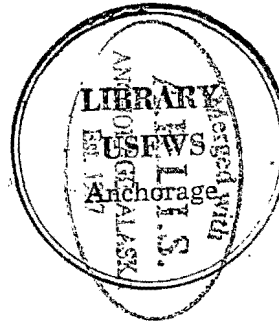


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**PROGRESS REPORT: 1984 WALRUS HARVEST, HEALTH  
AND WELFARE STUDY AT NOME, ALASKA**



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3 3755 000 45956 0

**ARLIS**  
Alaska Resources  
Library & Information Services  
Anchorage, Alaska



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**ARLIS**

Alaska Resources  
Library & Information Service  
Anchorage, Alaska



## ABSTRACT

Walrus (Odobenus resmarus) harvest data was collected for the Nome and King Island area from May 10 to July 10, 1984 by the U.S. Fish and Wildlife Service (FWS) with cooperation from the Eskimo Walrus Commission (EWC). The documented minimum retrieved harvest for Nome and King Island, respectively, was 46 and 111 walruses, far below harvest levels experienced during the preceeding four years. The harvest from King Island was comprised of a majority of female walruses for the first time. Changes in the sex ratio of the harvest from Nome were inconclusive due to the low number of animals taken. Forty-five pairs of teeth, for ageing purposes, and three sets of specimens for contaminant analysis were acquired. Take of other marine mammals for Nome and King Island incidental to walrus hunting included a minimum of 91 bearded seal (Erignathus barbatus), 25 ringed seal (Phoca hispida), spotted seal (Phoca largha), 2 unidentified seals and 1 polar bear (Ursus maritimus). Prolonged consolidated ice conditions in the Norton Sound were believed to have limited hunting success.



## INTRODUCTION

The spring walrus (Odobenus rosmarus divergens) harvest was monitored in Nome during the spring of 1984. This year marked the 5th year of a continuing 5-village study located in the northern Bering Sea. The Eskimo Walrus Commission (EWC) cooperated in the study. Objectives of the harvest monitoring program were:

1. To record the number, sex, and chronology of harvested walruses.
2. To collect teeth from harvested walruses to determine age composition.
3. To collect samples of fat, kidney, liver and heart tissues for heavy-metal and organochlorine contaminant analysis.
4. To record incidental harvests of other marine mammals and birds.

The Nome harvest was monitored from May 10 to June 6 by the Service biologist, Scott Schliebe, with the assistance of Ed Muktoyuk Sr. a local resident who later was solely responsible for the harvest at Cape Wooley and King Island from June to July 10, 1984.

## STUDY AREA

Nome is located on the southern coastline of the Seward Peninsula affronting Norton Sound. An admixture of Yupik and Inupiat Natives co-exist in the community of predominantly non-Natives. Nome is the regional center for the outlying areas. The King Islanders maintain a distinct social and cultural community within Nome. Walrus hunting out of Nome was repopularized by a small group of individuals who had relocated to Nome from St. Lawrence Island. Their successes eventually led to the hunt of today's proportion. Weather and ice conditions in Norton Sound and the Bering Sea determine hunter accessibility to migrating walrus herds. The winter of 1983-84 was characterized as the heaviest ice year since 1977 and was comparable to 1977's extreme southern extension of the polar sea ice. Spring walrus hunting normally begins from early to mid-May and ends in early June. Hunting activity in the Bering Sea adjacent to King Island and Cape Wooley generally occurs one month later.

## METHODS

A vehicle was used to patrol the road system located adjacent to the beach. Hunters were recorded as they departed and boats were met and assisted in unloading upon return. The walrus kill was recorded according to sex and age (calf or adult). The number and species of other marine mammals and birds taken were noted. Hunting time, directions, crew size, boat lengths, motor sizes were sampled. Due to the diffuse nature of launching areas and sporadic nature of hunter launching and returning, some crews were missed. Boat captains were contacted later if they were missed on the beach. Unretrieved loss information was recorded if the boat captain or crew member volunteered the information. However, no systematic method was devised for determining crippling rates.



## SPECIMEN COLLECTION

Collection of specimens in 1983 was limited to a goal of 100 pairs of lower canines, and kidney, liver heart and blubber contaminant specimens from 10 older-age animals. The sex ratio of contaminant specimens collected was to approximate 50:50 while tooth specimens were to be collected randomly through the harvest period.

Tooth specimens were assigned an accession number, sealed in a paper envelop marked with the date of harvest, sex of walrus and name of the boat captain. Tissue specimens were initially frozen on the exterior in the ADF&G freezer. After a thin hard frozen crust developed a core plug was extracted using steel surgical scalpel blades in order to remove contamination which may have occurred during butchering of the animal or during transport back to the beach. Core samples were wrapped in aluminum foil and individually labeled and sealed in small zip lock plastic bags. Tooth specimens accompanied contaminants specimens. Noticable tissue abnormalities and hunter information concerning the observed physical condition of the animal were recorded. Samples await analysis at the Patuxent National Wildlife Research Laboratory.

## HUNTER CONTACT

A marine mammal hunters meeting was held after arrival in Nome at the King Island hall. Results from past programs were explained and details of the objectives of this years' program presented. Dan Mayer presented the Law Enforcement program slated for this spring's walrus harvest season and answered questions at the meeting. All boat captains were visited individually at home during May. Hunter kits were distributed and a one to one discussion of the harvest program and hunter questions were covered.

## INCIDENTAL OBSERVATIONS

Incidental observations included hunting conditions (weather and ice, National Weather Service Local Climatological Data and Satellite Ice Imagry Appendix 2), seal harvest, and bird harvests. Recording the chronology and abundance of spring migratory birds was not attempted. Henry Springer, a local birding enthusiast, has published results of his extensive observations and surveys.

## RESULTS AND DISCUSSION

The documented minimum Nome harvest during the observation period was 46 walruses consisting of 15 adult males (32.6%), 14 adult females (30.4%), no calves and 17 adult sex unknown (37.0%). A 52:48 male to female sex ratio existed among known sex animals (Tables 1 and 2). The higher than normal sex unknown category resulted from diffuse hunting effort and difficulty in encountering hunters at the beach. Animals lost were included if the hunter volunteered the information, however, hunters were not questioned concerning unretrieved walruses which sunk, and therefore the figure should not be considered to represent minimum loss rates.



Statistical comparison of sex ratio will not be conducted due to the small number of walruses harvested. The sex ratio of the 1984 harvest appear approximately that of 1983 while the harvest of adult females predominated in 1981 and 1982. The magnitude of the 1984 harvest was substantially reduced from previous spring harvests; (11%) of 1983, (45%) of 1982, and (9%) of 1981. No calves were harvested during 1984 although nursery herds were present for a short period. Hunters stated that these animals were hauled out in the interior portion of ice floes and were inaccessible. Nome walrus hunters have not shown a preference toward harvesting calf walrus. One calf walrus was shipped to a zoo in the Lower 48 following the Service's spring harvest monitoring.

Documented harvests of other marine mammals from Nome included a minimum of 76 bearded seals (Erignathus barbatus), 24 ringed seals (Phoca hispida), one spotted seal (Phoca largha), and 2 unidentified seals (Table 3).

Tooth specimens were acquired from 45 walruses, 20 (44%) males and 25 (56%) females. Contaminant specimens were collected from 3 walruses (Table 5).

Nome hunters experienced a poor walrus harvest season during 1984. The primary factor hindering hunter success was consolidated ice conditions within Norton Sound. Departure of shore fast ice occurred on May 20, slightly, 3-10 days later than anytime in the preceeding 4 years. Retreat of ice in the Bering Sea did not begin until May while normal retreat patterns generally begin around mid-April. The southern portion of Norton Sound remained ice covered and walrus herds which may normally enter the southern sound and exit near the northern sound did not have access to Norton Sound and by-passed via the Bering Sea route. (See National Weather Service Climatological Data and Ice Imagry Appendix 1 and 2). Walrus herds encountered in Norton Sound were few according to area hunters. A sampling of 17 hunting efforts involving 742 man-hours with a harvest of 12 walruses showed a 61.8 hour effort expenditure per walrus harvested. Although the sampling size is small and is easily influenced by a single successful hunting attempt, it does display the relative increased effort per unit return which occurred in Nome during the spring of 1984. Boat motor sizes were unchanged from previous years. A 22' fiberglass boat with 145HP. Suzuki experienced motor problems after two hunting attempts. A 26' bowpicker was not used in this spring hunt.

The documented harvest at Cape Wooley and King Island from June 1 to July 10 was 111 walruses. This consisted of 12 (10.8%) males, 12 (10.8%) females, 1 (0.9%) calf and 86 (77.5%) adults of unknown sex (Table 4). The unknown sex category is comprised primarily of female walruses taken between King Island and Little Diomed, however, an accurate proportionment is not possible. This is the first year that more female than male walruses were harvested by King Island hunters. In previous years male walruses hauling out on King Island were readily available. This was not the case this year although earlier over flights of King Island by Ed Muktoyuk and Exxon during late April and May revealed large numbers of walruses hauled out on King Island. Male herds migrating on the last of the retreating ice pack are normally pursued. This year ice



remained further south for a greater period of time and became rotten and unsuitable for hauling out. It appears that late migrating walrus were required to swim north in search of suitable ice conditions. It may not be prudent, nor economically feasible to solely hunt for swimming walruses. Time expenditures, fuel costs, low retrieval rates and the danger of hunting open seas without adequate ice cover may limit this activity.

Only 2 bearded seals (1 sunk) and a ringed seal were noted to have been harvested while 3 (unidentified) whales and numerous unidentified whales were sighted on June 8 and June 17, respectively. No tissues for contaminant analysis were collected from the King Island or Cape Wooley. Twenty-seven pairs of teeth 9 (33%) males 18 (67%) females were collected. Eleven pairs of teeth were matched at a later date. If aging reveals these samples to be unmatched they will be discarded.



Table 1. Comparison of 1981, 1982, and 1983 documented walrus harvest at Nome, Alaska (Data from Schliebe 1981, 1982 and 1983). (Adults are all animals older than calves.)

	Adult Males	Adult Females	Calves	Adult Sex Unknown	Total
1981	110	371	8		489
% of Total	22.5	75.9	1.6		
% of Known Sex Adults	22.9	77.1			
1982	27	63	6	6	102
% of Total	26.4	61.8	5.9	5.9	
% of Known Sex Adults	30.0	70.0			
1983	166	143	5	93	407
% of Total	40.8	35.1	1.2	22.9	
% of Known Sex Adults	53.7	46.3			
1984	15	14	0	17	46
% of Total	32.6	30.4	-	37.0	
% of Known Sex Adults	51.7	48.3			



Table 2. Recorded walrus harvest during the spring of 1984, Nome and King Island, Alaska.

<u>Date</u>	<u>Males<sup>a</sup></u>	<u>Females</u>	<u>Calves</u>	<u>Unknown</u>	<u>Total</u>
5/20					
5/26					
5/27	9	13		2	24
5/28	1	1			2
5/29				1	1
5/30	2			2	4
5/31	1 <sup>b</sup>				1
6/2	11 <sup>c</sup> , 1 <sup>b</sup>	8 <sup>c</sup> 4 <sup>b, c</sup>			24
6/3	1			6, 84 <sup>c</sup>	91
6/8	1 <sup>c</sup>				1
6/9			1 <sup>c</sup>	6 <sup>b</sup> , 2 <sup>c</sup>	9
TOTAL	27	26	1	103	157

<sup>a</sup> Sunk unretrieved, 2 males, 9 sex unknown

<sup>b</sup> Dead floating

<sup>c</sup> King Island hunting effort



Table 3. Recorded incidental marine mammal harvest during the spring of 1984 Nome and King Island, Alaska.

SEALS

<u>Date</u>	<u>Bearded</u>	<u>Ringed</u>	<u>Spotted</u>	<u>Unidentified</u>	<u>Polar Bears</u>	<u>Whales</u>
5/20	6					
5/20	6	3				
5/21	6	2				
5/22	7					
5/23	2					
5/24		4				
5/27	17 <sup>a</sup>	4	1	2	1	
5/30	4					
5/31	7	6				
6/1	3					
6/2	27 <sup>b</sup>	6 <sup>c</sup>				
6/3	6					
6/8						3 <sup>d</sup>
6/17						
					(abundant unid.) d	
TOTAL	91	25	1	2	1	3

a 5 Bearded seals were taken between this date and May 22.

b 2 Bearded seal sank, 1 bearded seal taken during King Island

c 1 Ringed seal taken during King Island hunt

d Reported near King Island, probably gray whales.



Table 4. Comparison of 1981, 1982, and 1983 documented walrus harvest at Cape Wooley and King Island. Data from Ed Muktoyuk Sr.

	Adult Males	Adult Females	Calves	Adult Sex Unknown	Total
1981	269		1		270
% of Total	99.7		.3		
% of Known Sex Adults	100.0				
1982	517	57	1	40	615
% of Total	84.0	9.3	.2	6.5	
% of Known Sex Adults	90.0	10.0			
1983	111	12		107	230
% of Total	48.3	5.2		46.5	
% of Known Sex Adults	90.2	9.8			
1984	13	12	1	86	111
% of Total	11.6	10.7	.9	76.8	
% of Known Sex Adults	52	48			



Table 5. Teeth collected during 1984 spring walrus harvest, Nome, Alaska.

<u>Accession No.</u>	<u>Date</u>	<u>Sex</u>	<u>Hunter</u>
NW-1-84	5/27	F	I. Pushrouk
2	5/28	M	C. Johnson
3	5/28	M	C. Johnson
4	5/28	M	C. Johnson
5	5/28	M	C. Johnson
6	5/28	M	C. Johnson
7	5/28	M	C. Johnson
8	5/28	F	C. Johnson
9	5/28	F	M. Howard
10	5/28	F	M. Howard
11	5/28	F	M. Howard
12	5/29	F	C. Dotamain
13	5/29	M	C. Dotamain
14	5/30	M	F. Olanna
15	5/30	M	J. Benke
16	5/30	M	F. Olanna
17	6/2	F	M. Saclamana
18	6/2	F	M. Saclamana
19	6/2	F	M. Saclamana
20	6/2	M	M. Saclamana
21	6/2	F	M. Saclamana
22	6/2	F	M. Saclamana
23	6/2	M	M. Saclamana
24	6/2	M	M. Saclamana
25	6/2	M	M. Saclamana
26	6/2	M	M. Saclamana
27	6/2	F	M. Saclamana
28	6/2	M	M. Saclamana
29	6/2	M	M. Saclamana
30	6/2	M	M. Saclamana
31	6/2	F	M. Saclamana
32	6/2	M	M. Saclamana
33	6/2	F	M. Saclamana
34		M	L. Milligrock
35	6/3	F	S. Ayek
36	6/3	F	S. Ayek
37	6/3	F	S. Ayek
38	6/3	F	S. Ayek
39	6/3	F	S. Ayek
40	6/3	F	S. Ayek
41	Missing		
42	6/3	F	S. Ayek
43	6/3	F	S. Ayek
44	6/3	F	S. Ayek
45	6/3	F	S. Ayek
46	6/3	F	S. Ayek



SCHLIEBE:mb:8/8/84(2531g)



178 176 174 172 170 168 166 164 162 160 158



NESS / NWS

# SEA SURFACE THERMAL / ICE ANALYSIS . . °C AND 10<sup>th</sup>

DATE: 27 APR 84  
A57

- LEGEND
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  - YNG = YOUNG ICE
  - FL = THIN FIRST YEAR ICE
  - FM = MEDIUM FIRST YEAR ICE
  - FT = THICK FIRST YEAR ICE
  - FY = FIRST YEAR ICE
  - MY = MULTI-YEAR ICE

OPEN  
WATER

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23	-73.4	8	-46.4
22	-71.6	7	-44.6
21	-69.8	6	-42.8
20	-68.0	5	-41.0
19	-66.2	4	-39.2
18	-64.4	3	-37.4
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16	-60.8	1	-33.8
15	-59.0	0	-32.0
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13	-55.4	-2	-28.4

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178 176 174 172 170 168 166 164 162 160 158



NESS / NWS

CLOUDS

8-10 YNG/N

8-10 FM/YNG/N

8-10 FM/YNG/N

7-8 FL/YNG/N

8-10 FM/YNG/N

8-10 FY/YNG/N

7-8 FY/YNG/N

CLOUDS

1

9-10 YNG/N

SEA SURFACE THERMAL / ICE ANALYSIS . . °C AND 10<sup>th</sup>

DATE: 30 APR 84

A 58  
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MODERATE  
TO LOW

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CLOUDS

TEMPERATURE  
CONVERSIONS

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13	-55.4	-2	-28.4

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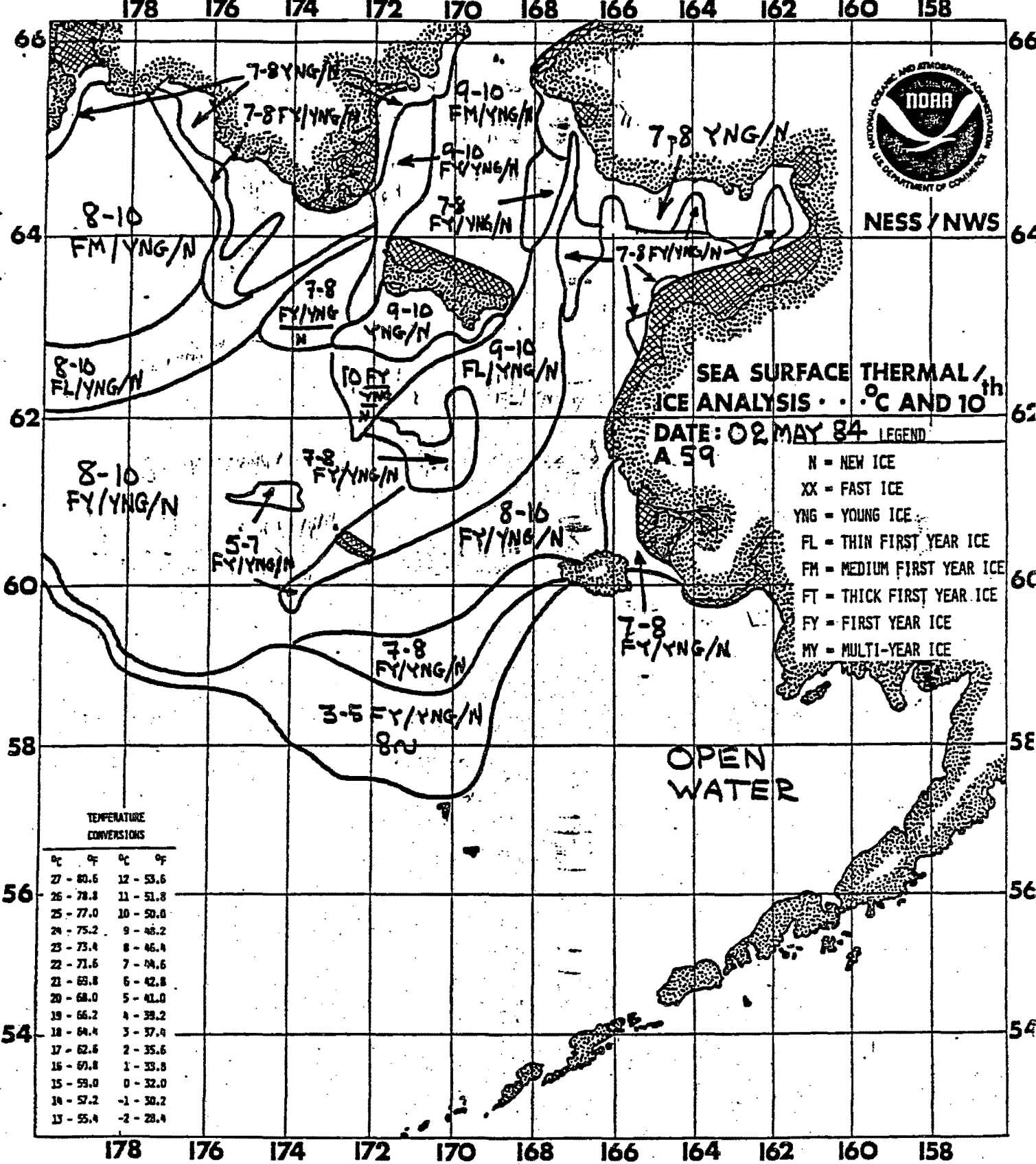
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NESS / NWS

# SEA SURFACE THERMAL / ICE ANALYSIS . . °C AND 10<sup>th</sup>

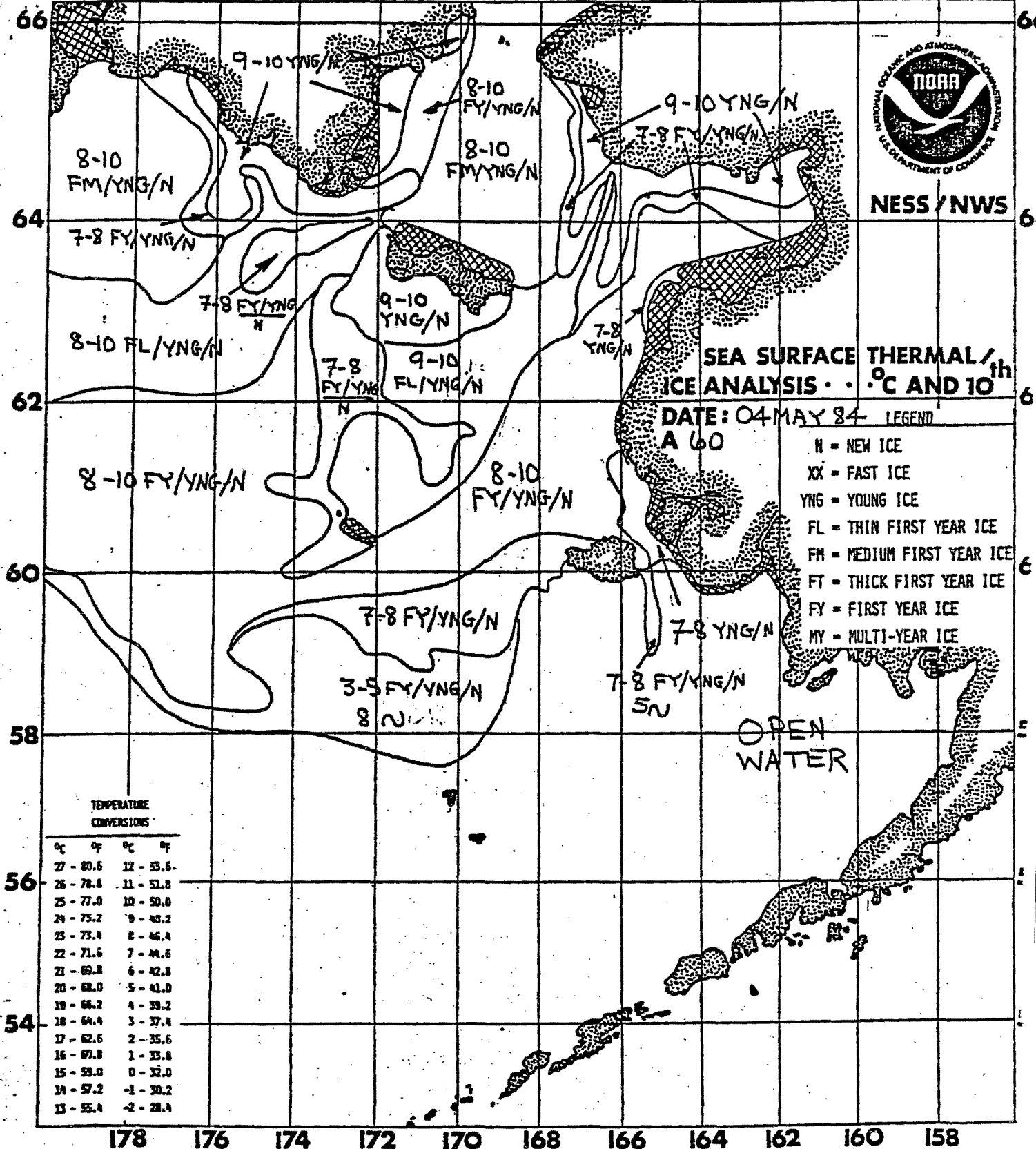
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OPEN  
WATER

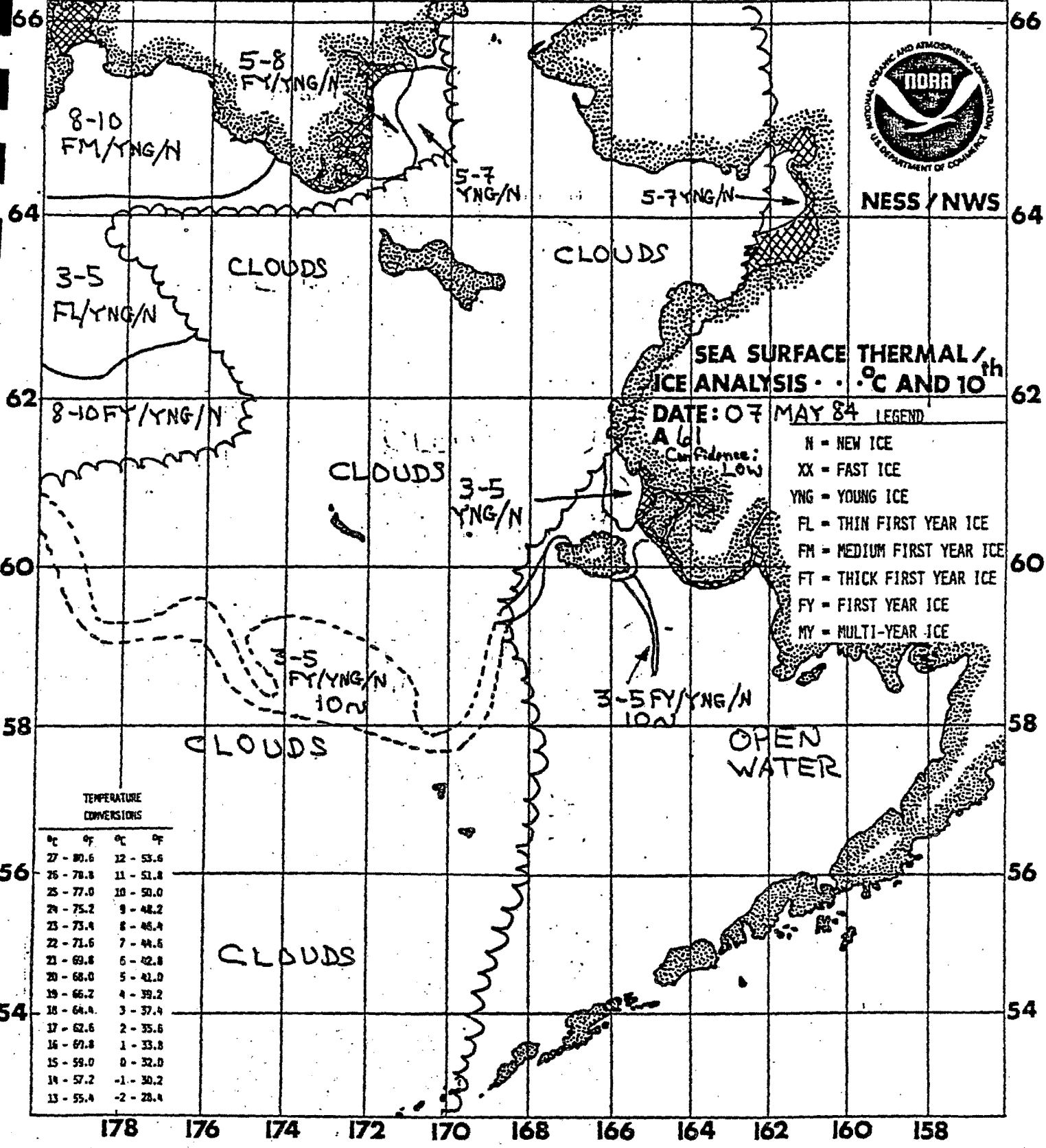
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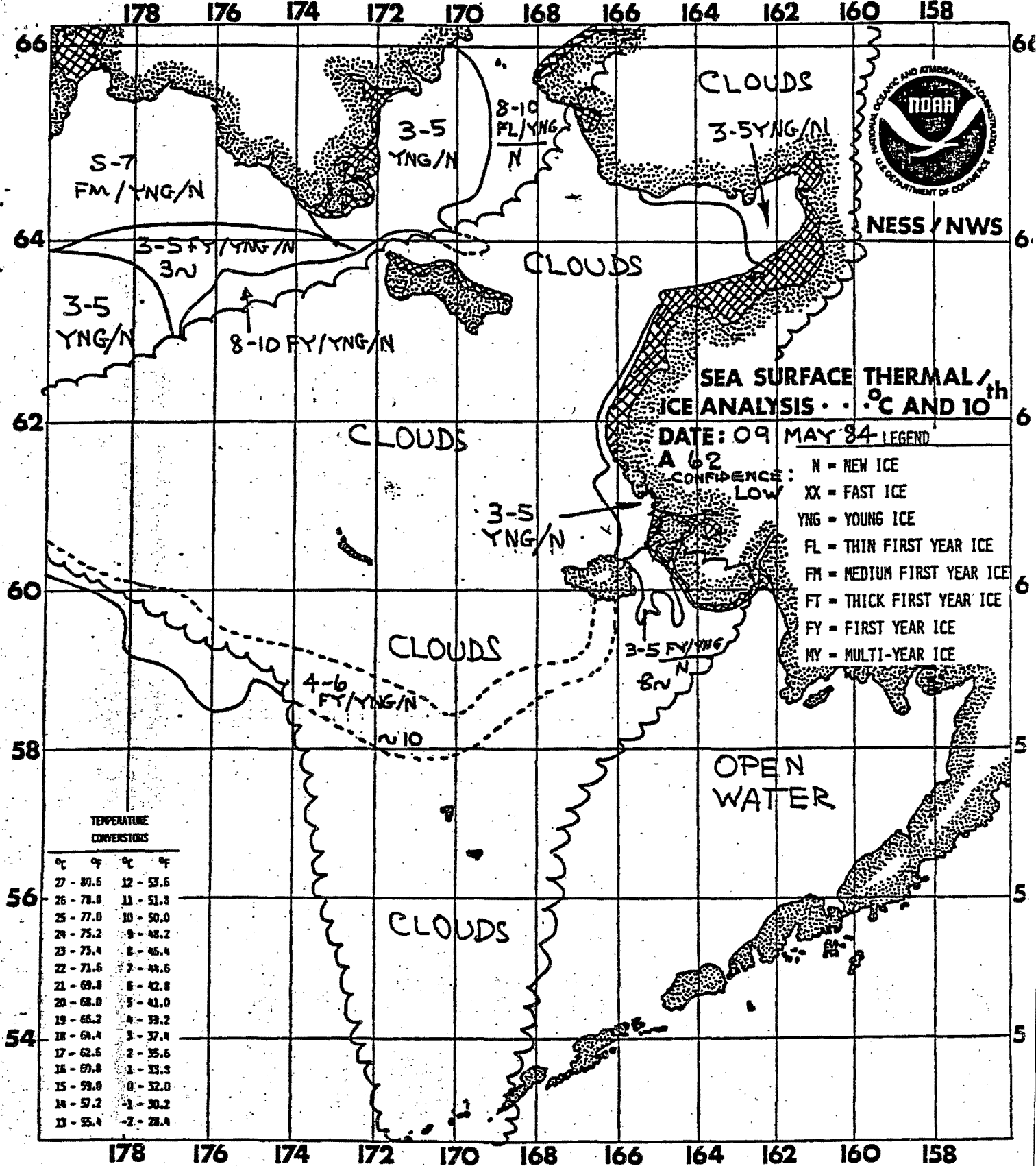


NESS / NWS

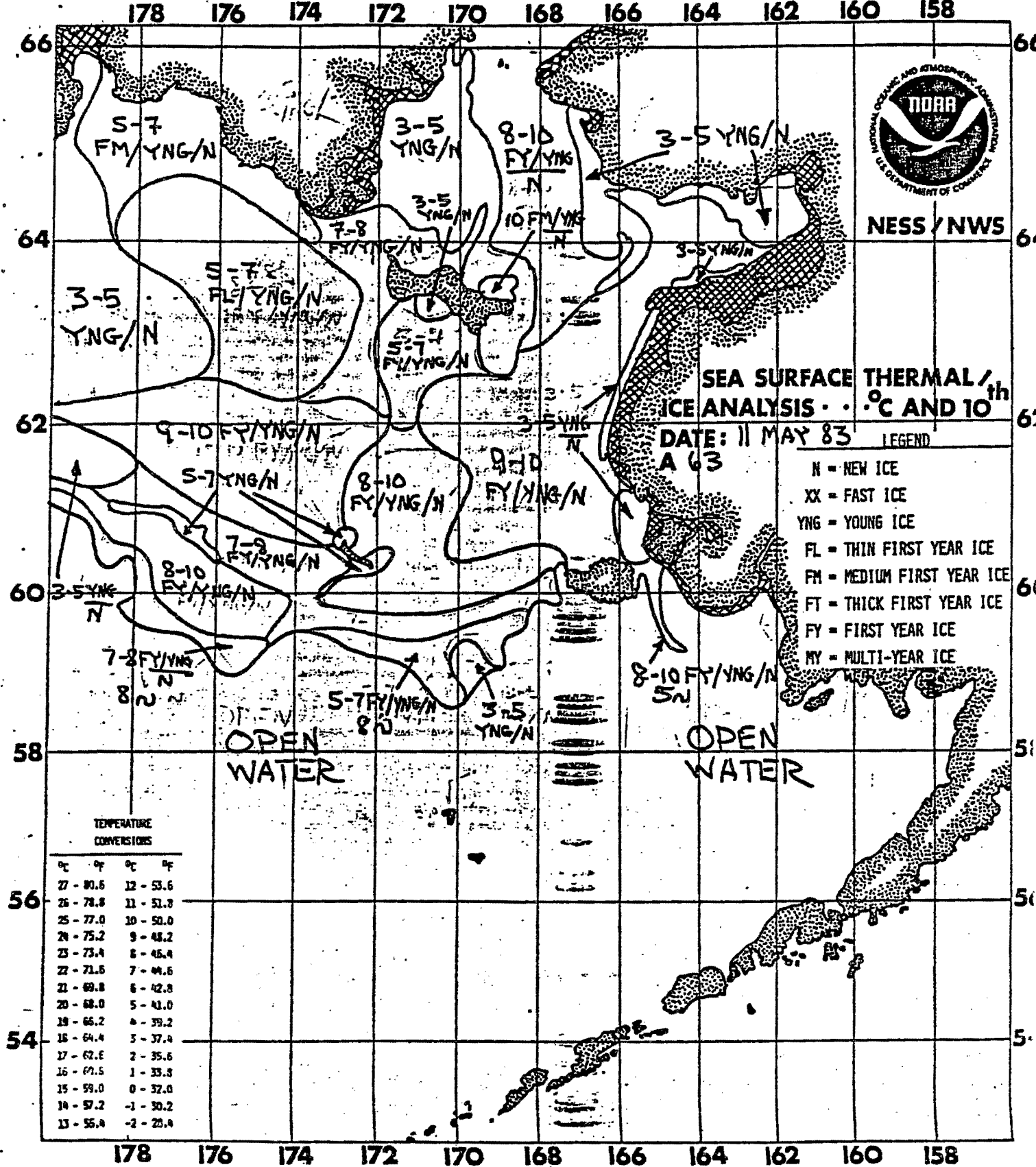
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OPEN WATER

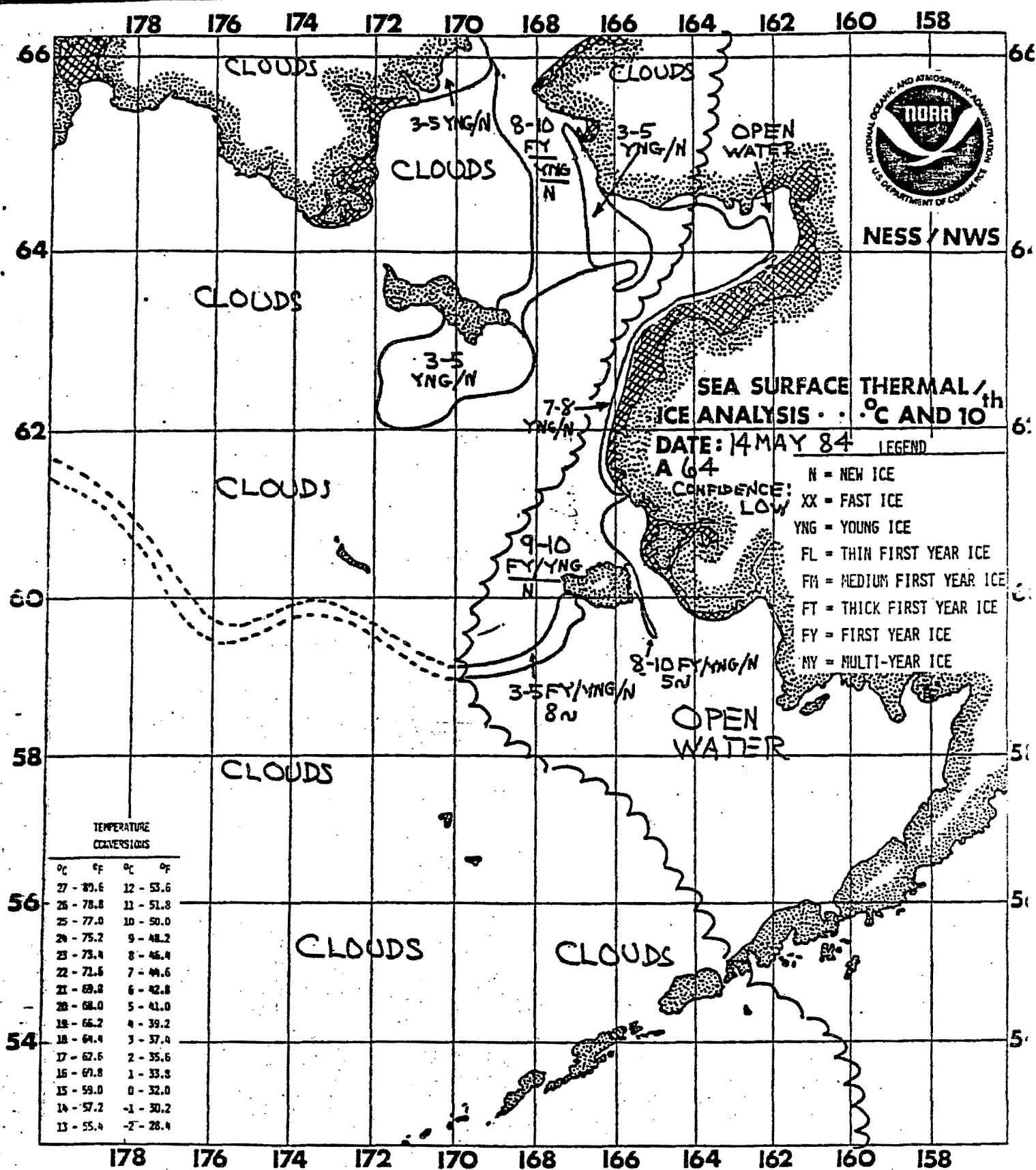






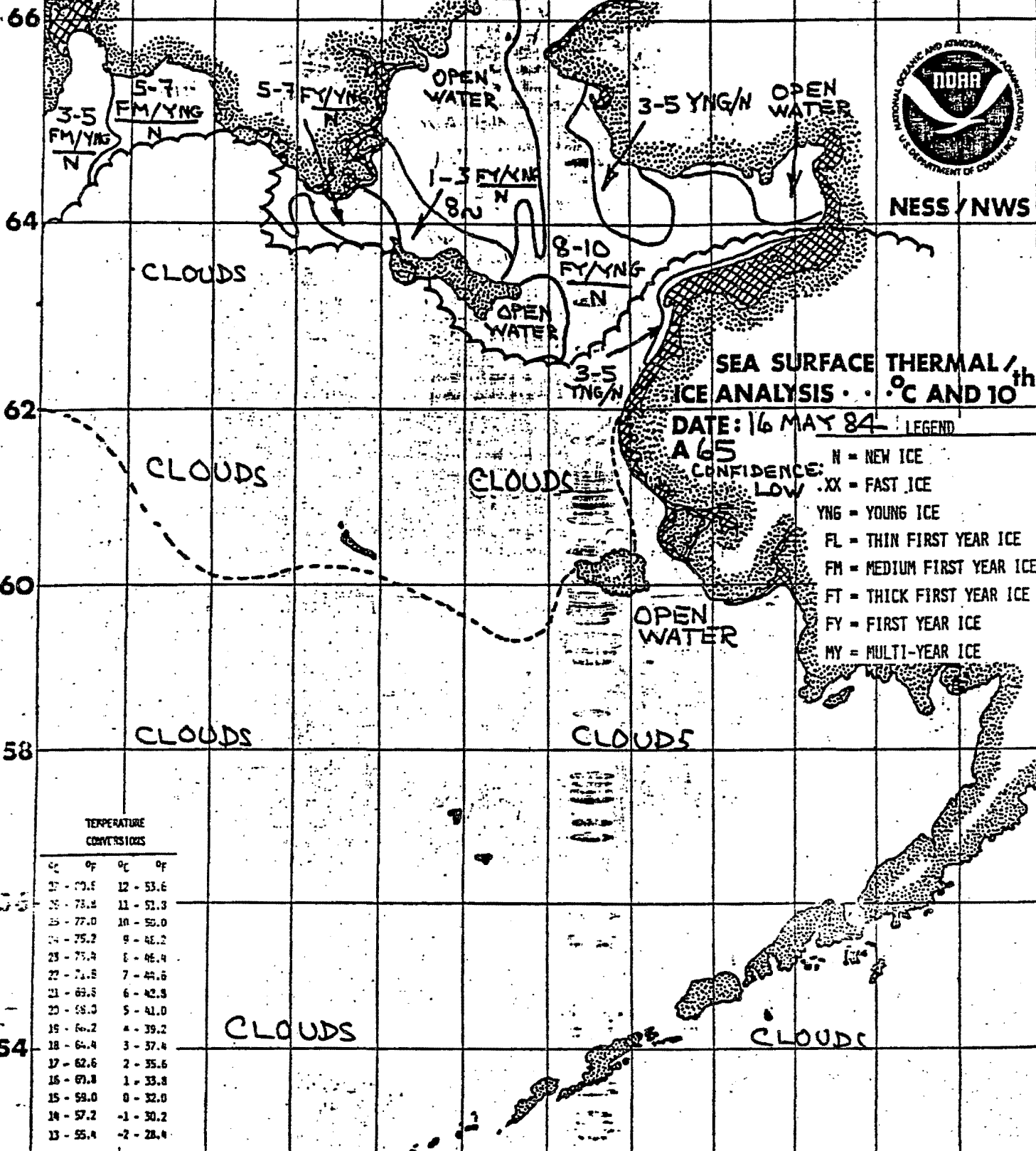








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NESS / NWS





NESS / NWS

# SEA SURFACE THERMAL / ICE ANALYSIS · °C AND 10<sup>th</sup>

DATE: 18 MAY 84

CONFIDENCE:  
MODERATE  
TO HIGH

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  - XX = FAST ICE
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178 176 174 172 170 168 166 164 162 160 158

OPEN WATER

1-3  
FY/YNG

7-8  
FM/YNG

5-7  
FY/YNG

8-10  
FY/YNG

OPEN WATER

OPEN WATER

5-7  
FY/YNG

9-10  
FY/YNG

1-3  
FY/YNG  
10N

8-10  
FY/YNG

7-8  
FY/YNG  
10N

CLOUDS

DATE: 18 MAY 84

CONFIDENCE:  
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TO HIGH

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CLOUDS

7-8  
FY/YNG  
10N

1-3  
FY/YNG  
10N

OPEN WATER

7-8  
FY/YNG  
8N

CLOUDS

CLOUDS





NESS / NWS

# SEA SURFACE THERMAL / ICE ANALYSIS · · °C AND 10<sup>th</sup>

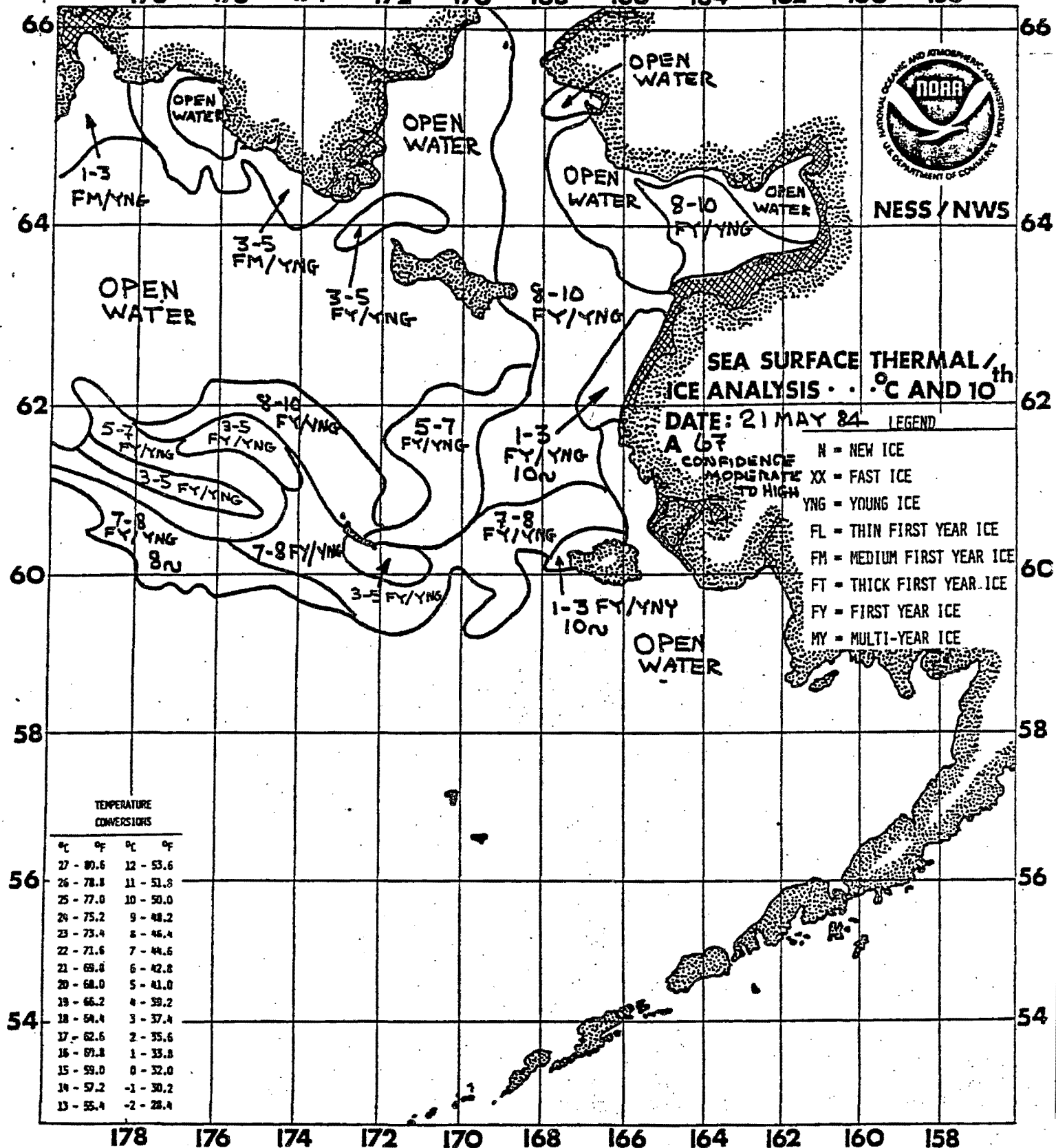
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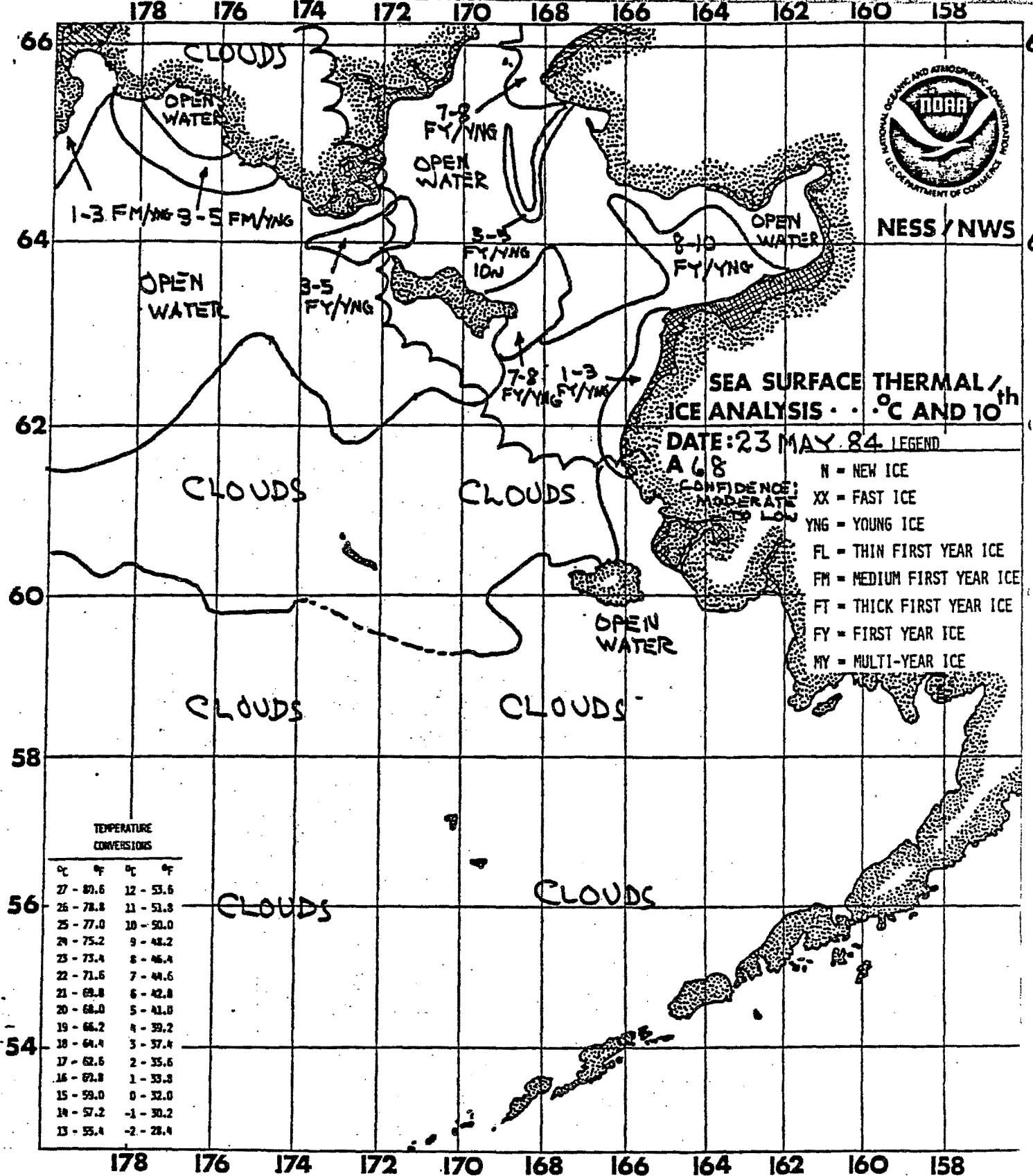
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## TEMPERATURE CONVERSIONS

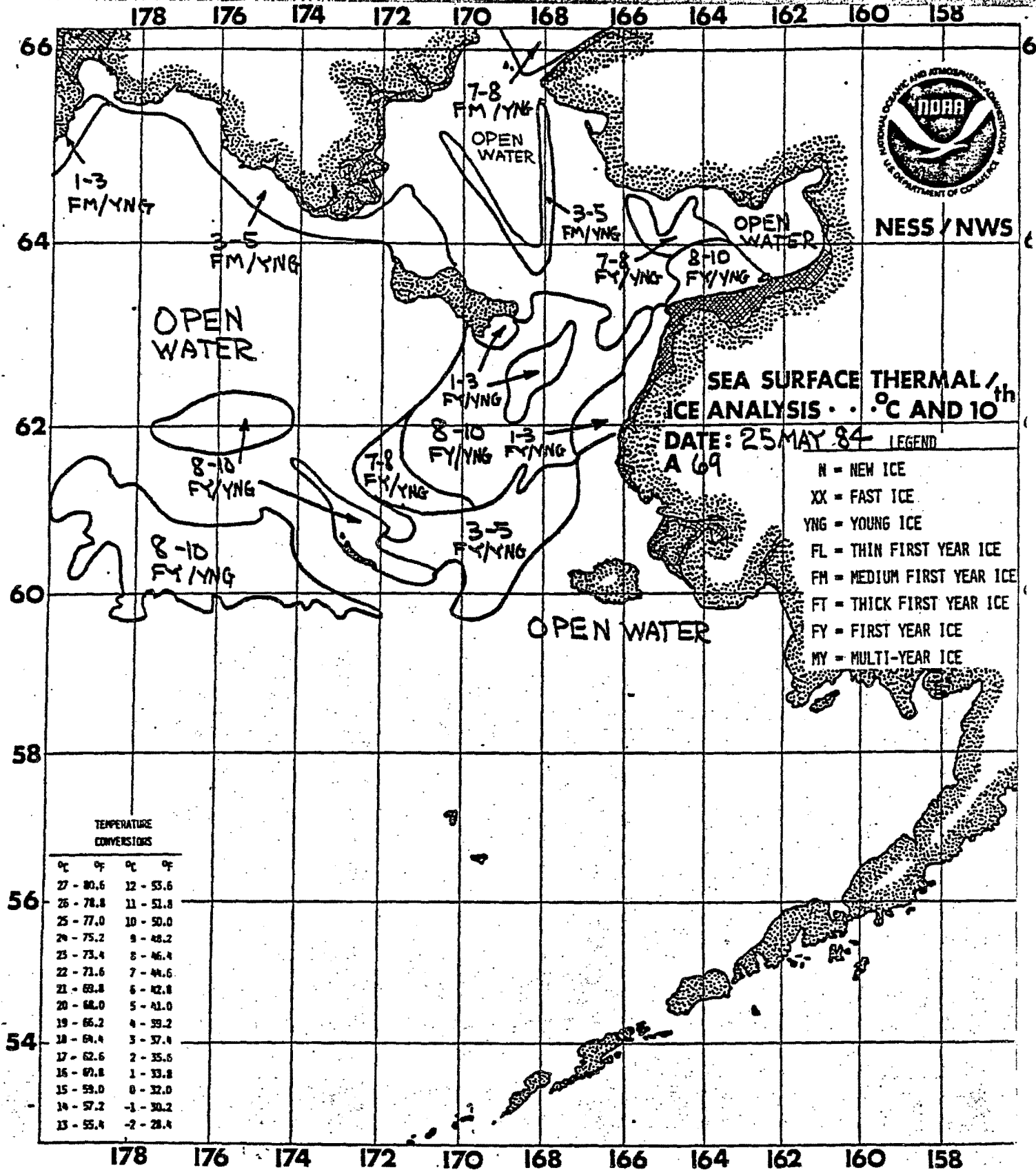
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NESS / NWS





NESS / NWS

# SEA SURFACE THERMAL / ICE ANALYSIS . . °C AND 10<sup>th</sup>

DATE: 28 MAY 84 - LEGEND

A 70  
CONFIDENCE:  
HIGH

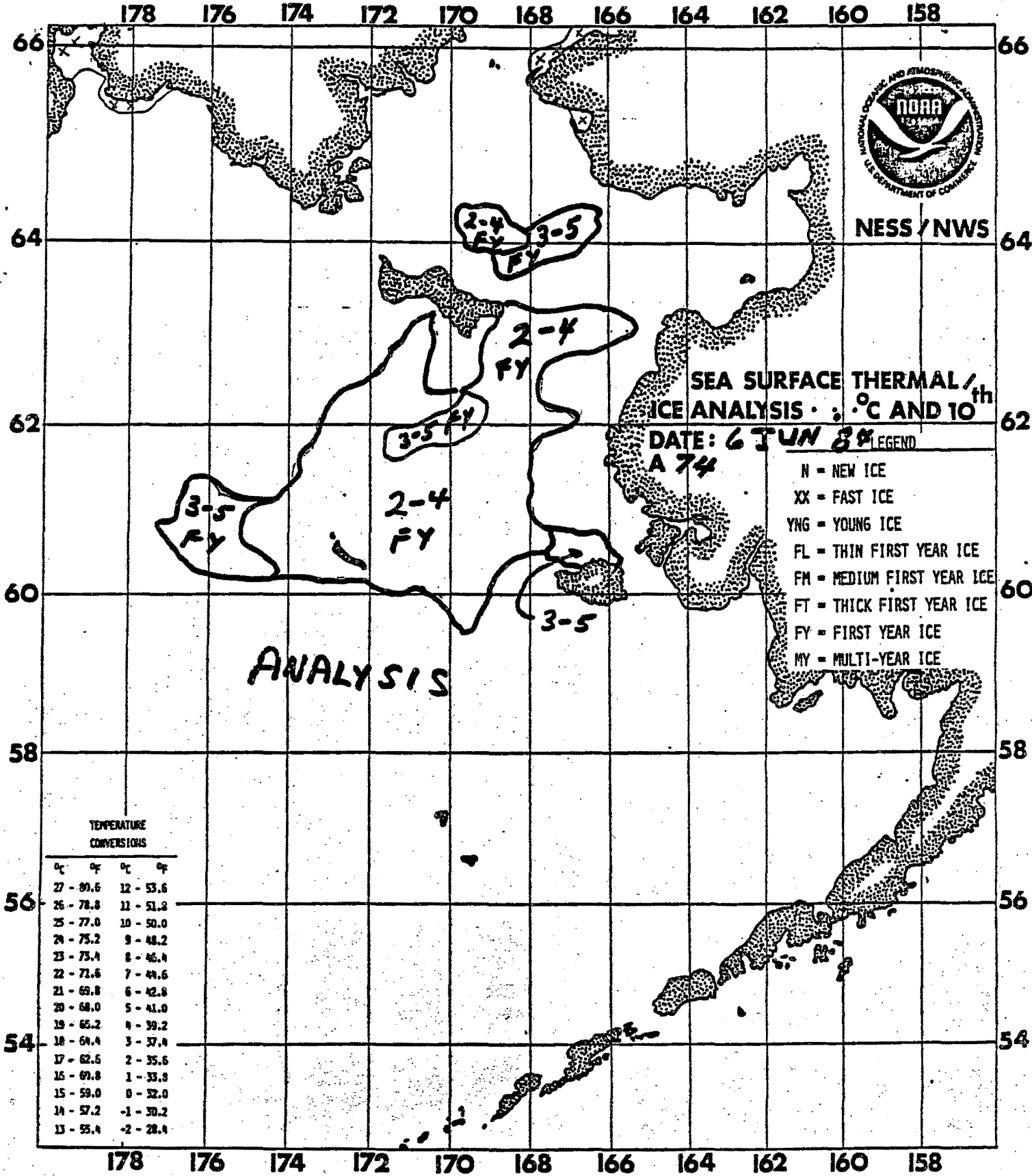
- N = NEW ICE
- XX = FAST ICE
- YNG = YOUNG ICE
- FL = THIN FIRST YEAR ICE
- FM = MEDIUM FIRST YEAR ICE
- FT = THICK FIRST YEAR ICE
- FY = FIRST YEAR ICE
- MY = MULTI-YEAR ICE

## TEMPERATURE CONVERSIONS

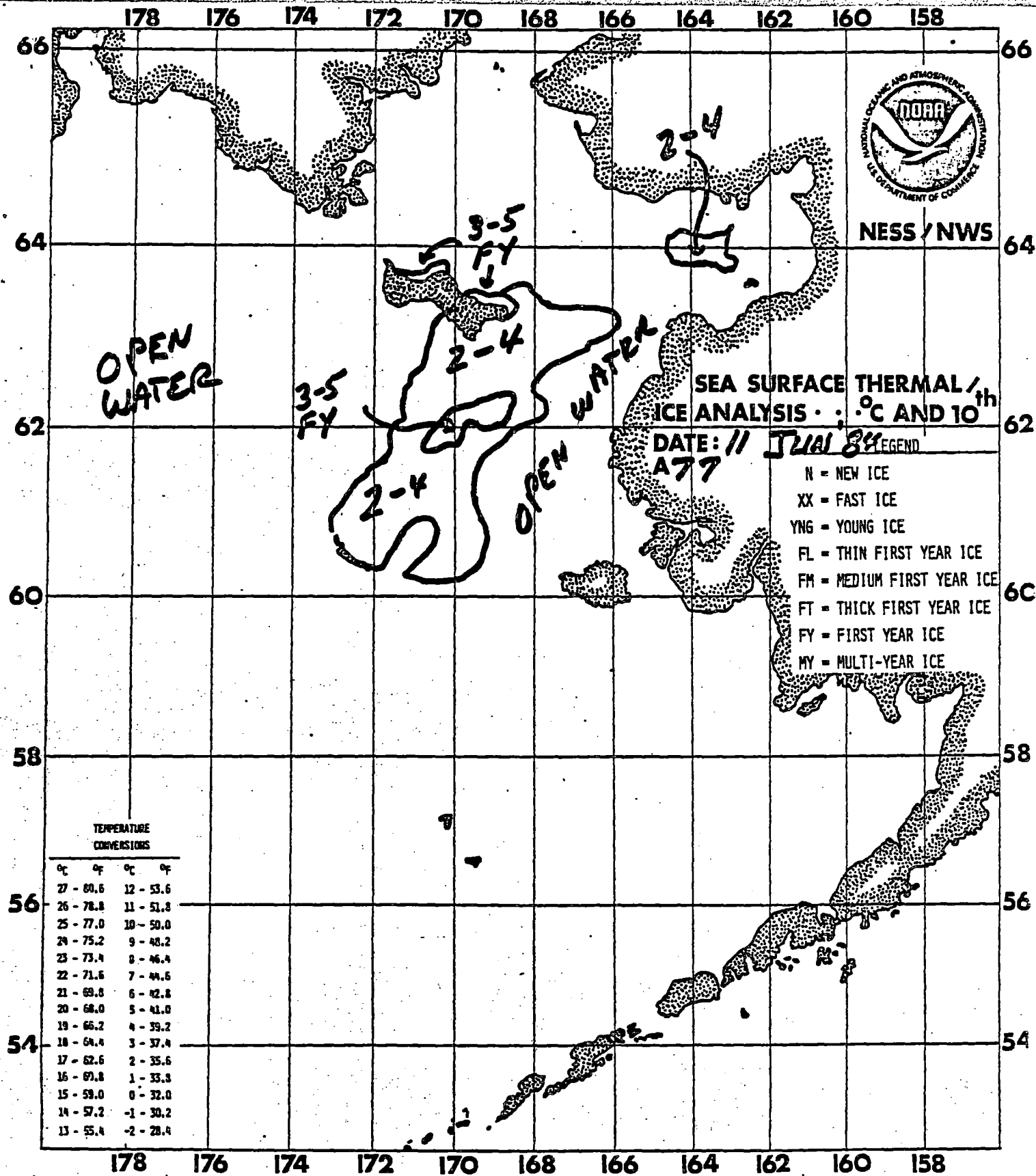
°C	°F	°C	°F
27	- 80.6	12	- 53.6
26	- 78.8	11	- 51.8
25	- 77.0	10	- 50.0
24	- 75.2	9	- 48.2
23	- 73.4	8	- 46.4
22	- 71.6	7	- 44.6
21	- 69.8	6	- 42.8
20	- 68.0	5	- 41.0
19	- 66.2	4	- 39.2
18	- 64.4	3	- 37.4
17	- 62.6	2	- 35.6
16	- 60.8	1	- 33.8
15	- 59.0	0	- 32.0
14	- 57.2	- 1	- 30.2
13	- 55.4	- 2	- 28.4

178 176 174 172 170 168 166 164 162 160 158











APR 1984  
NOME, ALASKA  
NAT'L WEA SER OFC  
BOX 341

ISSN 0198-0408

# LOCAL CLIMATOLOGICAL DATA Monthly Summary



MUNICIPAL AIRPORT

LATITUDE 64°30' LONGITUDE 165°26' ELEVATION (GROUND) 13 FEET TIME ZONE ALASKA 26617

DATE	TEMPERATURE °F					DEGREE DAYS BASE 65°F		WEATHER TYPES		SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES  ELEV. 22 FEET ABOVE N.S.L.	WIND (M.P.H.)			SUNSHINE		SKY COVER (TENTHS)																																																																																																						
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JUL)	COOLING (SEASON BEGINS WITH JAN)	1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	WATER EQUIVALENT (INCHES)		SNOW, ICE PELLETS (INCHES)	RESULTANT DIR.		RESULTANT SPEED	AVERAGE SPEED	FASTEST MILE	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	WINDLIGHT TO MIDNIGHT																																																																																																					
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																																																																																																			
01	36	26	31	20	26	34	0	1	2	0.16	1.6	29.690	01	3.1	5.2	12	06	0	10	10	01																																																																																																				
02	31	18	25	14	21	40	0	1	4	0.00	0.0	29.820	23	0.7	4.0	7	09	156	19	9	02																																																																																																				
03	29	12	21	9	15	44	0	0	4	0.00	0.0	29.980	02	2.4	4.8	12	34	116	14	9	03																																																																																																				
04	31	18	25	13	14	40	0	0	3	0.00	0.0	29.830	03	21.1	22.1	36	03	794	95	1	04																																																																																																				
05	26	18	22	10	6	43	0	0	2	0.00	0.0	29.730	02	24.8	25.3	35	03	745	89	10	05																																																																																																				
06	22	3	13	0	0	52	0	0	2	0.00	0.0	29.785	36	16.3	16.6	30	03	848	100	0	06																																																																																																				
07	4	-12	-4	-17	-18	69	0	0	1	0.00	0.0	29.720	34	10.2	11.1	21	30	773	91	5	07																																																																																																				
08	0	-18*	-9*	-23	-20	74	0	0	1	0.00	0.0	29.680	33	7.5	9.1	24	31	861	100	0	08																																																																																																				
09	5	-14	-5	-19	-12	70	0	0	1	1	1	29.880	36	4.7	6.0	13	29	781	90	1	09																																																																																																				
10	5	-10	-3	-18	-11	68	0	0	1	1	1	29.960	30	6.9	8.2	17	30	699	80	2	10																																																																																																				
11	7	-9	-1	-16	-10	66	0	0	1	0.00	0.0	30.140	31	8.8	9.3	15	30	881	100	0	11																																																																																																				
12	11	-11	0	-16	-6	65	0	1	1	1	1	30.240	31	2.1	5.5	14	28	778	89	1	12																																																																																																				
13	15	-8	4	-12	-5	61	0	0	1	0.00	0.0	30.250	23	0.7	3.9	12	30	895	100	0	13																																																																																																				
14	17	-6	6	-11	-1	59	0	0	1	0.00	0.0	29.985	25	4.5	5.5	14	29	902	100	0	14																																																																																																				
15	18	-3	8	-9	0	57	0	0	1	1	1	29.730	28	5.4	6.9	20	26	819	90	7	15																																																																																																				
16	6	-2	2	-16	-10	63	0	0	1	0.00	0.0	29.800	29	11.1	12.7	20	28	791	86	1	16																																																																																																				
17	8	-9	-1	-19	-6	66	0	0	1	1	1	30.000	25	3.5	5.7	15	28	800	87	7	17																																																																																																				
18	17	-1	8	-11	-1	57	0	1	1	0.04	0.4	29.940	02	11.8	13.0	21	03	485	52	10	18																																																																																																				
19	16	2	9	-10	-3	56	0	0	1	0.00	0.0	30.010	36	3.3	8.0	15	04	859	92	6	19																																																																																																				
20	17	0	9	-11	-5	56	0	0	1	0.00	0.0	29.840	36	7.8	8.5	14	33	685	73	9	20																																																																																																				
21	24	5	15	-6	1	50	0	0	1	0.00	0.0	29.630	33	5.9	9.2	17	33	849	89	9	21																																																																																																				
22	25	12	19	-2	2	46	0	0	1	0.00	0.0	29.880	03	4.6	10.6	23	33	851	89	2	22																																																																																																				
23	21	6	14	-8	5	51	0	0	1	1	1	29.995	30	4.4	7.8	17	29	510	53	4	23																																																																																																				
24	25	5	15	-7	7	50	0	0	1	0.01	0.2	30.205	25	9.0	11.4	18	21	668	69	4	24																																																																																																				
25	26	20	23	0	20	42	0	1	2	0.05	0.9	30.220	20	10.0	12.0	23	22	0	10	10	25																																																																																																				
26	35	16	26	2	11	39	0	0	2	0.00	0.0	30.310	05	12.0	12.3	18	09	894	91	4	26																																																																																																				
27	39*	25	32*	8	20	33	0	0	2	0.12	0.9	29.920	03	11.8	13.0	21	02	297	30	10	27																																																																																																				
28	28	20	24	-1	18	41	0	0	2	0.35	4.0	29.710	02	16.9	17.1	23	02	0	10	10	28																																																																																																				
29	33	20	27	1	19	38	0	0	5	0.04	0.5	29.680	01	5.8	7.7	15	01	312	31	10	29																																																																																																				
30	29	11	20	-7	16	45	0	0	6	0.10	1.0	29.630	36	10.3	10.7	16	36	452	45	7	30																																																																																																				
<table><tr><td>SUM</td><td>SUM</td><td></td><td></td><td></td><td></td><td>TOTAL</td><td>TOTAL</td><td colspan="2">NUMBER OF DAYS</td><td>TOTAL</td><td>TOTAL</td><td colspan="4">FOR THE MONTH:</td><td>TOTAL</td><td>X</td><td>SUM</td><td>SUM</td></tr><tr><td>606</td><td>134</td><td></td><td></td><td></td><td></td><td>1575</td><td>0</td><td colspan="2">PRECIPITATION</td><td>0.87</td><td>9.8</td><td>29.910</td><td>36</td><td>5.6</td><td>10.1</td><td>36</td><td>03</td><td>18501</td><td>7</td><td>158</td><td>143</td></tr><tr><td>AVG</td><td>AVG</td><td>AVG</td><td>DEP</td><td>AVG</td><td>DEP</td><td>DEP</td><td>DEP</td><td colspan="2">&gt; .01 INCH</td><td>0</td><td>0.23</td><td></td><td></td><td></td><td></td><td>DATE: 4</td><td>PRECIPITATION</td><td>MINUTE</td><td>AVG</td><td>AVG</td></tr><tr><td>20.2</td><td>4.5</td><td>12.4</td><td>-5.5</td><td>2.6</td><td>16.2</td><td>0</td><td>0</td><td colspan="2">SNOW, ICE PELLETS &gt; 1.0 INCH</td><td>0</td><td>0.23</td><td></td><td></td><td></td><td></td><td></td><td>27350</td><td>68</td><td>5.3</td><td>4.6</td></tr></table>																						SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	X	SUM	SUM	606	134					1575	0	PRECIPITATION		0.87	9.8	29.910	36	5.6	10.1	36	03	18501	7	158	143	AVG	AVG	AVG	DEP	AVG	DEP	DEP	DEP	> .01 INCH		0	0.23					DATE: 4	PRECIPITATION	MINUTE	AVG	AVG	20.2	4.5	12.4	-5.5	2.6	16.2	0	0	SNOW, ICE PELLETS > 1.0 INCH		0	0.23						27350	68	5.3	4.6																
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	X	SUM	SUM																																																																																																						
606	134					1575	0	PRECIPITATION		0.87	9.8	29.910	36	5.6	10.1	36	03	18501	7	158	143																																																																																																				
AVG	AVG	AVG	DEP	AVG	DEP	DEP	DEP	> .01 INCH		0	0.23					DATE: 4	PRECIPITATION	MINUTE	AVG	AVG																																																																																																					
20.2	4.5	12.4	-5.5	2.6	16.2	0	0	SNOW, ICE PELLETS > 1.0 INCH		0	0.23						27350	68	5.3	4.6																																																																																																					
<table><tr><td colspan="6">NUMBER OF DAYS</td><td>SEASON TO DATE</td><td>TOTAL</td><td>SNOW, ICE PELLETS &gt; 1.0 INCH</td><td>3</td><td colspan="6">GREATEST IN 24 HOURS AND DATES</td><td colspan="6">GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE</td></tr><tr><td colspan="2">MAXIMUM TEMP</td><td colspan="2">MINIMUM TEMP</td><td colspan="2"></td><td>126.43</td><td>0</td><td>THUNDERSTORMS</td><td>0</td><td>PRECIPITATION</td><td>SNOW, ICE PELLETS</td><td colspan="6"></td><td colspan="6"></td></tr><tr><td colspan="2">&gt; 70°</td><td colspan="2">&lt; 32°</td><td colspan="2">&lt; 32°</td><td>&lt; 0°</td><td>DEP</td><td>DEP</td><td>HEAVY FOG</td><td>0</td><td>0.36</td><td>27-28</td><td>4.1</td><td colspan="6">27-28</td><td colspan="6">7</td><td>30</td></tr><tr><td colspan="2">0</td><td colspan="2">26</td><td colspan="2">30</td><td>13</td><td>-232</td><td>0</td><td>CLEAR</td><td>11</td><td>PARTLY CLOUDY</td><td>8</td><td>CLOUDY</td><td>11</td><td colspan="6"></td><td colspan="6"></td></tr></table>																						NUMBER OF DAYS						SEASON TO DATE	TOTAL	SNOW, ICE PELLETS > 1.0 INCH	3	GREATEST IN 24 HOURS AND DATES						GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE						MAXIMUM TEMP		MINIMUM TEMP				126.43	0	THUNDERSTORMS	0	PRECIPITATION	SNOW, ICE PELLETS													> 70°		< 32°		< 32°		< 0°	DEP	DEP	HEAVY FOG	0	0.36	27-28	4.1	27-28						7						30	0		26		30		13	-232	0	CLEAR	11	PARTLY CLOUDY	8	CLOUDY	11												
NUMBER OF DAYS						SEASON TO DATE	TOTAL	SNOW, ICE PELLETS > 1.0 INCH	3	GREATEST IN 24 HOURS AND DATES						GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE																																																																																																									
MAXIMUM TEMP		MINIMUM TEMP				126.43	0	THUNDERSTORMS	0	PRECIPITATION	SNOW, ICE PELLETS																																																																																																														
> 70°		< 32°		< 32°		< 0°	DEP	DEP	HEAVY FOG	0	0.36	27-28	4.1	27-28						7						30																																																																																															
0		26		30		13	-232	0	CLEAR	11	PARTLY CLOUDY	8	CLOUDY	11																																																																																																											

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
† TRACE AMOUNT.  
+ ALSO ON EARLIER DATE(S).  
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.  
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

noaa

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OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

NATIONAL  
ENVIRONMENTAL SATELLITE, DATA  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE NORTH CAROLINA

Kenneth D. Vaden  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER



## OBSERVATIONS AT 3-HOUR INTERVALS

APR 1964  
NONE ALASKA

26617

OBSERVATIONS AT 3-HOUR INTERVALS																			NOME, ALASKA										
HOUR U.S.T.	VISI-BILITY			WEATHER	TEMPERATURE			WIND			VISI-BILITY	WEATHER	TEMPERATURE			WIND													
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)			AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)											
APR 1st																			APR 2nd				APR 3rd						
03	10	29	10	S SF	34	31	26	73	06	10	10	6	7	GF	25	23	20	81	30	4	4	UNL	15	15	14	10	81	01	4
06	10	23	10		31	29	24	75	01	6	10	6	7		25	23	20	81	27	5	7	47	15	13	12	8	80	02	3
09	10	18	35		32	30	25	75	35	5	10	15	4		25	23	20	81	26	4	7	60	35	20	18	14	78	12	4
12	10	6	1		33	31	28	82	02	5	10	19	7		30	28	23	75	00	0	10	60	35	25	23	18	75	00	0
15	10	12	4		35	33	29	79	35	4	10	13	7		29	27	23	78	18	6	9	UNL	35	26	24	19	75	15	5
18	10	15	10	31	30	27	85	25	0	10	40	20	31	29	24	75	05	5	8	UNL	35	28	25	20	72	00	0		
21	10	6	4	29	27	24	82	00	0	2	UNL	35	23	21	17	78	07	5	9	UNL	35	22	20	15	74	03	6		
24	10	6	7	26	24	20	78	24	5	2	UNL	15	18	17	13	81	35	3	1	UNL	15	20	18	13	74	34	10		
APR 4th																			APR 5th				APR 6th						
03	0	UNL	15		20	18	13	74	36	11	0	UNL	10		26	22	14	60	04	27	0	UNL	15	17	13	-3	41	01	16
06	0	UNL	15		20	18	12	71	36	10	1	UNL	35		24	21	12	60	02	25	1	UNL	35	17	13	-1	45	36	15
09	0	UNL	35		24	21	13	63	04	19	10	UNL	35		23	18	5	46	36	23	0	UNL	35	20	16	1	43	36	20
12	0	UNL	35		28	24	15	58	03	19	10	UNL	35		23	18	5	46	02	10	0	UNL	35	20	16	3	47	34	18
15	0	UNL	35		28	25	17	63	04	21	10	200	35		25	20	6	44	01	20	0	UNL	35	21	17	4	48	36	9
18	2	UNL	35	25	22	14	63	04	27	10	UNL	35	23	18	4	44	02	18	0	UNL	35	16	13	2	54	35	12		
21	3	UNL	10	23	20	14	68	04	28	9	UNL	35	19	15	1	45	02	15	0	UNL	35	9	6	-8	45	36	10		
24	0	UNL	10	25	22	13	60	03	25	6	UNL	15	19	14	-2	39	02	24	0	UNL	20	3	1	-12	49	35	3		
APR 7th																			APR 8th				APR 9th						
03	0	UNL	15		0	-2	-18	42	34	8	0	UNL	15		-15	-16	-27	54	34	10	0	UNL	15	-9	-10	-20	58	32	6
06	0	UNL	35		-4	-5	-19	48	36	10	0	UNL	35		-16	-17	-27	56	36	4	4	UNL	15	-13	-14	-22	63	02	3
09	1	UNL	35		-2	-4	-20	41	33	9	0	UNL	35		-13	-14	-25	54	34	4	2	UNL	35	-8	-9	-17	64	00	0
12	4	UNL	35		-2	0	-16	42	36	7	0	UNL	35		-6	-7	-20	50	00	8	0	UNL	35	-2	-3	-14	56	07	5
15	10	UNL	35		-1	-2	-15	51	30	18	0	UNL	35		-2	-3	-16	51	30	6	0	UNL	35	4	2	-8	57	00	0
18	4	UNL	35	-2	-3	-16	51	35	10	0	UNL	35	0	-2	-14	51	31	14	0	UNL	35	5	3	-6	60	34	5		
21	0	UNL	35	-8	-9	-22	49	35	14	0	UNL	35	-3	-4	-16	53	31	13	0	UNL	35	3	1	-8	60	35	6		
24	0	UNL	15	-12	-13	-25	51	35	9	0	UNL	15	-7	-8	-18	58	29	11	7	UNL	7	-1	-2	-9	68	35	7		
APR 10th																			APR 11th				APR 12th						
03	0	UNL	10		-3	-4	-11	68	02	9	0	UNL	15		-7	-8	-17	61	30	8	0	UNL	35	-6	7	-15	64	01	5
06	0	UNL	20		-9	-10	-16	71	35	2	0	UNL	15		-8	-9	-18	61	35	5	0	UNL	35	-9	-10	-16	71	00	0
09	0	UNL	35		-8	-9	-15	71	00	0	0	UNL	35		-5	-6	-14	65	34	7	0	UNL	35	-5	-6	-12	71	00	0
12	7	UNL	35		1	0	-9	62	30	5	1	UNL	35		5	3	-5	63	28	10	0	UNL	35	7	5	-4	60	12	10
15	3	UNL	35		3	1	-11	52	27	5	0	UNL	35		5	3	-10	49	31	10	1	UNL	35	9	7	1	70	15	5
18	0	UNL	35	5	3	-8	54	29	12	0	UNL	35	6	4	-8	52	32	12	2	UNL	20	11	9	1	64	29	7		
21	0	UNL	35	0	-1	-10	62	29	14	0	UNL	35	3	1	-8	60	32	8	0	UNL	35	6	4	-4	63	30	11		
24	0	UNL	15	-5	-6	-15	61	27	10	0	UNL	20	-1	-2	-10	65	00	0	0	UNL	20	1	0	-8	65	30	10		
APR 13th																			APR 14th				APR 15th						
03	0	UNL	20		-4	-5	-11	71	28	5	0	UNL	20		-2	-3	-8	75	34	4	1	UNL	10	-3	-4	-9	75	00	0
06	0	UNL	35		-7	-8	-12	71	31	0	0	UNL	35		-6	-7	-12	75	00	0	4	UNL	15	-2	-3	-9	72	00	0
09	0	UNL	35		-5	-6	-12	71	00	0	0	UNL	35		-2	-3	-8	75	00	0	9	120	10	13	11	-1	83	00	0
12	0	UNL	35		7	5	-3	63	21	3	0	UNL	35		9	7	0	67	21	4	5	UNL	20	13	11	6	73	23	7
15	0	UNL	35		10	8	-1	61	20	3	0	UNL	35		14	12	5	67	25	11	10	40	4	17	16	13	84	26	10
18	0	UNL	35	14	11	0	53	21	4	0	UNL	35	16	14	8	71	25	12	8	UNL	20	16	14	7	68	25	13		
21	0	UNL	35	12	10	2	08	3	3	0	UNL	35	10	9	4	77	27	5	6	UNL	25	12	10	2	64	36	8		
24	0	UNL	20	-1	-2	-6	79	34	5	0	UNL	10	-2	1	-5	72	00	0	0	UNL	15	3	2	-7	63	29	7		
APR 16th																			APR 17th				APR 18th						
03	0	UNL	15		3	1	-13	47	31	8	7	80	15		-3	-4	-12	65	27	6	10	18	7	2	1	-2	83	05	10
06	0	UNL	20		0	-2	-16	46	32	10	3	UNL	20		-6	-7	-15	64	27	5	10	19	2	6	3	0	83	06	13
09	0	UNL	95		0	-2	-14	51	34	12	0	UNL	35		-5	-6	-12	71	00	0	10	14	4	4	5	-2	69	03	12
12	0	UNL	35		5	3	-9	52	29	11	8	UNL	30		1	-1	-10	59	25	8	10	120	20	11	9	2	67	03	14
15	0	UNL	35		6	4	-7	55	29	13	10	70	7		5	4	-3	69	27	8	10	10	35	15	12	1	54	03	16
18	0	UNL	35	6	4	-8	52	27	16	10	12	2	8	6	3	84	23	6	10	UNL	35	15	12	2	56	02	14		
21	8	UNL	35	1	-1	-10	59	29	10	8	UNL	6	6	5	-2	83	25	3	10	UNL	35	12	9	-3	51	35	9		
24	10	UNL	15	-2	-3	-12	62	26	6	10	20	3	1	0	-5	76	36	5	10	UNL	20	6	4	-7	55	31	8		

## WEATHER CODES

\* TORNADO  
T THUNDERSTORM  
Q SQUALL  
R RAIN  
RW RAIN SHOWERS  
ZR FREEZING RAIN  
L DRIZZLE

ZL FREEZING DRIZZLE  
S SNOW  
SW SNOW SHOWERS  
SG SNOW GRAINS  
SP SNOW PELLETS  
IC ICE CRYSTALS  
IP ICE PELLETS

IPW ICE PELLET SHOWERS  
A HAIL  
F FOG  
IF ICE FOG  
GF GROUND FOG  
BD BLOWING DUST

BN BLOWING SAND  
BS BLOWING SNOW  
BY BLOWING SPRAY  
K SMOKE  
H HAZE  
D DUST

CEILING: UNL INDICATES UNLIMITED

WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM

SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).



## OBSERVATIONS AT 3-HOUR INTERVALS

APR 1984

26617

KNOE, ALASKA

OBSERVATIONS AT 3-HOUR INTERVALS																												NONE, ALASKA				
HOUR L.S.T.	SKY COVER (TENTHS)			VISI-BILITY		TEMPERATURE			WIND			SKY COVER (TENTHS)	VISI-BILITY			TEMPERATURE			WIND			SKY COVER (TENTHS)	VISI-BILITY			TEMPERATURE			WIND			
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	TENTHS MILE	WEATHER	AIR OF	WET BULD OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET		WHOLE MILES	TENTHS MILE	WEATHER	AIR OF	WET BULD OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	TENTHS MILE	WEATHER	AIR OF	WET BULD OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
APR 19th																																
03	8	90	15		6	4	-7	55	30	7	0	UNL	15		2	0	-11	54	02	6	0	UNL	15			5	3	-10	49	32	13	
06	6	UNL	25		3	2	-7	63	33	6	2	UNL	25		1	-1	-13	51	04	3	10	33	15			7	5	-5	50	33	3	
09	7	UNL	35		6	4	-6	57	32	6	10	UNL	35		3	1	-10	54	01	4	8	33	20			11	9	-5	55	18	9	
12	8	UNL	35		13	11	1	50	13	7	10	UNL	35		10	7	-5	50	35	7	10	100	20			18	15	-2	55	18	9	
15	9	200	35		15	12	4	62	16	6	9	UNL	35		14	11	1	56	02	12	10	100	20			21	18	9	60	18	5	
18	1	UNL	35		15	12	0	51	07	4	10	UNL	35		14	11	1	56	35	10	10	45	35			23	19	9	55	35	13	
21	0	UNL	35		8	6	-3	60	02	7	10	UNL	35		9	7	-5	53	35	10	6	UNL	35			20	16	3	47	33	9	
24	0	UNL	30		2	0	0	57	34	11	3	UNL	30		8	5	-8	48	01	6	4	UNL	35			16	12	-3	43	35	12	
APR 20th																																
APR 21st																																
APR 22nd																																
03	21	UNL	20		13	10	-5	44	36	9	0	UNL	20		11	9	2	67	00	0	0	UNL	35			9	7	-3	50	29	8	
06	1	UNL	35		14	10	-6	40	33	10	1	UNL	35		13	10	-1	53	09	5	0	UNL	35			6	4	-4	63	36	4	
09	2	UNL	35		17	13	-4	39	36	12	10	UNL	35		11	8	-3	53	00	0	0	UNL	35			9	7	-2	61	29	7	
12	0	UNL	35		20	16	1	43	09	11	4	UNL	35		17	15	10	74	26	10	1	UNL	35			14	12	4	64	29	12	
15	0	UNL	35		20	17	6	54	08	13	5	UNL	30		20	17	10	65	29	10	0	UNL	30			17	15	10	74	25	8	
18	1	UNL	35		22	19	10	60	18	7	0	UNL	35		20	17	9	62	29	13	10	16	2		SN	21	20	16	81	24	10	
21	3	UNL	35		20	17	9	62	11	5	0	UNL	35		17	14	6	62	32	4	10	14	2		SN	23	22	19	85	21	14	
24	0	UNL	20		15	13	6	67	11	4	0	UNL	35		10	8	-1	61	29	11	10	10	2		SN	24	23	20	85	22	15	
APR 23rd																																
APR 24th																																
APR 25th																																
03	10	8	4	S	23	22	19	85	22	17	0	UNL	10		18	16	12	77	05	9	10	UNL	20			27	22	11	51	02	9	
06	10	7	3	S	23	22	19	85	22	12	0	UNL	35		18	16	12	77	05	10	10	80	35			30	25	12	47	04	11	
09	10	8	1	S	21	20	19	92	22	9	0	UNL	35		21	17	6	52	05	12	10	70	35			37	30	16	42	07	12	
12	10	7	1	S	24	23	20	85	20	14	0	UNL	35		28	23	8	43	06	12	10	11	2		0	36	31	21	55	06	8	
15	10	9	2	S	24	23	20	85	21	10	6	UNL	35		31	26	13	47	05	10	10	26	6		0	35	32	26	70	35	10	
18	10	7	3	S	25	24	21	85	20	7	9	UNL	35		33	27	12	42	04	12	10	19	2		0	32	31	29	89	36	9	
21	10	7	4	S	25	24	21	85	10	6	10	UNL	35		30	24	11	45	03	12	10	21	5		0	32	30	27	82	02	18	
24	10	15	7		20	19	15	81	07	5	10	UNL	20		25	21	11	55	05	10	10	21	2		0	26	25	22	85	03	17	
APR 26th																																
APR 27th																																
APR 28th																																
03	10	10	2	4	S	27	25	22	81	02	14	10	26	10		22	19	13	68	01	10	10	20	2		S	27	26	23	85	36	3
06	10	19	2	8	S	26	24	20	78	36	15	10	29	30		23	20	14	68	00	0	10	21	5		S	26	24	20	78	35	11
09	10	26	3	S	26	24	19	75	02	13	10	39	15		25	23	18	75	25	5	10	33	3		S	24	22	19	81	36	10	
12	10	8	0	SBS	23	22	18	81	02	18	8	80	35		20	26	21	75	00	0	10	26	1		S	24	22	19	81	35	11	
15	10	10	1	4	SBS	24	22	18	78	02	17	10	80	35		32	28	20	61	06	8	10	26	10		S	25	22	15	64	36	11
18	10	10	1	4	S	23	22	18	81	36	14	10	10	15		29	26	21	72	04	10	7	23	35		S	23	20	13	65	36	12
21	10	26	10	S	22	20	15	74	04	10	10	15	3		28	26	22	78	36	9	0	UNL	35			16	14	6	65	36	12	
24	10	26	10	S	21	19	13	71	03	12	10	26	10		28	26	23	82	35	10	0	UNL	30			11	9	1	64	36	11	
APR 29th																																
APR 30th																																

## SUMMARY BY HOURS

HOUR L.S.T	AVERAGES								RESULTANT WIND	
	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF					
03	3	29.910	9	8	-1	65	9.8	36	6.6	
06	4	29.910	8	6	-2	65	8.1	36	5.8	
09	5	29.910	10	8	0	64	8.1	36	5.4	
12	5	29.915	16	13	4	62	9.9	36	3.4	
15	6	29.910	18	15	7	63	11.2	35	4.2	
18	5	29.900	18	15	7	64	12.1	34	6.4	
21	5	29.900	14	12	4	64	10.8	36	7.1	
24	4	29.910	10	8	0	65	10.3	35	6.6	



# HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

APR 1984  
NONE, ALASKA

26617

DATE	A.M. HOUR ENDING AT												P.M. HOUR ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
01																									01
02															0.16						T				02
03			T																						03
04																									04
05																									05
06																									06
07																									07
08																									08
09									T						T										09
10			T																						10
11																									11
12																					T				12
13																									13
14									T						T						T				14
15																									15
16																									16
17															T						T				17
18			T						0.03						0.01										18
19																									19
20																									20
21																									21
22																									22
23																					T				23
24																					0.01				24
25			0.02						0.02						0.01						T				25
26			T																						26
27															T						0.10				27
28			0.08						0.01						0.17						0.10				28
29			0.01																		0.01				29
30			0.06						0.03						0.04										30

HOURLY PCPN AMOUNTS ARE 6-HOUR ACCUMULATIONS.

MAXIMUM PCPN DATA NOT RECORDED.

## MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)												
ENDED: DATE												
ENDED: TIME												

THE PRECIPITATION AMOUNTS FOR THE INDICATED TIME INTERVALS MAY OCCUR AT ANY TIME DURING THE MONTH. THE TIME INDICATED IS THE ENDING TIME OF THE INTERVAL. DATE AND TIME ARE NOT ENTERED FOR TRACE AMOUNTS.

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ANCHORAGE AK

99513



MAY 1984  
NOME, ALASKA  
NAT'L WEA SER OFC  
BOX 341

ISSN 0198-0408

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

MUNICIPAL AIRPORT

LATITUDE 64°30'

LONGITUDE 165°26'

ELEVATION (GROUND) 13 FEET

TIME ZONE ALASKA

26617



DATE	TEMPERATURE °F						DEGREE DAYS BASE 65°F		WEATHER TYPES		SNOW ICE PELLETS ON ICE ON GROUND AT 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. 22 FEET ABOVE H.S.L.	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)		
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING ISEASON BEGINS WITH JUL	COOLING ISEASON BEGINS WITH JAN	1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)		RESULTANT DIR.	RESULTANT SPEED		AVERAGE SPEED	FASTEST MILE	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT			
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
01	21	6	14	-13	2	51	0		7	0.00	0.0	29.720	3512.9	13.3	18	34	1016	100	0	0	01		
02	17	2	10	-18	-1	55	0		7	0.00	0.0	29.870	3552.2	7.9	17	32	1024	100	0	0	02		
03	17	-3	7	-22	-1	58	0		6	0.00	0.0	30.010	021.3	4.3	8	01	970	94	3	3	03		
04	17	-4	7*	-22	0	58	0		6	0.00	0.0	30.080	292.1	3.9	8	01	1037	100	0	0	04		
05	20	-4*	8	-22	2	57	0		6	0.00	0.0	30.190	141.7	3.1	7	04	1044	100	3	2	05		
06	29	5	17	-14	15	48	0	1	4	0.12	1.5	30.240	1410.0	13.9	18	18	0	0	10	9	06		
07	33	28	31	0	27	34	0	1	4	0.06	0.7	30.290	239.2	10.3	17	19	0	0	10	10	07		
08	34	30	32	0	27	33	0	1	6	T	T	30.220	2511.0	11.5	16	27	0	0	10	10	08		
09	32	28	30	-3	27	35	0	2	6	T	T	30.100	259.1	9.4	15	28	170	16	10	10	09		
10	33	19	26	-7	19	39	0		5	0.00	0.0	30.160	151.7	6.6	12	33	981	91	2	2	10		
11	31	11	21	-13	18	44	0	1	4	0.01	0.1	30.100	203.0	5.4	12	22	215	21	9	8	11		
12	32	28	30	-4	25	35	0	1	3	T	T	29.990	237.0	7.3	12	25	0	0	10	10	12		
13	36	29	33	-2	24	32	0		3	T	T	30.030	102.6	6.0	12	10	448	41	6	6	13		
14	48	27	38	3	26	27	0		2	0.00	0.0	29.920	0610.3	11.7	18	07	1105	100	1	1	14		
15	48	41	45	9	30	20	0		2	0.00	0.0	29.790	0712.8	13.0	17	09	867	78	5	6	15		
16	51	38	45	9	33	20	0		1	T	0.0	29.760	066.9	9.4	14	08	0	0	10	10	16		
17	50	48	48	13	33	15	0		T	0.00	0.0	29.720	3611.0	11.3	21	03	1125	100	3	3	17		
18	60*	40	50*	13	31	15	0		T	0.00	0.0	29.690	3612.5	12.9	18	01	1133	100	0	0	18		
19	46	34	40	2	29	25	0		T	0.00	0.0	29.640	234.0	5.4	13	25	1139	100	0	0	19		
20	48	31	40	2	31	25	0		T	0.00	0.0	29.580	224.2	5.1	10	26	883	77	5	4	20		
21	43	36	40	1	32	25	0		T	0.0	0.0	29.700	153.7	6.8	17	13	871	76	9	9	21		
22	49	34	42	3	30	23	0		T	0.00	0.0	29.785	293.4	9.2	16	27	584	50	5	5	22		
23	49	34	42	3	22	23	0		T	0.00	0.0	29.770	345.5	10.9	16	04	1165	100	0	0	23		
24	43	27	35	-5	24	30	0		T	0.00	0.0	29.800	268.6	10.0	18	26	1131	97	1	1	24		
25	34	27	31	-9	26	34	0	1	T	0.13	1.3	29.840	2310.8	12.6	21	26	0	0	10	9	25		
26	36	29	33	-7	28	32	0	1	1	0.12	1.2	29.750	235.2	8.7	16	19	401	34	10	10	26		
27	39	25	32	-9	26	33	0	1	1	0.01	T	29.940	124.0	7.1	13	16	120	10	9	8	27		
28	41	30	36	-5	27	29	0		T	0.00	0.0	29.970	2710.0	11.0	21	26	220	18	7	8	28		
29	40	31	36	-5	28	29	0		0	0.00	0.0	30.030	292.7	9.6	16	07	403	36	8	8	29		
30	42	28	35	-7	24	30	0		0	0.00	0.0	30.040	257.5	8.9	20	26	1209	100	0	0	30		
31	45	27	36	-6	24	29	0		0	0.00	0.0	30.010	243.8	6.0	9	24	1215	100	0	0	31		
SUN		SUN				TOTAL		TOTAL				TOTAL		TOTAL		FOR THE MONTH:		TOTAL		SUN		SUN	
1174		754				1043		0		NUMBER OF DAYS		0.45		4.8		29.930		281.5		8.8		21	
AVG.		AVG.		AVG.		DEP.		AVG.		DEP.		PRECIPITATION		DEP.				DATE: 28*		POSTAL		HOURS	
37.9		24.3		31.1		-4.6		22.9		135		0								31728		65	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF		SNOW, ICE PELLETS OR ICE AND DATE									
MAXIMUM TEMP.		MINIMUM TEMP.		13686		0		THUNDERSTORMS		0		PRECIPITATION		SNOW, ICE PELLETS									
5° TOP		2 32°		2 32°		2 0°		DEP.		DEP.		MEATY FOG		1		0.25		25-26		2.5		25-26	
0		9		23		3		-97		0		CLEAR 14		PARTLY CLOUDY 5		CLOUDY 12						02+	

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
† TRACE AMOUNT.  
\* ALSO ON EARLIER DATE(S).  
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.  
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

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Kenneth D. Wadsworth  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER



## OBSERVATIONS AT 3-HOUR INTERVALS

MAY 1984  
NONE - ALASKA

26617

OBSERVATIONS AT 3-HOUR INTERVALS														NONE, ALASKA													
HOUR L.S.T.	VISI- BILITY			WEATHER	TEMPERATURE				WIND		HOUR L.S.T.	VISI- BILITY			WEATHER	TEMPERATURE				WIND							
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR OF	WET BULB OF	DEW POINT OF	REL. HUMIDITY %	DIRECTION	SPEED (KNOTS)		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR OF	WET BULB OF	DEW POINT OF	REL. HUMIDITY %	DIRECTION	SPEED (KNOTS)						
MAY 1st																				MAY 2nd				MAY 3rd			
03	0	UNL	30		11	9	-2	55	01	8	0	0	UNL	30		7	5	-5	58	36	8						
06	0	UNL	30		9	7	-2	61	04	5	0	0	UNL	30		5	3	-5	63	33	10						
09	0	UNL	35		12	10	-2	64	36	12	0	0	UNL	30		9	7	-3	58	36	8						
12	0	UNL	35		16	14	6	65	36	15	0	0	UNL	30		12	10	1	61	27	4						
15	0	UNL	35		19	16	6	57	36	14	0	0	UNL	30		14	11	1	56	14	5						
18	0	UNL	35		18	15	4	54	36	14	0	0	UNL	30		14	12	3	61	15	5						
21	0	UNL	35		12	10	1	61	33	15	0	0	UNL	30		11	9	1	64	35	5						
24	0	UNL	30		7	5	-4	60	31	6	0	0	UNL	30		4	3	-3	72	00	0						
MAY 4th																				MAY 5th				MAY 6th			
03	0	UNL	20		-1	-2	-8	72	36	3	0	0	UNL	20		-3	-4	-9	75	00	0						
06	0	UNL	10		-2	-3	-9	72	00	0	0	0	UNL	35		-1	-2	-10	65	00	0						
09	0	UNL	20		8	7	0	70	01	4	0	0	UNL	35		9	7	1	70	00	0						
12	0	UNL	35		14	11	1	56	27	4	0	0	UNL	35		16	14	9	74	18	4						
15	0	UNL	35		15	13	7	70	20	6	0	0	UNL	35		19	17	0	68	20	5						
18	1	UNL	35		17	14	6	62	27	6	0	0	UNL	35		19	15	0	61	17	6						
21	0	UNL	35		14	12	6	70	30	5	0	0	UNL	35		19	16	9	65	08	5						
24	0	UNL	35		4	2	-6	63	36	3	0	0	UNL	20		8	6	-1	66	01	3						
MAY 7th																				MAY 8th				MAY 9th			
03	10	6	2	SF	29	28	26	89	20	11	10	26	7	1	SF	30	29	26	85	24	6						
06	10	6	2	SF	30	29	26	85	19	9	10	7	3	1	SF	30	29	26	85	24	10						
09	10	8	3	F	30	29	28	92	22	10	10	29	5	1	F	31	30	27	85	24	10						
12	10	6	2	SF	31	30	28	89	26	8	10	11	4	1	SF	32	31	28	85	25	12						
15	10	5	3	SF	32	31	29	89	26	9	10	10	4	1	SF	32	31	28	85	27	13						
18	10	4	7	SF	32	31	29	89	26	8	10	13	7	1	SF	33	31	28	82	25	7						
21	10	26	7		32	30	27	82	25	7	10	19	2	8	SF	32	31	29	89	23	11						
24	10	26	7		30	29	26	85	27	7	10	5	1	8	SF	30	29	27	89	27	7						
MAY 10th																				MAY 11th				MAY 12th			
03	3	UNL	10		25	24	21	85	36	5	0	UNL	20		13	12	8	80	02	3							
06	0	UNL	35		21	20	16	81	28	4	7	33	30		14	12	7	74	00	0							
09	0	UNL	35		25	22	14	63	33	4	10	13	30		20	18	13	74	00	0							
12	0	UNL	35		28	26	22	78	24	3	10	9	7	S	25	23	20	81	13	6							
15	0	UNL	35		29	26	21	72	15	7	10	13	7		29	27	23	78	21	10							
18	0	UNL	35		29	27	22	75	18	6	10	7	4	F	30	28	25	82	22	6							
21	0	UNL	35		27	25	22	81	13	5	10	6	3	F	30	29	27	89	22	10							
24	0	UNL	30		21	19	14	74	09	6	10	8	5	SF	29	28	26	89	24	7							
MAY 13th																				MAY 14th				MAY 15th			
03	10	13	10	S	29	27	23	78	27	3	1	UNL	35		27	24	16	63	36	4							
06	10	12	15		29	27	23	78	19	3	0	UNL	35		35	29	19	50	36	3							
09	10	11	15		29	27	22	75	05	4	0	UNL	35		44	37	25	47	08	10							
12	10	11	15		30	28	23	75	09	6	1	UNL	35		44	37	27	51	08	11							
15	6	13	20		32	30	25	75	10	10	1	UNL	35		46	39	30	54	07	12							
18	0	UNL	35		33	30	26	76	09	7	1	UNL	35		47	40	31	54	07	14							
21	0	UNL	35		32	30	25	75	24	3	4	UNL	35		45	39	31	58	06	12							
24	1	UNL	35		30	26	19	64	33	7	4	UNL	35		44	38	29	56	06	15							
MAY 16th																				MAY 17th				MAY 18th			
03	10	40	35		39	36	31	73	26	5	0	UNL	35		41	37	30	65	35	10							
06	10	45	35		38	35	31	76	27	3	0	UNL	35		43	38	30	60	36	8							
09	10	47	35		44	39	32	63	08	6	3	UNL	35		49	42	33	54	01	9							
12	10	47	35		42	38	33	71	09	10	4	UNL	35		54	45	34	47	34	7							
15	10	80	35		46	41	35	66	10	10	5	UNL	35		55	46	36	49	34	10							
18	10	33	35		48	42	35	61	08	10	5	UNL	35		58	47	35	42	36	12							
21	10	35	35		45	41	35	68	05	10	0	UNL	35		53	44	32	45	36	10							
24	9	40	35		43	38	32	65	35	7	0	UNL	35		47	40	30	52	36	14							



## OBSERVATIONS AT 3-HOUR INTERVALS

MAY 1984  
NOME, ALASKA

26617

MAY 19th													MAY 20th													MAY 21st																																																																								
03	0	UNL	35			36	32	26	67	00	0	0	0	UNL	35			33	31	27	79	24	3	9	65	30			38	36	33	82	24	4																																																																
06	0	UNL	35			34	31	26	73	26	4	4	0	0	UNL	35			34	31	27	76	00	0	9	65	35			36	34	32	85	20	5																																																															
09	0	UNL	35			42	36	28	58	26	4	4	0	0	0	0	0	37	34	30	76	21	4	10	80	35			42	39	34	73	10	7																																																																
12	0	UNL	35			43	37	29	58	24	0	0	0	0	0	0	4	46	41	34	63	26	7	10	130	35			41	38	33	73	13	15																																																																
15	1	UNL	35			43	38	30	60	24	0	0	0	0	0	0	1	42	38	33	71	21	6	9	130	35			37	35	31	79	13	8																																																																
18	0	UNL	35			45	39	30	56	25	11	5	5	UNL	35			43	39	34	71	26	9	8	45	35			40	37	32	73	29	4																																																																
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24	0	UNL	35			36	34	30	79	14	3	3	10	70	35			40	37	33	76	13	4	9	50	35			36	34	30	79	27	4																																																																
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12	8	UNL	35			37	35	31	79	24	7	0	0	0	UNL	35			41	35	24	51	24	11	0	UNL	35			39	34	26	60	23	8																																																															
15	1	UNL	35			43	40	37	89	26	13	0	0	0	UNL	35			44	35	21	40	25	12	0	UNL	35			41	35	25	53	24	11																																																															
18	2	UNL	35			45	39	31	58	26	10	1	0	UNL	35			46	37	21	37	26	11	0	UNL	35			40	35	27	60	26	14																																																																
21	2	UNL	35			44	38	29	56	04	13	0	0	UNL	35			46	38	25	44	05	10	3	UNL	35			36	32	26	67	26	13																																																																
24	0	UNL	35			38	33	23	55	35	7	0	0	UNL	35			36	31	23	59	02	8	5	UNL	35			30	28	23	75	25	13																																																																
MAY 25th																																	MAY 26th																																	MAY 27th																																
03	6	UNL	20			27	25	22	81	27	15	10	8	2	SF	30			30	29	28	92	26	6	4	UNL	30			25	23	19	78	36	4																																																															
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15	10	7	1	12	SF	33	32	29	85	20	11	10	5	1	SF	33			33	32	30	89	20	12	6	26	35			37	34	28	70	16	11																																																															
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MAY 28th																																	MAY 29th																																	MAY 30th																																
03	10	29	20			31	30	27	85	29	4	10	33	30				32	30	25	75	27	9	0	UNL	35			28	25	20	72	00	0																																																																
06	9	39	20			31	30	27	85	03	4	10	33	35				32	30	25	75	28	10	0	UNL	35			30	27	22	72	00	0																																																																
09	10	20	30			33	32	29	85	25	7	10	30	25				36	33	27	70	04	11	0	UNL	35			35	32	28	76	16	6																																																																
12	10	26	10			35	33	30	82	24	10	10	19	15				38	35	30	73	05	11	0	UNL	35			36	32	25	64	23	9																																																																
15	8	35	15			35	34	27	62	26	17	8	21	25				37	34	30	76	15	10	0	UNL	35			40	33	22	49	25	13																																																																
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24	7	160	35			33	30	24	70	27	9	0	UNL	35				37	33	25	62	00	0	0	UNL	35			34	30	21	59	31	7																																																																
MAY 31st																																																																																																		
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12	0	UNL	35			42	36	25	51	19	8																																																																																							
15	0	UNL	35			42	36	27	55	20	7																																																																																							
18	0	UNL	35			43	36	24	47	22	7																																																																																							
21	0	UNL	35			43	35	22	43	27	6																																																																																							
24	0	UNL	35			36	32	25	64	34	4																																																																																							



# HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

MAY 1984  
NONE, ALASKA

26617

DATE	A.M. HOUR ENDING AT												P.M. HOUR ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
01																									01
02																									02
03																									03
04																									04
05																									05
06									0.01						T						0.06				06
07			0.08						0.03						T						T				07
08									T						T						T				08
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26			0.11						0.02						0.06						T				26
27			T																		0.01				27
28																									28
29																									29
30																									30
31																									31

HOURLY PCPN AMOUNTS ARE 6-HOUR ACCUMULATIONS.

MAXIMUM PCPN DATA NOT RECORDED.

## MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)												
ENDED: DATE												
ENDED: TIME												

THE PRECIPITATION AMOUNTS FOR THE INDICATED TIME INTERVALS MAY OCCUR AT ANY TIME DURING THE MONTH. THE TIME INDICATED IS THE ENDING TIME OF THE INTERVAL. DATE AND TIME ARE NOT ENTERED FOR TRACE AMOUNTS.

SUBSCRIPTION PRICE AND ORDERING INFORMATION AVAILABLE FROM:  
THE NATIONAL CLIMATIC DATA CENTER, FEDERAL BUILDING  
ASHEVILLE, NORTH CAROLINA 28801  
ATTN: PUBLICATIONS

NONE, ALASKA  
USCONH - NOAA - ASHEVILLE, NC 185

U.S. DEPARTMENT OF COMMERCE  
NATIONAL CLIMATIC DATA CENTER  
FEDERAL BUILDING  
ASHEVILLE, N.C. 28801

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COM 210



**FIRST CLASS**

LCD-50-26617-WS

NATIONAL WEATHER SERVICE FORECAST OFFICE  
US FEDERAL BLDG. & COURT HOUSE  
701 C ST, 30X 23  
ANCHORAGE AK

99513



July 4, 1984

Dear Scott,

I will mail my <sup>July notes by</sup> all July notes if I am still in Nome. Sylvester Ayek and Francis Alvanna's boats are on the Island.

Paul Tiulanna is in Washington D.C., I don't know why, maybe to fool the people about our way of life on the Island again. He will be back by 6 July to go to King Island. Al Pikonganna will also go to the Island.

So, we will be ready for the game from Bristol Bay. They have no right to stay on the rocks on our Island, it was our home at one time. They can go to Chukotsk Peninsula or St. Matthew Island.

I will be glad to see you again.

Sincerely, *Edward S. Muktooyuk*

Edward S. Muktooyuk

*P.S. Mike put skins on his boat  
he will go to King Island*



JUNE 1984

- June 1- Hunt with Mike in his boat about 10 miles east of King Island. There was 19 walrus, about 5 of them were females and 14 males. We lost 4 females. We went back to Woolley, arrived at 8:00 p.m.
- June 2- Went hunting with Mike about 9:00 a.m. Variable winds at 5, check the ice 5 miles east of King Island, then go back to the Island to look out to see no walrus on the ice. Two boats from Brevig Mission were hunting south of King Island then went back to Brevig. Wilfred Anowlic went to the Island and hunt south of the Island, there was only one dead male walrus, one young oogruk, and one ringed seal. Justin Tuilanna and John Pullock went hunting east and south of the Island then came to King Island with no walrus. Al Pikonganna's boat also came to the Island. Five King Islander's boats came to the Island then went back to Woolley. Arrived at 7:10 p.m., then went to Nome and arrived at 11:50 p.m.
- June 3- In Nome and went back to Woolley. Sylvester Ayek arrived at Woolley about midnight then went back to Nome. John and Justin went hunting west of King Island. They got *about* 9 walrus, sex unknown.
- June 4- Went hunting with Mike and Al Pikonganna, we saw 2 female walrus with a calf in the water east of the Island. Went to the Island to look out for walrus but did not see any so we went back to Woolley. Northeast winds increasing. arrive at Woolley about 11:00 p.m. Al Pikonganna's boat remain at King Island, we all got wet.
- June 5- At Woolley, partly cloudy, North wind at 25.
- June 6- Clear, N.W. winds at 20, temp. 32°F. at 5:00 a.m.
- June 7- Clear, N.W. winds at 15. Vincent Pikonganna been call on the C.B. from King Island that they ran out of food.
- June 8- Partly cloudy, west winds at 8 and decreasing, becoming SE at 30 and decreasing and funny weather. Al Pikonganna's boat came back to Woolley by the afternoon. There was no walrus. Justin and John's boat hunt near Sledge Is., they got 2 male walrus but lost one and went back to Woolley Wilfred Anowlic came by during the evening then went to King Island. We saw 3 whales heading north 5 miles west of our camp.
- June 9- Clear, variable wind at 5. John and Justin went out about 10:00 a.m., they were hunting north of Wales. They got 3 walrus, one was a calf, sex unknown.



- June 10- Cloudy, variable winds at 5. Went out with Mike at 12:15 p.m. Hunt east and south of King Island. See about 50 females with calves in the water east of the Island. No walrus on the ice. A plane flew toward King Island then went west of the Island, it looks like a white and brown C 185 with floats, we saw it about 3:00 p.m. We went to the Island to glass out (look through binoculars). Wilfred got ready to go back to Woolley. John and Justin were the ones who went out ahead of us an hour earlier to go back to Woolley. Mike and I climbed to the top of the Island. Wilfred reported that a Teller boat was going out to the Island. We went back to Woolley and saw 15 walrus in the water east of the Island. The walrus did not stay on the ice, something was wrong. We arrived at Woolley about midnight. At Woolley the wind was becoming SE at 15. All the hunters did not like the planes flying in our waters.
- June 11- Cloudy, winds SE at 35. Go to Nome arrive at 6:20 p.m.
- June 12- In Nome winds S at 20, fog, drizzle and some rain. Back to Woolley, arrived at 4:45 p.m.
- June 13- Winds S. at 30, fog, drizzle and rain.
- June 14- Winds SW at 15, fog and drizzle.
- June 15- The weather is the same as yesterday. Went to Nome and back to Woolley. Winds becoming NW and decreasing. John came with two boat loads. Wilfred also came, there is lots of people at our camp.
- June 16- Cloudy, NW winds at 15 and decreasing by the evening.
- June 17- Clear, winds N. at 10. Went to the Island with Mike. We saw only one walrus on the water going north about half way to the Island, we stayed at the Island all day. We saw lots of whalers SW to NW of King Island. About 15-20 miles Justin, John's two boats, Al Pikonganna and Sylvester Ayek boats also go to King Island. We went back to Woolley, the other boats stayed at the Island.
- June 18- Clear, variable winds at 10. Sylvester Ayek came back to Woolley.
- June 19- Clear, variable winds at 5 becoming SE at 25 with fog. Went to Nome.
- June 20- In Nome, partly cloudy. Go to Woolley, arrived at 5 p.m. Wilfred and Tiulanna arrived from King Island. John and Al Pikonganna were on the way they arrived about 8:00 p.m. Two boats remain at King Island.
- June 21- Clear in the morning but becoming cloudy and rainy, SE winds at 10. King Island call on the C.B. that a rock rolled down and hit my Aunt Patunac house and rolled all the way down. Luckily Wilfred and his crew, who was staying in the house were at Woolley at the time. All their belongings



June 21 cont.- were scattered all over.

June 22- Cloudy and fog, winds SE at 10. Sylvester Ayek came from Nome and was heading towards Cape Douglas to wait for the weather. He was overloaded.

June 23- Cloudy, some rain, variable winds at 5. Went to King Island with my brother Gabe's boat. We saw one dead walrus in the water with a tusk, we just pass by it. Mike, John, and Wilfred went to King Island. We heard on the radio that the ice is 10 miles SE of the Island. When we arrived the ice was 15<sup>0</sup> miles out. Mike and I went back to Woolley, we see only two seals on the way to Cape Douglas. Sylvester Ayek's tent is set up by Cape Douglas.

June 24- Cloudy, NW winds at 10. S. Ayek came to Woolley from C. Douglas.

June 25- Partly cloudy, NW winds at 10, go to Nome.

June 26- In Nome. Put new shock on my truck. Pick up Bellarmine Seeganna who help me with welding and cutting tools. S. Ayek came to Nome with his boat. Simon Angusuc told me that he was at Golovin yesterday. Hunters been hunt walrus on the ice out of Golovin.

June 27- In Nome. Clear, N. wind at 15. Waiting for pay check from Exxon, I guess they don't have any money. Our food run fast at the camp. They start to see moose, they fool around at our camp each summer, we may have to eat them because we have no meat. Go to Woolley and arrived at 5:30.

June 28- Clear, NW winds at 25. Go to Nome to get a drum of gas. On the way back I got a flat tire, I was alone, 273 mosquitoes helping me in 70° weather. The jack slip off after I took the wheel off, it was not fun. Jerry Koezuna and Ray Peneatac brought Francis Alvanna's boat and S. Ayek brought his boat in trailers.

June 29- Clear, variable winds at 5. Four boats came from King Island then went to Nome.

June 30- Jerry Koezuna and Ray Peneatac went to King Island with Francis' boat, they left about 10:15 a.m. John Fullock went to Shishmaref with two boats, they will hunt on the way.



July 1984

- July 1- Clear, winds N. at 8 and increasing. Went to Nome by evening.
- July 2- In Nome, clear, NW winds at 15. Went to Woolley arrived at 8:40 p.m. Brother Gabe came about 10:55 p.m. We were getting ready to go to King Island but we didn't like the weather.
- July 3- Partly cloudy, SE winds at 15 and increasing, then rain. We went to Nome.
- July 4- Forth of July weather is cloudy and rain, winds S. at 15. Today is the Independence day which is like any other day. When I was a boy they played eskimo games, danced, did high kicks, and had kayak and oomiak races. All we are trying to do today is to speak English.
- July 5- Cloudy, rain, winds S at 20.
- July 6- Cloudy, rain, SW winds at 35. Went to Woolley.
- July 7- Cloudy, rain, SE winds at 25. Went back to Nome.
- July 8- Cloudy, S winds at 10. Went to Woolley, the weather there is winds NW at 35.
- July 9- Cloudy, NW winds at 40.
- July 10- Partly cloudy, N wind at 40. Temp. 40 this morning. There is new snow on top of Singatook the big mountain in front of Woolley. Go to Nome.

Pullocks 2 boats and Justin Tiulana boats are weathered in Shismaref. We haven't heard from S. Ayek and F. Alvanna at King Island. S. Ayek made it to King Island okay. We haven't heard from F. Alvanna's boat. We tried calling on the C.B., but no answer. It was a very short hunting season, the boat captain only speed. Our way of hunting is over.

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enjoy

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