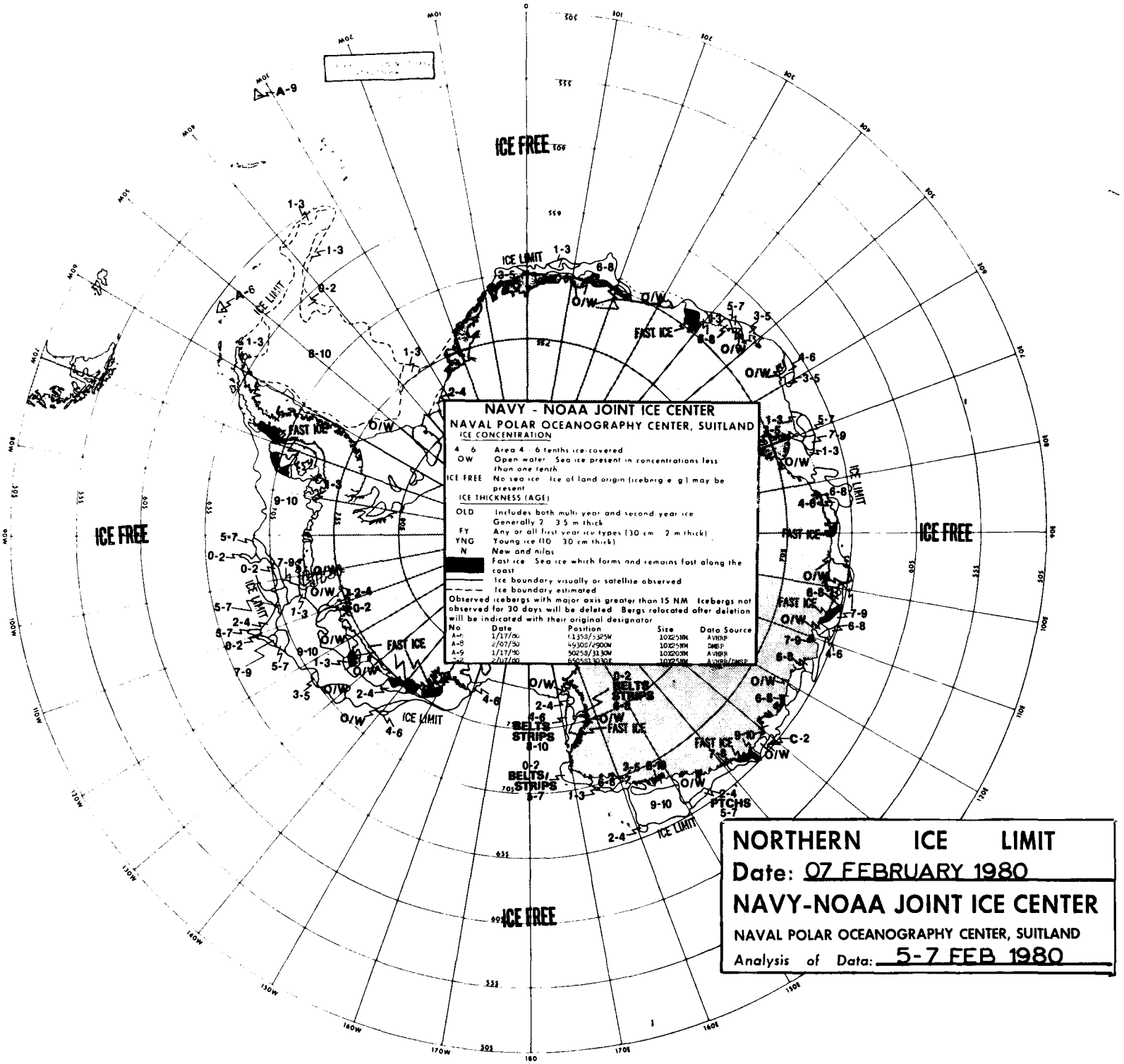
NORTHERN ICE LIMIT

Date: 31 JANUARY 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 29-31 JAN 1980



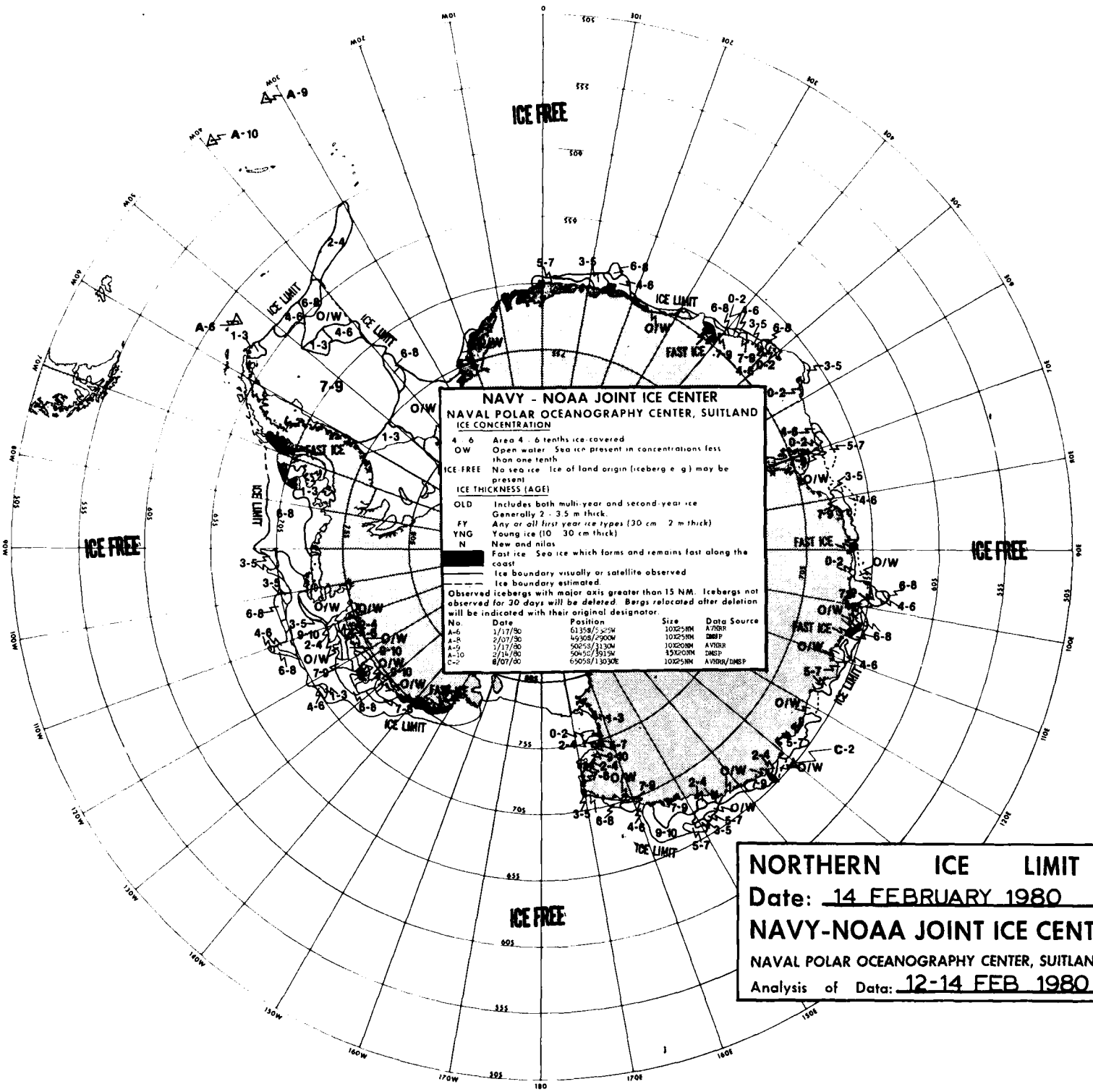
NORTHERN ICE LIMIT

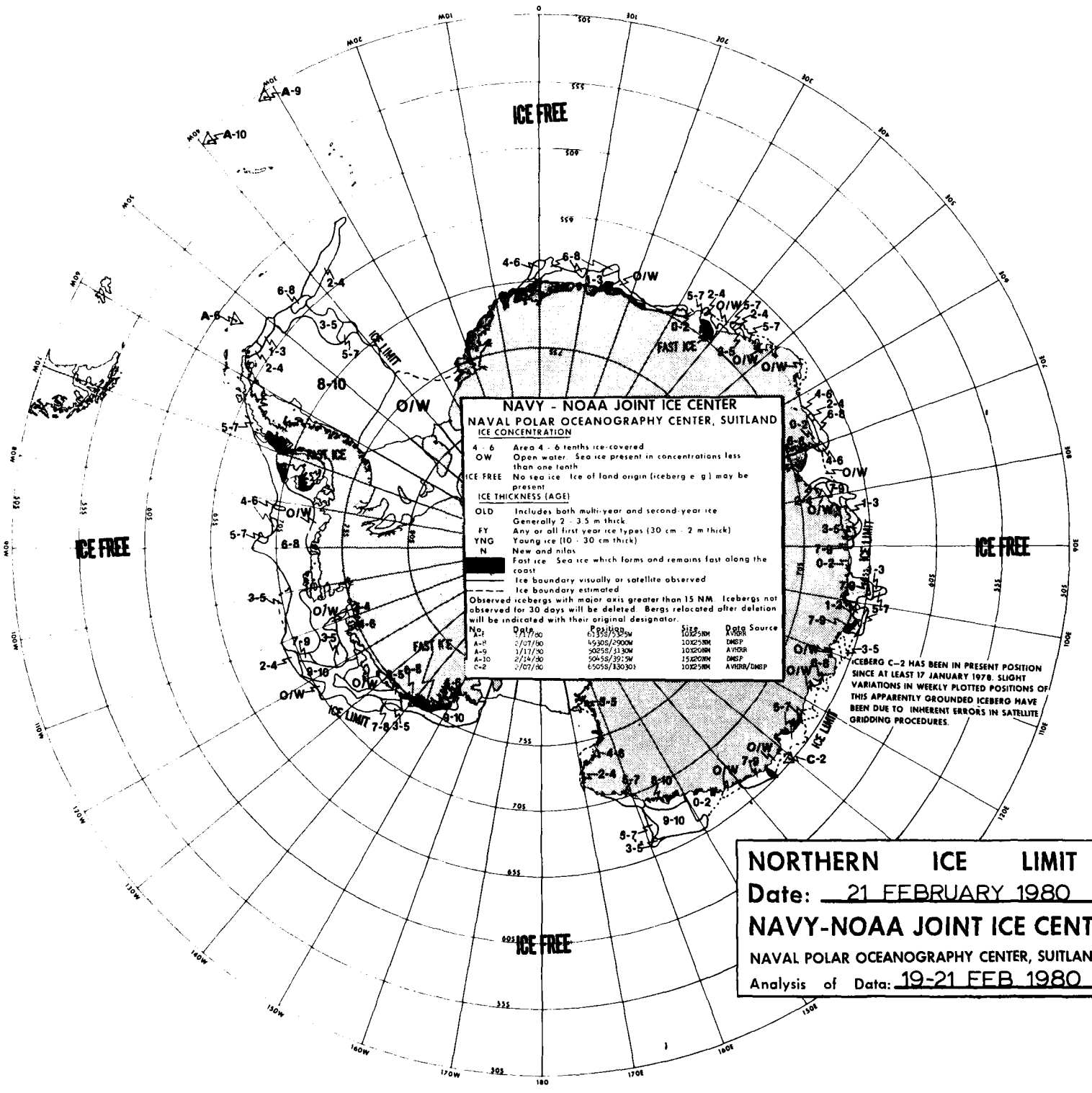
Date: 07 FEBRUARY 1980

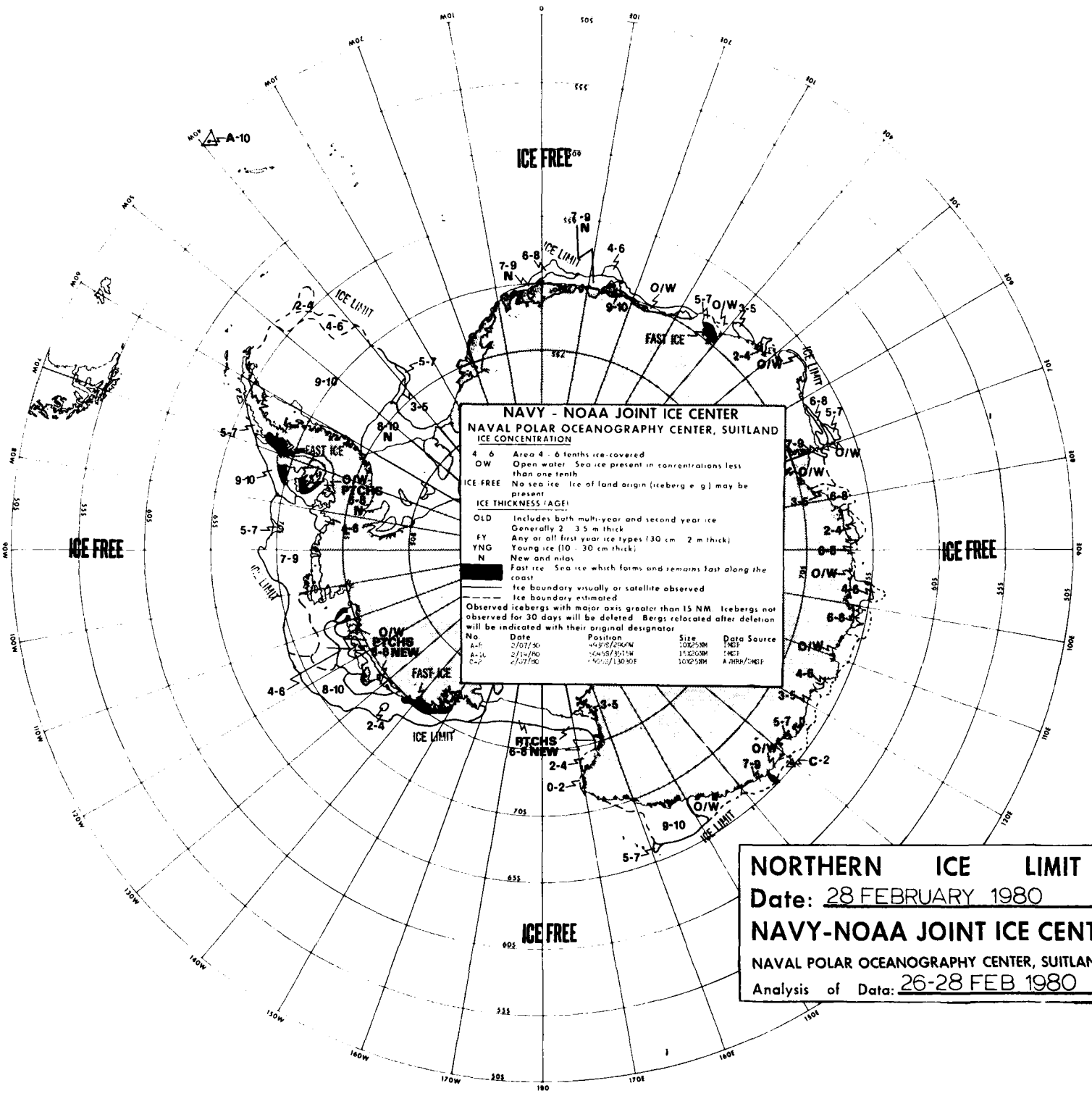
NAVY-NOAA JOINT ICE CENTER

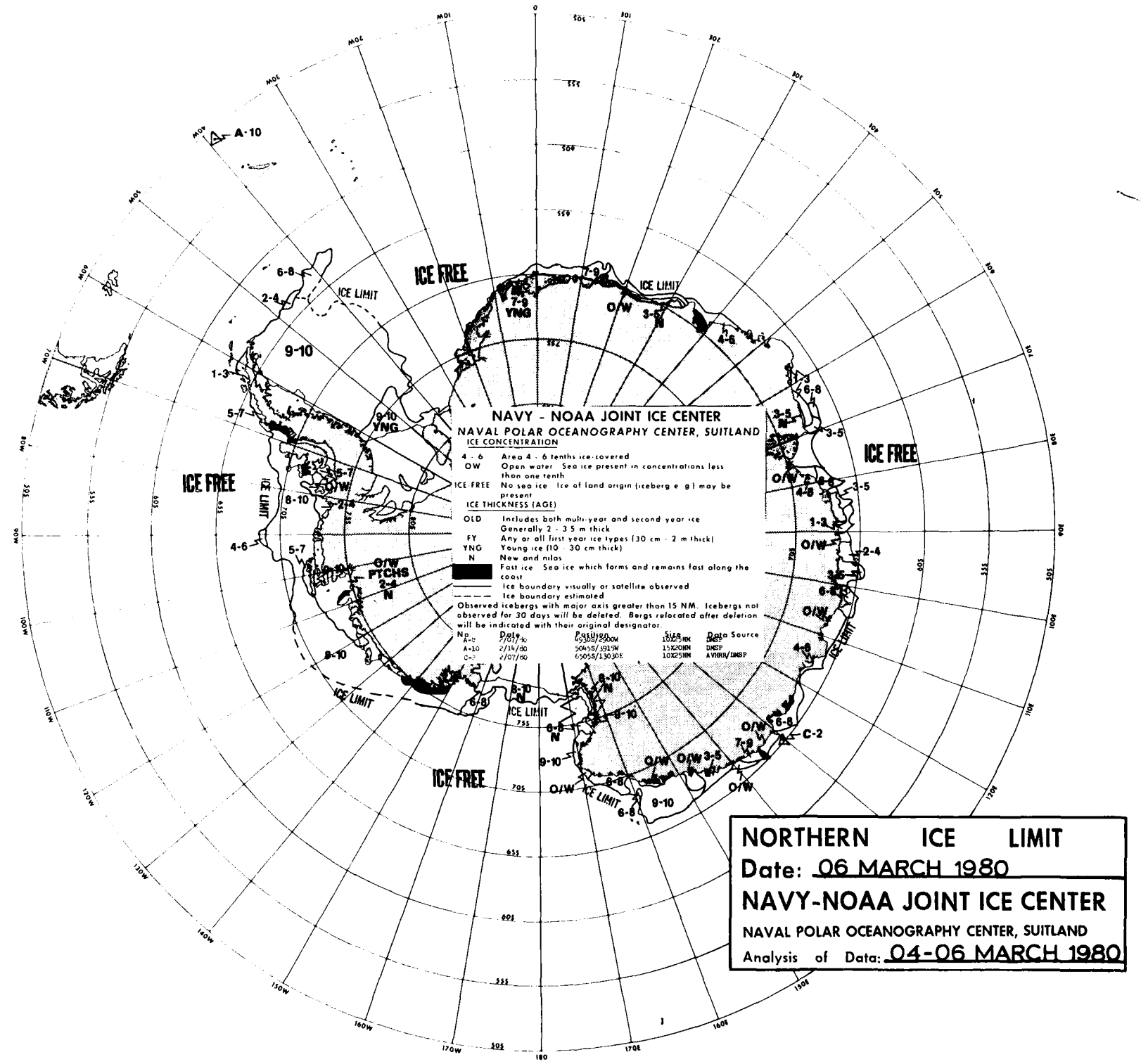
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 5-7 FEB 1980


ICE FREE
ICE FREE
ICE FREE
ICE FREE
A-9
A-10
A-6
C-2
ICE LIMIT
FAST ICE
O/W
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered
OW Open water - Sea ice present in concentrations less than one tenth
ICE-FREE No sea ice - Ice of land origin (iceberg e g) may be present
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick)
YNG Young ice (10 - 30 cm thick)
N New and nilas
Fast ice - Sea ice which forms and remains fast along the coast
Ice boundary visually or satellite observed
Ice boundary estimated.
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-6 1/17/80 61358/2345W 10X25NM AVHRR
A-8 2/07/80 46308/2900W 10X25NM DMSP
A-9 1/17/80 50258/3130W 10X20NM AVHRR
A-10 2/14/80 50450/3915W 35X20NM DMSP
C-2 8/07/80 65058/13030E 10X25NM AVHRR/DMSP
NORTHERN ICE LIMIT
Date: 14 FEBRUARY 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
Analysis of Data: 12-14 FEB 1980


ICE FREE
ICE FREE
ICE FREE
ICE FREE
FAST ICE
FAST ICE
ICE LIMIT
ICE LIMIT
ICE LIMIT
A-9
A-10
A-6
C-2
O/W
4-6
6-8
2-4
5-7
3-5
1-3
8-10
9-10
7-9
0-2
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered
OW Open water. Sea ice present in concentrations less than one tenth
ICE FREE No sea ice. Ice of land origin (iceberg e g) may be present
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick
FY Any or all first year ice types (30 cm - 2 m thick)
YNG Young ice (10 - 30 cm thick)
N New and nilas
Fast ice. Sea ice which forms and remains fast along the coast
Ice boundary visually or satellite observed
Ice boundary estimated
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-2 1/17/80 63.3S/57.5W 10X25NM AVHRR
A-4 2/07/80 49.3OS/29.0OW 10X25NM DMSP
A-9 1/17/80 50.2S S/13.3OW 10X20NM AVHRR
A-10 2/14/80 50.4S S/39.5W 15X20NM DMSP
C-2 2/07/80 65.0S S/130.3OE 10X25NM AVHRR/DMSP
ICEBERG C-2 HAS BEEN IN PRESENT POSITION SINCE AT LEAST 17 JANUARY 1978. SLIGHT VARIATIONS IN WEEKLY PLOTTED POSITIONS OF THIS APPARENTLY GROUNDED ICEBERG HAVE BEEN DUE TO INHERENT ERRORS IN SATELLITE GRIDDING PROCEDURES.
NORTHERN ICE LIMIT
Date: 21 FEBRUARY 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
Analysis of Data: 19-21 FEB 1980


ICE FREE
ICE FREE
ICE FREE
ICE FREE
A-10
ICE LIMIT
FAST ICE
O/W
PTCHS
6-8 NEW
C-2
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 6 Area 4 - 6 tenths ice-covered
OW Open water - Sea ice present in concentrations less than one tenth
ICE FREE No sea ice - Ice of land origin (iceberg e g) may be present
ICE THICKNESS (AGE)
OLD Includes both multi-year and second year ice Generally 2 - 3 5 m thick
FY Any or all first year ice types (30 cm - 2 m thick)
YNG Young ice (10 - 30 cm thick)
N New and nilas
Fast ice - Sea ice which forms and remains fast along the coast
Ice boundary visually or satellite observed
Ice boundary estimated
Observed icebergs with major axis greater than 15 NM Icebergs not observed for 30 days will be deleted Bergs relocated after deletion will be indicated with their original designator
No Date Position Size Data Source
A-5 2/07/80 15X25NM
A-10 2/14/80 15X25NM
C-2 2/07/80 10X25NM A/HRR/SMSF
NORTHERN ICE LIMIT
Date: 28 FEBRUARY 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
Analysis of Data: 26-28 FEB 1980



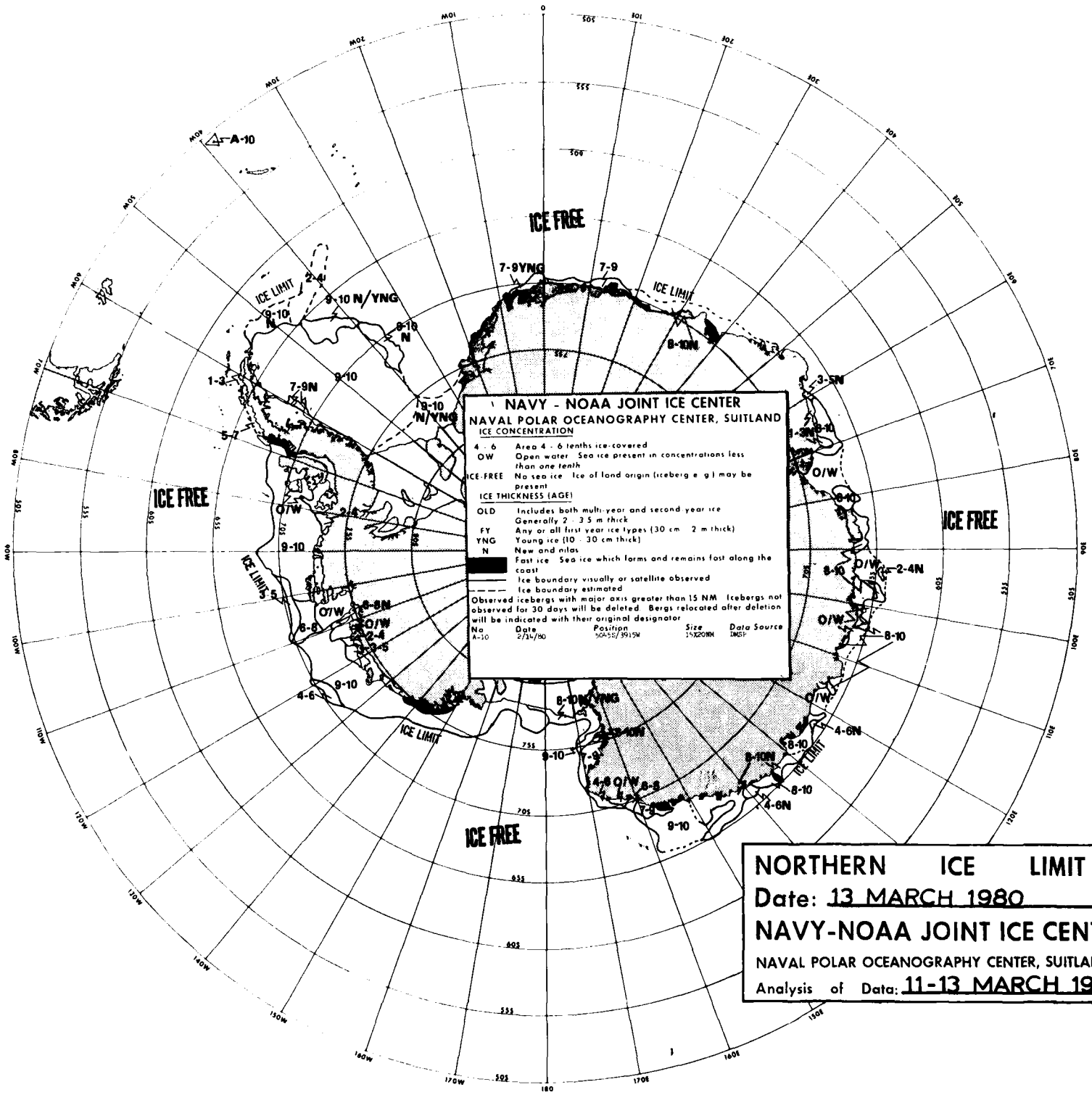
NORTHERN ICE LIMIT

Date: 06 MARCH 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 04-06 MARCH 1980



NAVY - NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

ICE CONCENTRATION

4 - 6	Area 4 - 6 tenths ice-covered
OW	Open water Sea ice present in concentrations less than one tenth
ICE-FREE	No sea ice Ice of land origin (iceberg e g) may be present

ICE THICKNESS (AGE)

OLD	Includes both multi-year and second year ice Generally 2 - 3 5 m thick
FY	Any or all first year ice types (30 cm - 2 m thick)
YNG	Young ice (10 - 30 cm thick)
N	New and nilas
	Fast ice Sea ice which forms and remains fast along the coast
———	Ice boundary visually or satellite observed
- - -	Ice boundary estimated

Observed icebergs with major axis greater than 15 NM Icebergs not observed for 30 days will be deleted Bergs relocated after deletion will be indicated with their original designator

No	Date	Position	Size	Data Source
A-10	2/24/80	60A55/3915W	15X20NM	IMSP

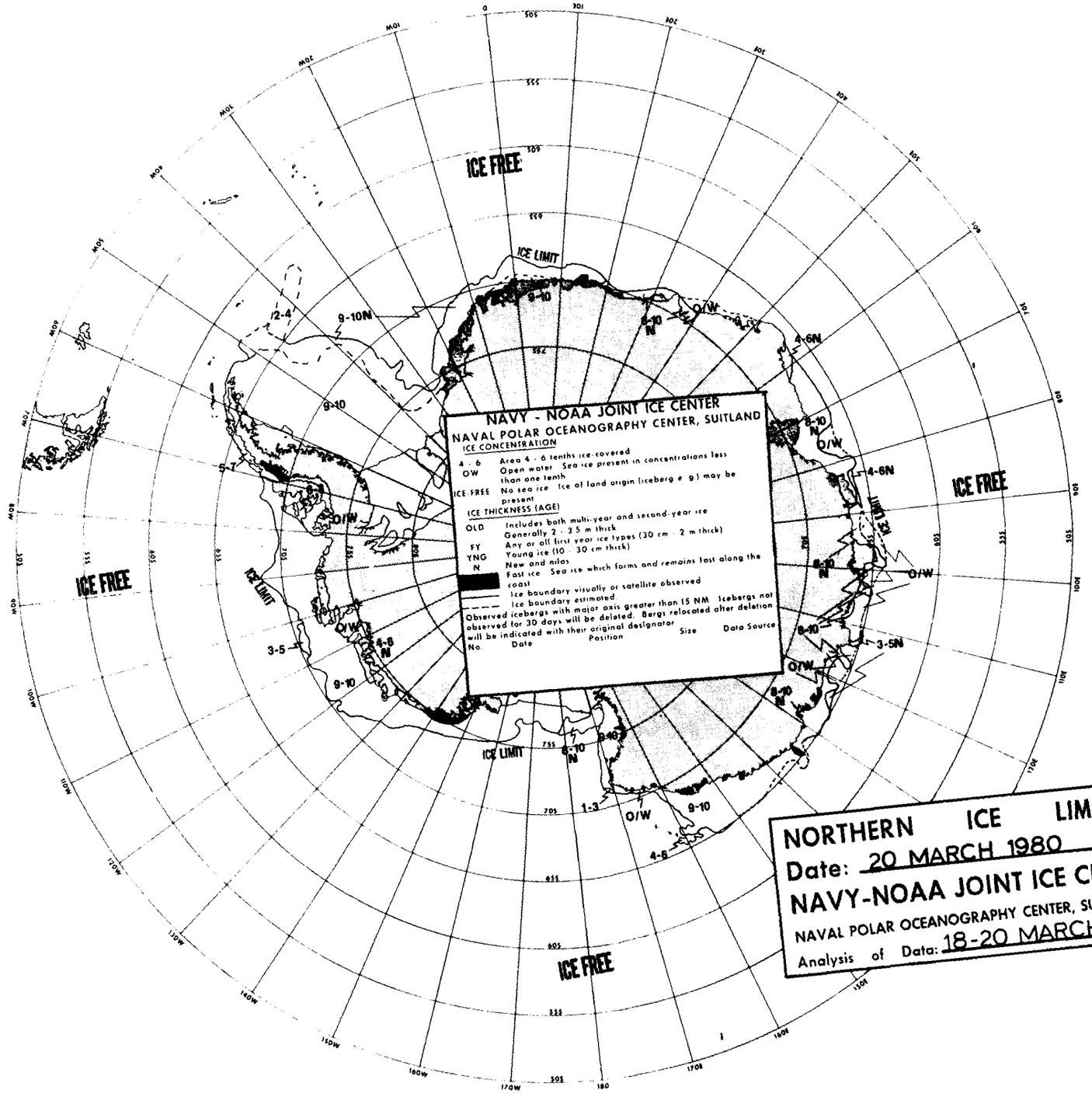
NORTHERN ICE LIMIT

Date: 13 MARCH 1980

NAVY-NOAA JOINT ICE CENTER

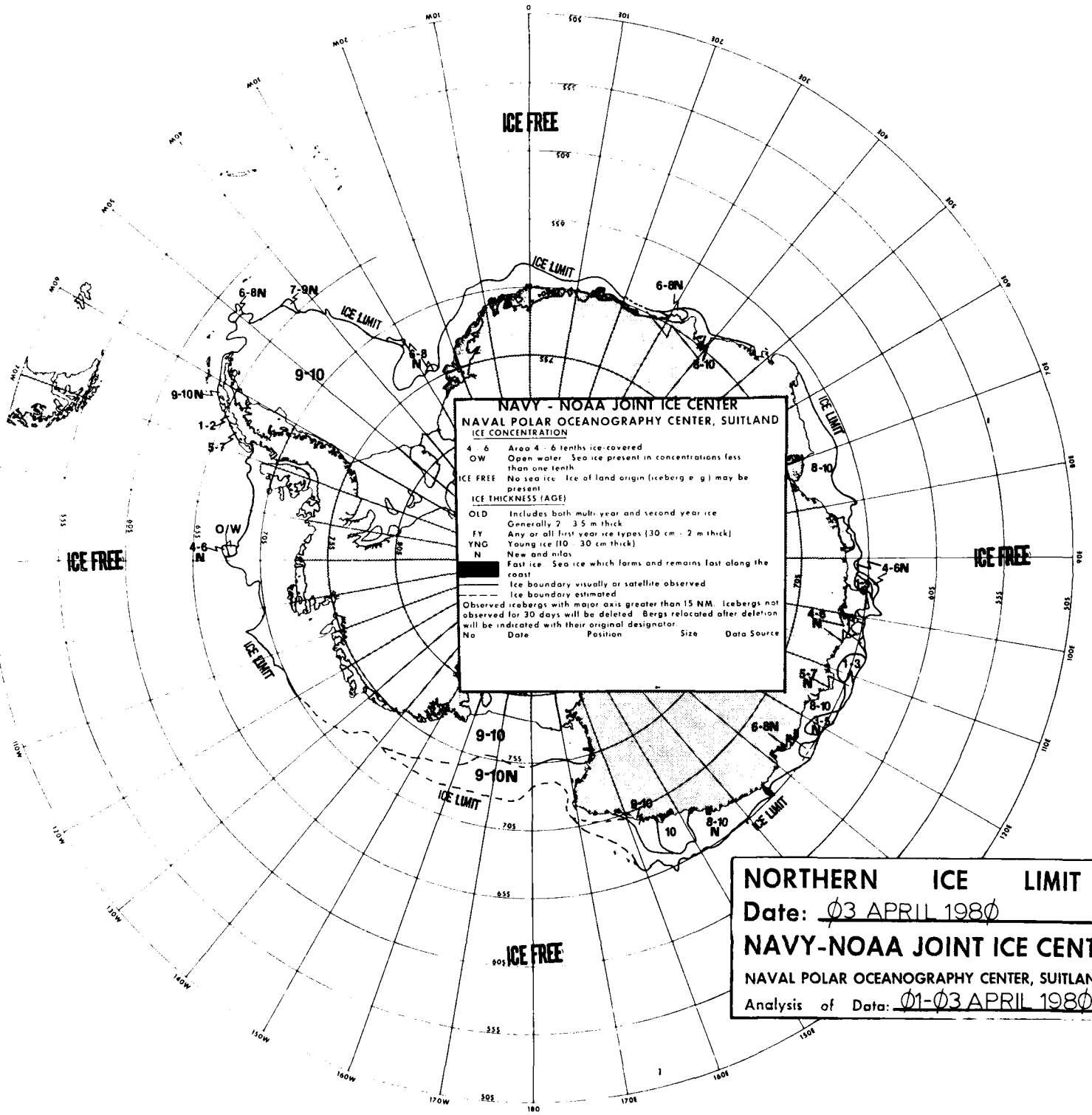
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: 11-13 MARCH 1980



NORTHERN ICE LIMIT
Date: 20 MARCH 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
Analysis of Data: 18-20 MARCH 1980

ICE FREE
ICE LIMIT
6-8
8-10N
8-10
9-10N
9-10
6-8N
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 6 Area 4 6 tenths ice covered
OW Open water Sea ice present in concentrations less than one tenth
ICE FREE No sea ice Ice of land origin (icebergs e g) may be present
ICE THICKNESS (AGE)
OLD Includes both multi year and second year ice Generally 2 - 3 5 m thick
FY Any or all first year ice types (30 cm 2 m thick)
YNG Young ice (10 30 cm thick)
N New and nilas
Fast ice Sea ice which forms and remains fast along the coast
Ice boundary visually or satellite observed
Ice boundary estimated
Observed icebergs with major axis greater than 15 NM Icebergs not observed for 30 days will be deleted Bergs relocated after deletion will be indicated with their original designator
No Date Position Size Data Source
D/W
O/W
5-7N
3-5N
1-3N
2-4N
NORTHERN ICE LIMIT
Date: 27 MARCH 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
Analysis of Data: 25-27 MARCH 1980



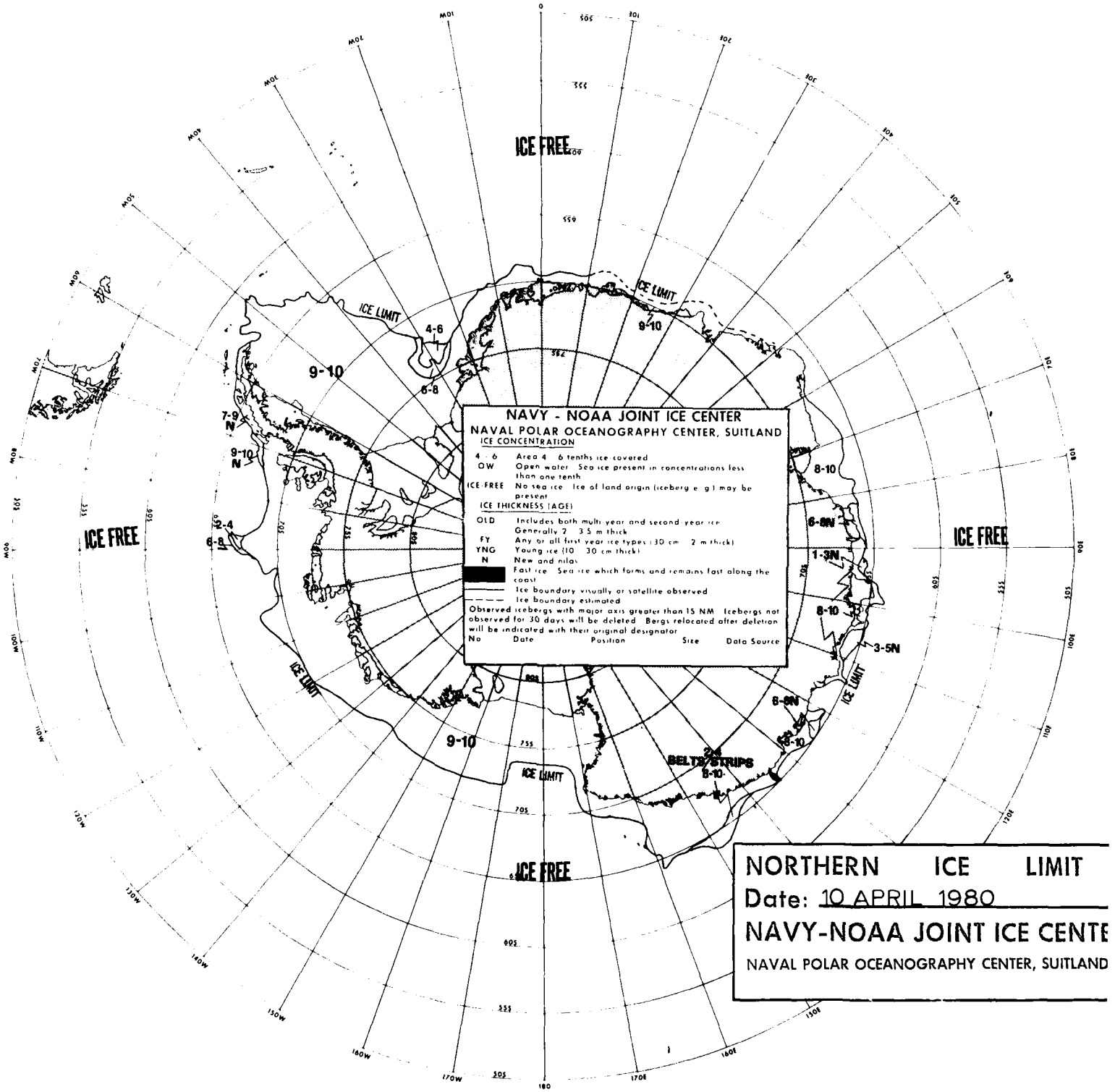
NORTHERN ICE LIMIT

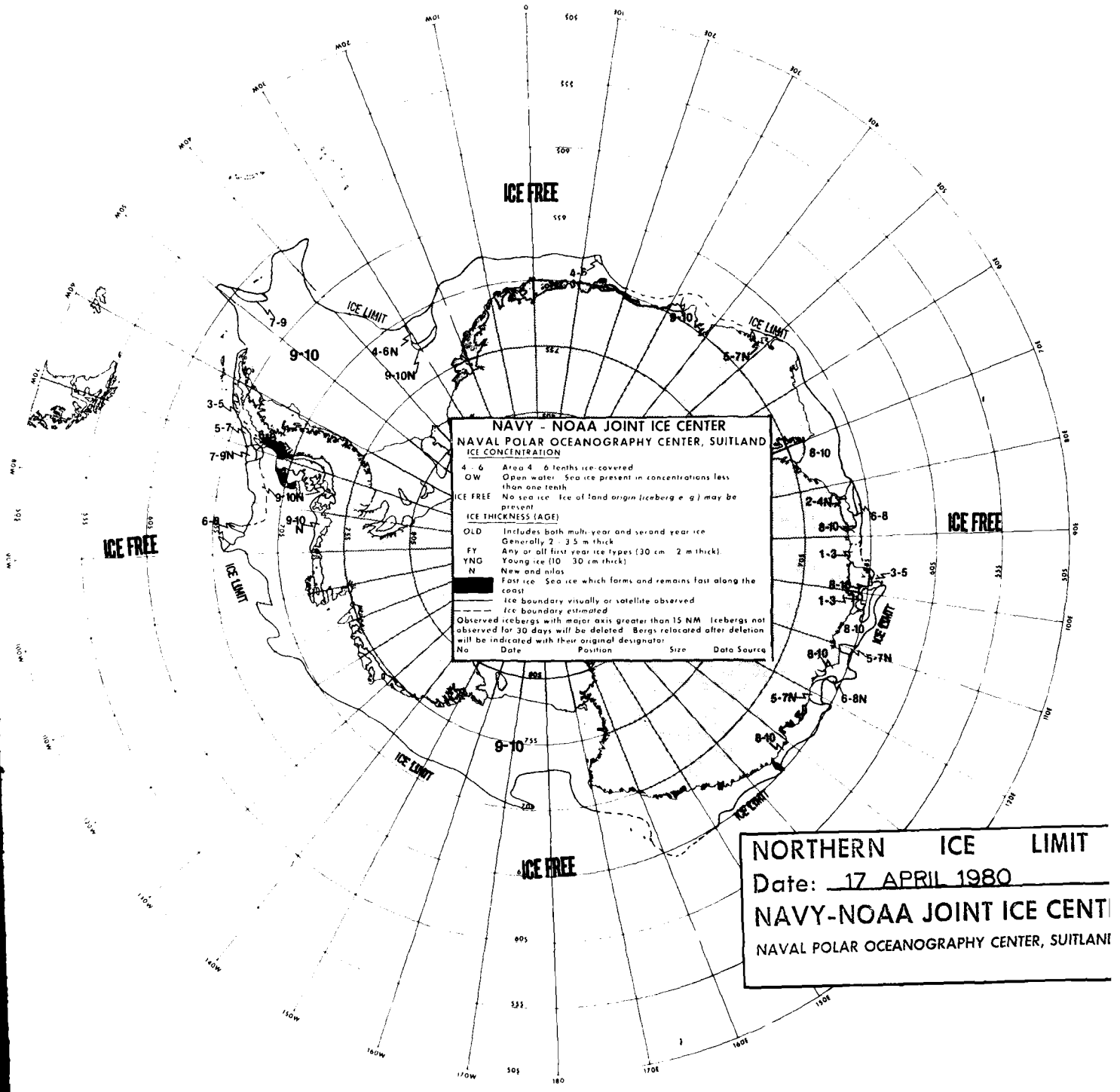
Date: Ø3 APRIL 198Ø

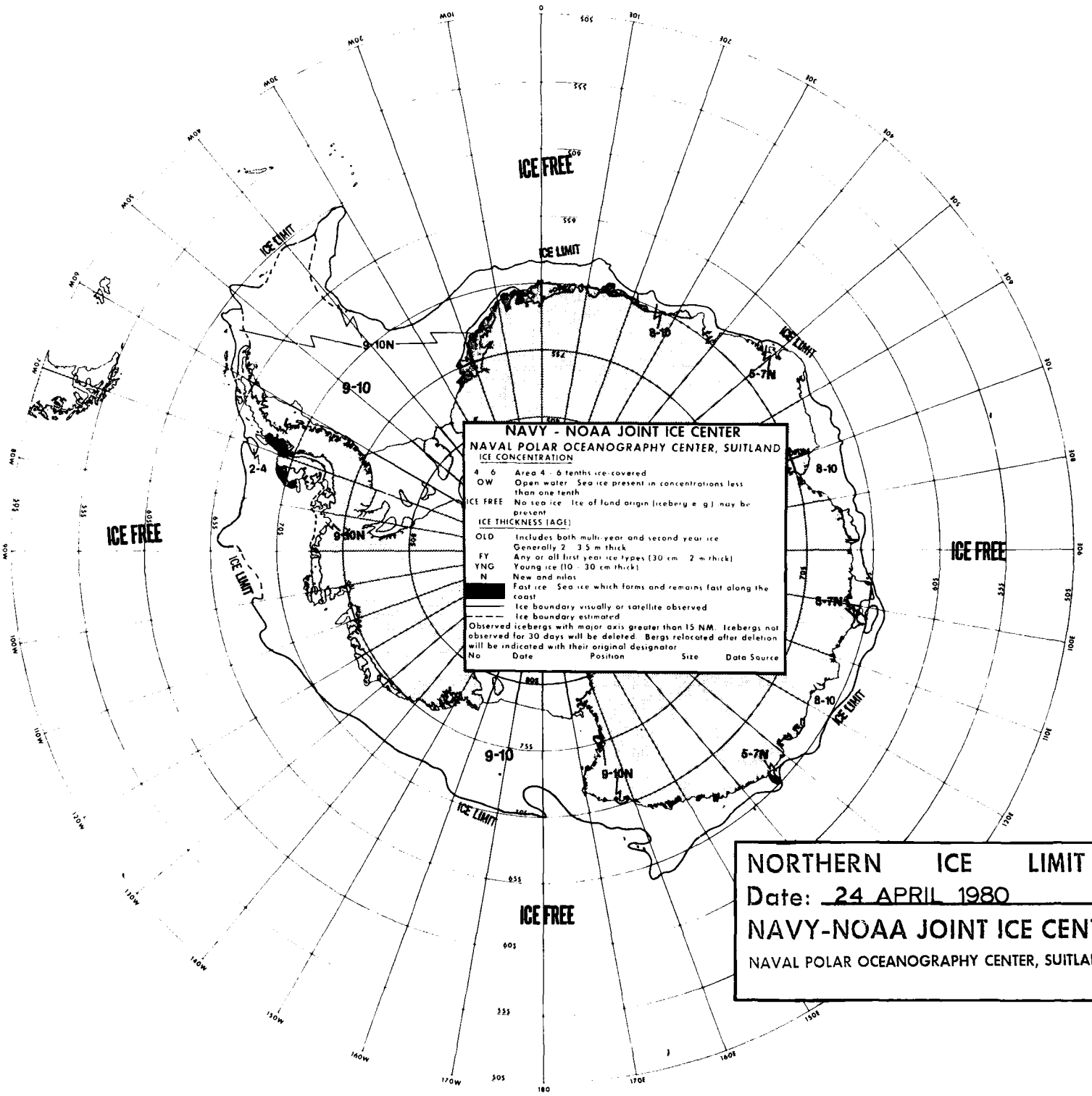
NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

Analysis of Data: Ø1-Ø3 APRIL 198Ø


ICE FREE
ICE LIMIT
9-10
4-6
6-8
7-9 N
9-10 N
4-6
6-8
8-10
6-8N
1-3N
8-10
3-5N
6-8N
8-10
9-10
BELTS/STRIPS
8-10
ICE FREE
ICE FREE
ICE FREE
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice covered
OW Open water - Sea ice present in concentrations less than one tenth
ICE-FREE No sea ice - Ice of land origin (iceberg e g) may be present
ICE THICKNESS (AGE)
OLD Includes both multi-year and second year ice Generally 2 - 3 5 m thick
FY Any or all first year ice types (30 cm - 2 m thick)
YNG Young ice (10 - 30 cm thick)
N New and nilas
Fast ice - Sea ice which forms and remains fast along the coast
Ice boundary visually or satellite observed
Ice boundary estimated
Observed icebergs with major axis greater than 15 NM - Icebergs not observed for 30 days will be deleted - Bergs relocated after deletion will be indicated with their original designator
No Date Position Size Data Source
NORTHERN ICE LIMIT
Date: 10 APRIL 1980
NAVY-NOAA JOINT ICE CENTE
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
ICE FREE
ICE FREE
ICE FREE
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 6 Area 4 6 tenths ice-covered
OW Open water Sea ice present in concentrations less than one tenth
ICE FREE No sea ice Ice of land origin (iceberg e g) may be present
ICE THICKNESS (AGE)
OLD Includes both multi-year and second year ice Generally 2 3 5 m thick
FY Any or all first year ice types (30 cm 2 m thick)
YNG Young ice (10 30 cm thick)
N New and nilas
Fast ice Sea ice which forms and remains fast along the coast
Ice boundary visually or satellite observed
Ice boundary estimated
Observed icebergs with major axis greater than 15 NM Icebergs not observed for 30 days will be deleted Bergs relocated after deletion will be indicated with their original designator
No Date Position Size Data Source
NORTHERN ICE LIMIT
Date: 17 APRIL 1980
NAVY-NOAA JOINT ICE CENTI
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLANI

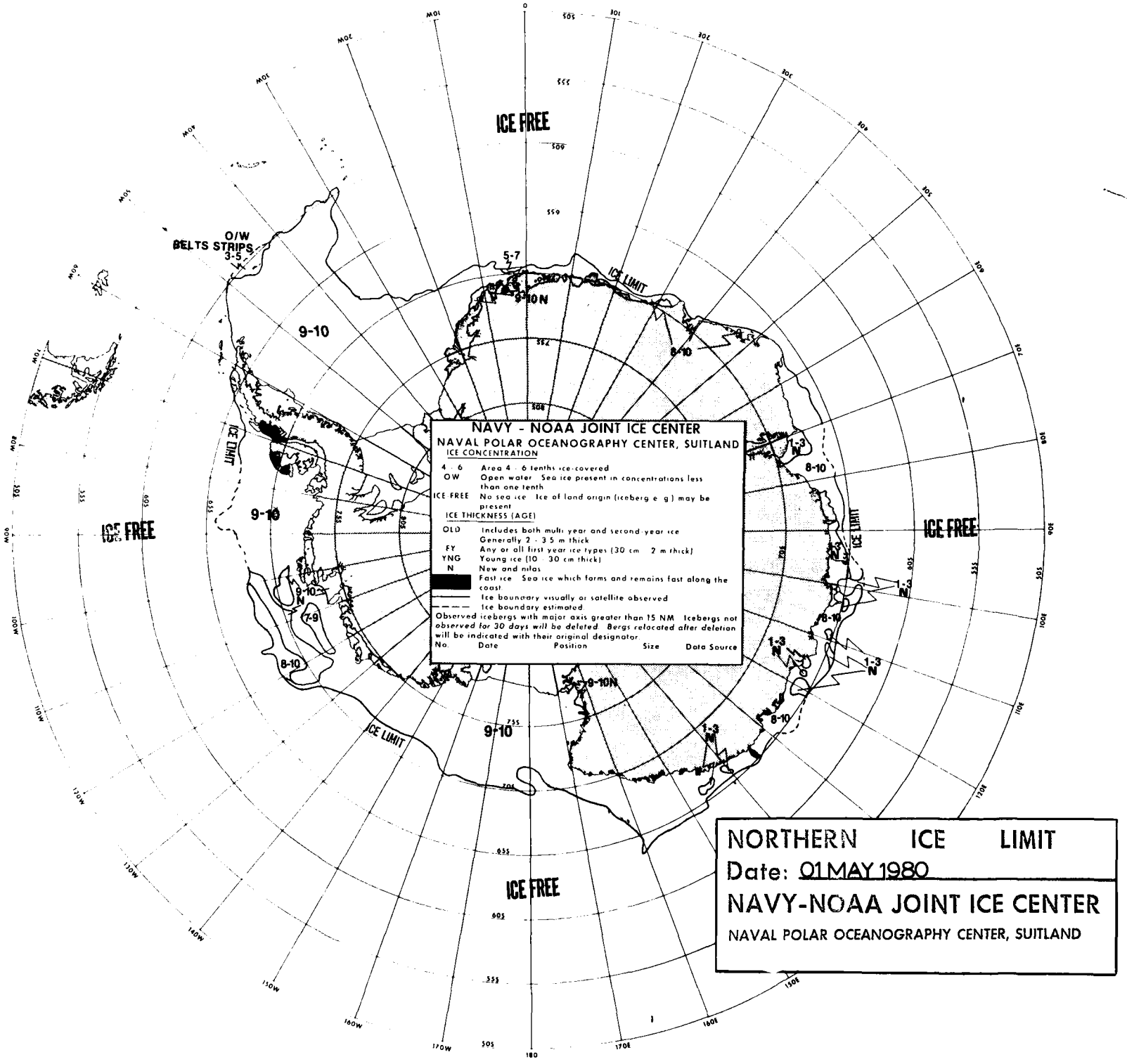


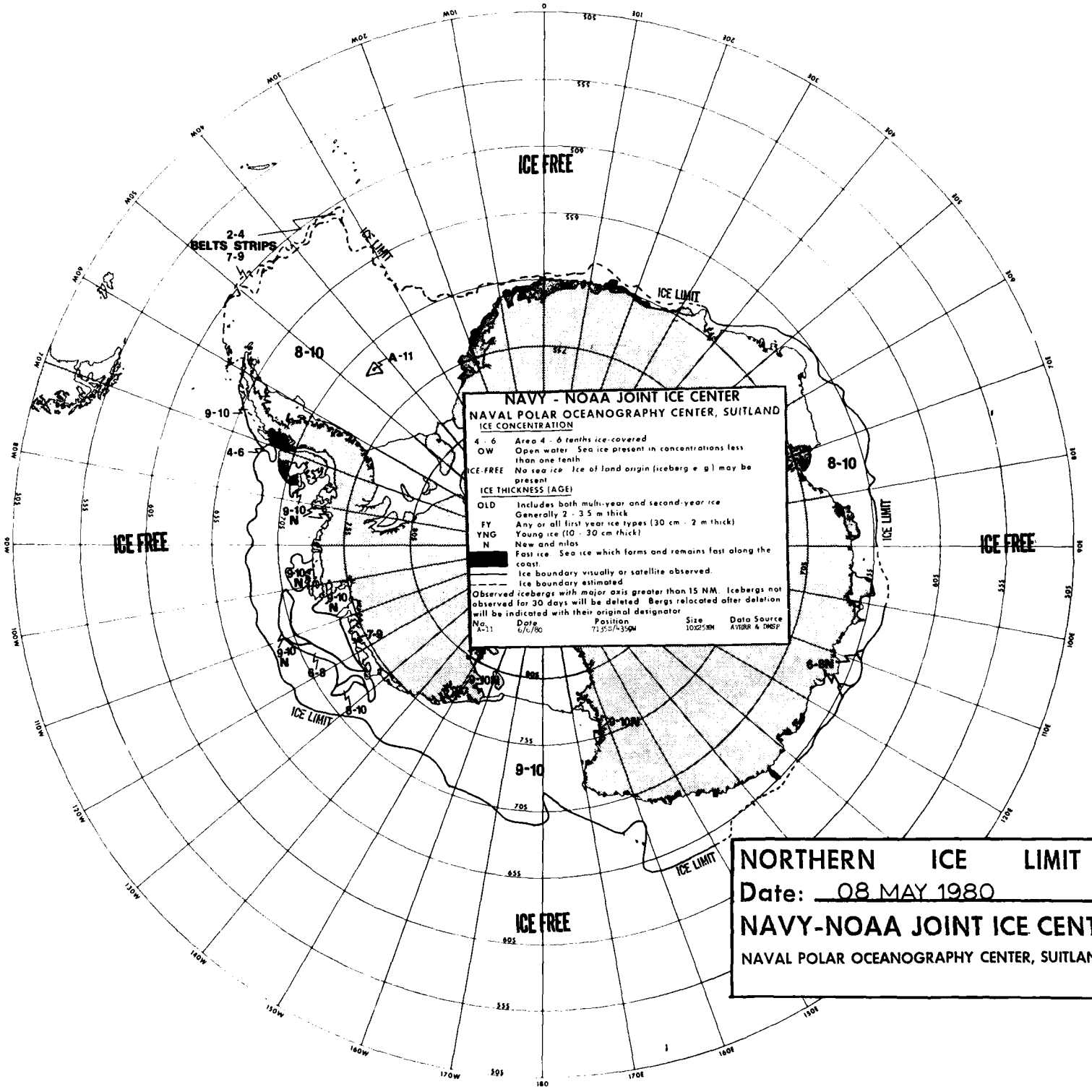
NORTHERN ICE LIMIT

Date: 24 APRIL 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
O/W
BELTS STRIPS
3-5
5-7
9-10N
ICE LIMIT
9-10
8-10
1-3
N
ICE FREE
9-10
9-10N
7-9
8-10
ICE LIMIT
9-10
ICE FREE
ICE FREE
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered
OW Open water - Sea ice present in concentrations less than one tenth
ICE FREE No sea ice - Ice of land origin (iceberg e g) may be present
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice Generally 2 - 3 5 m thick
FY Any or all first year ice types (30 cm - 2 m thick)
YNG Young ice (10 - 30 cm thick)
N New and nilas
Fast ice - Sea ice which forms and remains fast along the coast
Ice boundary visually or satellite observed
Ice boundary estimated
Observed icebergs with major axis greater than 15 NM Icebergs not observed for 30 days will be deleted Bergs relocated after deletion will be indicated with their original designator
No. Date Position Size Data Source
NORTHERN ICE LIMIT
Date: 01 MAY 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

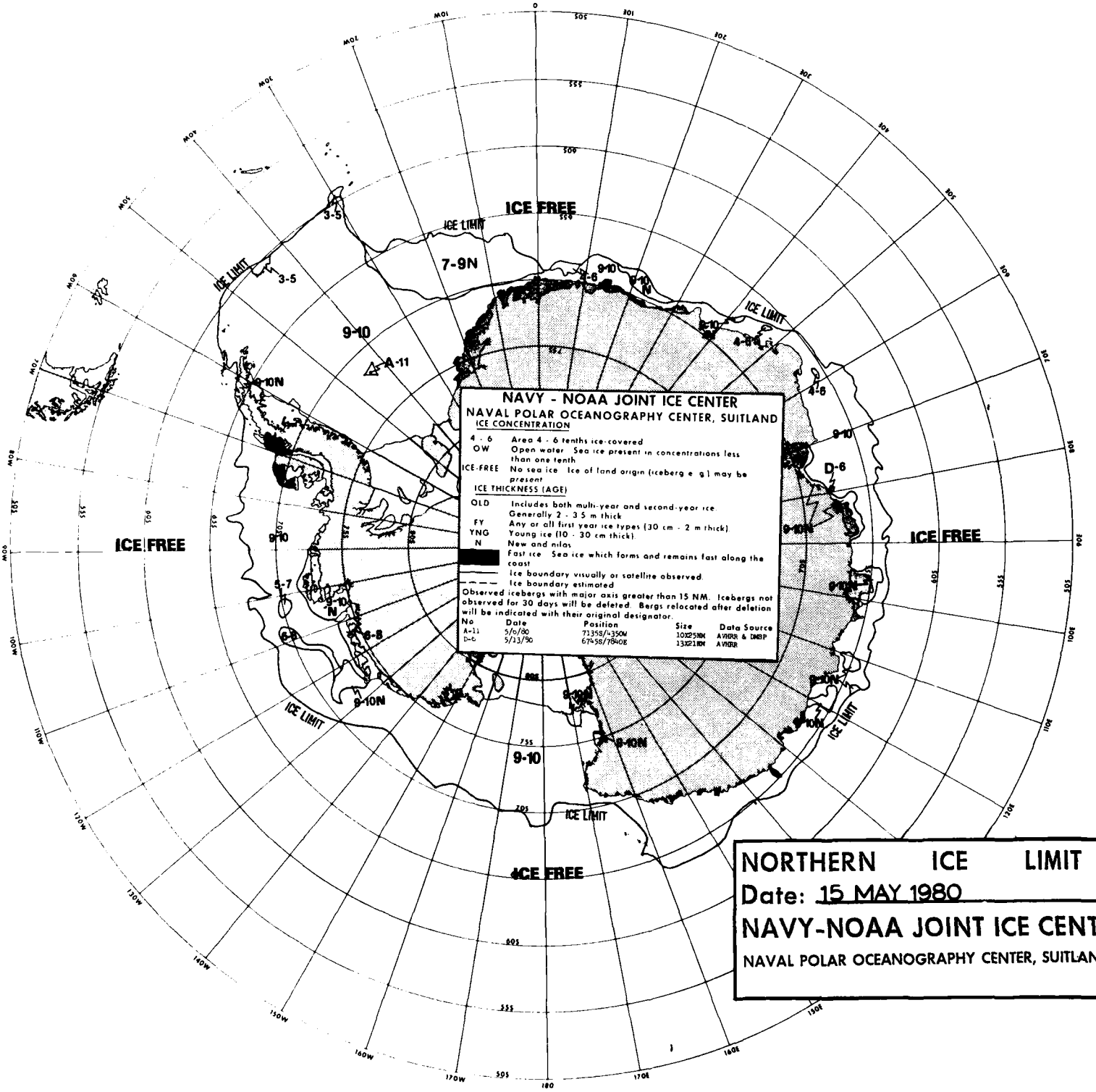


NORTHERN ICE LIMIT

Date: 08 MAY 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

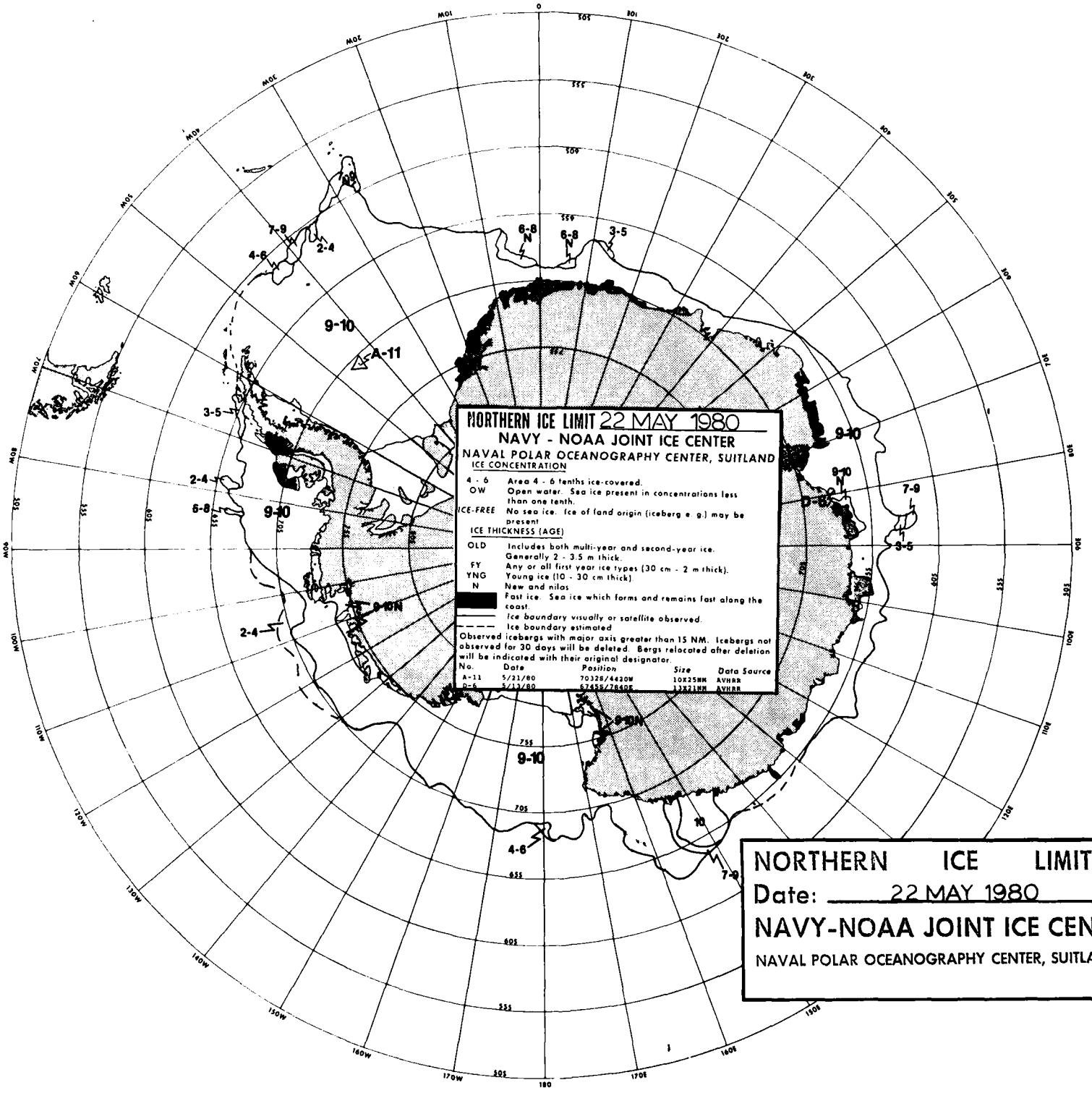


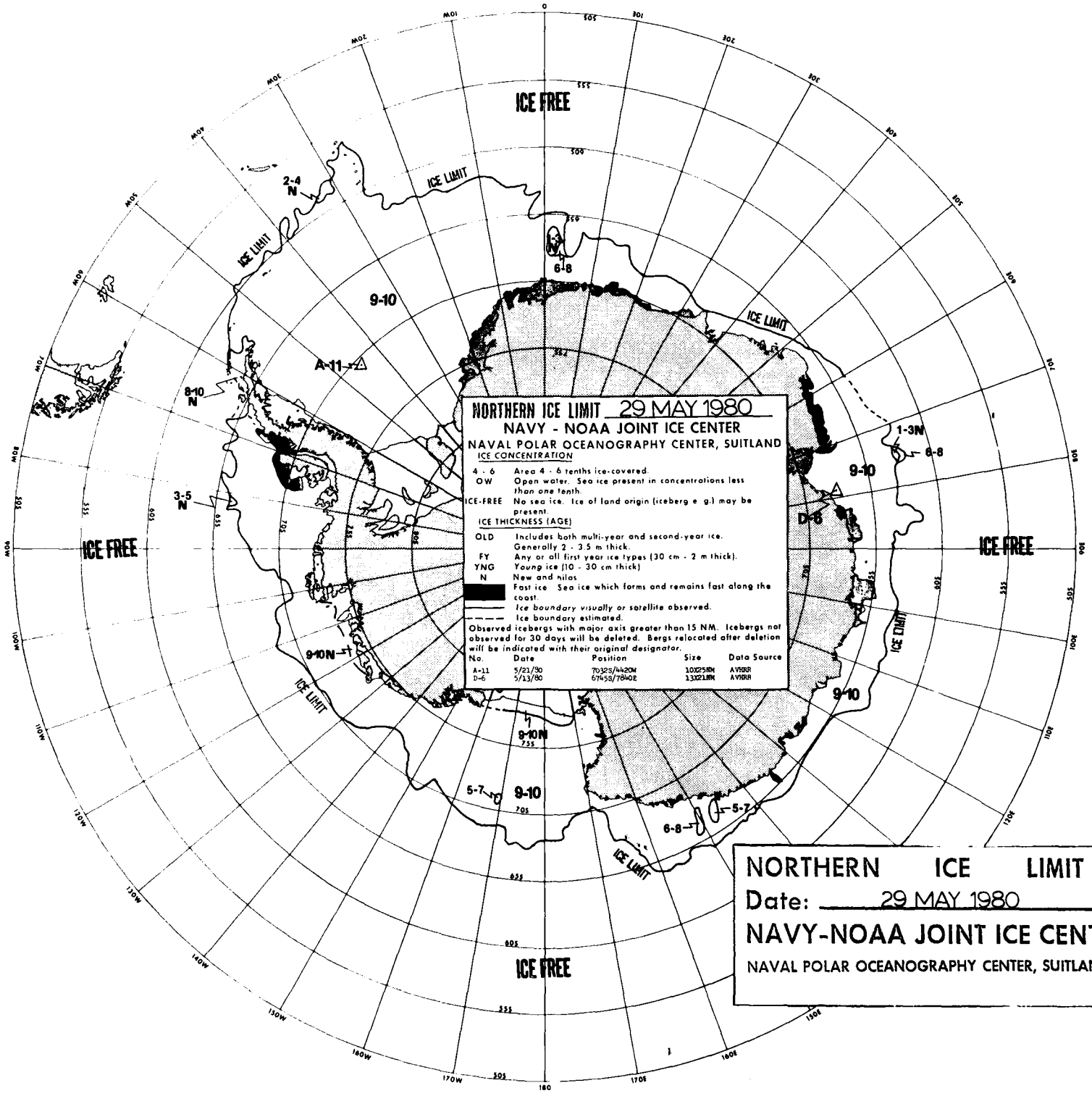
NORTHERN ICE LIMIT

Date: 15 MAY 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


NORTHERN ICE LIMIT 22 MAY 1980
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered.
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e. g.) may be present
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-11 5/21/80 70328/4420W 10X25NM AVHRR
D-6 5/13/80 67455/7840E 13X21NM AVHRR
NORTHERN ICE LIMIT
Date: 22 MAY 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

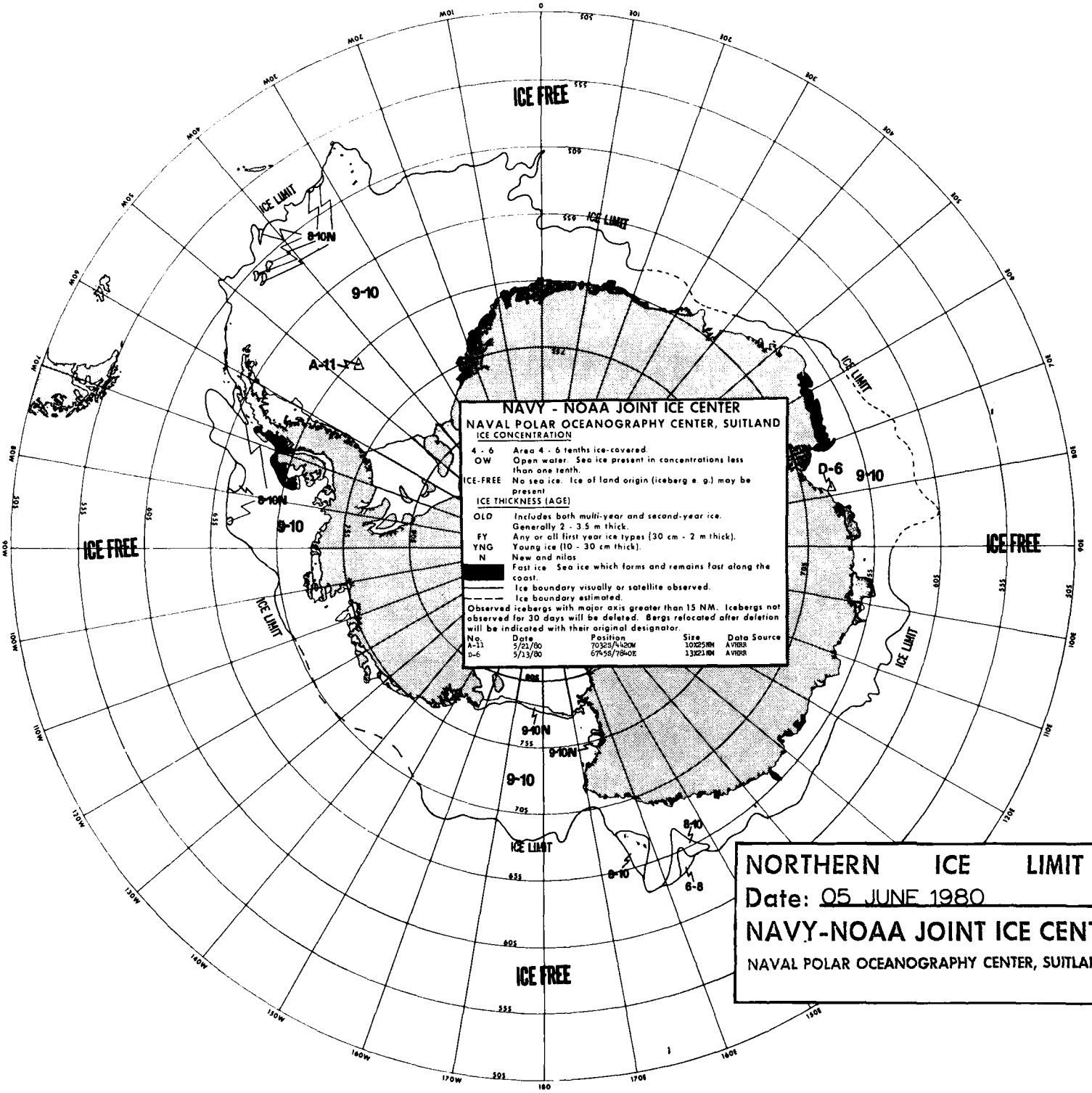


NORTHERN ICE LIMIT

Date: 29 MAY 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

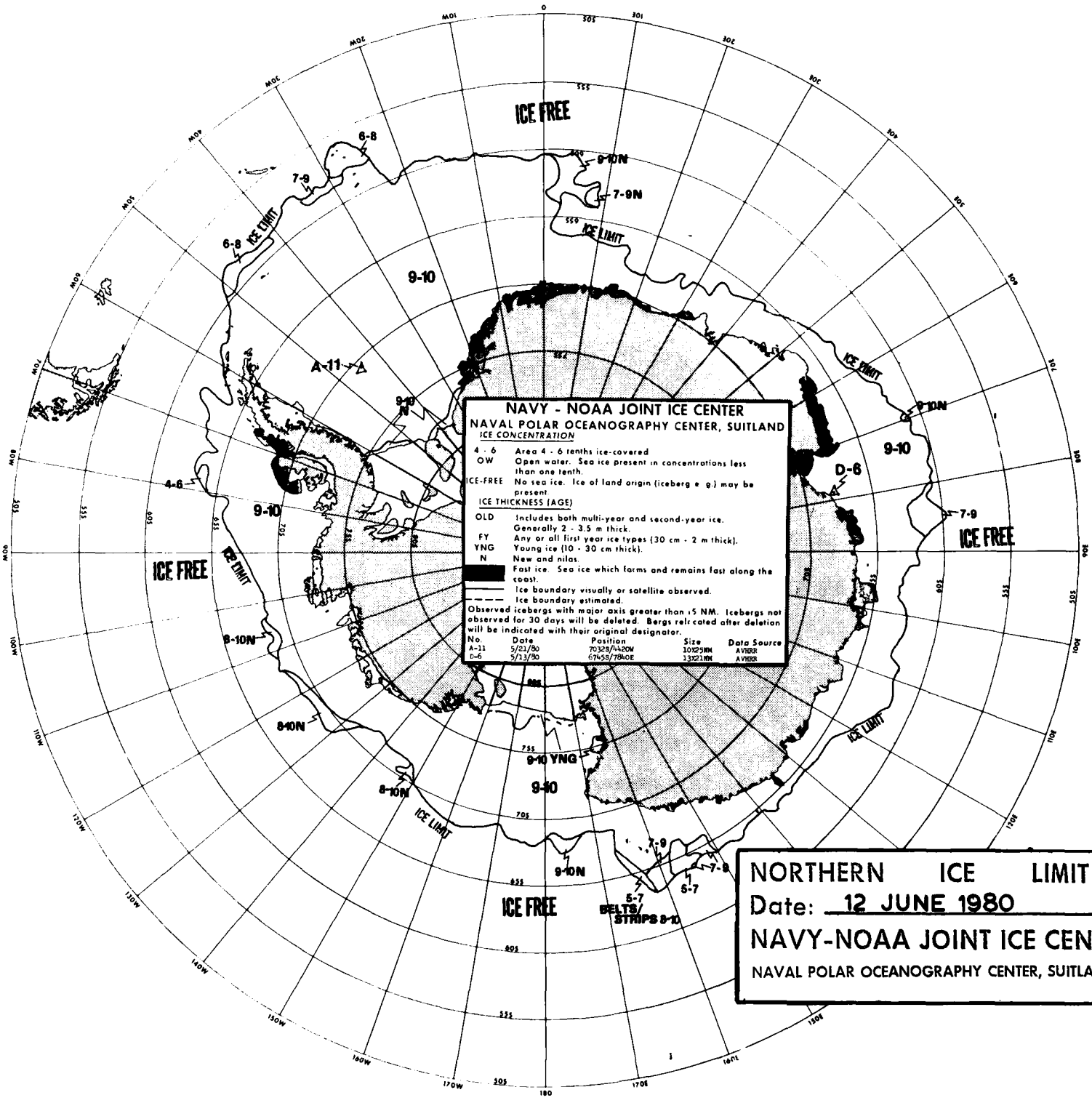


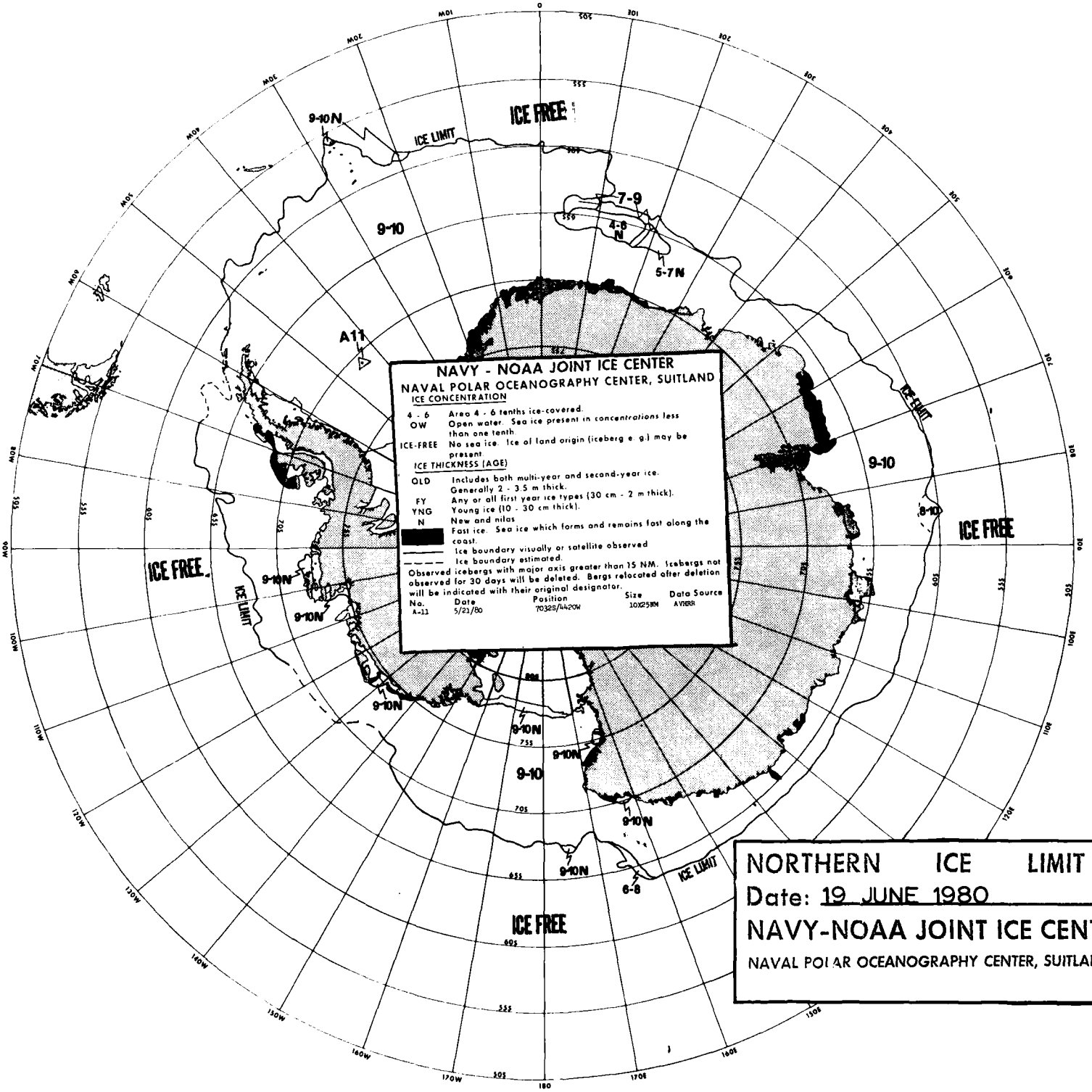
NORTHERN ICE LIMIT

Date: 05 JUNE 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
6-8
7-9
6-8 ICE LIMIT
9-10N
7-9N
ICE LIMIT
9-10
A-11
9-10 N
4-6
9-10
ICE FREE
ICE LIMIT
9-10N
8-10N
9-10 YNG
9-10
8-10N
ICE LIMIT
9-10N
ICE FREE
7-9
7-9
5-7
5-7 BELTS/ STRIPS 8-10
ICE LIMIT
D-6
9-10
7-9
ICE FREE
ICE LIMIT
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e g.) may be present
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas.
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 5 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-11 5/21/80 70328/1420W 10X25NM AVHRR
D-6 5/13/80 67455/7840E 13X21NM AVHRR
NORTHERN ICE LIMIT
Date: 12 JUNE 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

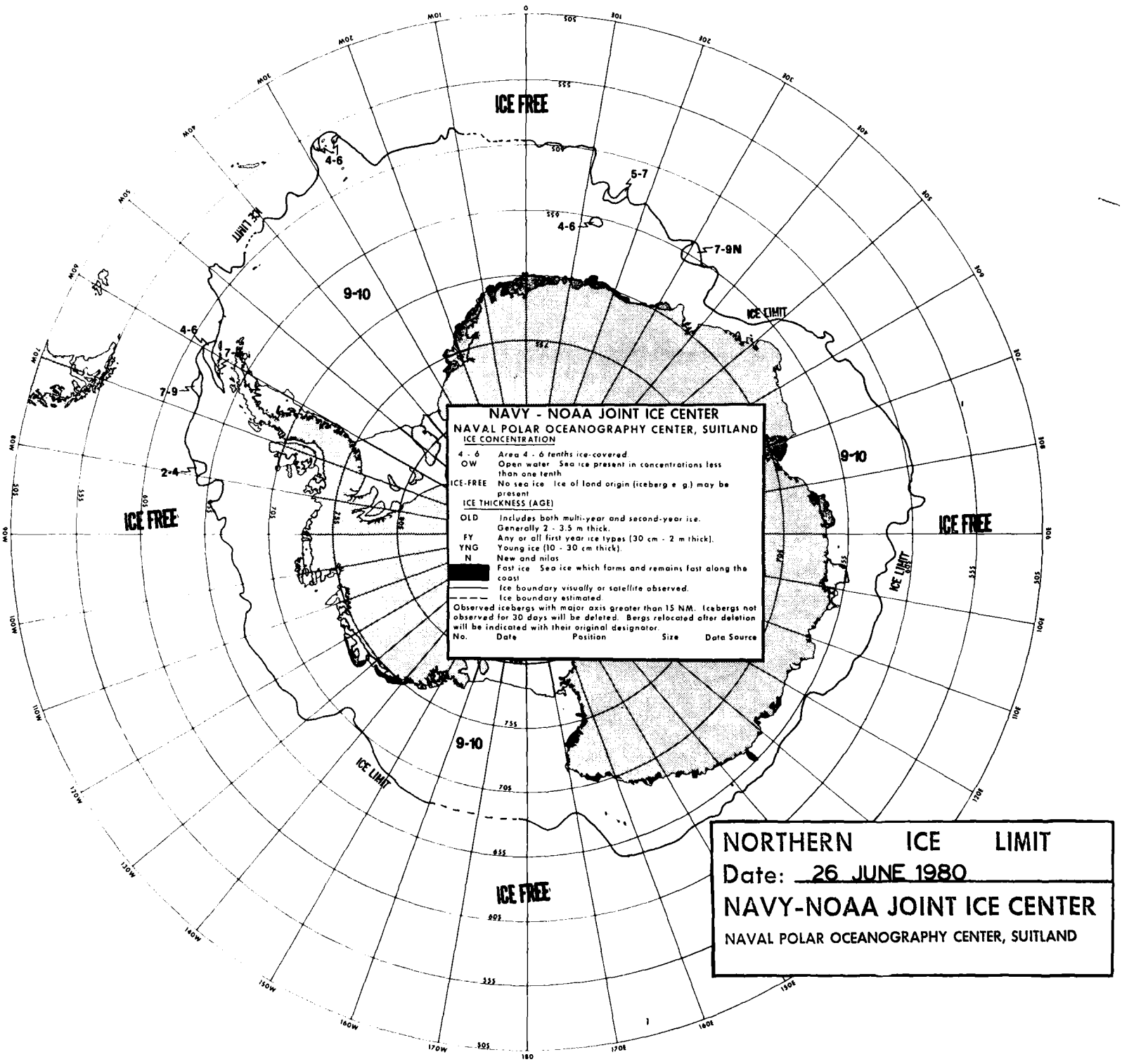


NORTHERN ICE LIMIT

Date: 19 JUNE 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

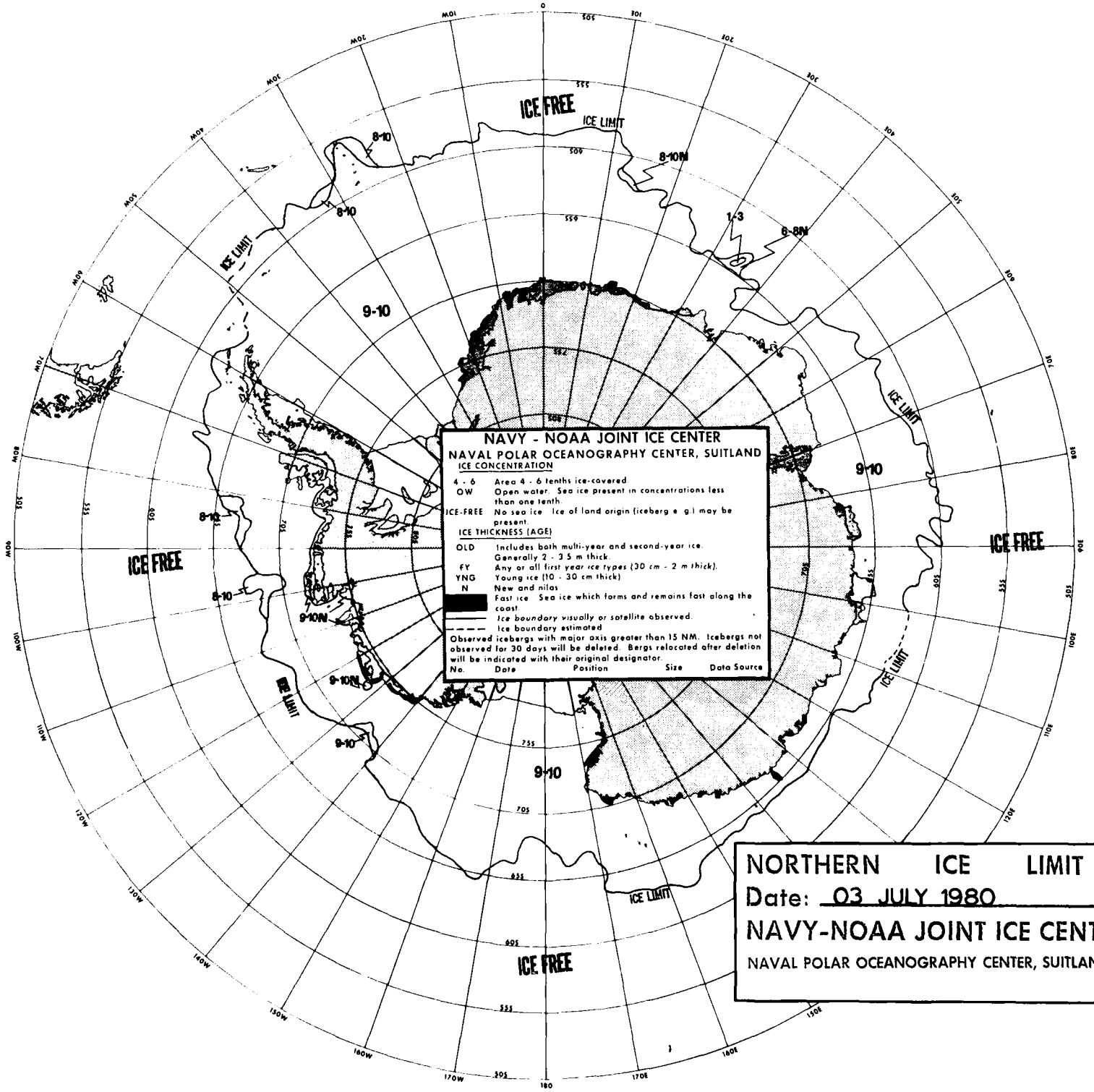


NORTHERN ICE LIMIT

Date: 26 JUNE 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

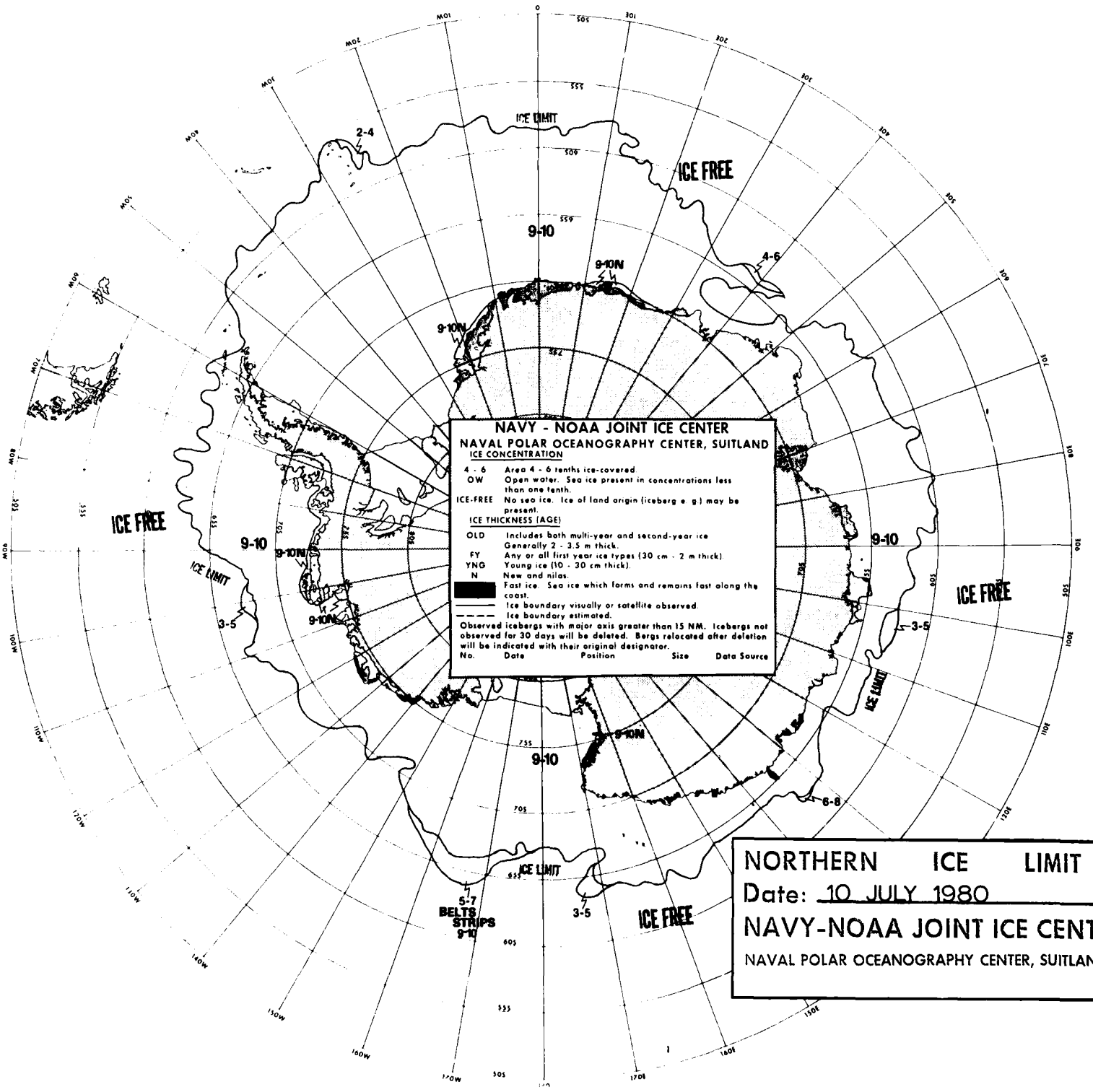


NORTHERN ICE LIMIT

Date: 03 JULY 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

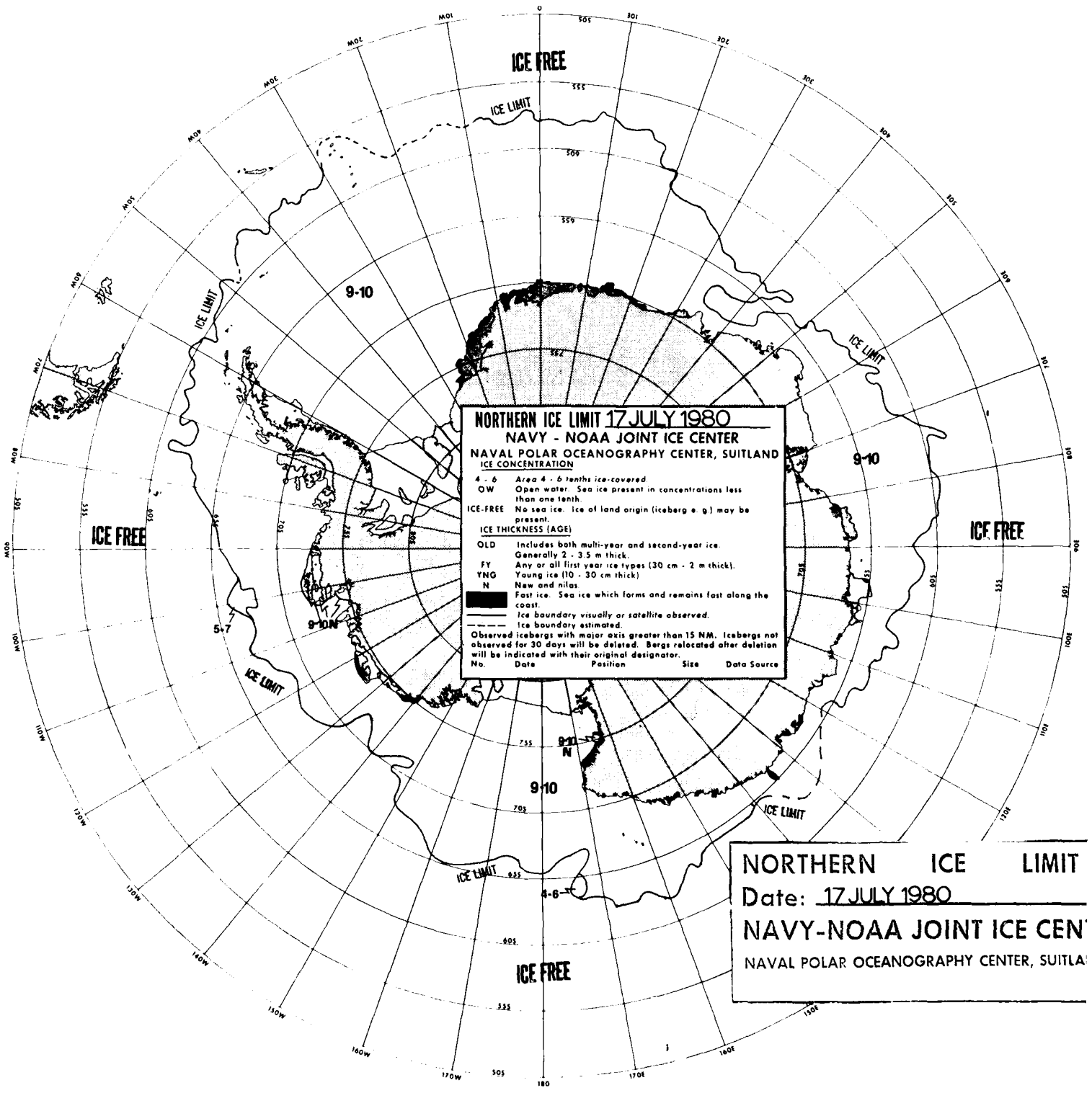


NORTHERN ICE LIMIT

Date: 10 JULY 1980

NAVY-NOAA JOINT ICE CENTER

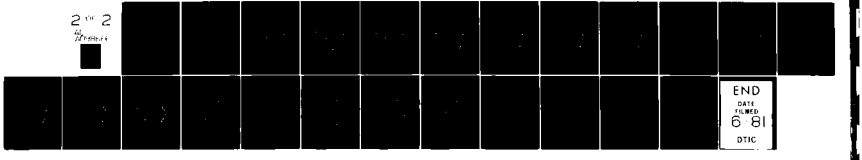
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

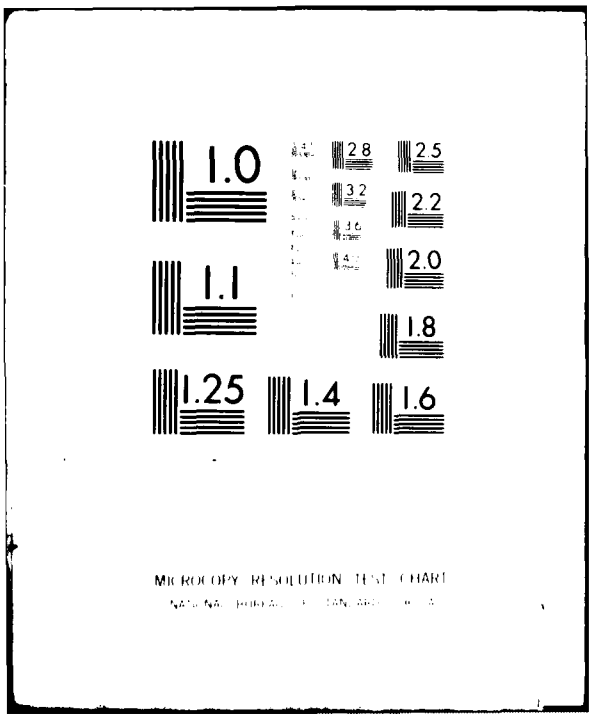


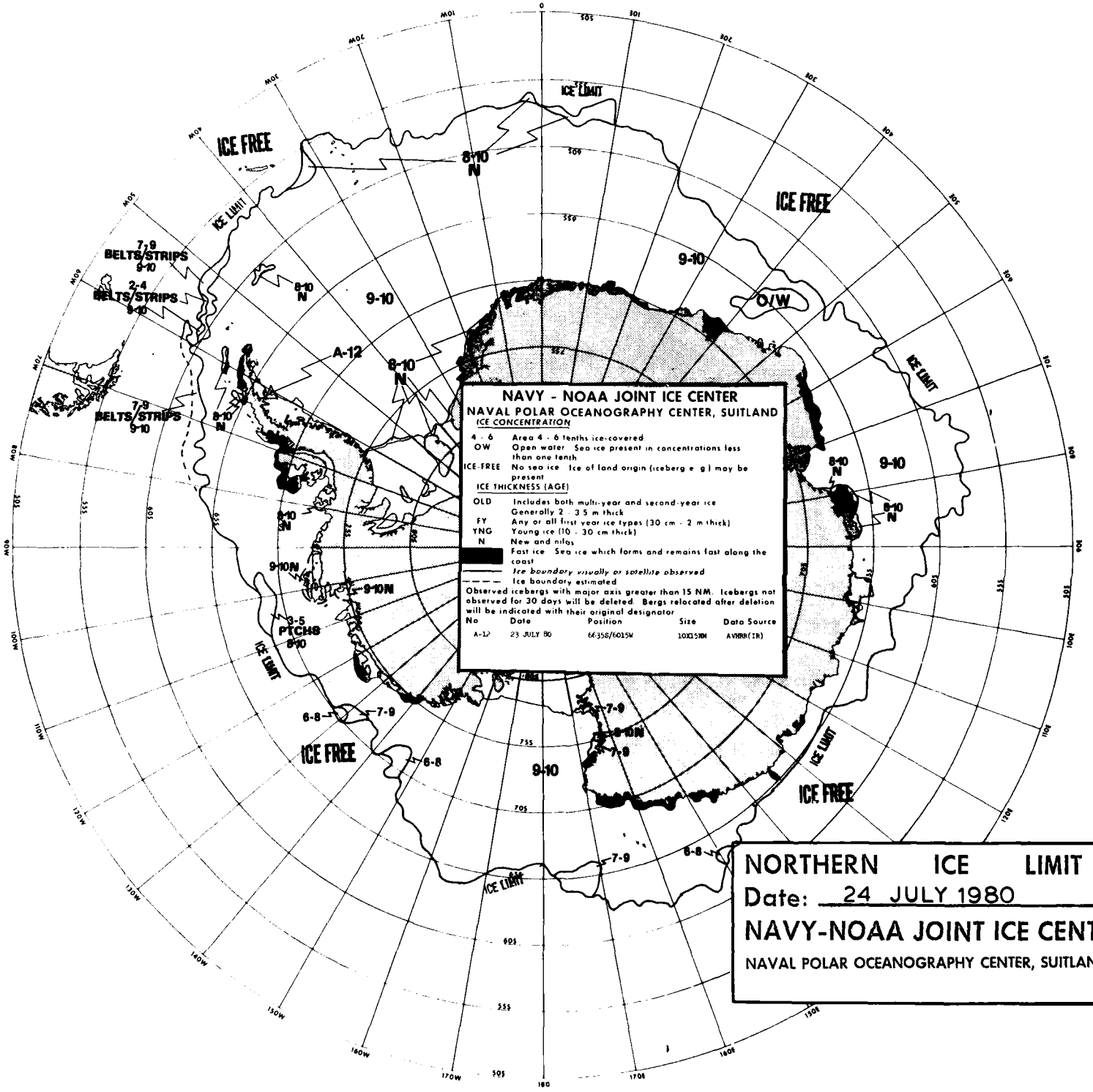
NORTHERN ICE LIMIT
Date: 17 JULY 1980
NAVY-NOAA JOINT ICE CEN
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLA

AD-A098 666 NAVAL POLAR OCEANOGRAPHY CENTER WASHINGTON DC F/G 8/12
ANTARCTIC ICE CHARTS 1979-1980.(U)
MAY 81

UNCLASSIFIED NL




1.0
1.1
1.25
2.8
3.2
3.6
4.0
2.5
2.2
2.0
1.8
1.4
1.6
MICROCOPY RESOLUTION TEST CHART



NAVY - NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

ICE CONCENTRATION

4 - 6	Area 4 - 6 tenths ice-covered
OW	Open water Sea ice present in concentrations less than one tenth
ICE-FREE	No sea ice Ice of land origin (iceberg e g) may be present

ICE THICKNESS (AGE)

OLD	Includes both multi-year and second-year ice Generally 2 - 3 5 m thick
FY	Any or all first year ice types (30 cm - 2 m thick)
YNG	Young ice (10 - 30 cm thick)
N	New and nilas
	Fast ice Sea ice which forms and remains fast along the coast
———	*Ice boundary visually or satellite observed*
– – –	Ice boundary estimated

Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator

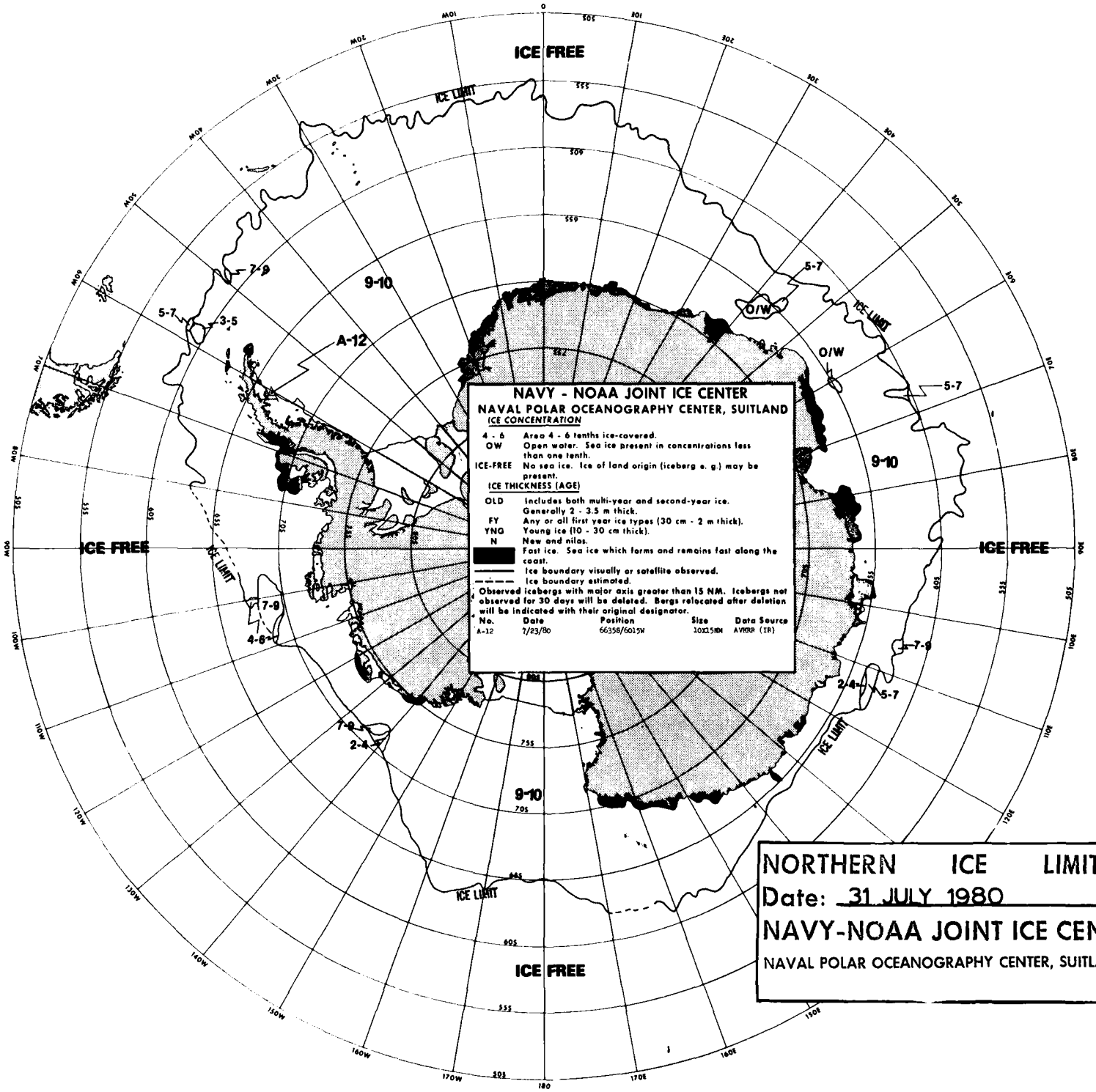
No	Date	Position	Size	Data Source
A-12	23 JULY 80	6635S/6015W	10X15NM	AVHRR(IR)

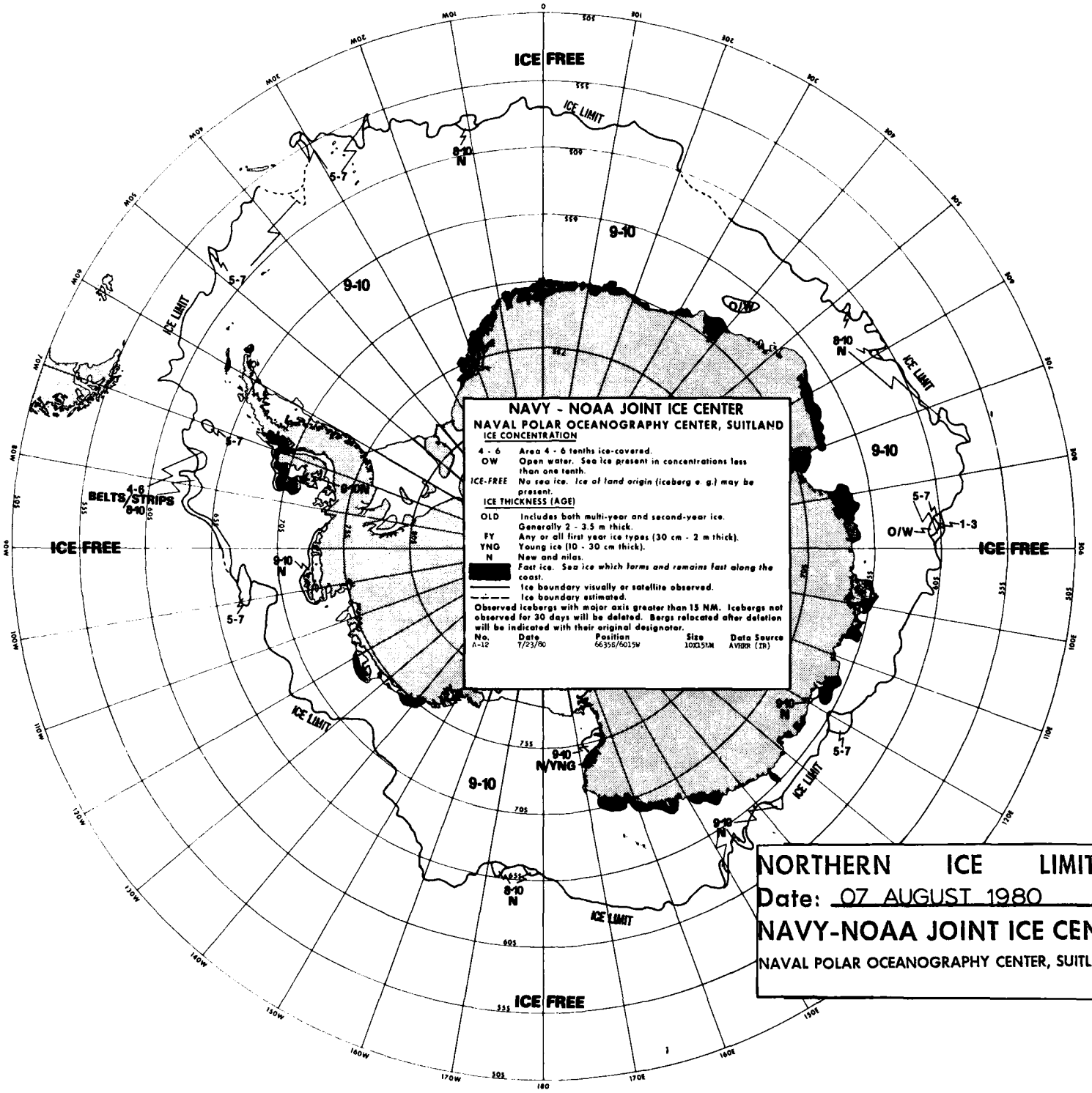
NORTHERN ICE LIMIT

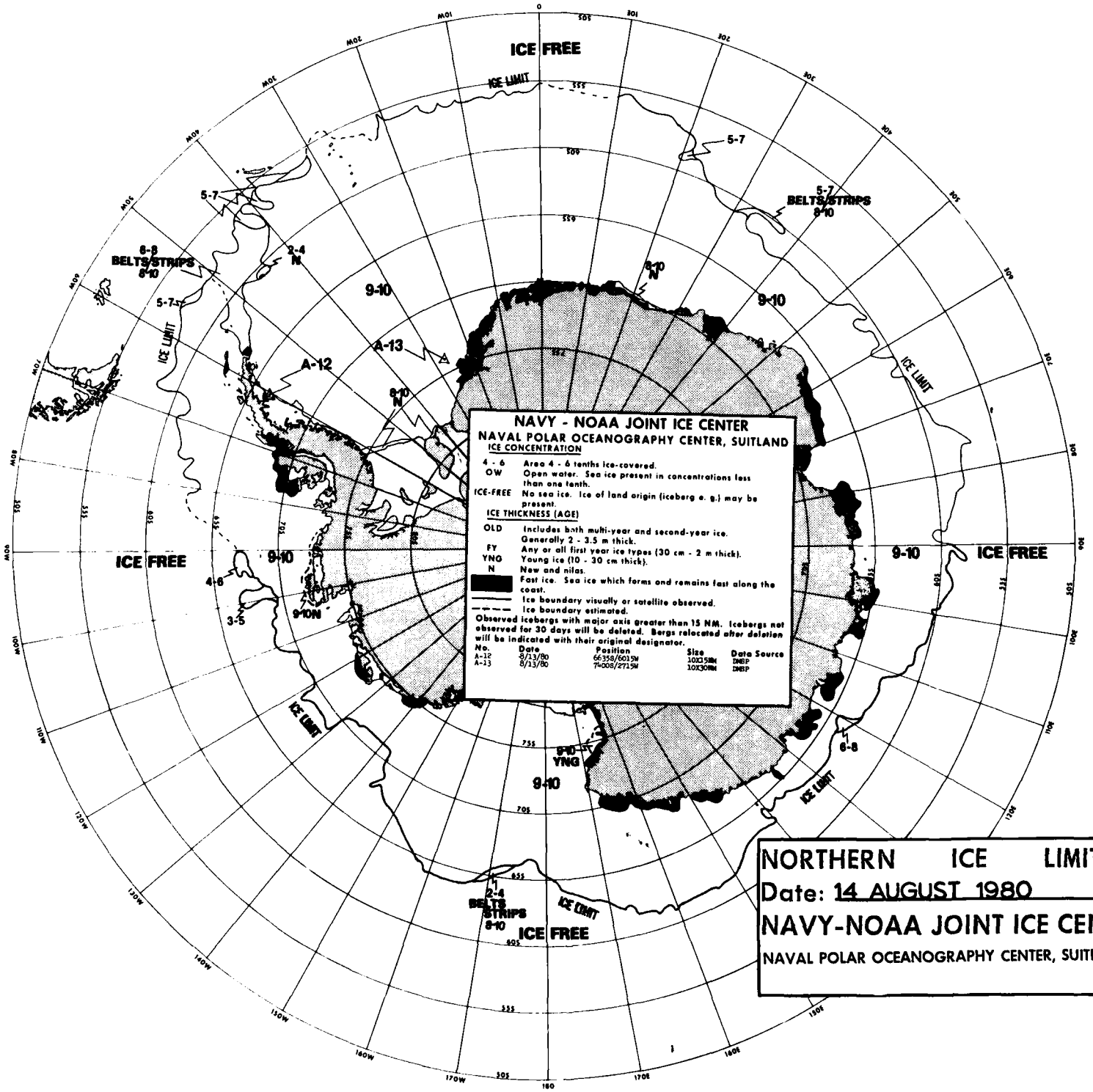
Date: 24 JULY 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
ICE LIMIT
9-10
A-12
7-9
5-7
3-5
O/W
4-6
2-4
ICE FREE
ICE FREE
ICE FREE
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered.
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e. g.) may be present.
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas.
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-12 7/23/80 66358/6015W 30X15NM AVHRR (IR)
NORTHERN ICE LIMIT
Date: 31 JULY 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
ICE LIMIT
9-10
9-10 N
5-7
O/W
1-3
ICE FREE
1-6 BELTS/STRIPS 9-10
9-10 N/YNG
ICE FREE
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered.
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e. g.) may be present.
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas.
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-12 7/23/80 66355/6015W 10X15NM AVHRR (IR)
NORTHERN ICE LIMIT
Date: 07 AUGUST 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

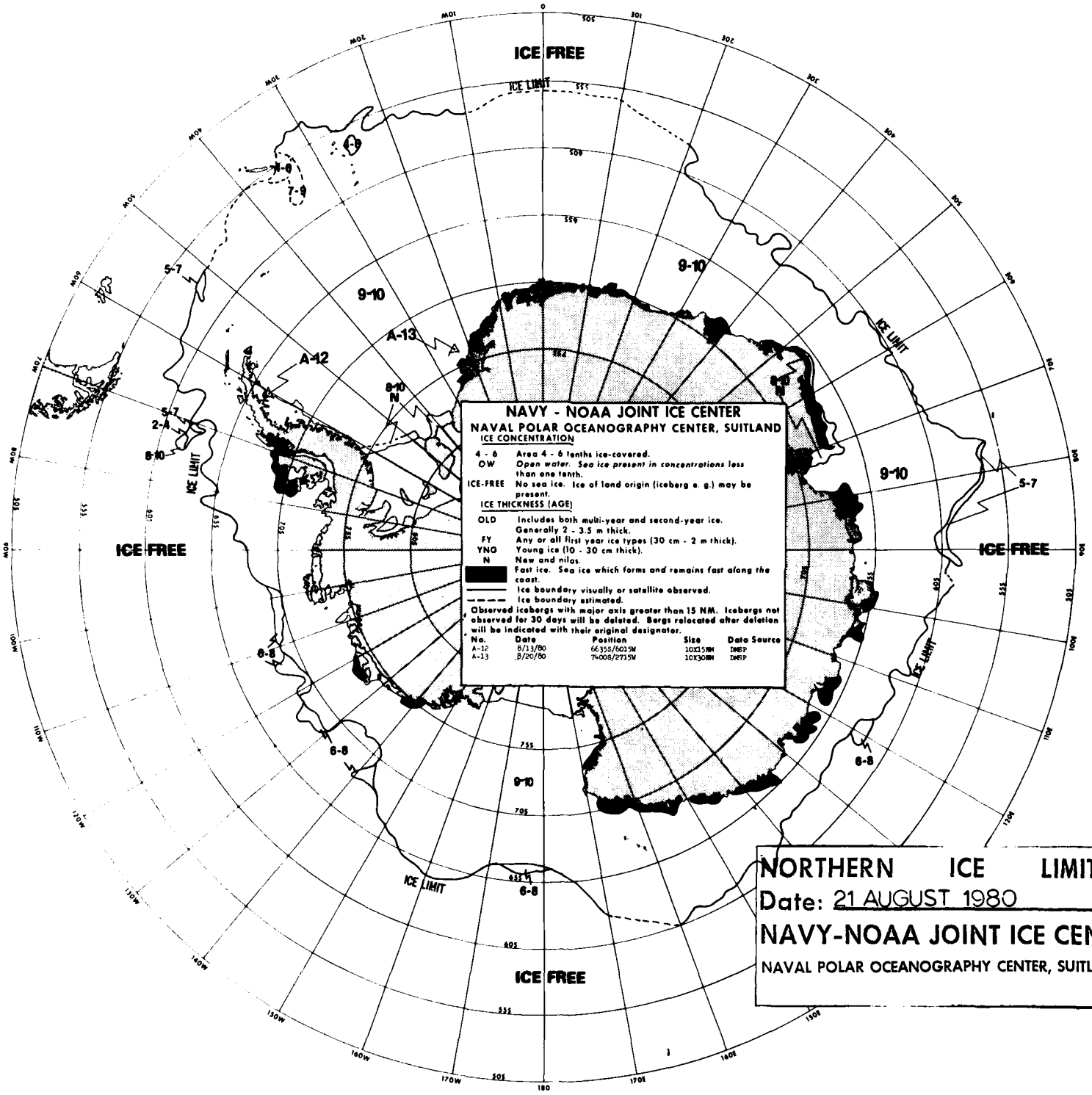


NORTHERN ICE LIMIT

Date: 14 AUGUST 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

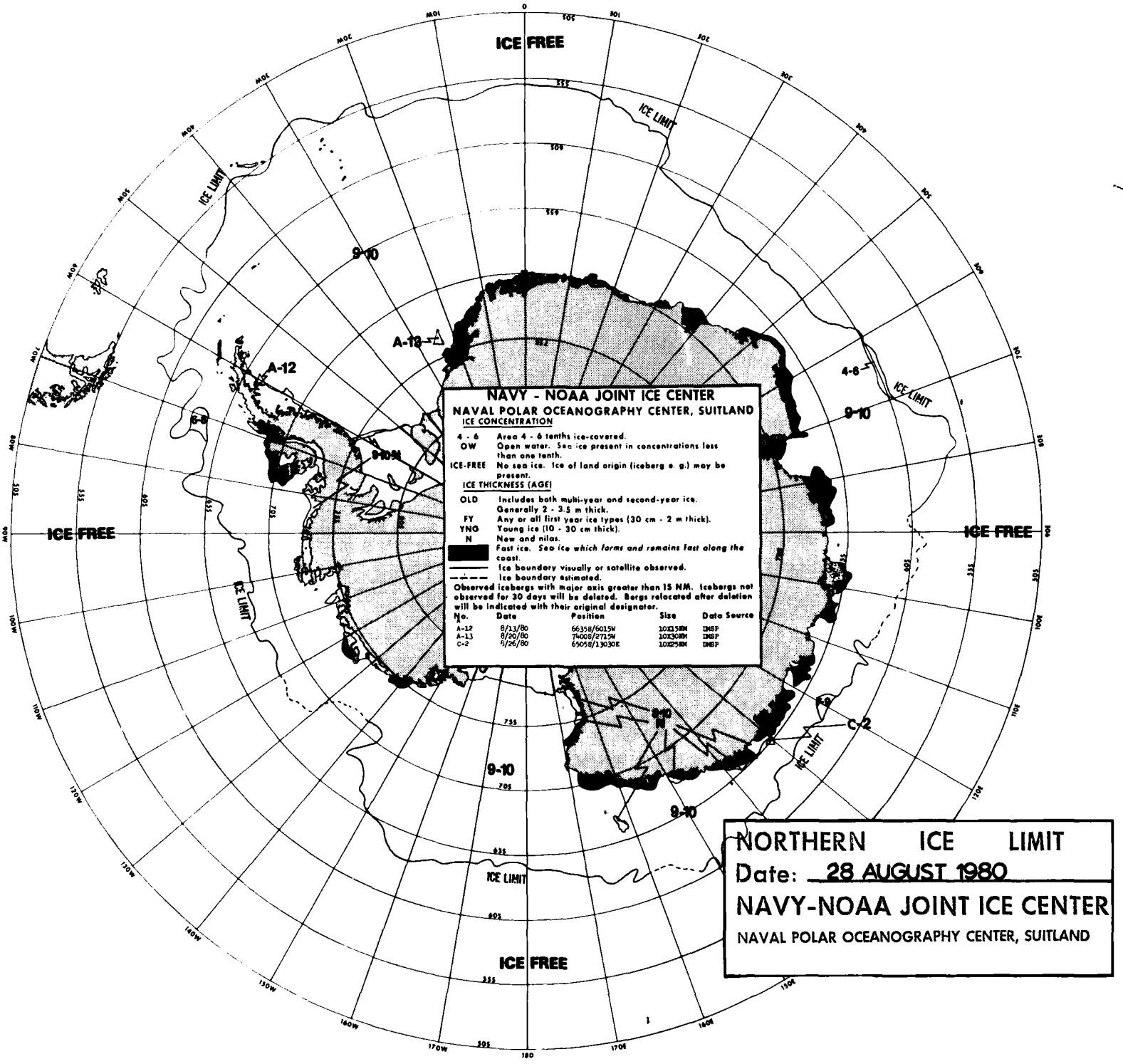


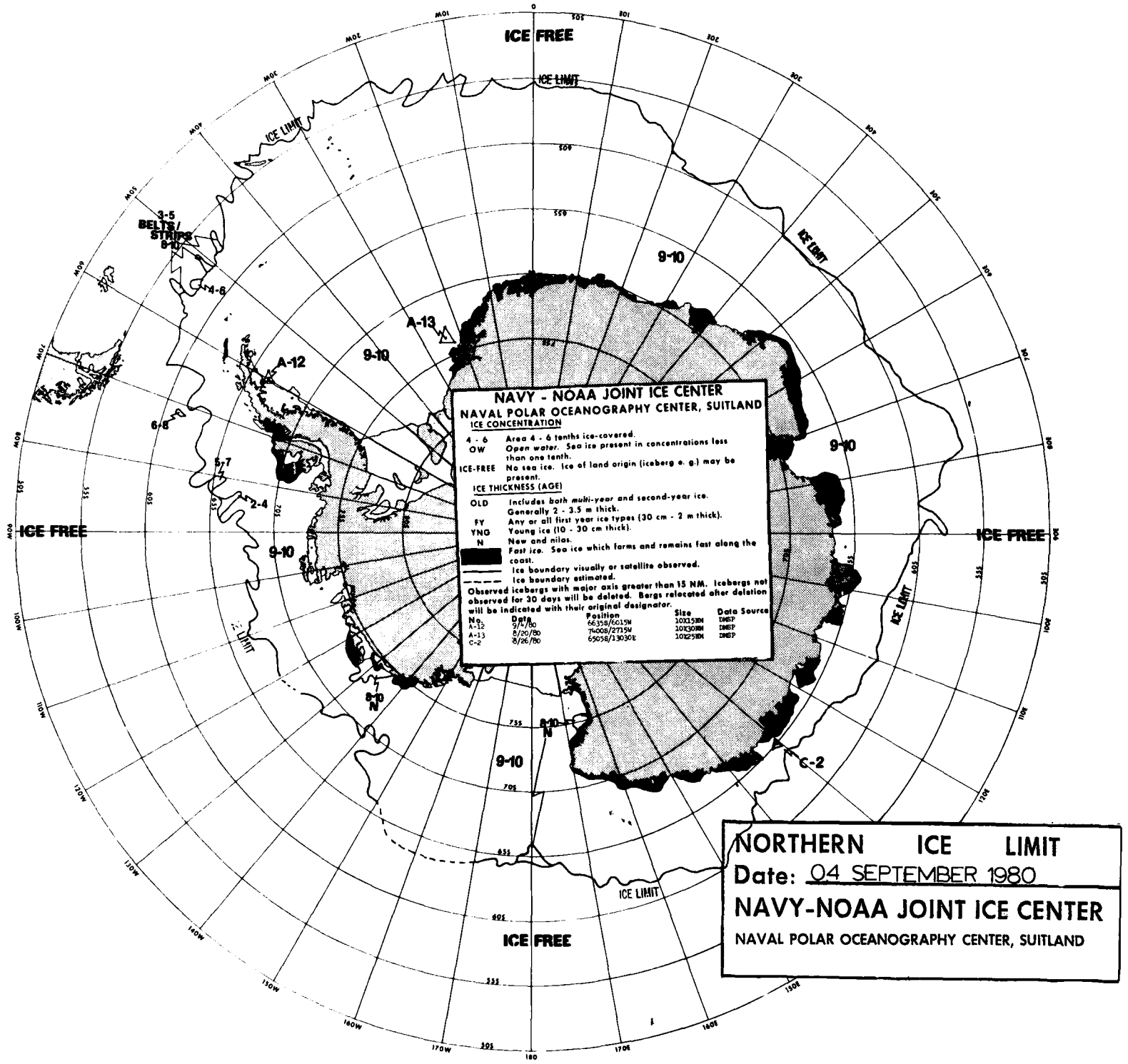
NORTHERN ICE LIMIT

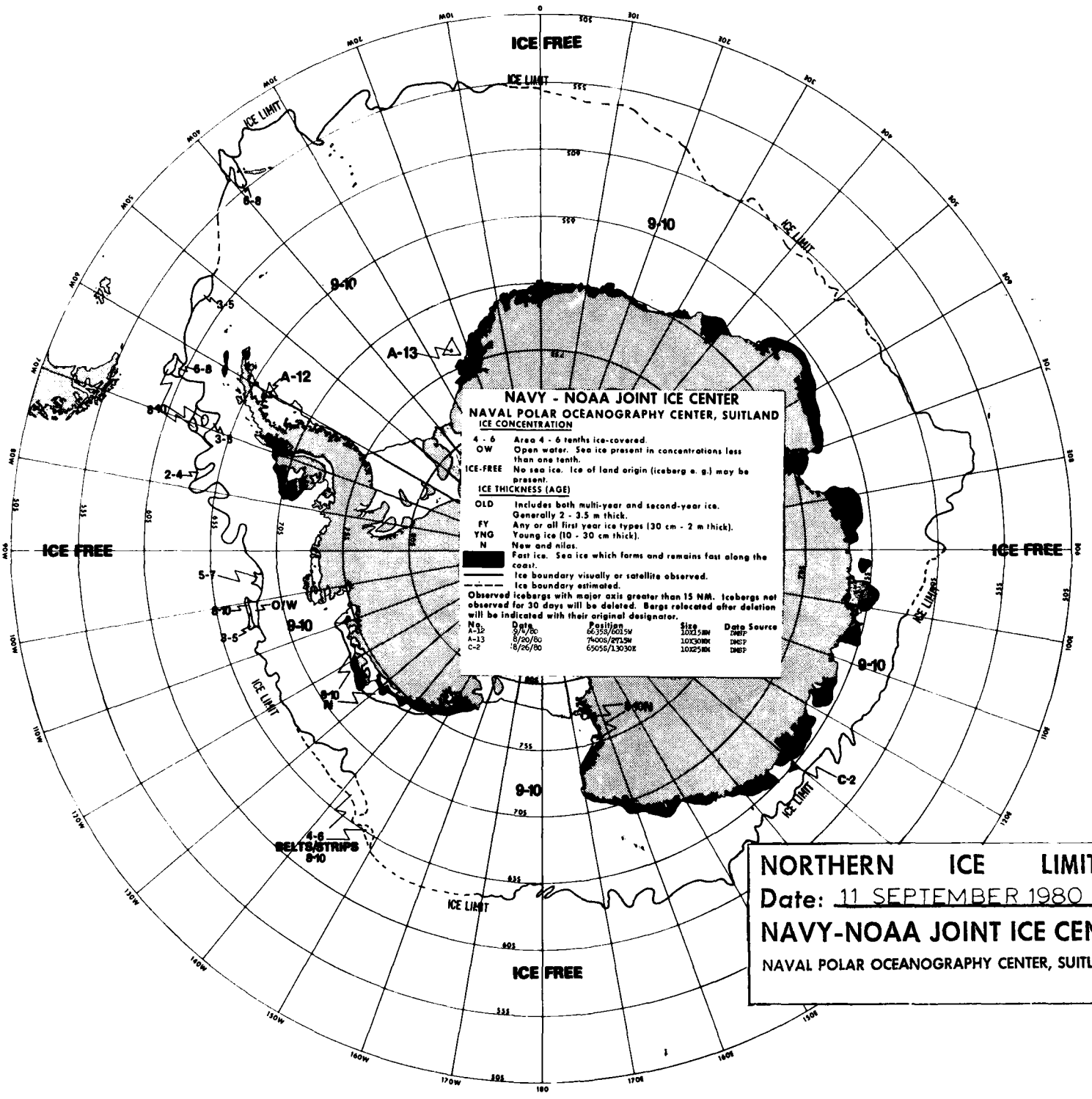
Date: 21 AUGUST 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
ICE LIMIT
9-10
A-13
A-12
4-6
9-10N
C-2
ICE FREE
ICE FREE
ICE LIMIT
9-10
9-10
ICE LIMIT
ICE FREE
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered.
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e. g.) may be present.
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas.
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Date Source
A-12 8/13/80 66358/6015W 10X15NM DMSP
A-13 8/20/80 74008/2715W 10X30NM DMSP
C-2 5/26/80 65058/13030E 10X25NM DMSP
NORTHERN ICE LIMIT
Date: 28 AUGUST 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
ICE LIMIT
3-5
BELTS/
STRIPS
9-10
4-6
A-13
A-12
9-10
6-8
6-7
2-4
ICE FREE
9-10
9-10
ICE FREE
9-10
N
9-10
N
9-10
C-2
ICE LIMIT
ICE FREE
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered.
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e. g.) may be present.
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas.
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-12 5/4/80 66358/6015W 10X15NM DMSP
A-13 8/20/80 74008/2715W 10X30NM DMSP
C-2 8/26/80 65058/13030E 10X25NM DMSP
NORTHERN ICE LIMIT
Date: 04 SEPTEMBER 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND



NAVY - NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

ICE CONCENTRATION

4 - 6	Area 4 - 6 tenths ice-covered.
OW	Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE	No sea ice. Ice of land origin (iceberg e. g.) may be present.

ICE THICKNESS (AGE)

OLD	Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY	Any or all first year ice types (30 cm - 2 m thick).
YNG	Young ice (10 - 30 cm thick).
N	New and nilas.
	Fast ice. Sea ice which forms and remains fast along the coast.
	Ice boundary visually or satellite observed.
- - - -	Ice boundary estimated.

Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.

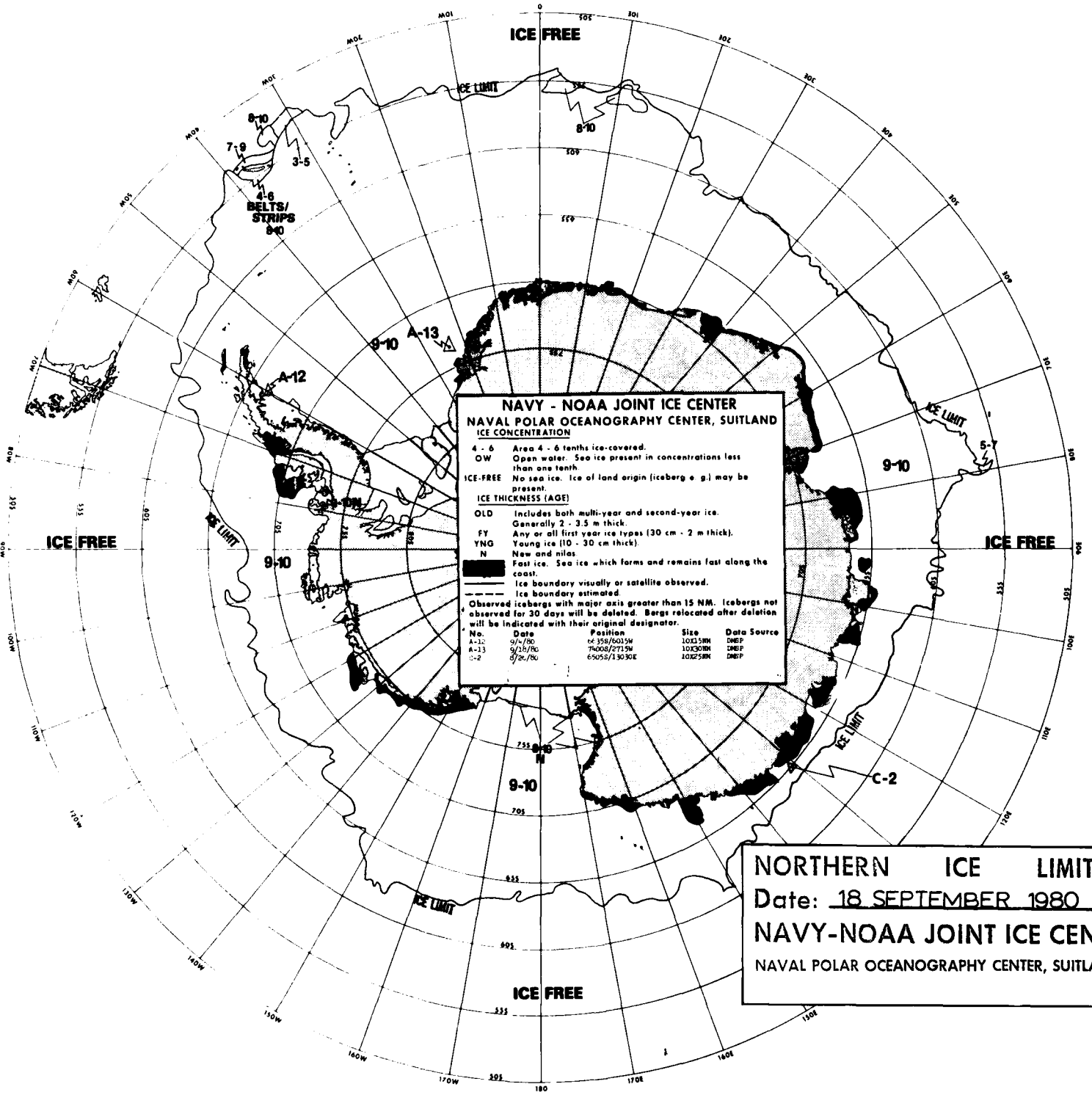
No.	Date	Position	Size	Date Source
A-12	9/1/80	66355/60015W	10X25NM	DNEP
A-13	8/20/80	74005/29715W	10X30NM	DNEP
C-2	8/26/80	65056/13030E	10X25NM	DNEP

NORTHERN ICE LIMIT

Date: 11 SEPTEMBER 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

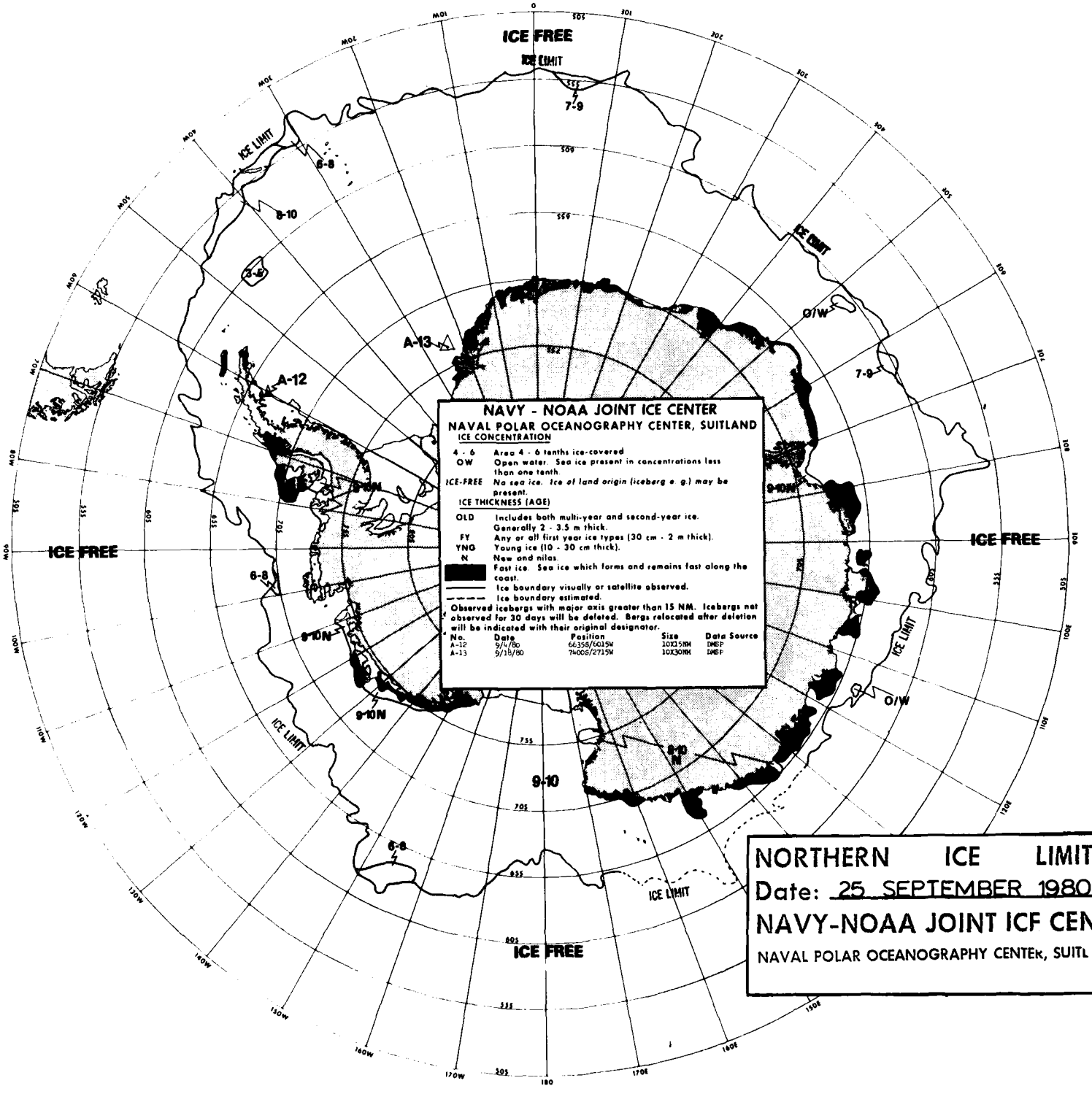


NORTHERN ICE LIMIT

Date: 18 SEPTEMBER 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

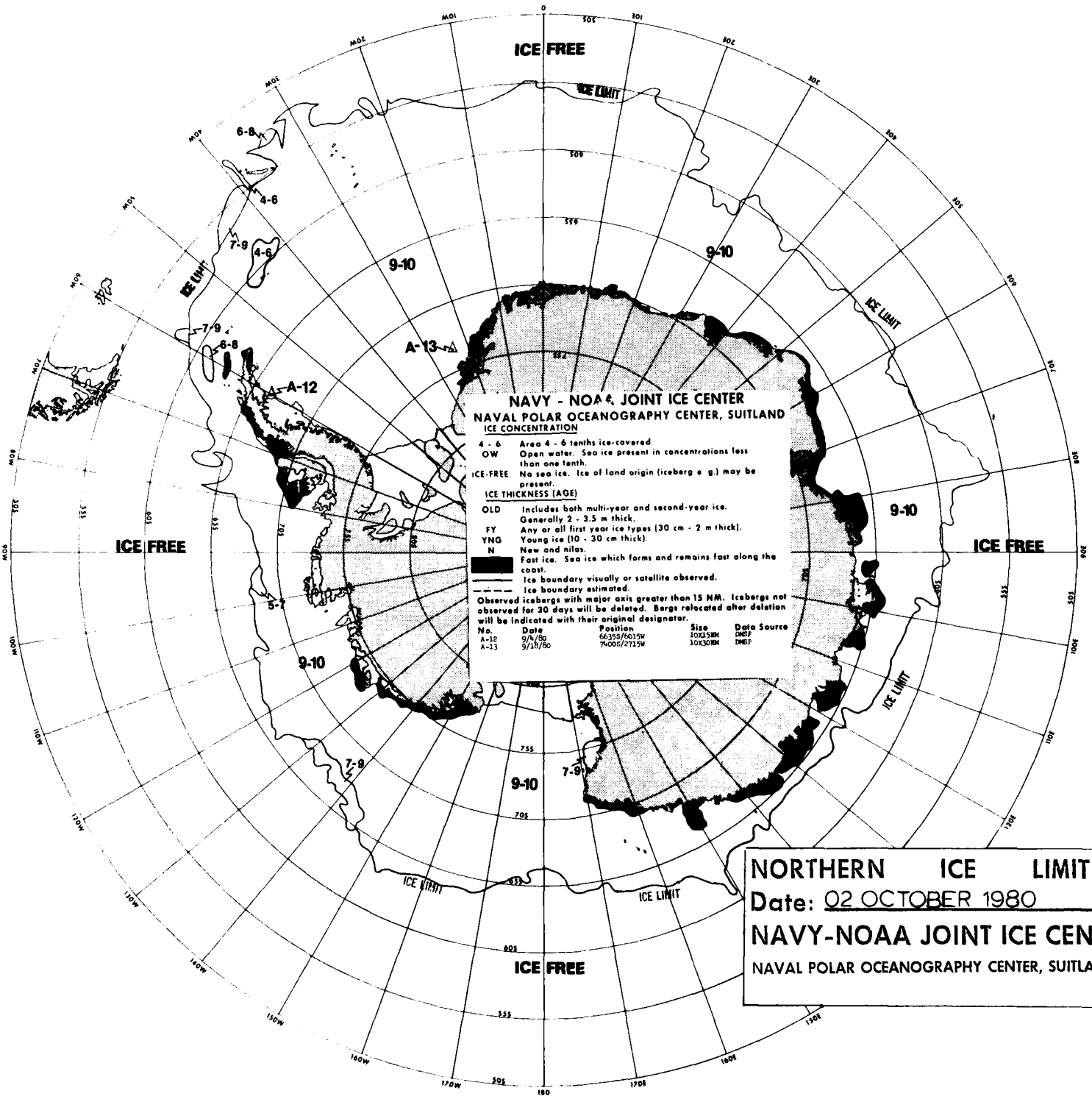


NORTHERN ICE LIMIT

Date: 25 SEPTEMBER 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

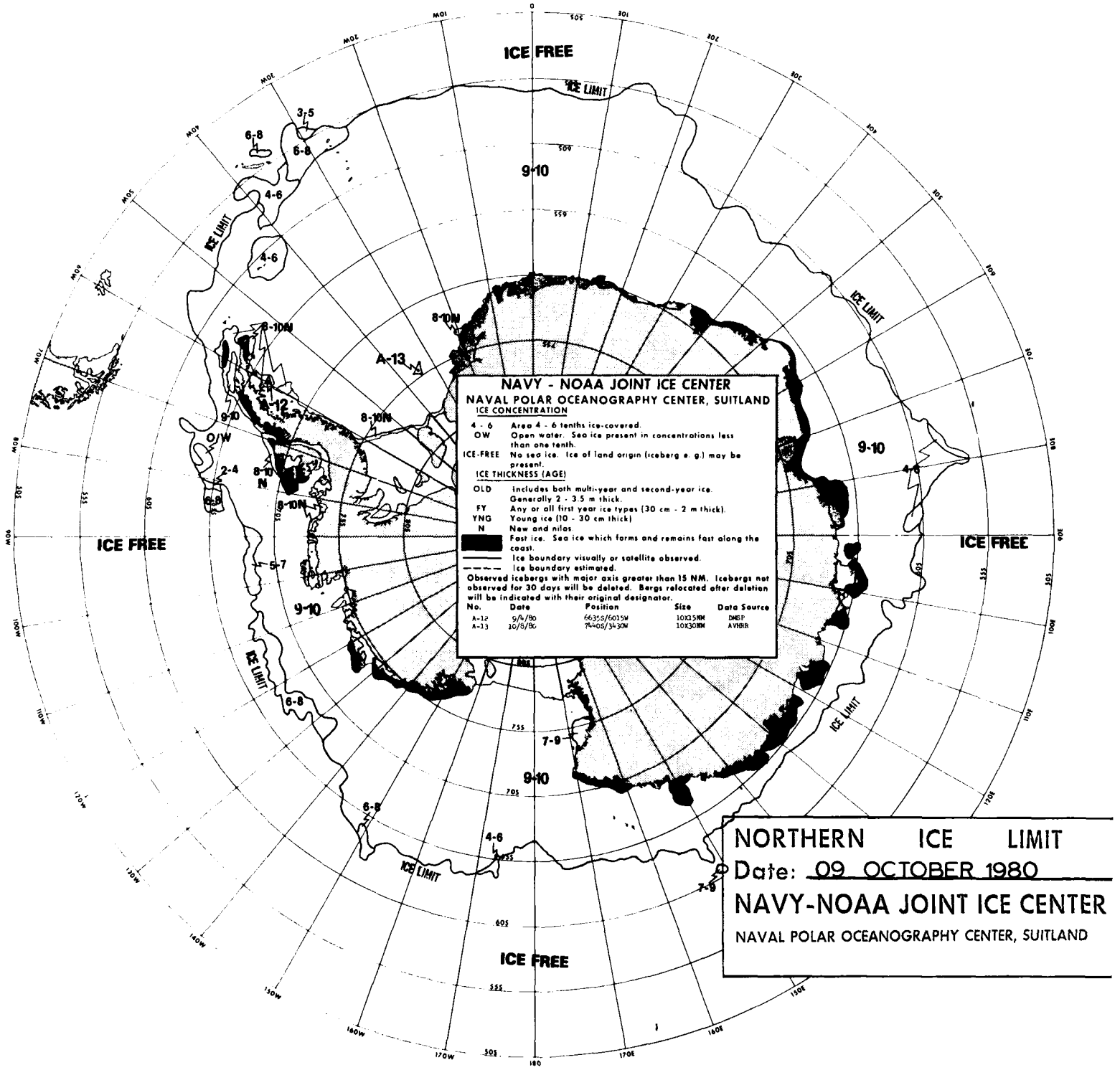


NORTHERN ICE LIMIT

Date: 02 OCTOBER 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

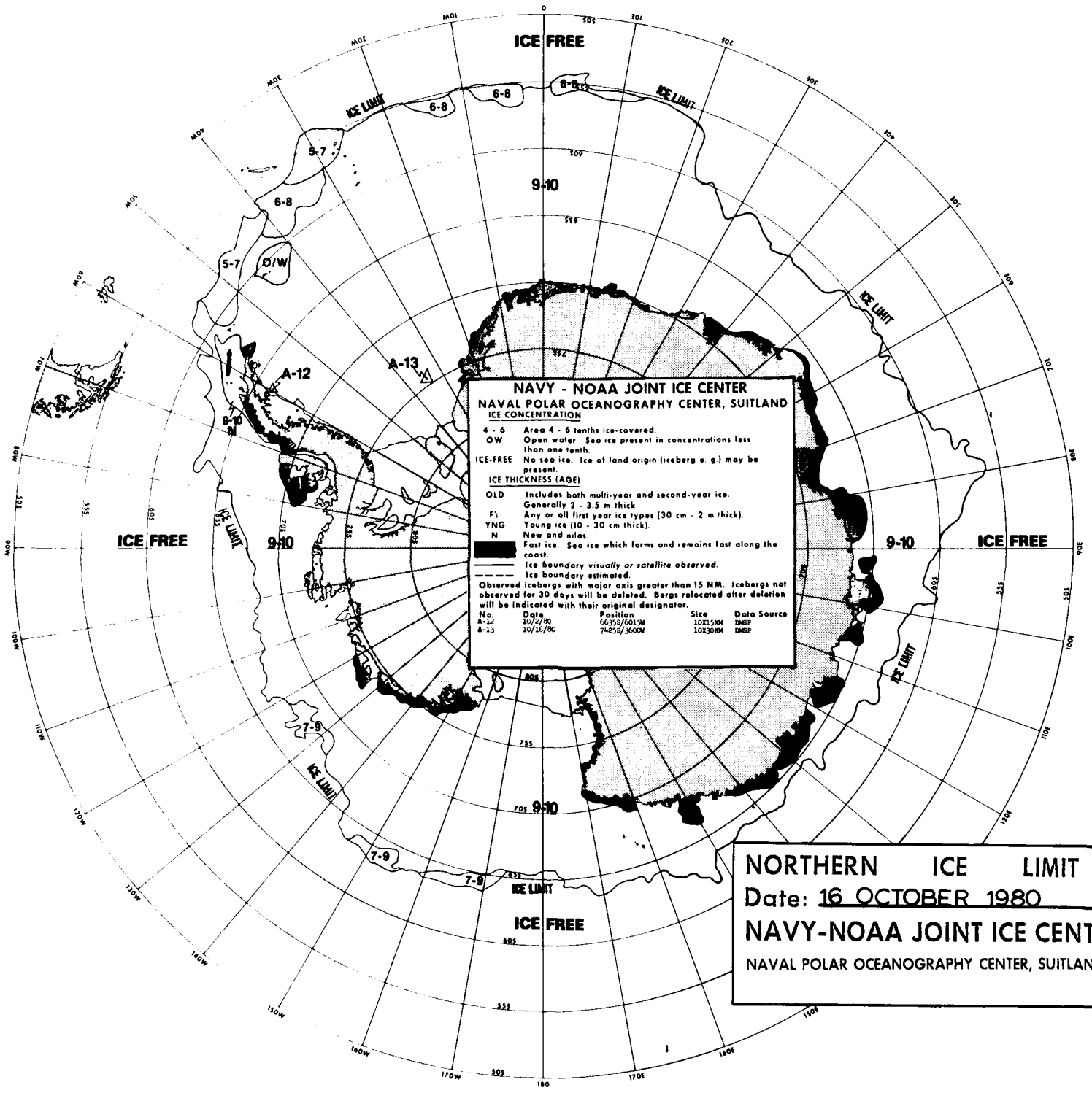


NORTHERN ICE LIMIT

Date: 09 OCTOBER 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

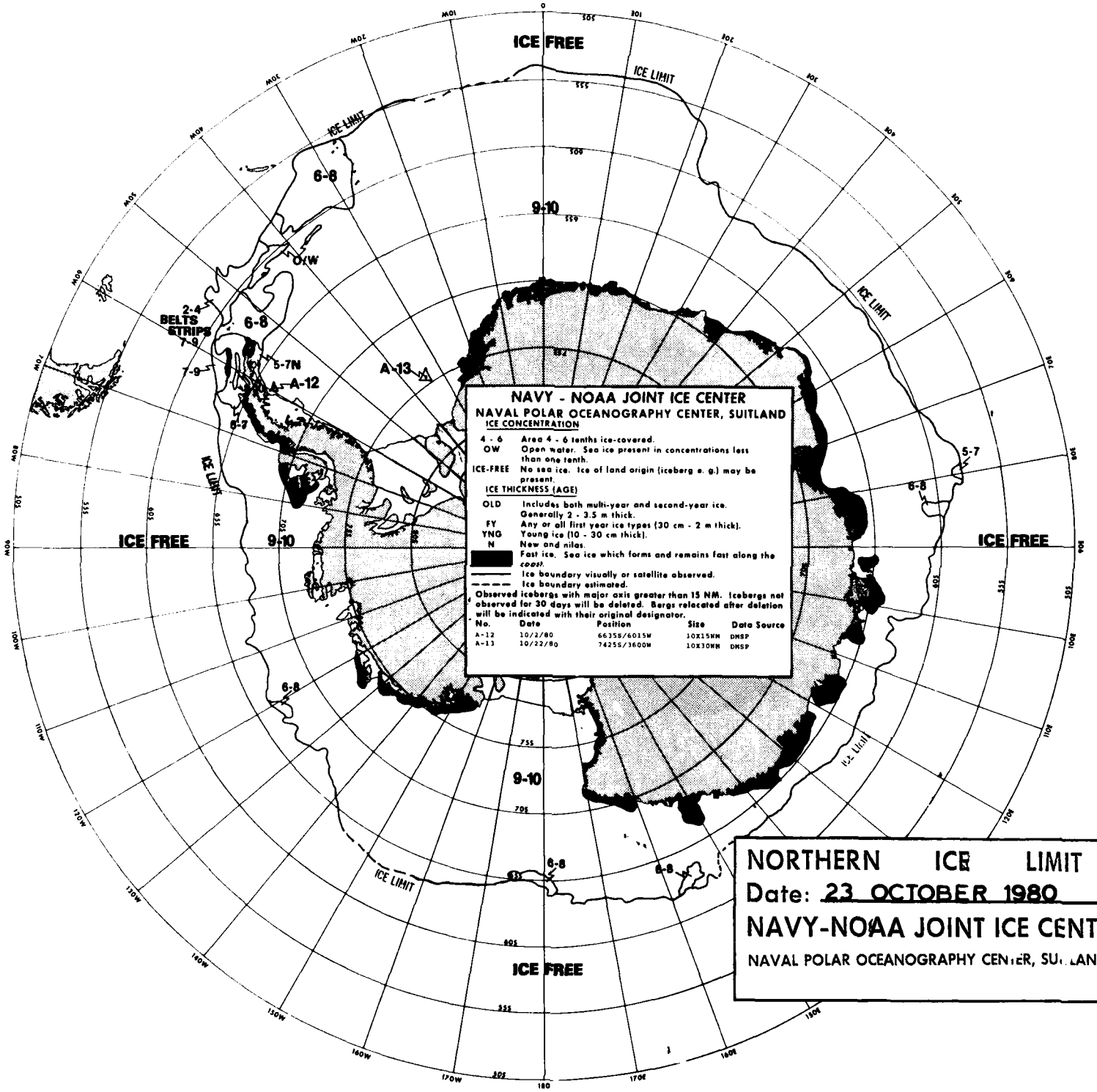


NORTHERN ICE LIMIT

Date: 16 OCTOBER 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

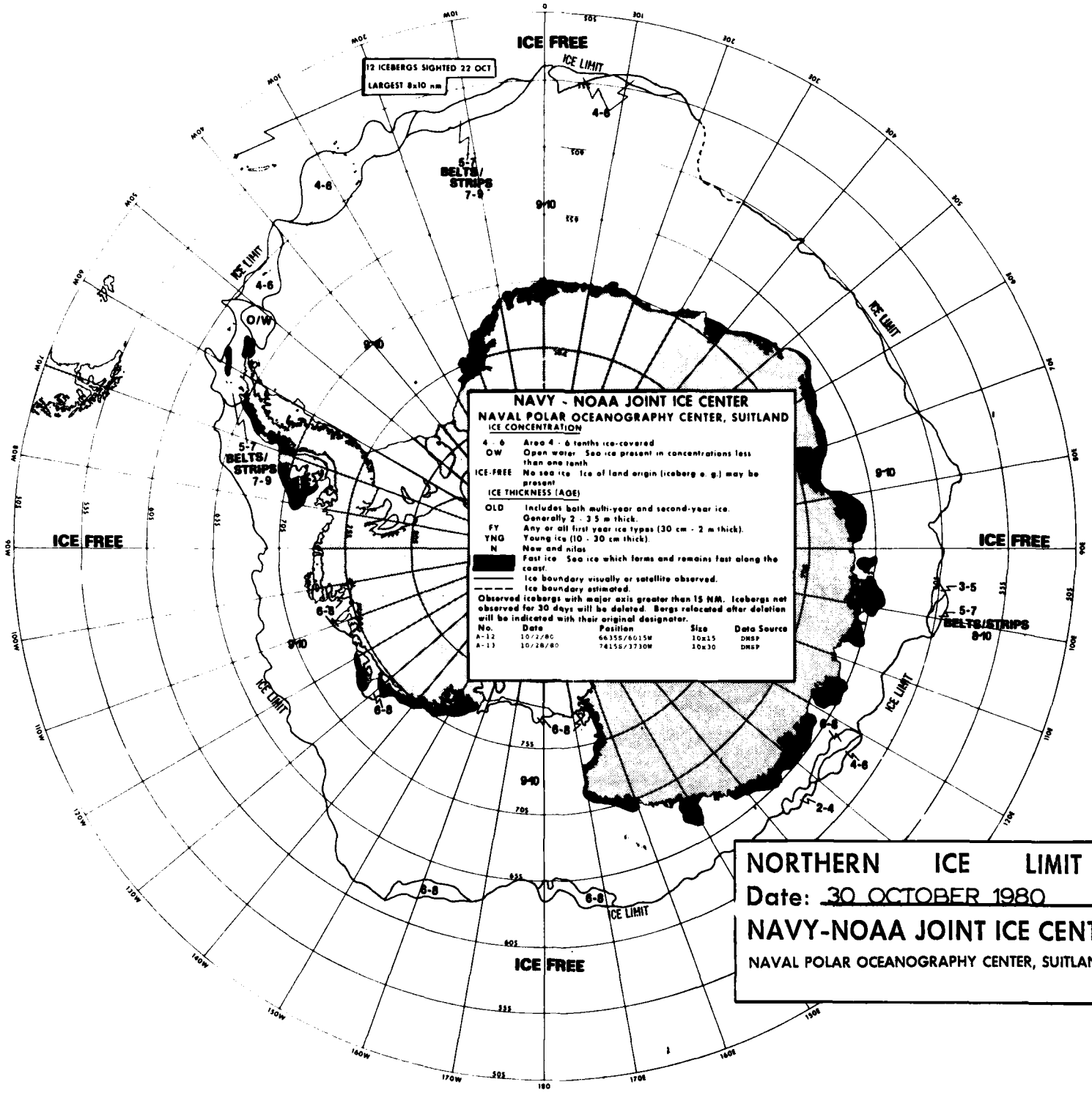


NORTHERN ICE LIMIT

Date: 23 OCTOBER 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

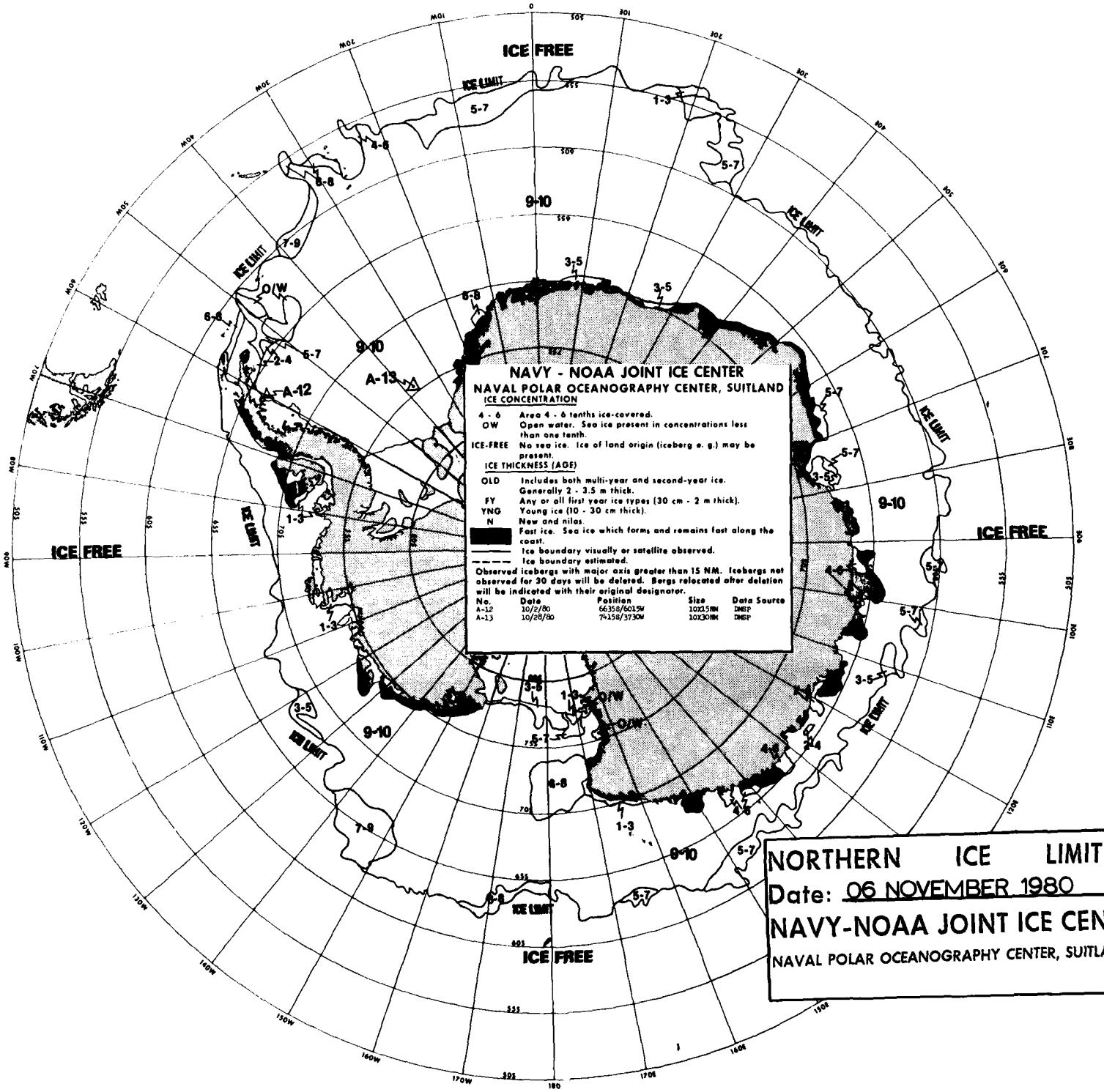


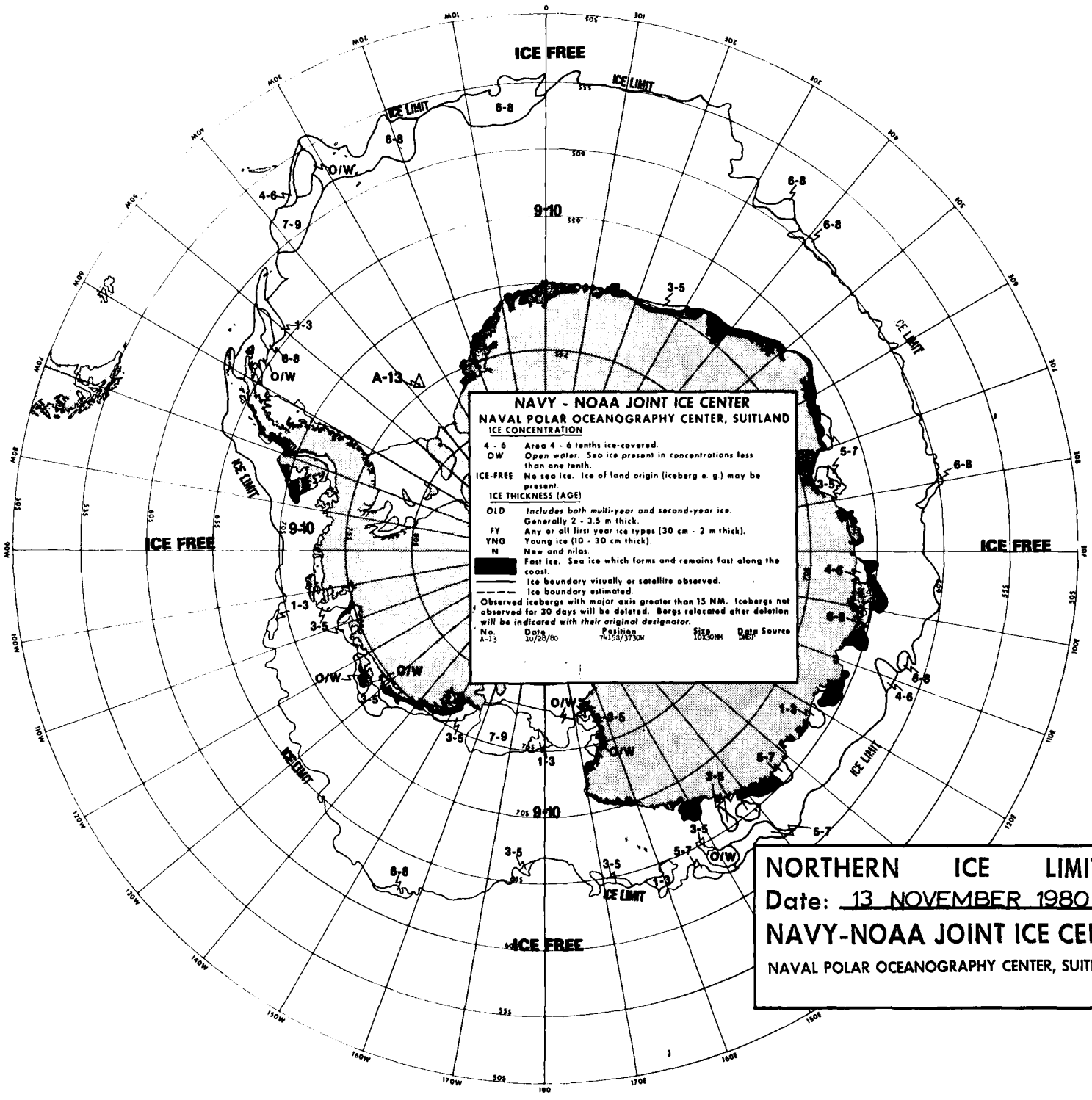
NORTHERN ICE LIMIT

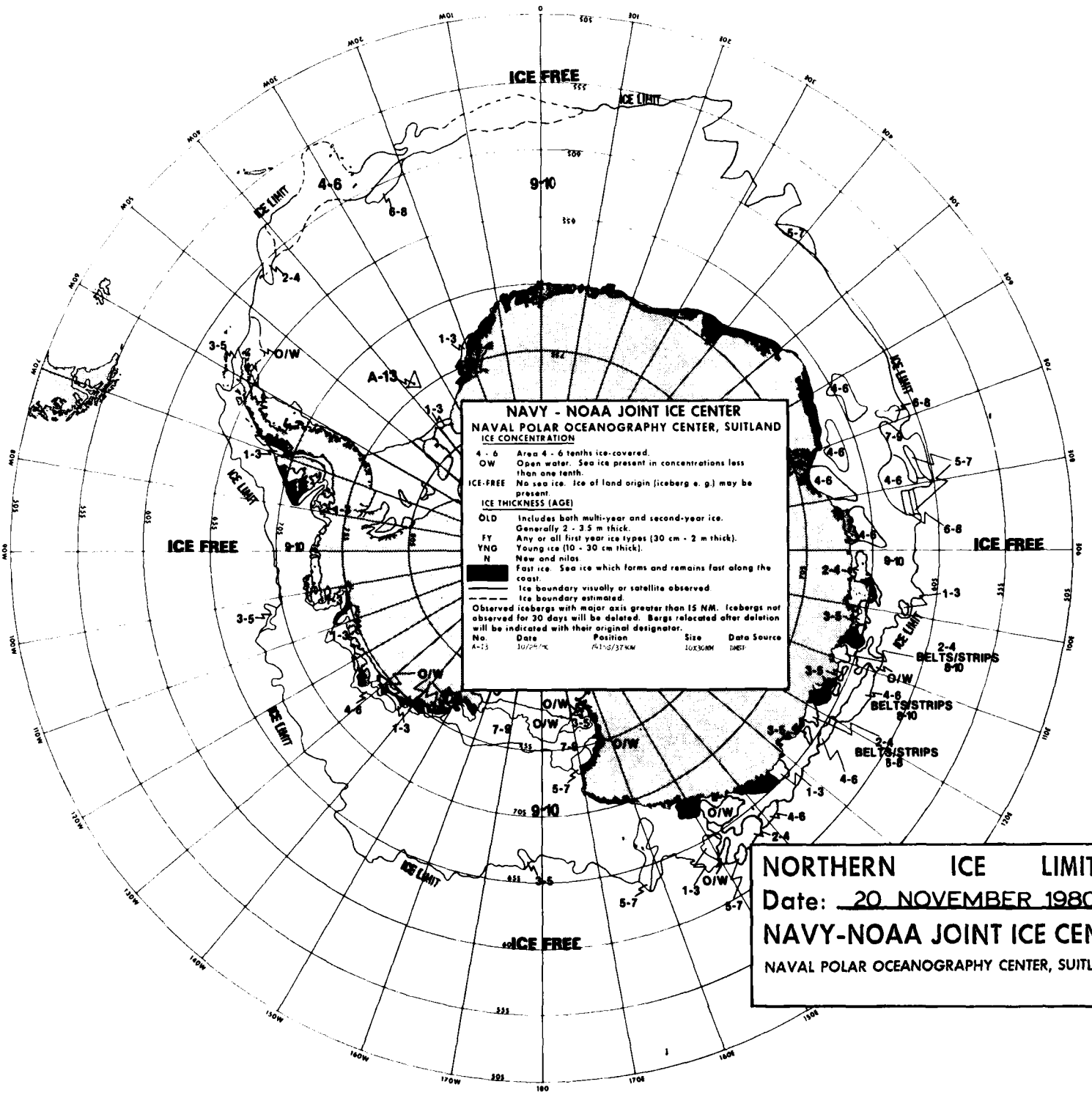
Date: 30 OCTOBER 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
ICE LIMIT
5-7
1-3
4-6
6-8
9-10
7-9
O/W
3-5
2-4
A-12
A-13
ICE FREE
ICE FREE
ICE FREE
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered.
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e. g.) may be present.
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas.
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-12 10/2/80 66358/6015W 10X15NM DMSP
A-13 10/28/80 74158/3730W 10X30NM DMSP
NORTHERN ICE LIMIT
Date: 06 NOVEMBER 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
ICE LIMIT
6-8
O/W
4-6
7-9
9-10
3-5
1-3
A-13
5-7
ICE FREE
ICE FREE
ICE FREE
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered.
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e. g.) may be present.
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas.
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-13 10/28/80 74158/373OW 10X30NM SMEP
NORTHERN ICE LIMIT
Date: 13 NOVEMBER 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

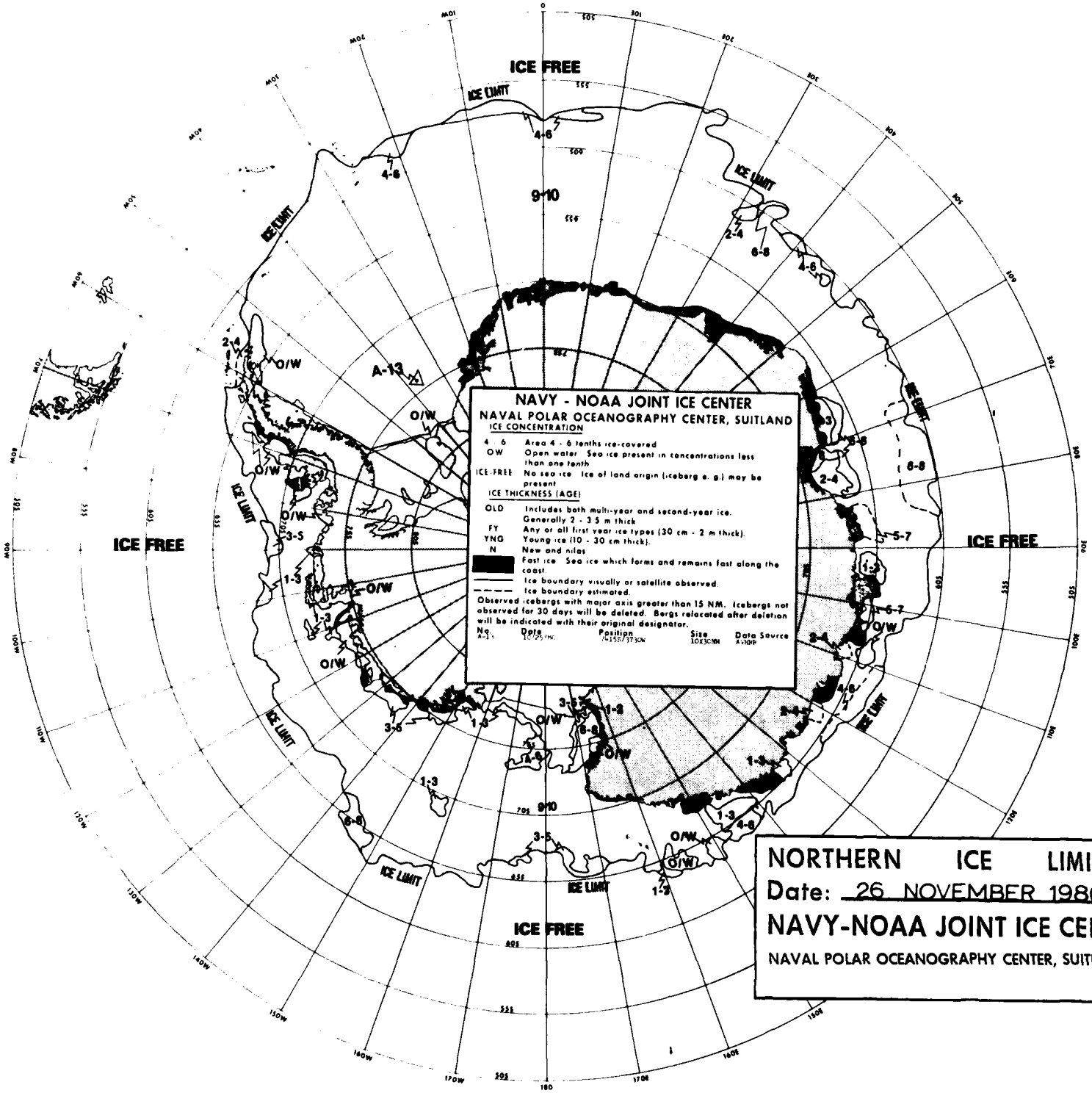


NORTHERN ICE LIMIT

Date: 20 NOVEMBER 1980

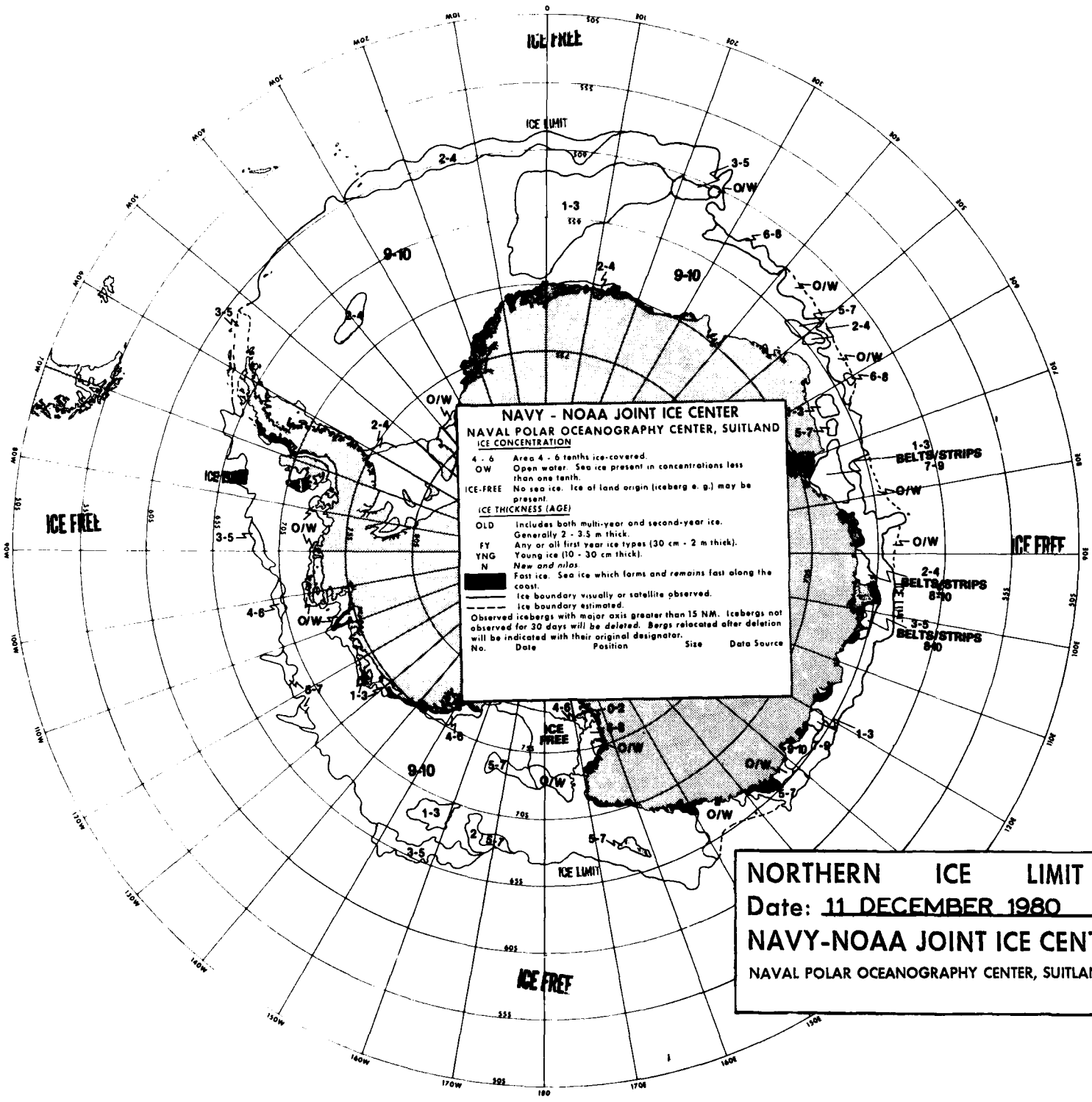
NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND



NORTHERN ICE LIMIT
Date: 26 NOVEMBER 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

ICE FREE
ICE LIMIT
1-3
BELTS STRIPS
4-6
O/W
7-9
8-10
2-4
BELTS/STRIPS
7-9
5-7
BELTS/
STRIPS
8-10
3-5
6-8
9-10
1-3
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered.
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e. g.) may be present.
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas.
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-13 11/04/80 74158/3730W 10X30NM AVHRR
NORTHERN ICE LIMIT
Date: 04 DECEMBER 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

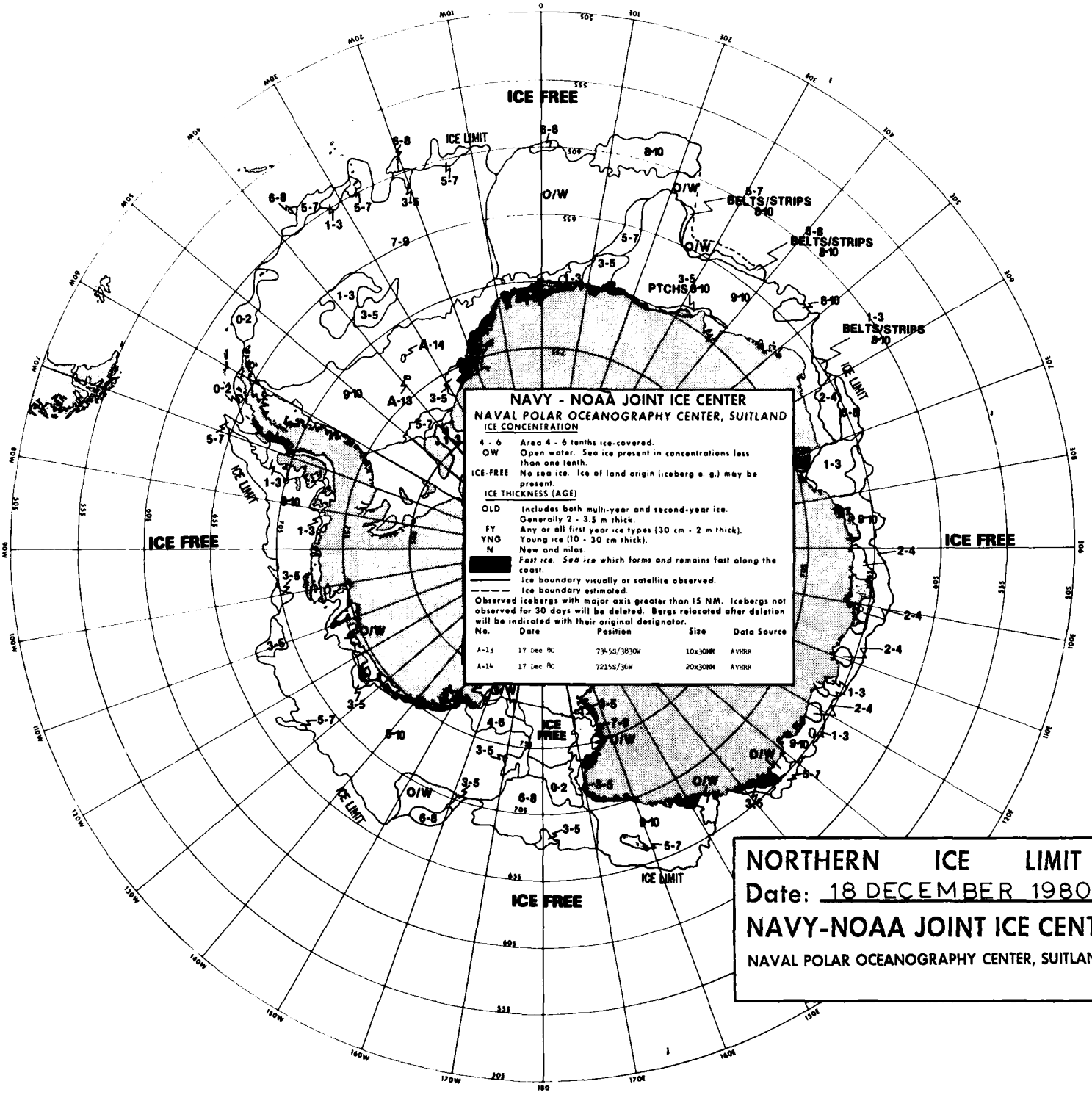


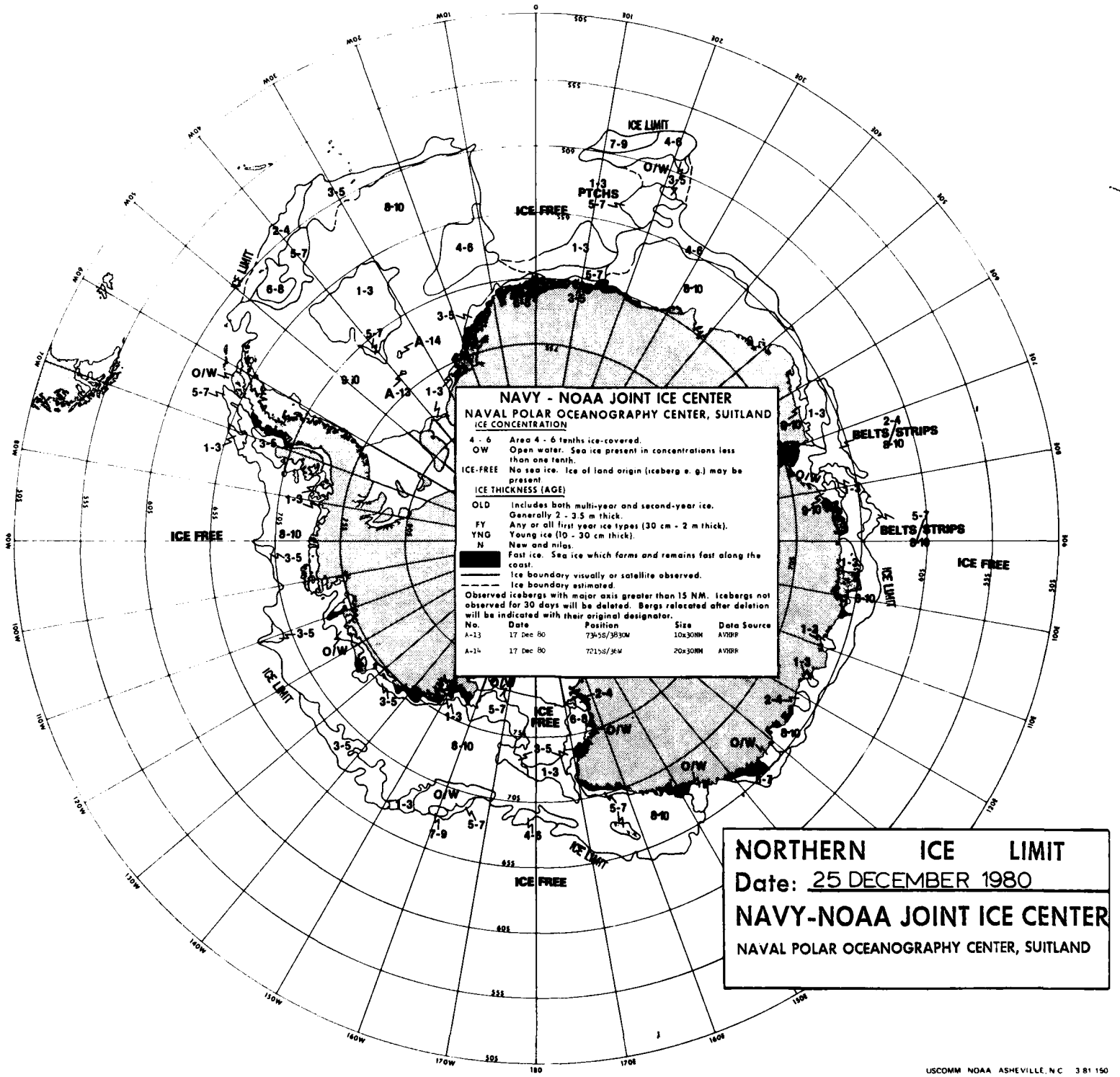
NORTHERN ICE LIMIT

Date: 11 DECEMBER 1980

NAVY-NOAA JOINT ICE CENTER

NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND


ICE FREE
ICE LIMIT
O/W
BELTS/STRIPS
PTCHS
A-14
A-13
ICE FREE
ICE FREE
ICE FREE
ICE LIMIT
ICE LIMIT
ICE LIMIT
ICE LIMIT
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND
ICE CONCENTRATION
4 - 6 Area 4 - 6 tenths ice-covered.
OW Open water. Sea ice present in concentrations less than one tenth.
ICE-FREE No sea ice. Ice of land origin (iceberg e. g.) may be present.
ICE THICKNESS (AGE)
OLD Includes both multi-year and second-year ice. Generally 2 - 3.5 m thick.
FY Any or all first year ice types (30 cm - 2 m thick).
YNG Young ice (10 - 30 cm thick).
N New and nilas
Fast ice. Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.
Observed icebergs with major axis greater than 15 NM. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with their original designator.
No. Date Position Size Data Source
A-13 17 Dec 80 7345S/3830W 10x30NM AVHRR
A-14 17 Dec 80 7215S/36W 20x30NM AVHRR
NORTHERN ICE LIMIT
Date: 18 DECEMBER 1980
NAVY-NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND



USCOMM NOAA ASHEVILLE, N C 3 81 150

TABLE I TYPE OF SATELLITE IMAGERY UTILIZED DURING 1979 AND 1980

Time Period		Satellite Remote Sensing			Resolution	Coverage
From	To	Sensor Platform	Sensor Type	Spectral Region		
1-79	1-79	NOAA-5	VHRR VIS IR	 0.6-0.7 um 10.5-12.5um	 1km 1km	Regional
2-79	11-80	TIROS-N	AVHRR HRPT/LAC VIS NIR IR	 0.55-0.90um 3.55-3.93um 10.5-11.5um	 1km 1km 1km	Regional
			GAC VIS IR	 0.55-0.90um 10.5-11.5um	 4km 4km	Global
1-79	8-80	DMSP	HR MI	0.4-1.1um 8.0-13.0um	3.7km 4.4km	Global
1-80	12-80	NOAA-6	AVHRR HRPT/LAC VIS NIR IR	 0.55-0.68um 3.55-3.93um 10.5-11.5um	 1km 1km 1km	Regional
2-80	12-80		GAC VIS IR	 0.55-0.68um 10.5-11.5um	 4km 4km	Global
1-79	12-80	NIMBUS-5	ESMR	1.55cm	25km	Global
4-80	12-80	NIMBUS-7	SMMR	1.66cm	50km	Global

Abbreviations and Acronyms

AVHRR - Advanced Very High Resolution Radiometer
cm - Centimeter
DMSP - Defense Meteorological Satellite Program
ESMR - Electrically Scanning Microwave Radiometer
GAC - Global Area Coverage
HR - High Resolution(Visual Scanning Radiometer)
HRPT - High Resolution Picture Transmission
IR - Infrared
km - Kilometer
LAC - Local Area Coverage
MI - High Resolution (Infrared Scanning Radiometer)
NIR - Near Infrared
SMRR - Scanning Multifrequency Microwave Radiometer
VHRR - Very High Resolution Radiometer
VIS - Visual
um - Micrometer


ATE
LMED
8