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Fish & Wildlife Service
1011 E. Tudor Road
Anchorage, Alaska 99503

PROGRESS REPORT: 1983 WALRUS HARVEST, HEALTH, AND WELFARE STUDY AT NOME, ALASKA

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Alaska Resources
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Anchorage, Alaska

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ABSTRACT

The U.S. Fish and Wildlife Service for the fourth consecutive year conducted a walrus harvest, health and welfare study in five northern Bering Sea coastal villages during the spring of 1983. Goals were to determine harvest levels, age structure, and contaminant levels for various body organs and tissue of harvested walruses (*Odobenus rosmarus divergens*).

The documented harvest level for the Nome and King Island areas were 407 and 230 walruses respectively. One hundred forty-four pair of teeth and tissue specimens from 16 walruses were acquired and await analysis. Sex composition of the harvest was appreciably different than previous years for Nome while the King Island sex composition of harvested walruses varied to a lesser degree from previous years. A documented minimum harvest of 119 bearded, 44 ringed and 10 spotted seals were recorded at Nome.

INTRODUCTION

The U.S. Fish and Wildlife Service during the spring of 1983 monitored for the fourth consecutive year the harvest of Pacific walrus (Odbenus rosmarus divergeus) in five Alaskan villages. The summer camps of Cape Woolley and King Island were included with the Nome harvest monitoring findings. The USFWS according to the terms of the Marine Mammal Protection Act is charged with the primary management authority for walrus and consequently has incorporated an active monitoring of Native harvest into its management program. An extensive collection of biological samples which included stomach contents, reproductive organs, teeth, blubber measurements and soft body organ specimens has been conducted in the past. The 1983 program was more limited with the primary objectives as follows:

1) Record number and sex of walruses harvested,

2) Collect a representative sample of teeth for aging in determination of the age structure of harvested walruses,

3) Collect liver, kidney and blubber tissue samples for contaminant analysis,

4) Record the harvest of other marine mammals and birds and,

5) Establish greater rapport with subsistence users in understanding their utilization of marine mammal resources.

Harvest data was collected from May 2 to May 26 in Nome and thereafter through July at Cape Woolley and King Island. Scott Schliebe, Marine Mammal Biologist, was responsible for the Nome harvest and coordinated the effort in the other villages. Edward Muktoyuk Sr. was employed by the USFWS and assisted in monitoring the Nome harvest while being solely responsible for the walrus harvest at Cape Woolley and King Island.

Kawerak, the non-profit arm of the Bering Strait Native Corporation, provided cash to acquire teeth and were reimbursed under contract with the USFWS.

STUDY AREA

Information presented in this report was collected at Nome and King Island, Alaska. The King Island hunting camp of Cape Woolley was considered as an extension of King Island since considerable overlap of hunting areas occurs.

Historically small widely scattered settlements occurred along the southern edge of the Seward peninsula. The discovery of gold at the site now known as Nome provided the impetus for establishment of the permanent settlement. The later advent of outboard motors and aluminum boats has opened an area to extensive marine mammal hunting which historically was void of hunting. The King Islanders have historically harvested marine mammals from their island which is located in the main migratory pathway of the Pacific walrus. The total relocation of the settlement to Nome in 1964, as noted by Lafortune, did not diminish the desire of the inhabitants to hunt marine mammals or revisit the homeland. The resulting effect was to expand the area and duration of hunting marine mammals. Ice conditions in Norton Sound and the Bering Sea determine the period of hunter access to walruses and varies from year to year. Hunting in the Nome area generally depends upon the date of departure of shore fast ice. In most years, walrus hunting in Nome starts in May. Hunting from Cape Woolley and King Island generally depends upon access via the Teller Road. In most years hunting occurs in June and early July with the majority occuring from the King Island camp (see also Progress Report 1981 and 1982, Walrus Harvest, Health and Welfare Study, Nome, Alaska, S. L. Schliebe).

METHODS

Nome based hunting effort was monitored by a biologist and local assistant with the use of a vehicle to patrol the road system located adjacent to the beach. Hunters were recorded as they departed and boats were met upon their return, hunters interviewed and walrus kill recorded according to sex, age (calf or adult), as well as the number and species of other marine mammals and birds. Hunting time, direction, 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 occassionally. 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 for determining crippling rates was devised.

SPECIMEN COLLECTION

Collection of specimens in 1983 was limited to a goal of 100 pair of lower canines, and kidney, liver and blubber contaminant specimens from 10 older-age animals. The sex ratio of 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 envelope marked with the date of harvest, sex of walrus and name of the boat captain. Tissue specimens were initally 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 or in transport back to the beach. Core samples were then wrapped in aluminum foil and individually labeled and sealed in small zip lock plastic bags. Specimens from individual animals were placed in a larger zip lock sandwich bag. Tooth specimens were collected for individuals for which contaminant specimens were obtained. 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 upon arrival in Nome at the Alaska Native Brotherhood (ANB) hall. Results from past years programs were explained and details of the objectives of this years' program presented. All boat captains were visited individually at home during the first week of May. Hunter kits were distributed and a one to one discussion of the harvest program and hunter questions were covered. Dan Mayer presented the Law Enforcement program slated for this spring's walrus harvest season and answered questions. Two interviews with KICY radio station were conducted. The first was a two minute news interview announcing the who, what, where and when's of the program while the second was a 20 minute in depth interview on findings from past years' programs and objectives of this seasons study. A list of boat captains is provided in Appendix I.

INCIDENTAL OBSERVATIONS

Incidental observations included hunting conditions (weather and ice, National Weather Service Local Climatological Data - Appendix II), seal harvest, and bird harvests. Recording the chronology and abundance of spring migratory birds was not attempted, while Henry Springer, a local birding enthusiast, has published results of his extensive observations and surveys on this subject. Observations on local attitudes toward the USFWS biological and Law Enforcement programs were noted to have improved.

RESULTS

The documented Nome harvest during the observation period was 407 walruses, consisting of 166 adult males (40.8%), 143 adult females (35.1%), 93 adult sex unknown (22.9%) and 5 calves (1.2%). Adult refers to independent animals (not calves), rather than to sexual maturity. A 54:46 male to female sex ratio existed. This was significantly different ($p < .001$) than either the 1981 or 1982 sex ratio. The proportion of males was greater than in 1981 and less than in 1982. The small proportion of calves remained similar to that of previous years (Table 1, Figure 3).

The marked differences in the sex ratios of walruses harvested over the past three years in Nome may be attributed to the accessibility of sexually and, in the case of adult females, reproductively segregated groups of walruses. The magnitude of the 1983 harvest compares favorably with that of 1980 and 1981. Unusual weather and ice conditions acted to substantially limit the walrus harvest in the Nome area in 1982 accounting for an approximate 65% reduction in the number of walrus harvested. The weather and ice conditions in 1983 were nearly ideal for hunting and the best to have occurred in the last four years. Only two days of weather restricting hunting occurred (see NOAA Climatological Data - Appendix III). Even though weather did not appear to limit hunting opportunities, other factors, mainly permenant job related may have influenced the amount of time available for hunting. A noticeable increase in hunting intensity occurred on weekends. Two days of hunting accounted for 70.7% of the Nome area harvest while walrus were only harvested on 7 days (Figure 1).

Documentation of harvests of other marine mammals from Nome included a minimum of 119 bearded seals (Erignathus barbatus), 44 ringed seals (Pusa hispida), and 10 spotted seals (Phoca largha).

Tooth specimens were acquired from 144 walruses, 95 (66%) males and 49 (34%) females. Contaminant specimens were collected from 13 male and 3 female walrus. Only the liver specimen was provided for walrus NW-2-83. All other walrus for which contaminant samples were provided included liver, kidney, blubber and tooth specimens.

The documented harvest at Cape Woolley and King Island from 29 May to 19 July, 1983 was 230 walruses. This consisted of 111 (48.3%) adult males, 12 (5.2%) adult females and 107 (46.5%) adults of mixed sex. The percentage of males and females comprising the mixed sex category is not known, however the late date of harvest may suggest that male walruses predominated. No calves were documented to have been harvested. The sex distribution cannot be accurrately compared between 1981 and 1983 without further knowledge of the mixed sex category. A 9:1 male to female sex ratio existed in known sex harvested walruses. This compares favorably to previous years. A change in hunting patterns resulted in 1983 when walrus were more actively pursued at sea on passing ice floes than in 1982 or 1981 when male walrus were almost exclusively harvested from haul out areas on King Island (Appendix IV, Edward Muktoyuk's diary of the Cape Woolley, King Island walrus harvest).

The magnitude of the harvest was slightly reduced from 1981 and was 60% lower than 1982's harvest (Table 2). The chronology of hunting activity from Cape Woolley camp and King Island was approximately 10 days earlier than experienced in 1981 or 1982 (Table 4, Figure 2) and ceased to be productive at nearly the same period. The single factor most affecting the advent of hunting out of Cape Woolley and King Island was the early opening of the Teller Road by the Alaska State Highway Department. Also, a spur loop road was constructed in the fall of 1982 on higher and drier tundra adjacent to the road into Cape Woolley from the Teller Highway. This road became passable much earlier than the lower road which parallels the unnamed stream and is prone to accumulating large snow drifts and ice overflow.

Hunting occurred on 12 days between 28 May and 19 July. Hunters were successful on 9 days. Wind and inclement weather conditions occurred on 22

days although it is difficult to determine at what point or if in fact hunting effort was restricted on a particular day due to weather conditions. Late season dispersal of pack ice acts to reduce the amount of buffer and consequently seas which were passable via small craft earlier in the season become impassable due to high swells and chop. Better weather is required for late season hunting. Trips to and from Cape Woolley, King Island and Nome accounted for 14 days. Repairing cabins on King Island accounted for four days, holidays two days and four days waiting at Woolley or King Island (Appendix IV).

Hunting intensity at the Cape Woolley and King Island camps appears to be less than that occurring out of Nome. Other activites associated with camping required a greater allocation of time.

A female walrus with a fetus was taken on 11 June, a dead whale (probably a gray whale) was found beached on 20 June and a sea lion was shot and lost on 30 June to complete incidental marine mammal harvest observations. No specimens were acquired from the King Island or Cape Woolley harvest during this period.

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

	Adult Males	Adult Females	Calves	Adult Sex Unknown	Total
1981[a/]	110	371	8		489
% of Total	22.5	75.9	1.6		
% of Adults	22.9	77.1			
1982[a/]	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			

a/ The maximum documented harvest is used when a harvest range is cited from the Progress Report 1981, Schliebe.

Table 2. Comparison of 1981, 1982 and 1983 Documented Walrus Harvest at Cape Wooley and King Island. Data from E. Muktoyuk Sr.[1/]

	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			

1/ When a harvest range was presented in Ed Muktoyuk's notes the upper figure was utilized.

Table 3. Chronology of Marine Mammal Harvest at Nome, Alaska, 1983.

	Walrus				Seals		
Date	Males	Females	Calves	Adult Sex Unknown	Bearded	Ringed	Spotted
May							
5					14		1
6					6	2	1
7	1	2			13	8	3
8	1				29	6	2
9							
10					4	1	
11	12	12	1	8	18	10	2
12	26	6	1	18	6	3	
13	17	13	1				
14	44	89	2	19	7	4	
15	65	21		48	16	9	1
18					2		
21					3	1	
22					2		
Totals	166	143	5	93	119	44	10

Table 4. Chronology of Marine Mammal Harvest at Cape Wooley and King Island, 1983.

	Walrus					
Date	Male	Female	Calf	Adult Sex Unknown	Seals	Other Observations
May						
29	15	7				
June						
1	8	2				
2	20	2				
11		1 w/fetus		107		20 gray whales
20						1 dead whale beached
29						1 sea lion
30	1					
July						
2	2					
9	26					
11	34					
12	5					
Total	111	12		107		

SCHLIEBE/nav/1Aug83/1616g

Figure 1. Chronology and sex composition of walrus harvest at Nome, Alaska, 1983.

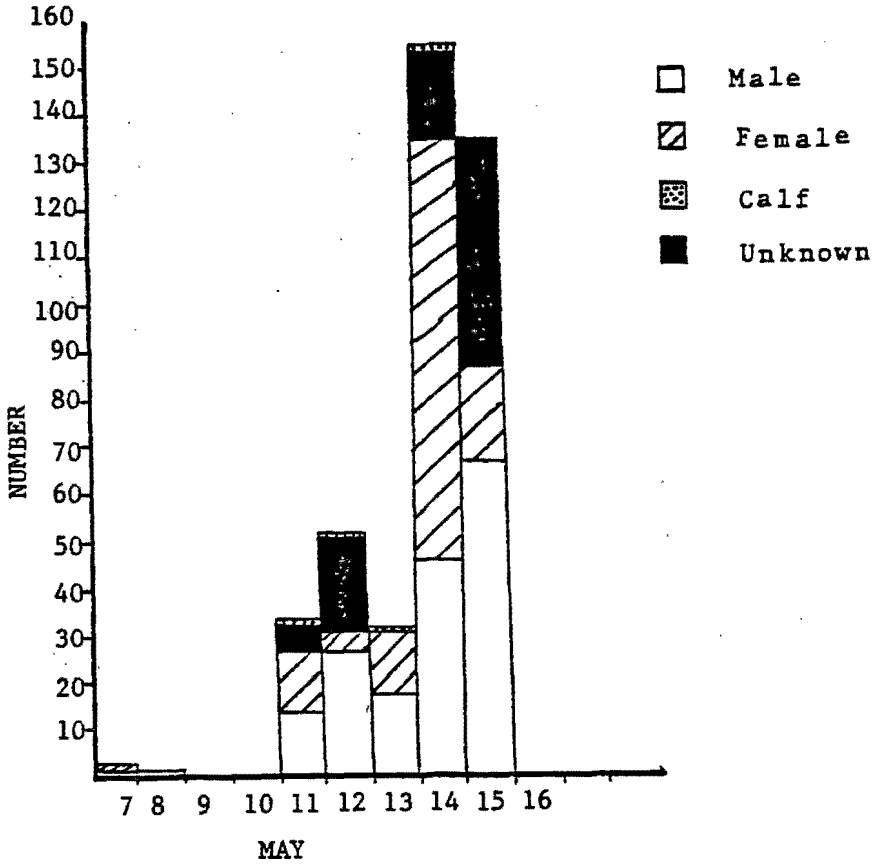
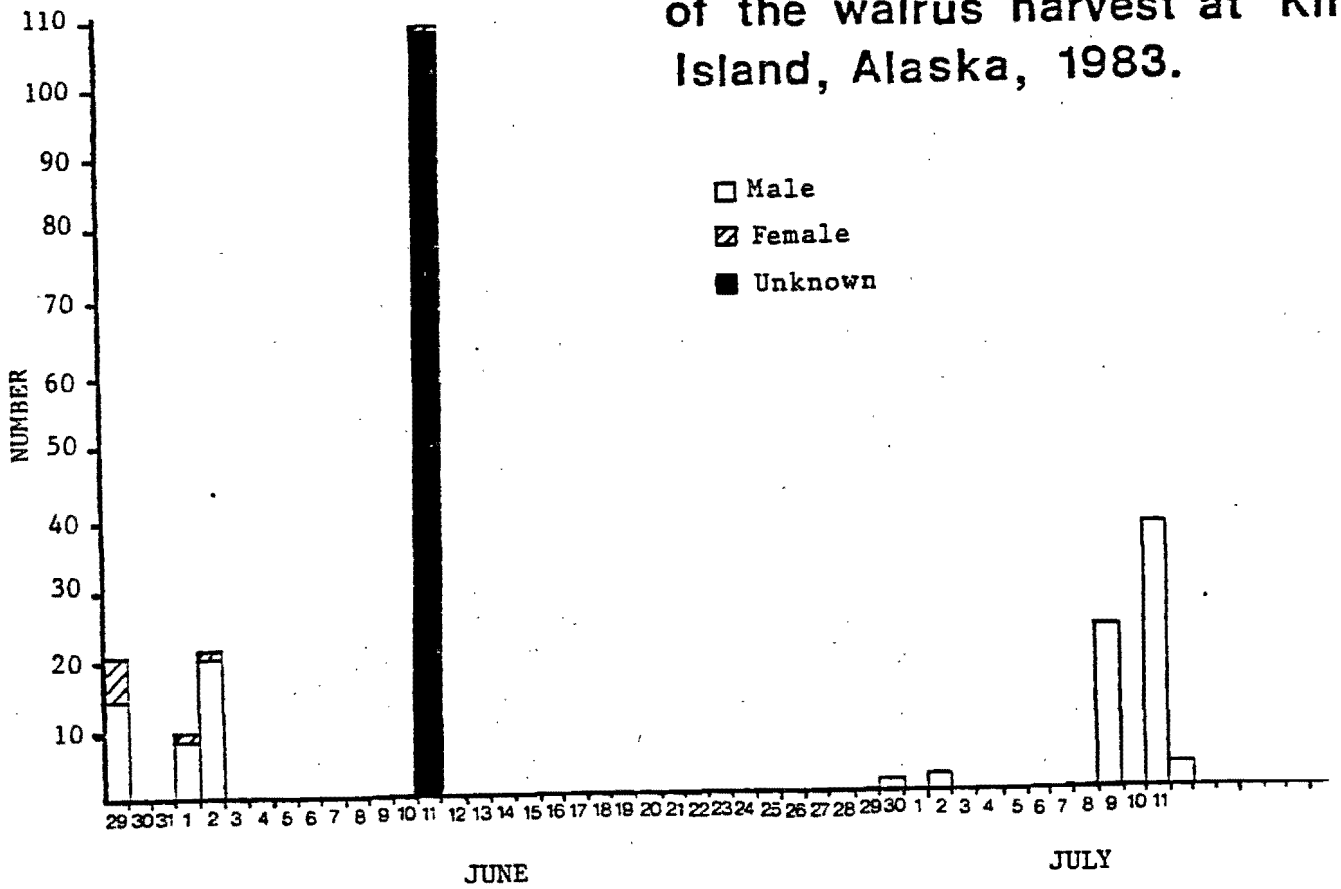


Figure 2. Chronology and sex composition of the walrus harvest at King Island, Alaska, 1983.



Appendix I. List of Boat Captains 1983.

Teddy Sockpick
Larry Davis
Ralph Olanna, Jr.
Lloyd Elasanga
Pat Norbert
Lincoln Milligrock
Daniel Walluk
Caleb Rungowiyi
Ira Ahnangatoguk
Franhnagatoguk
Calebv Dotomain
Johnny Bahnke, Jr.
Bernard Iryigoo
Mike Saclamana
Francis Alvanna
Paul, Justin, Tommy Tiulana
Gabe Muktoyuk
Tom Koyuk*
Vincent Kunuk

Ben & Tommy Herman
Samuel Kakik, Sr.
Richard Immingan*
Marty Howard
Strum Dickson
Earl Scott
Dan Karmen*
Charlie Johnson
Harold Ahnasuk, Jr.
Tim Gologergen
Roy Piscoya
Harry Koozaata
Matt Iya
Aloyisious Pikonganna
Frank Elanna
Kasagnoc
John Pullok
Simon Angusuc

* First year boat captains

Appendix II. Samples Collected During 1983 Walrus Harvest, Nome, Alaska.

Accession No.	Boat Captain	Date	Sex	Tissue Collected		
NW- 1-83	Tim Gologergen	5/7	M	L	K	B
NW- 2-83	Tim Gologergen	5/8	M	L		
NW- 3-83	Tim Gologergen	5/8	F	L		
NW- 4-83	Lincoln Milligrock	5/11	M			
NW- 5-83	Lincoln Milligrock	5/11	M			
NW- 6-83	Lincoln Milligrock	5/11	F			
NW- 7-83	Tim Gologergen	5/11	M			
NW- 8-83	Tim Gologergen	5/11	M			
NW- 9-83	Tim Gologergen	5/11	M			
NW-10-83	Tim Gologergen	5/11	F			
NW-11-83	Strum Dickson	5/11	M			
NW-12-83	Tim Gologergen	5/11	F			
NW-13-83	Strum Dickson	5/11	M			
NW-14-83	Strum Dickson	5/11	M			
NW-15-83	Mike Saclamana	5/11	M			
NW-16-83	Mike Saclamana	5/11	M			
NW-17-83	Mike Saclamana	5/11	M			
NW-18-83	Mike Saclamana	5/11	M			
NW-19-83	Mike Saclamana	5/11	F			
NW-20-83	Mike Saclamana	5/11	F			
NW-21-83	Mike Saclamana	5/11	F			
NW-22-83	Mike Saclamana	5/11	F			
NW-23-83	Mike Saclamana	5/11	F			
NW-24-83	Mike Saclamana	5/11	F			
NW-25-83	Mike Saclamana	5/11	F			
NW-26-83	Charlie Johnson	5/11	F			
NW-27-83	Charlie Johnson	5/11	F			
NW-28-83	Lincoln Milligrock	5/12	M			
NW-29-83	Lincoln Milligrock	5/12	M			
NW-30-83	Lincoln Milligrock	5/12	F			
NW-31-83	Lincoln Milligrock	5/12	F			
NW-32-83	Tim Gologergen Jr.	5/13	M			
NW-33-83	Mike Saclamana	5/13	M			
NW-34-83	Mike Saclamana	5/13	M			
NW-35-83	Mike Saclamana	5/13	M			
NW-36-83	Mike Saclamana	5/13	F			
NW-37-83	Mike Saclamana	5/13	M			
NW-38-83	Mike Saclamana	5/13	M			
NW-39-83	Mike Saclamana	5/13	M			
NW-40-83	Mike Saclamana	5/13	M			
NW-41-83	Mike Saclamana	5/13	F			
NW-42-83	Mike Saclamana	5/13	F			
NW-43-83	Mike Saclamana	5/13	F			
NW-44-83	Mike Saclamana	5/13	M			
NW-45-83	Mike Saclamana	5/13	M			
NW-46-83	Mike Saclamana	5/13	M			

NW-47-83	Mike Saclamana	5/13	F	
NW-48-83	Mike Saclamana	5/13	F	
NW-49-83	Mike Saclamana	5/13	F	
NW-50-83	Samuel Kakik Sr.	5/13	M	L K B
NW-51-83	Samuel Kakik Sr.	5/13	F	L K B
NW-52-83	Samuel Kakik Sr.	5/13	M	L K B
NW-53-83	Strum Dickson	5/12	M	
NW-54-83	Strum Dickson	5/12	M	L K B
NW-55-83	Strum Dickson	5/12	M	L K B
NW-56-83	Mike Saclamana	5/14	F	L K B
NW-57-83	Mike Saclamana	5/14	F	L K B
NW-58-83	Mike Saclamana	5/14	M	L K B
NW-59-83	Mike Saclamana	5/14	M	L K B
NW-60-83	Mike Saclamana	5/14	M	L K B
NW-61-83	Ben Herman	5/12	M	specimens from
NW-62-83	Ben Herman	5/12	M	four animals
NW-63-83	Ben Herman	5/12	M	mixed and stored
NW-64-83	Ben Herman	5/12	M	in burlap bag
NW-65-83	Lincoln Milligrock	5/14	M	
NW-66-83	Lincoln Milligrock	5/14	M	
NW-67-83	Lincoln Milligrock	5/14	M	
NW-68-83	Lincoln Milligrock	5/14	M	
NW-69-83	Lincoln Milligrock	5/14	M	
NW-70-83	Lincoln Milligrock	5/14	M	
NW-71-83	Lincoln Milligrock	5/14	M	
NW-72-83	Lincoln Milligrock	5/14	F	
NW-73-83	Lincoln Milligrock	5/14	M	
NW-74-83	Lincoln Milligrock	5/14	M	
NW-75-83	Lincoln Milligrock	5/14	F	
NW-76-83	Lincoln Milligrock	5/14	M	
NW-77-83	Caleb Pungowiyi	5/13	F	
NW-78-83	Caleb Pungowiyi	5/13	F	
NW-79-83	Caleb Pungowiyi	5/13	F	
NW-80-83	Caleb Pungowiyi	5/13	F	
NW-81-83	Caleb Pungowiyi	5/13	M	
NW-82-83	Caleb Pungowiyi	5/13	M	
NW-83-83	Caleb Pungowiyi	5/13	M	
NW-84-83	Caleb Pungowiyi	5/13	M	
NW-85-83	Charlie Johnson	5/14	M	
NW-86-83	Charlie Johnson	5/14	M	
NW-87-83	Charlie Johnson	5/14	F	
NW-88-83	Charlie Johnson	5/14	F	
NW-89-83	Charlie Johnson	5/14	F	
NW-90-83	Charlie Johnson	5/14	F	
NW-91-83	Charlie Johnson	5/14	F	
NW-92-83	Richard Immigan	5/15	M	
NW-93-83	Richard Immigan	5/15	M	
NW-94-83	Richard Immigan	5/15	F	
NW-95-83	Richard Immigan	5/15	F	

NW-96-83	Richard Immigan	5/15	F
NW-97-83	Ralph Ollana Jr.	5/15	M
NW-98-83	Ralph Ollana Jr.	5/15	M
NW-99-83	Ralph Ollana Jr.	5/15	M
NW-100-83	Ralph Ollana Jr.	5/15	M
NW-101-83	Ralph Ollana Jr.	5/15	M
NW-102-83	Ralph Ollana Jr.	5/15	M
NW-103-83	Ralph Ollana Jr.	5/15	M
NW-104-83	Ralph Ollana Jr.	5/15	F
NW-105-83	Ralph Ollana Jr.	5/15	F
NW-106-83	Ralph Ollana Jr.	5/15	F
NW-107-83	Ralph Ollana Jr.	5/15	F
NW-108-83	Strum Dickson	5/15	M
NW-109-83	Strum Dickson	5/15	M
NW-110-83	Strum Dickson	5/15	M
NW-111-83	Strum Dickson	5/15	M
NW-112-83	Strum Dickson	5/15	M
NW-113-83	Strum Dickson	5/15	M
NW-114-83	Strum Dickson	5/15	M
NW-115-83	Strum Dickson	5/15	M
NW-116-83	Strum Dickson	5/15	M
NW-117-83	Strum Dickson	5/15	M
NW-118-83	Strum Dickson	5/15	M
NW-119-83	Strum Dickson	5/15	M
NW-120-83	Strum Dickson	5/15	M
NW-121-83	Strum Dickson	5/15	M
NW-122-83	Strum Dickson	5/15	M
NW-123-83	Strum Dickson	5/15	M
NW-124-83	Strum Dickson	5/15	M
NW-125-83	Strum Dickson	5/15	M
NW-126-83	Strum Dickson	5/15	M
NW-127-83	Strum Dickson	5/15	M
NW-128-83	Strum Dickson	5/15	M
NW-129-83	Strum Dickson	5/15	M
NW-130-83	Strum Dickson	5/15	M
NW-131-83	Strum Dickson	5/15	M
NW-132-83	Strum Dickson	5/15	M
NW-133-83	Strum Dickson	5/15	M
NW-134-83	Strum Dickson	5/15	M
NW-135-83	Strum Dickson	5/15	M
NW-136-83	Strum Dickson	5/15	M
NW-137-83	Strum Dickson	5/15	M
NW-138-83	Strum Dickson	5/15	M
NW-139-83	Strum Dickson	5/15	F
NW-140-83	Strum Dickson	5/15	F
NW-141-83	Strum Dickson	5/15	F
NW-142-83	Strum Dickson	5/15	F
NW-143-83	Strum Dickson	5/15	F
NW-144-83	Strum Dickson	5/15	F

Appendix III

APR 1983 26617
NOME, ALASKA
MUNICIPAL AIRPORT

ISSN 0198-0408

LOCAL CLIMATOLOGICAL DATA
Monthly Summary

NATIONAL WEATHER SERVICE OFC

LATITUDE 64° 30' N LONGITUDE 165° 26' W ELEVATION (GROUND): 13 FEET TIME ZONE BERING WBAN #26617

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F HEATING (SEASON BEGINS WITH JUL 1) 7A	COOLING (SEASON BEGINS WITH JAN 1) 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW ICE PELLETS OR ICE ON GROUND AT 07AM INCHES 9	PRECIPITATION WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 22 FEET ABOVE M.S.L. 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	FASTEST MILE SPEED 16	FASTEST MILE DIRECTION 17	SUNSHINE MINUTES 18	PERCENT OF TOTAL POSSIBLE 19	SKY COVER (TENTHS) SUNRISE TO SUNSET 20	MIDNIGHT TO MIDNIGHT 21	DATE 22
1	20	-3	9	-2	- 8	56	0		4	0	0	29.83	30	2.5	4.3	12	26	815	100	0	0	1
2	23	-5	9	-2	- 3	56	0		4	0	0	29.84	33	2.9	4.2	8	29	700	85	1	1	2
3	36	14	25	13	17	40	0		4	0	0	29.73	03	7.5	8.6	28	03	742	90	7	7	3
4	38	20	29	17	16	36	0		4	0	0	29.41	02	18.6	19.8	36	03	328	39	10	8	4
5	23	15	19	7	12	46	0		4	T	T	29.61	32	4.5	4.8	10	34	256	30	10	10	5
6	33	22	28	15	22	37	0	1	5	.10	1.9	29.80	08	3.2	5.3	16	08	0	0	10	10	6
7	30	17	24	11	17	41	0		6	.06	1.5	30.09	07	9.1	10.1	21	07	0	0	10	10	7
8	20	-2	9	-5	7	56	0		7	T	1.0	30.29	32	1.3	3.6	7	27	298	35	6	5	8
9	23	-3	10	-4	- 2	55	0		7	0	0	30.24	34	1.1	1.2	6	34	868	100	0	0	9
10	24	-4	10	-5	1	55	0		7	0	0	30.16	04	2.7	4.3	15	02	874	100	0	0	10
11	21	12	17	2	- 1	48	0		6	0	0	29.86	04	20.3	21.3	30	04	881	100	0	0	11
12	24	2	13	-3	- 6	52	0		4	0	0	29.81	03	6.7	8.8	28	04	887	100	0	0	12
13	23	-5*	9*	-7	- 3	56	0		4	0	0	29.80	07	3.5	5.6	20	07	895	100	0	0	13
14	35	17	26	9	19	39	0	1 9	4	.09	.9	29.36	10	20.6	22.4	35	10	0	0	10	9	14
15	34	29	32	15	26	33	0	1	5	.02	.6	29.51	14	11.3	11.8	16	12	761	84	10	10	15
16	32	21	27	9	21	38	0	1	5	T	.1	29.64	10	8.1	8.5	21	08	379	41	9	9	16
17	35	25	30	12	24	35	0	9	5	.16	1.6	29.08	11	16.7	19.0	32	10	0	0	10	10	17
18	33	27	30	11	24	35	0	1	6	T	T	29.11	11	9.3	11.4	18	06	492	23	10	9	18
19	36	29	33	14	25	32	0	1	6	.02	.2	29.21	07	12.3	13.2	18	09	268	29	10	9	19
20	38	26	32	12	23	33	0		6	T	T	29.41	05	6.5	8.9	13	07	765	87	4	6	20
21	33	17	25	4	18	40	0		5	0	0	29.64	29	1.2	2.9	13	07	345	36	10	8	21
22	37	32	35	14	28	30	0	1	5	.10	1.0	29.56	10	13.5	14.5	26	10	0	0	10	10	22
23	39	34	37*	15	30	28	0	1	4	.23	.4	29.38	12	17.6	21.1	28	15	0	0	10	10	23
24	37	26	32	10	27	33	0	1	4	.01	T	29.75	17	13.7	14.2	21	15	0	0	10	9	24
25	36	25	31	8	24	34	0		3	T	T	30.06	09	11.5	11.7	15	08	130	13	10	9	25
26	40	31	36	12	24	29	0		3	0	0	30.13	07	7.5	7.8	14	08	145	15	9	8	26
27	40*	28	34	10	27	31	0	2	3	.01	0	30.06	08	13.6	13.8	21	08	196	20	10	9	27
28	38	33	36	11	30	29	0	1	3	.35	.4	29.81	12	11.2	14.9	23	09	145	15	9	9	28
29	36	31	34	8	28	31	0	1	3	T	T	30.12	14	6.8	8.6	16	09	244	24	10	10	29
30	38	32	35	8	29	30	0	1	3	.03	.6	30.07	10	14.8	15.2	20	08	0	0	10	10	30

SUM	SUM				TOTAL	TOTAL	NUMBER OF DAYS	TOTAL	TOTAL	FOR THE MONTH:						TOTAL	%	SUM	SUM
955	543				1194	0		1.18	10.2	29.74	09	6.8	10.7	36	03	11414	FOR	215	205
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	DEP.						DATE:	04	POSSIBLE	MONTH	AVG.	AVG.
31.8	18.1	25.0	7.1	16	-189	0	> .01 INCH 12	0.54								27350	42	7.2	6.8

NUMBER OF DAYS				SEASON TO DATE TOTAL	SEASON TO DATE TOTAL	SNOW, ICE PELLETS > 1.0 INCH 5	GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
MAXIMUM TEMP.		MINIMUM TEMP.		11532	0	THUNDERSTORMS 0	PRECIPITATION		SNOW, ICE PELLETS			
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 1	.36	27-28	2.0	6-7	7	10+
3	11	28	6	-1272	0	CLEAR 7 PARTLY CLOUDY 3 CLOUDY 20						

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T 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 7 OR MORE OBSERVATIONS AT 3-HOUR 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

L. Ray Hoxit
ACTING DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

APR 1983
NOME, ALASKA

OBSERVATIONS AT 3-HOUR INTERVALS

APR 1983 26617
NOME, ALASKA

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					DAY 01						
01	0	UNL	15			03	02	-10	54	04	5
04	0	UNL	15			-02	-03	-14	56	36	3
07	0	UNL	35			-01	-02	-12	59	36	3
10	0	UNL	35			14	10	-10	33	00	0
13	0	UNL	35			18	16	07	62	26	5
16	0	UNL	35			19	14	-09	28	26	10
19	0	UNL	35			11	09	-04	50	31	4
22	0	UNL	15			01	00	-09	62	00	0
					DAY 02						
01	0	UNL	7			-04	-04	-15	58	35	4
04	0	UNL	15			-05	-05	-16	58	00	0
07	3	UNL	25			-01	-02	-12	59	02	5
10	2	UNL	15			12	09	-04	48	28	5
13	0	UNL	15			20	16	-01	39	29	6
16	0	UNL	15			21	18	10	62	30	4
19	0	UNL	15			18	16	07	62	05	3
22	2	UNL	15			13	11	04	67	36	2
					DAY 03						
01	10	50	10			17	15	08	68	13	4
04	10	50	10			21	19	13	71	00	0
07	9	80	35			26	24	17	69	04	10
10	1	UNL	35			33	28	19	56	04	8
13	9	200	15			34	30	21	59	05	7
16	10	200	15			35	30	21	57	35	6
19	7	UNL	15			30	26	18	61	36	9
22	6	UNL	15			31	26	16	54	04	16
					DAY 04						
01	0	UNL	15			29	25	14	53	02	27
04	3	UNL	35			32	27	15	49	04	24
07	8	UNL	35			33	28	16	50	03	31
10	10	200	35			36	30	18	48	03	24
13	10	200	15			36	30	19	50	35	15
16	10	UNL	15			34	28	17	50	32	8
19	10	200	15			25	22	15	66	35	3
22	10	200	15			22	19	11	62	01	6
					DAY 05						
01	10	UNL	15			19	17	09	65	00	0
04	10	70	30			17	15	07	65	34	9
07	10	UNL	35			16	14	06	64	00	0
10	10	70	15		S	22	20	12	65	33	3
13	10	31	3		S	22	20	15	74	30	6
16	10	24	15		S	22	20	15	74	30	4
19	10	26	7		S	22	21	16	78	31	6
22	10	28	7		S	23	21	16	74	33	5
					DAY 06						
01	10	16	5		S	23	21	16	74	34	4
04	10	15	1	8	S	23	22	19	81	30	4
07	10	16	7		S	25	24	19	78	00	0
10	10	9	10			32	30	25	75	09	10
13	10	12	7		S	33	30	26	75	08	13
16	10	22	2	8	S	30	28	24	78	14	6
19	10	20	2		SF	28	26	22	78	00	0
22	10	20	1	8	SF	27	26	22	81	00	0
					DAY 07						
01	10	42	7		S	19	18	14	81	04	4
04	10	34	7		S	26	24	20	78	30	3
07	10	7	1		S	29	27	23	78	06	4
10	10	40	2		S	26	24	19	75	08	16
13	10	40	4		S	24	22	17	75	07	16
16	10	80	6		S	22	20	15	74	08	13
19	10	24	3		S	20	18	13	74	09	8
22	10	38	3		S	19	17	11	71	07	6
					DAY 08						
01	10	34	5		S	16	15	10	77	27	4
04	10	35	5		S	15	14	09	77	27	4
07	10	16	1	8	S	14	13	07	74	27	6
10	8	80	5		S	19	17	11	71	00	0
13	5	UNL	7			19	17	10	68	00	0
16	4	UNL	7			18	16	10	71	09	3
19	3	UNL	15			10	09	03	73	04	4
22	0	UNL	10			03	02	-08	60	03	4
					DAY 09						
01	0	UNL	10			00	00	-08	68	00	0
04	0	UNL	10			01	00	-10	59	00	0
07	0	UNL	10			09	07	-03	58	00	0
10	0	UNL	15			16	13	00	49	35	4
13	0	UNL	15			21	18	07	55	33	4
16	0	UNL	15			22	19	07	52	00	0
19	0	UNL	35			14	11	00	53	00	0
22	0	UNL	15			02	01	-10	57	00	0
					DAY 10						
01	0	UNL	10			-01	-02	-12	59	00	0
04	0	UNL	35			-01	-02	-11	62	02	3
07	0	UNL	35			07	05	-06	55	01	4
10	0	UNL	35			21	17	05	50	00	0
13	0	UNL	35			22	20	12	65	10	4
16	0	UNL	35			22	20	13	68	20	4
19	0	UNL	35			18	15	06	59	06	7
22	0	UNL	30			16	13	00	49	02	8
					DAY 11						
01	0	UNL	10			16	12	-04	41	02	13
04	0	UNL	35			13	10	-06	42	04	16
07	0	UNL	35			16	13	-01	47	04	21
10	0	UNL	35			18	15	05	57	05	21
13	0	UNL	35			21	18	09	60	05	23
16	0	UNL	35			18	15	04	54	05	20
19	0	UNL	35			15	12	-04	42	03	24
22	0	UNL	10			14	10	-08	36	34	10
					DAY 12						
01	0	UNL	10			14	10	-08	36	02	23
04	0	UNL	35			15	11	-10	32	06	10
07	0	UNL	35			10	07	-09	41	00	0
10	0	UNL	35			17	13	-05	37	36	3
13	0	UNL	35			22	16	-08	26	31	7
16	0	UNL	35			22	18	05	48	12	6
19	0	UNL	35			16	12	-07	35	04	7
22	0	UNL	10			05	04	-02	72	04	5
					DAY 13						
01	0	UNL	10			00	00	-16	46	02	3
04	0	UNL	35			-03	-04	-17	50	02	3
07	0	UNL	35			02	01	-12	51	00	0
10	0	UNL	35			18	15	04	54	20	3
13	0	UNL	35			21	18	09	60	22	4
16	0	UNL	35			22	19	10	60	08	5
19	0	UNL	35			18	15	01	47	08	8
22	2	UNL	10			16	13	00	49	07	13
					DAY 14						
01	0	UNL	15			18	15	03	52	07	16
04	10	180	15			21	17	05	50	08	23
07	10	140	25			24	21	13	63	08	23
10	10	2	0	8	S	29	27	22	75	09	26
13	10	2	0	2	SBS	32	30	27	82	10	30
16	10	28	3		F	31	30	29	92	14	13
19	10	10	7		SG	34	32	28	79	12	14
22	10	38	7			33	31	27	79	15	11
					DAY 15						
01	10	49	6		S	32	30	26	79	15	10
04	10	50	5		S	31	29	25	78	15	10
07	10	50	5		SF	32	30	25	75	15	11
10	10	7	7			32	30	26	79	16	12
13	10	9	9			33	30	25	72	15	11
16	10	10	10			33	31	27	79	11	12
19	10	28	7		S	33	31	27	79	12	11
22	8	13	7			30	28	23	75	14	5
					DAY 16						
01	10	28	7			29	27	23	78	10	5
04	10	7	7		S	28	26	22	78	10	6
07	10	15	10			25	24	19	78	05	2
10	10	7	4		S	30	28	24	78	12	6
13	10	11	7			31	28	22	69	13	6
16	10	15	20			30	27	21	69	08	7
19	10	13	20			27	25	20	75	09	11
22	10	5	7			26	24	20	78	10	16
					DAY 17						
01	10	150	7			25	24	19	78	08	16
04	10	120	10			27	25	18	69	12	19
07	10	3	0	8	SBS	28	26	22	78	09	22
10	10	4	0	4	SBS	29	27	23	78	10	28
13	10	8	1	8	S	31	29	25	78	11	18
16	10	7	7			34	32	28	79	17	10
19	10	7	2		S	33	31	27	79	17	10
22	10	15	7			32	30	26	79	15	9
					DAY 18						
01	10	9	2	8	SF	31	29	25	78	14	8
04	10	5	2	8	SF	30	28	25	82	11	6
07	10	9	7			29	27	23	78	18	11
10	10	7	7			29	27	22	75	13	5
13	10	10	10		S	32	29	23	69	09	10
16	10	16	2	8	S	32	30	25	75	09	15
19	10	24	15			32	30	25	75	09	13
22	3	UNL	10			30	27	20	66	06	11

WEATHER CODES

*	TORNADO	ZL	FREEZING DRIZZLE	IPW	ICE PELLET SHOWERS	BN	BLOWING SAND
T	THUNDERSTORM	S	SNOW	A	HAIL	BS	BLOWING SNOW
Q	SQUALL	SW	SNOW SHOWERS	F	FOG	BY	BLOWING SPRAY
R	RAIN	SG	SNOW GRAINS	IF	ICE FOG	K	SMOKE
RW	RAIN SHOWERS	SP	SNOW PELLETS	GF	GROUND FOG	H	HAZE
ZR	FREEZING RAIN	IC	ICE CRYSTALS	BD	BLOWING DUST	D	DUST
L	DRIZZLE	IP	ICE PELLETS				

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 1983 26617
NOME, ALASKA

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					DAY 19						
01	2	UNL	10			29	26	18	63	05	12
04	10	5	2		S	30	28	23	75	05	11
07	10	20	2		SF	32	30	25	75	06	13
10	10	24	10			35	32	26	70	08	11
13	10	15	4		S	34	31	27	76	10	15
16	10	9	3		S	34	31	27	76	11	10
19	10	40	10			32	30	26	79	08	11
22	10	40	7			31	29	24	75	06	9
					DAY 20						
01	10	14	7		S	30	28	24	78	08	10
04	10	37	7		S	31	29	24	75	07	10
07	1	UNL	20			31	28	23	72	06	8
10	4	UNL	15			35	31	24	64	09	7
13	0	UNL	15			37	32	24	59	05	8
16	2	UNL	15			37	32	23	57	36	5
19	10	UNL	20			30	27	21	69	32	6
22	10	200	15			30	26	19	64	34	8
					DAY 21						
01	3	UNL	15			25	23	16	69	30	4
04	2	UNL	35			18	17	11	74	00	0
07	10	UNL	35			21	19	13	71	00	0
10	10	42	35			26	24	18	72	00	0
13	10	UNL	35			30	27	21	69	23	5
16	9	30	35			30	27	21	69	25	4
19	9	49	20			31	28	22	69	04	4
22	7	49	15			25	23	18	75	01	3
					DAY 22						
01	10	50	15			34	30	23	64	07	10
04	10	60	35			35	32	26	70	07	16
07	10	31	1	8	S	34	32	28	79	10	13
10	10	6	1	4	S	35	33	29	79	09	17
13	10	5	2		S	37	34	30	76	13	17
16	10	7	10			37	34	30	76	13	8
19	10	5	7			36	33	29	76	10	9
22	10	6	7			35	33	30	82	10	11
					DAY 23						
01	10	3	0	8	F	35	33	30	82	08	14
04	10	7	2		SF	35	33	29	79	08	13
07	10	5	1	8	SF	35	33	29	79	08	18
10	10	5	1	8	SF	36	34	30	79	09	17
13	10	14	10		R	38	35	31	76	10	20
16	10	8	10			37	34	29	73	15	22
19	10	8	5		SW	36	34	30	79	16	23
22	10	8	3		LS	36	33	29	76	15	20
					DAY 24						
01	10	9	7			36	33	29	76	14	17
04	10	5	2		SF	35	33	29	79	16	17
07	10	7	4		S	35	32	28	76	17	14
10	10	6	3		S	35	33	29	79	18	9
13	10	6	7		S	36	33	29	76	19	12
16	10	14	7			34	30	24	67	18	12
19	10	20	7			32	29	24	72	16	8
22	10	26	7			31	27	20	64	17	10
					DAY 25						
01	1	UNL	7			26	24	18	72	09	8
04	9	16	7			29	26	20	69	07	7
07	10	40	7			31	28	23	72	08	12
10	10	UNL	30			35	32	26	70	09	11
13	10	49	30			35	31	25	67	10	11
16	10	38	20			35	32	26	70	10	11
19	10	17	10			34	31	26	73	10	10
22	10	16	7			33	30	25	72	08	11
					DAY 26						
01	10	18	7			34	30	23	64	07	8
04	10	28	7			31	27	20	64	02	4
07	10	28	10			35	31	25	67	07	8
10	10	37	35			38	33	24	57	07	5
13	10	200	35			40	35	28	62	08	7
16	10	UNL	35			40	35	26	57	08	7
19	10	UNL	35			35	32	26	70	08	7
22	1	UNL	20			32	29	22	67	08	8
					DAY 27						
01	1	UNL	10			32	28	21	64	09	6
04	10	11	10			31	28	23	72	10	8
07	10	10	7			32	30	27	82	08	8
10	10	6	4		F	34	32	28	79	09	13
13	9	5	7			36	33	29	76	08	15
16	10	UNL	35			37	34	30	76	07	14
19	10	70	35			39	35	28	65	07	16
22	10	34	15		R	38	34	29	70	09	16
					DAY 28						
01	10	31	7		R	37	34	30	76	09	18
04	10	15	7		R	37	35	31	79	09	20
07	10	17	7		R	37	35	31	79	09	17
10	10	5	1	8	SF	36	34	30	79	11	15
13	10	3	1	8	RSF	36	34	31	82	14	9
16	0	UNL	15			36	34	30	79	21	7
19	10	5	5		F	34	32	28	79	18	9
22	10	5	7			34	31	27	76	19	8
					DAY 29						
01	10	4	7			33	31	28	82	21	8
04	10	3	3		F	33	31	27	79	15	5
07	10	4	5		F	33	31	27	79	14	5
10	10	6	6		SF	35	33	29	79	17	5
13	10	7	7			36	33	29	76	17	6
16	10	6	7			35	33	29	79	13	7
19	10	6	7			34	32	29	82	10	10
22	10	2	2		F	32	30	27	82	10	14
					DAY 30						
01	10	22	5		SF	33	31	27	79	10	11
04	10	5	1	8	SF	34	32	28	79	12	13
07	10	5	6		SF	35	32	28	76	11	16
10	10	31	6		SF	36	33	29	76	11	15
13	10	10	2		SF	36	34	30	79	11	15
16	10	6	2		SF	36	34	30	79	11	15
19	10	180	7			36	33	29	76	07	13
22	10	20	2		S	36	34	30	79	09	8

NOME ALASKA 83 04

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES: SKY COVER (TENTHS)	AVERAGES: STATION PRESSURE (INCHES)	AVERAGES: TEMPERATURE AIR TEMP °F	AVERAGES: TEMPERATURE WET BULB °F	AVERAGES: TEMPERATURE DEW POINT °F	AVERAGES: REL HUMIDITY %	AVERAGES: WIND SPEED (MPH)	RESULTANT WIND: DIRECTION	RESULTANT WIND: SPEED (MPH)
01	6	29.75	22	20	13	67	10.4	07	6.9
04	7	29.74	22	20	13	68	10.2	08	7.0
07	7	29.74	24	22	15	69	10.9	08	7.9
10	7	29.74	28	25	18	66	11.5	09	8.7
13	7	29.74	30	27	20	67	12.5	10	7.5
16	7	29.74	30	27	20	68	10.3	11	5.5
19	7	29.75	27	25	18	68	10.3	09	6.4
22	7	29.76	25	22	15	68	9.7	08	5.9

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

APR 1983 26617
NOME, ALASKA

DATE	A.M. HOUR ENDING AT 1	2	3	4	5	6	7	8	9	10	11	12	P.M. HOUR ENDING AT 1	2	3	4	5	6	7	8	9	10	11	12	DATE
1																									1
2																									2
3																									3
4																									4
5													T						T						5
6	T						.05						T						.03						6
7	.02						.04						.02						T						7
8	T						T						T						T						8
9																									9
10																									10
11																									11
12																									12
13																									13
14													.07						.02						14
15	.T						.01						T						T						15
16	.01						T						T												16
17	T						.03						.10						.03						17
18	T						T						T						T						18
19							.02						T						T						19
20	T						T																		20
21																									21
22							T						.10						T						22
23	T						.04						.19						T						23
24	T						.01						T						T						24
25													T						T						25
26	T																								26
27																									27
28	.01						.14						.21						T						28
29							T						T												29
30	T						.02						.01						T						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.

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

MAY 1983 26617
NOME, ALASKA
MUNICIPAL AIRPORT

ISSN 0198-0408

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

NATIONAL WEATHER SERVICE OFC

LATITUDE 64° 30' N LONGITUDE 165° 26' W ELEVATION (GROUND) 13 FEET TIME ZONE BERING WBAN #26617

MAY 1983
NOME, ALASKA

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F HEATING (SEASON BEGINS WITH JUL 1) 7A	COOLING (SEASON BEGINS WITH JAN 1) 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW ICE PELLETS OR ICE ON GROUND AT 07AM INCHES 9	PRECIPITATION WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 22 FEET ABOVE M.S.L. 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	FASTEST MILE SPEED 16	FASTEST MILE DIRECTION 17	SUNSHINE MINUTES 18	PERCENT OF TOTAL POSSIBLE 19	SKY COVER (TENTHS) SUNRISE TO SUNSET 20	MIDNIGHT TO MIDNIGHT 21	DATE 22
1	39	32	36	9	32	29	0	2	3	.15	1.1	29.77	09	11.4	11.8	21	08	0	0	10	10	1
2	44	32	38	10	32	27	0	1	2	T	0	29.63	27	3.2	4.2	9	26	316	31	10	10	2
3	40	34	37	8	31	28	0	1	2	.02	T	29.67	27	5.4	5.5	12	26	38	4	10	10	3
4	36	30	33*	4	27	32	0	1	2	.04	.4	29.68	15	4.8	6.5	12	14	0	0	10	10	4
5	43	27	35	5	29	30	0		2	T	T	29.80	33	6.4	8.1	16	36	877	84	9	9	5
6	43	28	36	5	28	29	0		2	0	0	29.94	35	2.5	7.2	13	36	1051	100	1	2	6
7	49	24*	37	6	25	28	0		1	0	0	30.00	32	3.7	5.8	10	26	1057	100	0	0	7
8	51	33	42	10	25	23	0		T	0	0	30.06	01	3.5	6.3	10	35	1065	100	0	0	8
9	55	38	47	14	27	18	0		T	0	0	30.03	04	12.4	13.4	17	03	782	73	8	8	9
10	59	42	51	18	29	14	0		T	0	0	30.03	07	11.6	12.4	17	05	930	86	6	6	10
11	59	40	50	16	30	15	0		T	0	0	30.10	08	7.2	9.8	14	08	1085	100	1	1	11
12	58	40	49	15	25	16	0		T	0	0	30.11	08	4.2	8.8	17	12	945	87	4	3	12
13	60	39	50	15	28	15	0		T	0	0	30.03	03	3.3	8.1	13	03	957	87	1	1	13
14	61	41	51	16	27	14	0		T	0	0	29.97	32	4.9	7.8	14	05	1105	100	0	0	14
15	57	37	47	11	30	18	0		T	0	0	29.87	08	3.1	6.8	18	04	927	83	6	6	15
16	67*	44	56	20	29	9	0		T	0	0	29.66	04	17.1	17.3	21	03	963	86	5	5	16
17	61	41	51	14	23	14	0		T	0	0	29.70	03	4.7	9.1	15	07	1125	100	0	0	17
18	53	34	44	7	24	21	0		T	0	0	29.83	27	6.6	9.9	17	26	996	88	7	6	18
19	51	32	42	4	27	23	0		T	0	0	29.88	28	2.4	6.8	15	01	1043	92	4	5	19
20	47	30	39	1	13	26	0		T	0	0	29.99	06	10.4	12.4	17	06	1007	88	9	9	20
21	53	37	45	6	16	20	0		T	0	0	29.85	09	4.4	7.9	15	14	123	11	10	10	21
22	56	42	49	10	28	16	0		0	T	0	29.77	11	2.1	7.6	12	14	838	72	10	10	22
23	52	39	46	7	34	19	0		0	T	0	29.72	22	4.1	6.3	14	23	984	84	8	8	23
24	48	31	40	0	34	25	0		0	0	0	29.61	24	6.9	9.5	21	26	974	83	9	8	24
25	42	30	36	-4	28	29	0		0	0	0	29.53	26	11.7	11.9	22	25	610	52	7	6	25
26	42	29	36	-4	30	29	0		0	0	0	29.67	26	7.1	8.5	20	26	280	24	9	9	26
27	44	35	40	-1	31	25	0		0	0	0	29.89	11	7.2	9.2	17	14	802	67	10	10	27
28	58	36	47	6	34	18	0		0	0	0	29.79	10	14.1	15.0	20	11	944	79	9	9	28
29	65	46	56*	15	40	9	0		0	.04	0	29.69	07	6.2	8.3	17	02	838	70	8	9	29
30	55	45	50	8	44	15	0	1	0	.04	0	29.70	11	6.5	12.8	21	13	918	76	9	9	30
31	56	45	51	9	44	14	0	1	0	.22	0	29.58	13	6.9	9.8	20	12	0	0	10	10	31
	SUM 1604	SUM 1113	—	—	—	TOTAL 648	TOTAL 0	NUMBER OF DAYS		TOTAL .51	TOTAL 1.5	FOR THE MONTH: 29.82	06	2.3	9.2	22	25	TOTAL 23580	% FOR POSSIBLE 68	SUM 200	SUM 199
	AVG. 51.7	AVG. 35.9	AVG. 43.8	DEP. 8.1	AVG. 29	DEP. -288	DEP. 0	PRECIPITATION > .01 INCH 6		DEP. -0.03	—	—	—	—	—	DATE: 25		POSSIBLE 34652	NORTH	AVG. 6.5	AVG. 6.4

NUMBER OF DAYS				SEASON TO DATE TOTAL	SEASON TO DATE TOTAL											
MAXIMUM TEMP.		MINIMUM TEMP.				SNOW, ICE PELLETS > 1.0 INCH 1	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE						
≥ 90°	≤ 32°	≤ 32°	≤ 0°	12180	0	THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS								
				DEP.	DEP.	HEAVY FOG 1	.24	30-31	1.1	1		3	1			
0	0	11	0	-1560	0	CLEAR 7 PARTLY CLOUDY 7 CLOUDY 17										

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T 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 7 OR MORE OBSERVATIONS AT 3-HOUR 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

L. Ray Hoxit
ACTING DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

OBSERVATIONS AT 3-HOUR INTERVALS

MAY 1983 26617
NOME, ALASKA

HOUR (L.S.)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					DAY 01						
01	10	31	7			37	34	29	73	08	18
04	10	15	2		SF	36	34	30	79	10	12
07	10	5	1	8	SF	36	34	30	79	08	11
10	10	7	1	8	SF	36	35	33	89	09	12
13	10	5	1	12	SF	37	35	33	85	12	12
16	10	5	1	12	LSF	34	34	32	92	07	8
19	10	3	0	8	LF	34	34	33	96	09	5
22	10	4	0	8	F	33	32	32	96	09	4
					DAY 04						
01	10	2	1	8	SF	34	32	29	82	15	4
04	10	3	1	8	SF	32	31	28	85	10	3
07	10	4	2		SF	32	30	27	82	17	5
10	10	6	5		S	32	30	27	82	17	7
13	10	6	7			32	30	26	79	14	10
16	10	13	20			33	30	25	72	14	6
19	10	14	20			34	31	26	73	12	5
22	10	15	20			33	30	25	72	29	5
					DAY 07						
01	0	UNL	20			28	26	21	75	36	5
04	0	UNL	35			25	23	17	72	33	2
07	0	UNL	35			33	30	24	70	32	4
10	0	UNL	35			40	36	29	65	14	3
13	0	UNL	35			42	38	31	65	25	7
16	0	UNL	50			44	37	27	51	29	7
19	0	UNL	50			44	37	27	51	36	6
22	0	UNL	35			35	31	23	62	33	6
					DAY 10						
01	8	70	35			47	39	28	48	07	14
04	3	UNL	35			43	37	29	58	04	9
07	0	UNL	35			51	42	29	43	05	12
10	8	UNL	35			55	44	29	37	09	13
13	10	UNL	35			56	44	29	36	09	13
16	5	UNL	50			57	45	29	34	10	7
19	6	100	50			55	45	32	42	05	7
22	8	95	35			51	42	29	43	05	11
					DAY 13						
01	0	UNL	15			41	35	24	51	01	8
04	1	UNL	15			44	36	24	45	01	8
07	1	UNL	35			54	42	27	35	36	7
10	2	UNL	50			59	46	30	33	11	10
13	0	UNL	50			55	44	29	37	13	8
16	0	UNL	50			56	44	30	37	24	5
19	2	UNL	50			55	45	32	42	32	5
22	3	UNL	35			47	40	30	52	35	5
					DAY 16						
01	9	200	35			55	43	26	33	04	17
04	8	70	35			55	43	26	33	04	16
07	4	UNL	35			58	45	27	31	04	15
10	8	UNL	50			64	48	29	27	05	17
13	9	UNL	50			64	48	30	28	05	14
16	4	UNL	35			66	49	30	26	03	18
19	0	UNL	35			62	48	31	31	02	11
22	0	UNL	35			51	42	29	43	04	12

HOUR (L.S.)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					DAY 02						
01	10	10	5		F	32	32	32	100	00	0
04	10	50	15			34	33	30	85	28	5
07	10	60	15			37	35	32	82	27	4
10	10	UNL	20			39	37	35	86	25	3
13	10	UNL	20			40	37	33	76	17	4
16	10	40	20		L	38	36	32	79	26	6
19	10	60	10			39	36	31	73	32	3
22	10	28	7		R	36	34	31	82	31	4
					DAY 05						
01	10	60	10			31	29	25	78	28	7
04	10	38	35			29	28	26	89	34	3
07	7	UNL	35			30	29	26	85	32	2
10	10	60	35			36	34	31	82	26	6
13	10	80	30			41	39	35	79	29	7
16	9	90	30			43	39	33	68	33	5
19	10	50	35			39	35	29	67	36	14
22	10	50	20			35	31	26	70	36	12
					DAY 08						
01	0	UNL	35			37	31	21	52	35	7
04	1	UNL	35			34	30	21	59	01	5
07	0	UNL	35			43	36	26	51	00	0
10	0	UNL	35			48	38	23	37	10	7
13	0	UNL	35			49	40	30	50	13	6
16	0	UNL	35			48	39	26	42	32	6
19	0	UNL	50			49	40	29	48	35	4
22	0	UNL	35			40	34	24	53	35	9
					DAY 11						
01	2	UNL	35			45	38	27	49	07	10
04	2	UNL	35			44	37	27	51	08	12
07	0	UNL	35			50	41	29	44	07	9
10	0	UNL	35			53	42	27	37	09	10
13	0	UNL	35			55	45	32	42	11	10
16	2	UNL	35			52	44	34	50	15	6
19	1	UNL	35			52	43	33	49	26	4
22	0	UNL	35			42	37	29	60	01	7
					DAY 14						
01	3	UNL	15			42	36	26	53	34	5
04	0	UNL	35			45	37	25	46	36	7
07	0	UNL	35			55	42	23	29	35	6
10	0	UNL	50			54	43	29	38	23	7
13	0	UNL	50			55	44	30	39	24	7
16	0	UNL	35			57	44	26	30	28	7
19	0	UNL	35			56	44	28	34	35	8
22	0	UNL	35			47	39	27	46	36	7
					DAY 17						
01	0	UNL	35			46	37	23	48	04	7
04	0	UNL	35			48	38	21	34	02	11
07	0	UNL	35			54	41	22	29	36	8
10	0	UNL	35			59	44	23	25	05	6
13	0	UNL	35			57	43	25	29	21	7
16	0	UNL	35			56	43	26	32	25	7
19	0	UNL	35			58	43	22	25	06	9
22	0	UNL	35			47	38	23	39	06	8

HOUR (L.S.)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					DAY 03						
01	10	34	7		L	35	33	30	82	28	6
04	10	16	7		S	35	33	29	79	27	6
07	10	20	3		SF	35	33	30	82	27	7
10	10	2	4		S	37	35	31	79	28	4
13	10	13	7		R	39	37	33	79	27	2
16	10	3	7		R	37	35	32	82	28	5
19	10	30	7			36	34	30	79	26	8
22	10	2	7		S	34	32	29	82	00	0
					DAY 06						
01	10	50	20			33	32	29	85	36	11
04	3	UNL	35			31	29	24	75	36	8
07	1	UNL	35			35	33	29	79	35	8
10	3	UNL	35			42	39	36	79	18	6
13	0	UNL	35			42	37	31	65	18	5
16	0	UNL	35			38	34	29	70	15	4
19	0	UNL	35			37	33	26	65	36	4
22	0	UNL	35			29	27	22	75	28	4
					DAY 09						
01	6	70	35			42	35	23	47	36	7
04	0	UNL	35			41	34	22	47	35	9
07	8	UNL	35			49	39	24	38	03	14
10	10	UNL	35			52	41	27	38	03	15
13	10	UNL	35			54	43	29	38	05	12
16	10	180	35			53	43	30	41	06	13
19	10	140	35			50	41	30	46	05	13
22	10	200	20			48	40	28	46	06	10
					DAY 12						
01	4	UNL	15			45	38	29	54	31	4
04	2	UNL	15			51	41	26	38	02	7
07	10	UNL	35			55	43	26	33	01	8
10	10	UNL	35			55	42	23	29	12	13
13	0	UNL	35			54	42	25	33	13	12
16	0	UNL	35			54	41	22	29	15	8
19	0	UNL	35			56	42	22	27	03	3
22	0	UNL	35			43	37	27	53	02	6
					DAY 15						
01	2	UNL	35			48	39	27	44	01	8
04	4	UNL	35			41	37	30	65	12	2
07	9	90	35			55	43	28	36	05	6
10	6	70	35			51	43	32	48	15	7
13	6	UNL	50			52	43	31	45	15	6
16	0	UNL	35			54	44	31	42	22	5
19	8	UNL	35			54	45	34	47	00	0
22	9	UNL	35			54	43	29	38	05	13
					DAY 18						
01	0	UNL	35			40	33	21	47	35	6
04	6	UNL	35			42	34	20	41	36	7
07	9	UNL	35			52	39	18	26	15	5
10	10	UNL	35			48	40	30	50	24	8
13	10	UNL	35			50	40	27	41	23	10
16	3	UNL	35			49	39	24	38	26	15
19	5	UNL	35			46	39	28	50	27	13
22	3	UNL	35			40	35	27	60	29	5

WEATHER CODES

*	TORNADO	ZL	FREEZING DRIZZLE	IPW	ICE PELLET SHOWERS	BN	BLOWING SAND
T	THUNDERSTORM	S	SNOW	A	HAIL	BS	BLOWING SNOW
Q	SQUALL	SW	SNOW SHOWERS	F	FOG	BY	BLOWING SPRAY
R	RAIN	SG	SNOW GRAINS	IF	ICE FOG	K	SMOKE
RW	RAIN SHOWERS	SP	SNOW PELLETS	GF	GROUND FOG	H	HAZE
ZR	FREEZING RAIN	IC	ICE CRYSTALS	BD	BLOWING DUST	D	DUST
L	DRIZZLE	IP	ICE PELLETS				

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

MAY 1983 26617
NOME, ALASKA

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					DAY 19						
01	1	UNL	35			33	30	23	67	27	4
04	0	UNL	35			33	30	23	67	01	3
07	2	UNL	50			42	36	28	58	19	4
10	6	UNL	50			46	39	29	52	23	6
13	5	UNL	50			45	40	33	63	24	7
16	1	UNL	35			46	41	34	63	21	6
19	9	200	35			51	41	26	38	01	10
22	10	UNL	35			39	33	22	51	36	7
					DAY 20						
01	10	UNL	35			34	29	20	57	33	7
04	10	UNL	35			31	25	11	43	03	10
07	8	UNL	50			36	27	07	30	05	11
10	4	UNL	50			40	31	12	32	08	13
13	9	UNL	50			46	34	11	24	07	13
16	10	200	35			45	34	15	30	11	10
19	10	120	15			44	34	15	31	06	8
22	10	200	15			40	32	15	36	04	14
					DAY 21						
01	10	200	15			40	32	15	36	05	7
04	10	200	35			40	31	14	35	03	8
07	10	200	35			44	33	13	28	03	10
10	10	43	35			49	37	16	27	13	8
13	10	38	35			48	36	15	27	13	11
16	10	38	35			48	37	18	30	15	4
19	10	80	35			50	37	13	23	23	4
22	9	42	35			45	36	20	37	10	3
					DAY 22						
01	10	30	15			43	35	22	43	01	5
04	10	30	15			49	40	28	44	07	4
07	9	70	15			54	43	29	38	06	10
10	10	70	25			54	43	29	38	15	6
13	10	80	25			48	39	26	42	14	10
16	8	50	35			47	42	35	63	20	5
19	10	50	35			44	40	35	71	27	7
22	10	55	35			51	39	22	32	34	4
					DAY 23						
01	10	60	15			46	38	26	46	03	5
04	10	34	15			45	40	32	60	16	3
07	10	38	15			47	41	34	61	16	3
10	10	40	35			52	44	35	52	19	7
13	9	40	35			51	42	31	46	24	11
16	2	UNL	35			48	43	38	68	24	8
19	7	UNL	35			45	43	40	83	24	7
22	10	UNL	35			44	39	32	63	00	0
					DAY 24						
01	6	UNL	15			37	36	33	85	00	0
04	10	UNL	15			40	37	31	70	00	0
07	9	UNL	15			44	42	39	82	14	3
10	10	UNL	35			45	42	39	80	16	11
13	7	UNL	35			47	42	36	66	21	7
16	10	UNL	35			43	40	36	76	26	18
19	10	200	35			39	36	32	76	27	14
22	3	UNL	35			33	30	24	70	27	13
					DAY 25						
01	2	UNL	15			30	28	22	72	27	12
04	3	UNL	15			30	29	26	85	28	6
07	6	200	15			37	32	24	59	26	8
10	10	60	35			39	35	29	67	27	8
13	10	UNL	35			40	37	33	76	27	13
16	8	42	35			39	37	34	82	25	19
19	5	UNL	35			42	38	32	68	26	12
22	1	UNL	35			34	31	26	73	29	5
					DAY 26						
01	1	UNL	35			30	28	23	75	14	3
04	7	200	35			32	30	26	79	00	0
07	10	200	25			36	34	31	82	00	0
10	10	55	35			40	36	31	70	27	10
13	10	29	25			39	35	29	67	27	14
16	10	50	35			40	37	33	76	26	17
19	10	50	35			38	36	33	82	25	12
22	10	31	35			38	36	33	82	03	3
					DAY 27						
01	10	32	35			35	34	32	89	05	6
04	10	34	35			36	33	29	76	05	4
07	10	16	35			37	33	27	67	07	6
10	10	18	20			38	34	28	67	12	9
13	10	24	35			40	37	32	73	14	15
16	10	200	35			44	41	37	76	16	8
19	10	200	30			43	39	34	71	15	8
22	10	200	30			36	33	28	73	08	8
					DAY 28						
01	8	200	30			38	35	30	73	08	8
04	10	120	30			40	35	27	60	11	10
07	10	200	30			45	40	33	63	12	15
10	10	200	35			50	45	40	69	12	16
13	10	200	35			52	46	40	64	11	15
16	10	UNL	35			58	46	32	37	11	12
19	2	UNL	35			57	46	34	42	08	14
22	8	60	15			51	43	33	50	07	14
					DAY 29						
01	10	60	35			48	42	34	59	07	3
04	10	80	35			53	44	33	47	06	8
07	10	80	35			57	47	35	44	08	10
10	8	80	35			63	52	41	45	02	3
13	3	UNL	35			56	48	40	55	14	10
16	9	200	35			64	54	45	50	16	4
19	10	50	15		RW	63	52	43	48	04	15
22	10	40	10			50	48	47	89	04	5
					DAY 30						
01	10	60	20			49	47	45	86	09	13
04	9	31	20			48	47	45	89	07	12
07	10	31	35			49	47	45	86	09	15
10	10	26	35			49	46	43	80	11	17
13	10	3	4		F	50	50	49	96	00	0
16	9	UNL	35			55	49	43	64	17	14
19	7	UNL	15			53	48	43	69	25	11
22	10	60	15			52	47	42	69	32	7
					DAY 31						
01	10	43	10		R	49	48	47	93	30	5
04	10	31	7		R	50	48	46	86	26	3
07	10	22	15		R	50	48	47	89	24	3
10	10	13	15			53	48	44	72	13	11
13	10	16	10			49	45	41	74	13	13
16	10	5	5		F	48	46	43	83	11	10
19	10	17	7			49	45	41	74	12	10
22	10	UNL	10			48	44	39	71	14	13

NOME ALASKA 83 05

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES: SKY COVER (TENTHS)	AVERAGES: STATION PRESSURE (INCHES)	AVERAGES: TEMPERATURE AIR TEMP °F	AVERAGES: TEMPERATURE WET BULB °F	AVERAGES: TEMPERATURE DEW POINT °F	AVERAGES: REL HUMIDITY %	AVERAGES: WIND SPEED (MPH)	RESULTANT WIND: DIRECTION	RESULTANT WIND: SPEED (MPH)
01	6	29.83	40	35	27	64	8.2	03	4.7
04	6	29.83	40	35	27	62	7.5	03	4.9
07	7	29.83	45	38	28	56	8.5	05	4.5
10	7	29.83	48	40	30	55	10.4	12	5.1
13	7	29.83	48	41	31	55	10.8	15	4.7
16	6	29.82	48	41	31	55	10.1	21	2.7
19	6	29.81	48	40	30	56	9.4	35	2.6
22	6	29.82	42	37	28	60	8.3	02	4.9

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES) MAY 1983 NOME, ALASKA 26617

DATE	A.M. HOUR ENDING AT 1	2	3	4	5	6	7	8	9	10	11	12	P.M. HOUR ENDING AT 1	2	3	4	5	6	7	8	9	10	11	12	DATE
1	T						.06						.06						.03						1
2	T																		T						2
3	T						.01						.01						T						3
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30	.04												.03												30
31	.04						.17						T						.02						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.

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Appendix IV

April 27, 1983 - Temp. 32 in the morning, cloudy and rain.

May 4, 1983 - Went for a ride with Scott on Teller Road and Cape Nome, saw one boat hunting.

May 5, 1983 - Temp. 34 at 4:30 a.m., dropping to 30 by 6:00 a.m. Clearing and sunshine.

May 7, 1983 - Went hunting with Mike Saclamanna, shot one baby Ringed seal.

May 9, 1983 - See Cranes today.

May 11, 1983 - Hunt with Mike, caught 11 Walrus', 8♀ and 3♂.

May 13, 1983 - Hunt with Mike again, got 21 Walrus both male and female, lost one Oogruk. Matthew Tiulanna's got 52 or 62 Walrus, mostly♀.

May 16, 1983 - Pick up my truck from Woolley with Scott.

May 20, 1983 - Frank Ellanna brought his oomiak to Woolley. Go to Woolley with my family arrive 7:10 p.m. Winds North, temp. 36. Al Pikonganna's boat is here also with 2 ~~a~~ 25-35 Evinrude.

May 21, 1983 - Temp. 34, cloudy, winds N.W. becoming West by noon. Frank decides to go out. Ice can be seen S.W. about 10 miles, wehead for it at 2:10 p.m., arrive on the ice in one hour. There was nothing, it was Norton Sound ice. Head to King Island for an hour then stop. Frank decides to go to Cape Douglas to hunt seals. They shot one Ringed seal and it sink. Lincoln Milligrock stopped at Cape Douglas, they followed the shore ice to the North. I see sign of ice toward King Island in 15 minutes. They see the ice mirage. I read old Frank's mind that it would be dark by the time we reached the ice. Old King Island hunters hunt early in the morning and come home in the evening, they are in a rush to go hunting. Here on the mainland the people are slow. We went back to our camp, arrived at 7:35 p.m. Frank has 2 motors, a 35 Johnson and Evinrude with a used one like the old timers about 10 m.p.h. Mike and Earl Mayac saw Walrus' in the water.

May 22, 1983 - East winds at 5 m.p.h, cloudy, temp. in the morning was 42. Winds becoming N.E. by noon to 20. My brother Gabe, Scott, John Pullock and Mike came by boat and a 50 Johnson and 35 Evinrude. They all went back to Nome by evening.

May 23, 1983 - Cloudy, N. wind at 20, clearing by noon. Frank Ellanna and Al Pikonganna came and stayed overnight.

May 24, 1983 - Clear temp. 32, winds N. 20 m.p.h. Al wants to tow Franks oomiak if winds permit New ice is running in the lagoon. It was cold last night. Winds become N.W. at 30, becoming cloudy. Dan Angusuc told me that Ray Penetac with his crew of Jimmy Carlisle, Wilfred Anowlic, Stanley Penetac and my son Harold were hunting since Friday night or Saturday. He thought they might have went to King Island. Frank and Al's crew went fishing at Feather River bridge for trout. Dan Angusuc caught 3 Trouts from Feather River this morning. Go to Nome, arrive 4:45 p.m.

May 25, 1983 - Harold came home at 4:20 a.m. from King Is. He said there was ice south of the Island about 10 miles long and North of the Is. The North wind blow the ice out. They say they saw one Walrus swimming towards King Is and one Walrus swimming on their way to Nome.
Go to Woolley with my son Harold with a load, arrive 7:10 p.m. Paul Tiulanna, his wife Clara and his son Tommy were at the camp.

May 26, 1983 - Cloudy, winds N.W. at 15. Ready to go back to Nome for my family. John Pullock

May 26 cont. brought his boat.

May 27, 1983 - Cloudy, winds N.W. 20. We had visitors today, more hunters who brought in gas. Winds calm down by evening. King Island looks beautiful.

May 28, 1983 - Cloudy and calm when I look out the window. The Island look very good. Looks like we'll go out today. John Pullock and Tiulanna's went up the road to look out. Mike wants to go to so my wife and Margaret went with them. We look from Teller Road then went to Teller. We went back to camp then went out together by 9:45 p.m. and head toward King Island. Half an hour later we changed course to Cape Whaler a half mile run then stop. Paul didn't want to go to King Island. We start out then Tiulanna's follow , arrive King Island at 11:55 p.m. Round below the village then went to the North side and have lunch on the shore ice. Some went to sleep for an hour. We saw ice S.W. of the Island about 15miles. Run back to the village and unload. Paul decide to go back. They run away from us without helping us.

May 29, 1983 - Cloudy, winds N.E. at 10. Paul's boat came back from Woolley lagoon, arrived early in the morning. We left Paul behind, they brought sleeping bags and grub this time. Ice S.W. of the Island about 15 miles and coming in. We saw Walrus on the ice go out this morning. Mike, my son Eddie and Charles Kokuluk, Justin, Matt and Tommy Tiulanna, David and John Pullock first kill 12 Walrus, 3♀, next kill was 10 Walrus, 4♀. North winds picking up to 20. We were about 8 miles S.W.of the Island, going back to the Island which hide the wind, we had to put on rain gear. Arriving the Island, Frank Ellanna had been there while we were hunting. I was tired, I had only 2 hours of sleep so I went to bed at 10:00 p.m.

May 30, 1983 - Partly cloudy, winds N at 8. Al Pikonganna's boat arrive. The ice we were hunting on part the Island, we see more ice S.W about 15-20 miles. Lots of ice West to N.W. of the Island. We did not hunt today, we rest and sleep, decide to hunt in the morning.

May 31, 1983 - Cloudy and rain, winds N. at 15 increasing to 25, lots of work on me and my dad's house. Time went by fast today.

June 1, 1983 - Cloudy and drizzle, winds S.W. at 10 m.ph., visibilty zero at 3:00 a.m. but increasing to 15 miles by 7:00 a.m. The ice was S.W. of the Is. about 8 miles and there was some Walrus. All four boats were ready to go out by 8:40 but Tiulanna's 55 h.p. motor couldn't start. Al and Frank start out N.W. of the Island. Mike's boat waited for Tiulanna's, winds becoming S.E. at 10 m.p.h. by 10:00. Mike decided to tow Tiulanna's to Woolley, they start at 10:55 a.m. and arrive Woolley at 2:15 p.m. After we rest we got ready to go to Nome. My truck would not start, we were out of grub, cigarettes and Blazo. Al Pikonganna arrive at about 6:00 p.m., he told a funny story. Al and Frank were hunting together, the first kill Frank got 2♀ for meat, Al did not like that and took off to hunt more. Al saw Frank's oomiak heading North. Mike gave me gas to make it to Nome and tow me to start, arrive Nome 8:50 p.m. Lots of ice was coming to King Island.

June 2, 1983 - We went shopping then went back to Woolley. Frank's boat been land near Port Clarence area then come to Woolley. They brought one walrus hide with them. They got about 22 Walrus, 2♀.

June 3, 1983 - Cloudy, winds S.W. at 25. Go to Nome in the morning. Fog and frost all over the ground, arrive Nome 8:40 a.m. Come back to Woolley with my brother Alex, arrive 1:10 p.m.

June 4, 1983 - Cloudy, windy, temp. 38 at 5:15 a.m. Saw Frank today, he said they got 10 Walrus, 8♂ and 2♀. He took one skin for his oomiak. His wife split

June 4, cont. - the hide today.

June 5, 1983 - Cloudy, winds South at 15.

June 6, 1983 - Cloudy, winds S.E. at 10, visibility is clearing. Saw ice about 10 miles S.E. and it is coming. Frank and Paul went out about 10:00 a.m. and came home about 4:35 p.m. Paul's grandson Charles got his first Oogruk.

June 7, 1983 - Calm and fog, visibility increasing. Clear by 7:00. Northwest wind coming. Frank, Paul and John Pullock go out about 10:00 but the wind increase to 25. They just come home by 3:15 p.m. John use one 50 h.p. Johnson motor to go to Nome for more grub and Blazo, he return by 11:20 p.m.

June 8, 1983 - Clear, wind N.W. at 20, temp. 38 by 4:20 a.m. Francis Alvanna's boat finally arrive in the morning. Mike Saclamanna wants to go to Cape Douglas and up. He see the ice yesturday from Teller Road. We leave about 10:00 a.m., we stop at the mound cabins between Cape Douglas and Pt. Spencer. The ice is about 10 miles S.W. but the winds are N.W . at 20. We wait for 3 hours and go back to Woolley, arrive 11:10 p.m.

June 9, 1983 - Partly cloudy, temp. 32, winds N.W at 20.

June 10, 1983 - Clear, winds N.W. at 20. Boys got some Trout today.

June 11, 1983 - Clear, winds N.E. at 15. I see over 20 Grey Whales today. Paul, John and Frank go out today about 10:00 a.m., see the ice mirage S.E. Mike and Francis go to Nome the other day. Ray Penetac's boat arrive from Nome, Gabe Payenna arrived by car later. They were out by 2:00 p.m. Stanley Penetac told me they saw 12 Moose coming this way from Nome. John and Paul were back to Woolley by 10:00 p.m. They got about 48 - 50 Walrus, males and females. Paul brought one skin for a boat. They killed one female with an unborn calf. Gabe Payenna and Francis arrive while I was sleeping. They got about 20-25 walrus. Look like Dickson's boat go by about 10:30 a.m. heading north of Cape Douglas, came back same evening. Frank Ellanna got 32 Walrus.

June 12,1983 - Clear, winds N.E. at 15, temp. 50 at 5:00 a.m., winds becoming West and fog coming fromwest. Lots of ice S.E., winds shifting to N.W. at 20 by evening.

June 13, 1983 - Clear, winds west becoming N.W. at 25.

June 14, 1983 - Partly cloudy, winds N.W. at 25. Go to Nome, arrive 12:35 p.m. Winds 30-40 in Nome.

June 15, 1983 - Clear, winds west at 15. In Nome winds west at 30.

June 16, 1983 - Calm, fog and light rain becoming N.W. and clearing. Go to Woolley, arrive 8:40

June 17, 1983 - Cloudy, winds N. at 8 and increasing.

June 18, 1983 - Fog, drizzle and rain. Wind S. at 8 , becoming N.W. by evening.

June 19, 1983 - Fog and clearing, winds N.W. at 15 and increasing. My brother Gabriel arrive with his boat by evening. Now there are boats ready to go to King Island.

June 20, 1983 - Clear, wind N.W. at 15 and dying. Looks like today is the day. We leave Woolle at 9:30 a.m. and arrive at the Island 11:27 a.m. The shore ice is gone, no walrus but a dead whale on the rocks just west of the village. The bottom is good muktuk, we tow it to the east side of the Island and cut it up until 11:40 We saw a Grey whale jump.

June 21, 1983 - John Pullock, Tiulanna, Francis Alvanna and my brother Gabe go back to Woolley Mike Saclamanna and Gabe Payenna arrive about 12:30 a.m.

June 22, 1983 - Partly cloudy, winds N. at 10 and increasing to 35. Whale gone out S.W.

June 23, 1983 - Cloudy, north wind at 30. Boys see one walrus in the water on the north side of the Island. Winds decreasing to 10 by 6:00 p.m.

June 24, 1983 - Partly cloudy, light rain, wind north at 10 and decreasing to 5. See ice S.W. about 18 miles and coming. Two boats arrive about 5:00 a.m. My brother Gabe and Alvanna's go egg hunting, they picked lots of eggs and saw one seal living on the rocks.

June 25, 1983 - Clear, very light North wind. Ice S.W. about 15 miles and it's going mostly east. See more ice south of the Island about 20 miles. Mirage tell's us some walrus are on it. The boy's see 5 walrus in the water east of the Is. I have been working underneath the church for 2 days, the boy's help me today thanks to them. Then we let the store's gas and oil werehouse roll down, it was fun. They see 5 walrus in the water east of the Island.

June 26, 1983 - Cloudy, wind N.E. at 15 increasing to 25 and rain.

June 27, 1983 - Cloudy, north wind at 15.

June 28, 1983 - Cloudy, north wind at 25. They see one walrus in the water beneath the village.

June 29, 1983 - Cloudy and rain, N. wind at 20. We see 8 to 10 walrus in the water.

June 30, 1983 - Cloudy and some fog, N. winds at 10 and decreasing. See more walrus in the water, about 18-20 today. We went boating with my brothers boat, shot one Sea Lion on the rocks but lost it in the water. Shot one big bull walrus in the water and bring it home, saved the meat to use on the Island. Mike, Gabe Payenna and Frank go to Woolley at 5:00 p.m.

July 1, 1983 - Cloudy, winds light from the south and fog coming. Visibility become zero. Walrus are coming in. We talk on the C.B. to Woolley daily and the radio reception is very good. My brother contact Hawaii on Channel 16. We repair some old houses and my brother-in-law John Penetac found 2 eggs in his old house yesturday. See about 20 walrus in the water today.

July 2, 1983 - Partly cloudy, west winds at 10. We hunt with my brothers boat and shot 2 bull walrus on the rocks.

July 3, 1983 - Clear and calm. We go picnic on the back side of the Island with my brothers boat, we had to make two trips. It was a beautiful day. Thousands of birds flying and 40 or 50 walrus swimming in the water. Half of us climb and pick greens.

July 4, 1983 - Cloudy, wind south at 8. It was a beautiful 4 of July, see more walrus in the water.

July 5, 1983 - Partly cloudy, calm and it is beautiful. My brother Gabe decides to go to Woolley for grub and bring the kids back to Nome. Francis boat also go with him. Bellarmine Alvanna got hurt yesturday while working on the house. He has to see the doctor. I climb with a little C.B. and talk to my brother all the way to Woolley. I talk to Paul Tiulanna at the Woolley camp. They leave King Island at 1:00 p.m. and arrive Woolley at 3:35 p.m. See one walrus on the rocks on the north side of the Island and some in the water. My wife and kids also.

July 6, 1983 - Partly cloudy, N.E. winds at 15.

July 7, 1983 - My brother Gabe and Alvanna's come back. Partly cloudy, north wind at 20. See more swimming walrus in the Bering Sea.

July 8, 1983 - Partly cloudy, N.W. wind at 35. Thirty-three male walrus been haul on the rocks just around the corner and lots more on the other side.

July 9, 1983 - Cloudy and fog cover the Island. Northwest wind at 35-40. We would like to hunt but it is too windy with a boat so we walk on the side of the Island westward to hunt. We kill 26 walrus, lost one in the water.

July 10, 1983 - Partly cloudy, fogcover the Island, N.W. wind at 35.

July 11, 1983 - Partly cloudy, wind north at 5. We use two boats to hunt, we kill 34 walrus, all males. We went around the Island, no more walrus. R/V Alpha Helix came around 6:00 p.m. We visit the ship and they visit the Island, they loved it, it is a paradise.

July 12, 1983 - Partly cloudy and fog on the side of the Island. Winds north at 20. Hunt today with two same boats. We got 5 male walrus this time.

July 13, 1983 - Cloudy, North winds at 5. R/V Alpha Helix came back and trolling and bottom grub around the Island.

July 14, 1983 - Cloudy and srizzle, S.W. winds at 15 becoming south at 20.

July 15, 1983 - Cloudy and drizzle, south wind at 25, visibility ¼ mile. See 5 walrus in the water.

July 16, 1983 - Cloudy, N.E. winds at 10 becoming east at 20 and decreasing to 5 by evening. we might go tonight. We try to put an aluminum boat in the water, S.E. swells come in and fill the boat with 200 gallons of Bering Sea water, when it got stuck on the rocks. Now I remember our dear old skin boats. We decide to wait out the swells.

July 17, 1983 - Partly cloudy, north winds at 15 and fog cover the Island, clearing by the afternoon and winds decreasing to 8. Got ready to go to Woolley, the S.E. swells gave us a hard time. Leave the Island at 7:40 p.m., arrive Woolley at 10:20 p.m. We run with the slowest boat to Cape Douglas then kick it to Woolley.

July 18, 1983 - At Woolley, ready to go to dirty Nome, arrive 7:30 p.m. Alvanna and Tiulanna's boat plan to go back to the Island, maybe I will too.

July 19, 1983 I will go back to Woolley now
I'll write again. have good summer.

Edward S. Mathegak

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