Greenland Journal III.

(~~Battinder~~)

J. L. FAIRBANKS & CO.
STATIONERS
15 Franklin St., Boston
No. 115

E. O. Hovey -
Am. Mus. Nat. Hist. -
W. 77th St. & C. P. W. -
New York.

Greenland Journal. III.

Beaufort Nos.	Wind Kind	Veloc. mi per hour	Ft per sec.	Beaufort scale
0	Calm	0	0-2	
1	Light air	2	2-5	Light breeze
2	Light breze	5	6-11	
3	Gentle "	10	12-18	
4	Moderate "	15	19-27	Moderate "
5	Fresh "	21	28-36	
6	Strong "	27	37-46	Strong wind
7	High wind	35	47-56	
8	Gale	42	57-68	Gale
9	Strong gale	50	69-80	
10	Whole "	59	81-93	Storm
11	Storm	68	94-110	
12	Hurricane	75+	111+	Hurricane -

B - Blue sky
C - Clouds (detached)
D - Drizzling rain
E. Wet without rain
F. Foggy
G. Gloomy
H. Hail
L. Lightning
M. Misty
O. Overcast

P. Passing showers
Q. Squally
R. Rain
S. Snow
T. Thunder
U. Ugly (threatening)
V. Visibility high
W. Dew
Z. Haze

Fog - 0, none; 1, light, 2, 3, moderate; 4, 5, heavy

Dots under a letter are for emphasis
R = heavy rain
R̤ = very " "

Figures before letter mean hours. V duration
4R = 4 hrs rain

Fog 0 none

14 February. Monday.

Overcast and somewhat thick, though moon is visible at 1 p.m. Bad weather on the ice off. S. or S.E. wind continues to blow. Is moderate at ship but cold.

Temp. min. -11°; 9a. -10°; noon -8°; 3 p. -10½°

Crown of 1st molar, which became loose yesterday, was taken off and re-cemented in place by Dr. Hunt to-day. He has practiced dentistry more frequently than medicine up here. Chief surgical and medical cases among members of staff have been Tanquary's broken arm, Green's illness, ~~and~~ Allen's congested kidneys, Ekblaw's frozen foot and Tanquary's frozen toes. He (Dr. H.) has been very serviceable to the Eskimos and now is to the crew of the "Chuett" and to me.

This afternoon Ekblaw and I took

a 3+ mile walk on land, visiting a snowdrift glacier in a valley N.E. of the igloo. Snow cornice beautiful with its drapery of heavy curtains in rows parallel to the vertical surface of the ice front. A "drop fault" in the ice has made a pretty grotto 25 to 30 feet deep from front to back, 6 or 8 feet high, with wedge shaped ceiling coated with festoons of frost due to congelation of vapor rising from broad, deep crack in the floor.

Exceptionally broad, sharply defined halo of large diameter around the moon this evening. Wind has almost died out and we hope now for better weather.

15 February. Tuesday.

Clear except for low haze along horizon. Sun's rays hit highest peaks. Temp. - min -19°; 9a -19°; 11 (?) - 21°

1 p. -18°; 3 p. -18°. Calm or nearly so. 3

Out with Dr. Hunt and Pudtlak to seal blow-hole in the ice two+miles from "Cluett". Pudtlak bent down at once & smelled of the hole to determine its freshness. I tested it and found it musky. The hole is about an inch across. Leaving Pudtlak to watch it, Dr. Hunt walked in one direction and I in another looking for a second hole. We zigzagged over a wide area, but without success. Dr.'s course lay toward the ship and he came in. Mine was outward and I walked 8 or 9 miles before getting back to the "Cluett". Pudtlak gave up watching the hole after an hour or so and went on out beyond Parker Snow Point looking for a lead beside which he might use his net for seal-

Left lower wisdom tooth began to 14
ache again and Dr. Hunt had to take
out the gutta percha filling and peng the
hole with oil of cloves. What a lot of mis-
ery a bad tooth can cause! and what a
relief the oil of cloves gives!

Dr. examined my heart on my
return from my 3 + hour walk and
said that it was acting better, seem-
ingly nearly normal, probably a re-
sult of the exercise equalizing the
circulation. Later I had an hour
or more of the distressed (oppressed) feeling in
my chest, but he said that it was
nothing serious. I wonder. At
any rate the feeling ceased when my
tooth stopped aching.

At 7:45 Sigdlu and Boseman
arrived from Umanak and
an hour (?) later Alakutsiak came

in. They had been held up by the open leads off Petowik glacier, which did not close until last night. Alakutsiak has only four dogs now, having lost two while he was away. He is as cheerful as ever and as fat as a seal from the abundance he has had to eat. He brought some meat for Pudlak and his family.

16 February. Wednesday.

Clear except toward horizon. Calm. Temp. min -21°; 9a. -18°; noon -18°

About 10:30 all three kamatiks began to start back to Umanak, Sigdlu leading with Ekblaw and most of his baggage. I had started out for my daily walk. They overtook me a half mile this side of the big gulch.

Ek jumped off for a final good bye to me. I hated to see him go, although I know full well the need of his departure. It is doubtful now whether he will be able to reach E-tah before Mac Millan leaves on his long trip. Ek reached the "Chief" early in the evening of 17 September, five months ago tomorrow, and I have found him a fine fellow and an inspiring companion.

Dr. Hunt has decided to remain on the ship, because, he says, I need him now for my tooth and am liable to need him on account of my heart. I don't like being an object of solicitude either to myself or to others.

This morning at ten o'clock the

chief started for Conical Rock on a wager of a blue fox skin each with the second mate that he could ~~not~~ make the round trip within five hours. He started off at a too rapid gait, taking French Ben as companion and toting Dr. Hunt's automatic as a precaution against meeting a bear. — At 1:45 the two returned, having turned the trick in $3\frac{3}{4}$ hours, which was excellent time. They encountered considerable thin ice near the island and were in danger more than once. Ben broke through with one foot and got his leg into the water above the knee. The chief earned his fox skins all right, and I for one was glad of his success.

17 February - Thursday.

Clear, almost cloudless, calm. Magnificent day, followed by cloudless, brilliant evening. Full moon. Venus and Jupiter a beautiful sight in the west. Temp. min -28°; 9a. -24°; noon -25° 6:30p. -25°

Chief put second band of brass around cabin stove, completely inclosing the fire pot. Efficiency of stove as a heater reduced, but the stove will not fall apart quite yet.

Out for six mile walk as far as gulch with chief who then turned back, we being then in the full sunlight. First time this year and it was fine to have it to enjoy again. I think that these Eskimos might be excusable if they were sun-worshipers, but they seem to be almost without religion of any

kind. Went out to next point, where I met Dr. Hunt and Mac Dougal returning from the cache near Cape Dudley Digges, Dr. was tumping in a ~~sixty~~ fifty pound box of prunes. It seemed to me like quite a load for a five mile carry, but Dr. said that it was "nothing". Once he carried a 130-pound deer carcass on his shoulders through the Maine woods. I wore my Kooletah in addition to my bear skin pants and found myself too warmly clothed for much walking. Better too warm than too cold, however, in my present condition.

Had first class hare-stew for dinner to-day – but nothing else except bread, biscuit, butter and tea. Standard breakfast continues to be oatmeal or cornmeal mush, beans, bread, butter, molasses and coffee.

The low rays of the sun pro-
duced a beautiful effect, shining
through the snow-ice crystals on the
bay ice and giving a broad band of
bright prismatic colors. One good
parhelion too was in the southwest.

18 February. Friday.

Slightly hazy overhead. Increasing-
ly cloudy from horizon. Southern clouds
threaten wind, but almost calm ~~at ship~~
all day in fjord. At 6 p.m. gale from
S.E. struck the ship and we are shiver-
ing this evening, although the tempera-
ture has risen considerably. air filled with flying snow.
Temp. min. -26°; 9a. -21°; noon -18°; 3p. -13°
Worked on Rasmussen letter for
some hours then went out alone
for a four-mile walk to base of nor-
thern branch Cleveland glacier and the

snow drift ridge glacier at the western end of the big nunatak. Fine snow cornice along the upper part of the ridge.

Sun was visible from ship's deck ~~at~~ and shortly before sunset at about 3 p.m. Was almost but not quite far enough north yesterday to be seen from the ship. The sunset colors were as brilliant and gorgeous as they were last October. Beautiful rose tint on high snow-covered mountain N.E. of bay.

Dr. Hunt examined Pudtlak's eyes as well as he could without instruments and thinks that there ~~be~~ may be some hope of helping him, if he is sent to Copenhagen. Trouble probably due to snow blindness and not to freezing of the eyeballs as Peter supposed.

Dr. Hunt applied electricity to Charlie this evening in the hope of helping him out of trouble.

Great excitement at 7:30 when Charlie came down, leaving the door of the canvas house open. We thought that the wind would carry the canvas away, before the mate could get the door shut. Charlie did not seem to have any idea of the danger to which he exposed us, though he had been told often enough to be careful to close the door after him when the wind was blowing.

19 February. Saturday.

Somewhat overcast and cloudy this morning, clearing overhead about noon, but heavy clouds near horizon and banks of fog

or low cloud on southern mts. 13

Temp. min −21°; 9a. +1°; 11a −4°
2:30 p. −10°

Last night's heavy gale blew itself out about 4 this morning and the day has been calm until this evening. About 7 p. m. S.E. wind began blowing strongly again.

Dr. Hunt and I walked out to Cape Dudley Digges and back — a good 10-mile tramp. Wind had blown away all the loose snow, hence the footing was almost perfect, & the weather being all that could be desired, the walk was very enjoyable. Petowik Glacier looked beautiful, with the sunlight touching its higher parts. Wostenholme Island & Cape Athol in the background. Dr. brought back

six cans of clam chowder for my use at the evening luncheons which he directed me to eat.

Cape Dudley Diggs is a hill of black hornblende gneiss, beautifully banded with white and pink feldspar and showing strong contortion. Thick transverse veins of quartz and feldspar are numerous. Saw considerable epidote.

Dr. says that Small was not a suitable cook for a party like the C.L.S. staff, being ignorant of the kind of food required, dirty in habits and as to his hands and prone to shirk the work anyhow. Jot was, however, always willing to put his mechanical ability at the disposition of the other members of the staff. Mac failed to regulate

the cooking business properly, 115
just as he failed to regulate other
important matters. Dr. says that
there was a lack of unanimity
in the ideas ~~&~~ or desires of the other
members of the staff and admits
that Mac might probably have been held
in check and some features of
the life and work of the Expedition
improved, had the staff got together
together and presented a united
determined front regarding
matters that were objectionable
in their eyes.

At 6 p.m., it was just seven
months since the "George B. Cluett"
cast off from ~~Morrison's~~ Ingraham's
wharf at Sydney and started on
this unfortunate and ill man-
aged voyage.

20 February. Sunday.

Somewhat overcast; calm in early morning; clear, strong S. wind (Easterly at ship) at noon.

Temp. min −16°; 9a. −13°; noon −3°

On board, blister on foot precluding long walk and keen wind making even a short one unwise. Finished my long letter to Rasmussen regarding arrangements with Peter for the southern trip.

Breezed up during evening.

Just a month this afternoon since my party started from Cape York leaving disconsolate me behind. I wonder where they are now.

21 February. Monday.

Thinly overcast morning with little or no wind. South

wind on ice cap sends an occasional keen gust against the ship.

Temp. min −11°; 9a +2°; noon −5°

Night was windy and the wind had the full force of a gale from 2 to 3 this morning, dying down afterward.

Dr. Hart's dinner yesterday gave him trouble last night, so he turned in again after breakfast and I walked out alone. Went over to front of Conway glacier, encountering some gusts of keen wind on the way. Interested in observing the process of polishing the vertical ice face by the wind-driven particles of icy snow. Concave slope of snow drift at base of ice and moraine is like the

lower slope and surface of the northern branch of the Cluett Glacier.
Dr. Hunt built a fire on the rocks near the ship from peat dug in the immediate vicinity. There is much peat in this region.

22 February. Tuesday.

Overcast. Heavy S.E. wind.

Temp. min −8°; 9a. +8°; noon +12°; 5p. +17°; 6p. +20°; 7p. +18°

Disagreeable day on account of the wind, which was very keen in spite of high temperature and was driving lots of snow before it across the surface of the bay ice. Taylor reports leads open around Conical Rock and Petowik Glacier. Good sunset.

On board all day, writing, talking + playing cards and chess.

23 February. Wednesday.

Extremely thick. Strong gale from S.E. with much thick fine snow. One of the worst storms that I have ever seen, a regular blizzard, cannot see 50 yards in any direction.

Comes up to my ideal of what an Arctic storm would be, except that the temperature is relatively high. Calm for a time last night.

Temp. min +8°; 9a. +17°; 5p. +5°

On board all day.

Pudlak and Inetliak are fortunate in having food and fuel again. He got a hare in a snare yesterday, so that the family had a feast last night and the two Eskimo lamp stoves were going on the seal fat brought down by Aldkutsiak last week. The igloo looked cheerful again last night with its window brightly lighted.

This evening even the captain admitted that the storm was a bad one, so we land lubbers think that our estimate of it is fairly correct.

24 February - Thursday.

Rather thick with lowlying fog but almost clear overhead, moderate wind, around ten o'clock. Overcast about noon and southeasterly wind blowing strongly out of the fjord.

Temp. min. -4°; 9a. -4°; noon -3°

Yesterday's severe storm lasted well into or nearly through the night. Considerable snow fell, but it drifted and blew away so badly that no estimate of amount can be formed. The drift ~~at~~ separated by a little distance from the ship is now half as high as the rail and the moat around the bow is quite a trench, being about two feet deep. This is to windward, while a ridge shaped drift comes into contact with the stern of the vessel.

Dr. Hunt & I went out for a short

walk, partly on the bay and 121
partly on shore. Wind was too high
to render it advisable to take the long
walk which we desired to take. I
staid out an hour after he came aboard
and I walked half way across the head
of the bay. Increasing wind caused my re-
turn early. Heavy black water fog
is in evidence close in, crossing
from Parker Snow Point to Cape
Dudley Digges. Mate Davis went
out a mile and climbed up the
cliff to where he could see open water
stretching across the bay from the
little cove inside of where the "Cluett"
moored, but he could not tell where
it struck this shore. We fear that
our three boxes on the ice (clam chow-
der, pears and apples) have been
carried out. Snow surface firm

even on the newly formed drifts, while 22
that of the old ones is like marble in
appearance and hardness.
Evening clear, less wind

25 February. Friday.

Beautiful day, clear, occasional light clouds. Little or no wind f. S.E. Temp. min -4°; 9a. -1°; 2p. -1°
Fine, clear evening, rising wind.

Dr. Hunt and I walked out to Black point 4 miles from ship, intending to visit our cache at Cape Dudley Digges. Open water clear up to the rock of the point and we could not get by. Taylor and Bay came in this evening saying that the Cape was completely surrounded by water, no boxes in sight. We think that the main part of our cache is all right, being upon

the rocks of the point. It would 123
be a calamity, if the material on
shore were to be carried away! The
boxes on the ice were 3/4 case clamchowder
1 case pears and 1 case apples.
The footing was bad, soft and
rough by turns, very little smooth & hard,
so that I am more
fatigued than at any previous time
since leaving Sydney last summer.

Captain Pickels and MacDougal went
out to edge of old ice near middle of
bay. Walrus came up in open water (thin
young ice) within short rifle range and
a seal poked its head up further away.

Mate saw sun at noon above south-
ern mountains. Says that he is sure
that it could have been seen yesterday
had the clouds not been too thick.

Am turning in at 9:20, too tired
for late hours this evening.

26 February. Saturday.

Clear, light thin clouds, black water fog in west & southwest. Strong N.E. wind. Temp. min. -4°; 9a. -2°; 11a. -3°. Ice 50".

Slept well last night, though it was almost too warm in my sleeping bag a part of the time. Water in room froze as usual. Captain Comer's little snow igloo beside the ship has been very useful during the past three months, but considerable snow drifted in during the recent big storm and no one has taken the trouble to go in with a shovel and clear it out. Wind wore the east side rather thin. Snow festooned itself in beautiful fashion on ceiling and walls.

A few days ago Dr. Hunt expressed the same opinion that some of the other men have voiced regarding Captain Kehoe of the "Erik", viz: that

MacMillan is altogether too severe upon him in his criticisms regarding his not getting to Cape Sabine. They think that ice conditions were such that Kehoe was justified in turning back when he did. The ship had some pretty hard knocks and narrow escapes and no supplies had been landed at Etah. If the ship had been lost the men would surely have starved.

27 February. Sunday.

Clear fine day. E. or S. E. breeze blowing through fjord. Cloudless, except near horizon

Temp. min -4°; 9a. -2°; noon -2°; 3p. -8° 3:40p. -7°; 5p. -5°

Out for long, enjoyable walk with Dr. Hunt, in spite of the strong breeze from E. Went up snow slope north side Clerett Cornor glacier, along lateral mo-

raine, across glacier and up to 26
top of high mountain (2500(?) feet a.t.)
east of fjord, where Ekblaw and H.C.P.
built a cairn about a fortnight ago,
down S.W. side, ~~and~~ along valley beside
north side Cluett glacier and thence
directly to ship. More than 11 miles, I
should think; $4\frac{3}{4}$ hours.

Noted only gray and pink gneiss
in moraine of Comer glacier. The mo-
raine is almost as high as the gneiss
ledges immediately north of the glacier
& is separated therefrom by a valley
~~so~~ seems well down toward level of bottom of glacier
itself. These ledges therefore are not the
source of the moraine. Side valley comes down
to glacier from north, shows strong
stream action, also a large typical
snowdrift glacier which backs up
against the moraine of the Comer glacier.

Not much ice is exposed on the top of the glacier at this season of the year, but toward southern side of glacier noted several (4±) long low rounded longitudinal ridges of smooth, fitted ice. Perhaps these are the remains of snowdrifts of former years. South side of glacier also shows strong valley between it and the land. An east-facing side of a point of the land which forms a cove retreating from the main glacier presents a moat between it and a snowdrift glacier with a beautiful cornice and long icicles above the vertical polished ice surface. As we mounted higher and higher the wind diminished in strength and on the summit we felt none. Added a stone to the cairn put up a fortnight ago by Ekblaw and Capt. Pickels. View

superb in all directions. That of the undulating surface of the ice cap interested me particularly. To the N.E., 10 or 15 miles away, there is a maze of angular snow covered peaks and what is apparently a nunatak of bare rock. To the south we looked down the Ekblaw Glacier to the sea at Sukkertoppen. Did not see any black sea ice in that direction. Off Parker Snow Bay there is much young black ice but also as much or more snow covered old ice. As we came down the mountain, we felt the wind increasing at our backs. The air was rolling down hill off the ice cap. Some fine sastrugi in the long valley beside the Cluett Glacier. Had fine footing all the way, except on the bay where the surface was tiringly soft. The top of the mountain is covered

with loose angular fragments
of rock apparently in place or nearly so.

28 February. Monday.

Clear, cloudless, calm. Another fine day.
Temp. min -16°; 9a. -14°; noon -13°; 4p. -14°
Captain and crew except mate and cook out in various directions hunting or walking. I staid on board to work on N.D. report. Cook came into cabin and spun some yarns to Dr. Hunt and the mate about the birds and eggs of Tristan d'Acunha and other places which he has visited. About 2:30 p.m. went out alone for 4+ mile walk on bay as far as the Creek. About half the way the footing was good, rest of it rather soft and difficult. H.C.P. returned from tramp beyond Cape Dudley Digges and reported our shore cache all right, which relieves my mind greatly.

Frander came back overland from 30
Petowik Glacier saying that Norman
and Taylor had left him with the de-
clared intention of crossing the land
to Umanak. Foolish venture; late
in starting, strange country, no
food or drink, Taylor fairly well
clothed but Norman's clothing poor
and inadequate. They are liable to
suffer before they reach either Umanak
or the ship, if they do not lose their
lives. — At 6:40 Taylor came in
suffering from cold and fright
saying that he had left Norman
~~up near the~~ on the sea ice north of the head of the gulch in
distress with frozen face and nose and
with pains in back and legs, unable
to keep going more than a hun-
dred yards at a time and then
lying down to rest. H.C.P.
started Ben off at once to Nor-

man's assistance, Ben knowing the region well and being young, active and keen eyed. Within ten minutes six more were off on the same errand: the chief with a lantern and some of my whiskey, Ralph and Frander with a kamatik, the mate with extra mittens (H.C.P.'s & mine), a rope and my old parka, Dr. Hunt with primus stove, water kettle and tea, and Charlie. Norman, Taylor and Frander ("Old Will") were together beside the Petowik Glacier between 1 & 2 o'clock, when Norman proposed walking across country to Umanak. Frander declined, but Taylor did not like to "take a dare" so he and Norman started. They got across the glacier to the land on the other

side, when Norman began to complain of the cold. Then Taylor urged him to turn back. After a time they did so and were half way across the glacier at sunset. They got down into the little gulch on the south side of the glacier and started up over the mountain to come down through the big gulch. Norman was suffering severely and Taylor had to rub his arm to keep it from freezing. He (N.) could walk only a few yards without having to sit or lie down to rest. From Taylor's first account we supposed that he had left Norman headed down the big gulch, but H.C.P. learned at 8:10 that it was half way up the little gulch. This made matters much worse.

because the rescue party wld. 133
hardly think of going over there to look for him. By 8:15 Taylor and Mac Dougal were on their way out with a lantern each to follow the rescue party and lead them on to the other gulch.

9:30 – No one back yet and no light in sight across the ice. According to Taylor's account it must have been about 5:15 when he left Norman and hastened for the ship and help, Norman urging him to go, saying "Tell some one to bring me a biscuit." The poor man has already been over four hours alone in the terrible cold. It is hard to be sitting here unable to do anything to help, and the captain's distress of mind is evident. He came back this afternoon with a big blister on his foot & there seemed to be no need of his going out with the rescue party.

10:30 - Charlie just came in saying that the mate had found Norman a short distance from the bay up the big gulch, still alive. The mate sent Charlie back to tell the captain and me.

11:15 Kamatik arrived with Norman on it. Table had been set for luncheon for the rescuers but Dr. wanted to put Norman there, so we swept things off precipitously. They lugged Norman in, put him onto the table, cut and stripped off all his clothing and slapped and rubbed him with great vigor, bringing the color back to the surface before long, - about 20 minutes. He began to move his muscles himself and then Dr. covered him up with blankets and put hot plates all about him and used the "Welkom warmer" too.

It develops that the mate and Frander found Norman up on the divide between the two gulches. They had gone almost as far as they dared, yelling as they went, when they heard a faint call and made out a dark object rising from the snow. They hurried to it and found it to be Norman, who had seen or heard them and shouted as loudly as he could. He recognized them and tried to help himself as they dragged him along with one of his arms over a shoulder of each. A mile of this was all that the men could stand. Then the mate went on and found Dr. Hunt in the big gulch. The two took turns with the help of Frander in backing Norman, now unconscious, to the cliff at the mouth of the gulch. There they lowered him by a rope

about ~~fifty~~ twenty-five feet to the bay ice, "just like a bale of hay" as Dr. Atwood says. From the gulch they hurried him to the ship on the little Kamatik, being guided and cheered by the light of the lantern on the ship's rail.

29 February. Tuesday.

Clear, cloudless, calm.

Temp. min -19°; 9a. -18°; noon -15° 2p. -10° 4p. -15

I turned in soon after 10 o'clock this morning and was able to sleep, my mind being easy regarding Norman. Dr. put him into the mate's bunk about 3 o'clock and then turned in, leaving the mate on watch for the rest of the night. Norman wakened at 10:15 this morning, rational in speech and recollection of events up to the time when the mate left him with Frander

and came on down the gulch for Dr. Hunt.
He feels awfully sore, bruised and lame, but seems to have frozen only two or three toes on his left foot. How badly they are frozen remains to be determined. Norman's danger was his exhaustion from fatigue, hunger and the cold, the last would have finished him before long, had he not been found when he was. He realizes the close call that he had. About 12:40 he began to get up, and succeeded, in spite of his stiffness, but by 2 o'clock he was glad to lie down again. He frosted some fingers as well as the toes.

Out alone for 4-mile walk about head of bay. Freedom of ice of southern half of bay from new snow seems to indicate that the recent big storm was a north-

easter instead of being a south-
easter as we supposed. Captain
Pickels, however, says that a north-
easter would have brought colder
weather than we had. But the snow shows
where the wind blew the hardest.

1 March. Wednesday.

Heavily overcast dull day. Thick
at midday. Light, powdery snow be-
gan to fall at 12:30, but not much
fell after all. Calm.

Temp. min -18°; 9a. -2°; noon +3°; 3p. -1°

Out alone for scant four mile walk
around head of bay, following beach
ridge from near cache to south coast.
Considerable sea weed of several kinds is
mingled with the gravel and pebbles of
the beach. Came back earlier than
I had intended to, the snow begin-
ning to fall and the weather so thick
that one could see scarcely a half mile

by the time I reached the ship.

Pudtlak came in about 6 o'clock dragging behind him a seal that he had harpooned at a hole in the ice. We all are glad that the poor blind fellow was successful in his hunt. First seal of the season. Seal 75 lbs ±, hard work.

Am glad to write down a new month as beginning.

Inetliak brought over a bird-skin shirt for Captain Pickels & was glad to receive a blanket in exchange for it.

Norman's frost bites are not serious.

Chief put a stray potato into the stove. When it was roasted, Dr. Hunt ate it, thinking it was among the coal by accident, and pronounced it excellent - best he had had in more than 2 yrs.

2 March. Thursday.

Heavily overcast. Thick. Lt. snow at times. Calm till evening, then breezed up from the southeast.

Temp. min. −2°; 9a. +10°; noon +11°; 4p. +14°; 9p. +20°

Pudtlak brought over a piece of his seal, which was appreciative in him, we all thought. Had it baked for dinner and it was excellent.

Was on board all day, except for a short walk of 1½ mile on head of bay, alone. Our boys got two more hares, making 16 in all thus far, I believe.

3 March. Friday.

Heavily overcast morning, clearing toward sunset and thickening again in evening. Calm almost all day. Light breath from W. in morning. Warm breeze

from east (ice cap) at 4 p.m. Light S.W. breeze at 5. Strong, warm wind from ice cap (S.E.) in evening. A strange day.

Temp. min. +10°; 9a. +18°; noon, +17°; 3:30p. +22°; 4p. +38°; 4:30p., +21°; 9 p.m. +30°. Unusual variations.

Out alone for walk to snowdrift glacier, a half mile out along the southern shore and back to the ship, - about 5 miles in all. Too warm for my kamiks to be really comfortable.

About 6 o'clock Sigdlu arrived from Umanak. Crossed several leads en route. Has been delayed all this time by the open water and thin ice. Eckblaw left Umanak for Etah on the 20th February. Sigdlu brought the netsha wh. Mene had had made for me.

4 March. Saturday Ice, 49°.

Thickly overcast. Light S.E. wind then westerly and in p.m. S.E. or E. again. Snow from midday on.

Temp. min +16°; 9a. +29°; noon +24°; 4p. +24°

Disagreeable day, though warm. On board all day except for walk alone of 1½ hr. on bay. Walking poor. Worked on Martinique work for some hours. Some of the boys went out gunning, but soon came back, too thick and warm. Siddle still here. Pinochle as usual for an hour or so after dinner, Dr. Hunt and Norman against the mate and me.

Rabbit stew, bread, pilot bread, butter and tea with milk & sugar for dinner.

5 March. Sunday.

Overcast a.m., beginning to clear in middle of afternoon. Calm or light, variable winds all day. Strong breeze blowing

out of the fjord at 6 p.m.
Temp. min +5°; 9a, +15°; noon +13°; 2p. +12°; 3p. +10°; 4p. +15°
Out alone 11 a.m. to 2:15 p.m., going around head of bay, out to little islet and back, 7+ miles. Mostly good, hard surface, but still much rather soft snow. Sigdla started for Umanak at about 11 this morning via the overland route.

Bft. fried ham and eggs, bread, butter and coffee, same as every Sunday a.m. since return from Cape York. H.C.P. had retired the eggs during the last three months of the C.L.E. men's stay on board. We get no porridge or mush Sunday a.m.

Dinner. Canned roast mutton, dehydro potatoes ~~& turnips~~, canned corn, bread, butter, tea, rice pudding with prune- and -molasses sauce.

Inetliak shortened the sleeves of my new netsha and patched or sewed up some holes in it to-day. Thorough job!

At 7:45 Ahnagnodablako, Eqing-
alnalungwah + Pingasut's
wah, Ahulalungwah, ~~her~~ mother and
small brother and Erik came in.
They left Cape York about 8 o'clock
this morning, but had to make de-
tours on account of leads and
they met the heavy wind just below
Akpat. They brought meat for
Pudtlak. They have gotten 5 bears
since I was there, of wh Erik got 3.
Men not back yet from Upernivik

6 March. Monday.

Clear, almost cloudless, calm
morning. Light westerly wind afternoon
Lowlying fog came in about 3 p. m.
Temp. min +8°; 9 a. +11°; 12 m. +7°; 3 p. +2½°; 8 p. +1°
Dr. Hunt and I started for Cape Dud-
ley Diggs to dig our boxes out of the
snow, but could not make it
on account of open lead 10-20 feet

wide stretching southward from point a mile east of cape. We went a hundred yards or so along the ice foot at the base of the cliff but gave it up as being too risky for the worth of it. Climbed up a few feet on the rocks and sunned ourselves for a half hour before starting back. The rock is a beautifully banded, strongly contorted pink, white and black gneiss. Picked up Pudtlak ~~a quarter~~ an eighth of a mile east of our farthest where he was scrambling down the cliff from his rabbit snares and he walked back with us. At the mouth of the big gulch we found Eqinguah's kamatik. St Peter was so glad to see us that Dr. Hunt freed the dog from his harness and he trotted back to the ship with us. Fine 9 mile tramp,

though the footing was soft and fatiguing a good part of the way. All the Cape York men were out hunting to-day but without success. Taylor shot two seals in the lead but could not get them and the lead had closed over them before the captain and others could get back to the spot with him. The Eskimos were in the cabin after dinner and we had some sport with the chief's electric current.

Roast polar bear meat for dinner. Wold have been fine had it not been overdone. The cook always or almost always spoils his meat, but he bakes good bread and good beans and makes oatmeal well.

7 March Tuesday.

Overcast and rather thick. Calm or light air from the S or S.E. Thick & snowy in the evening.

Temp. min – 5½°; 9a +3°; 12m. +4°; 4p. +8° [47]

Out alone along north shore to big gulch and back through middle of bay, 5+ miles. The Cape York men, Ben and Taylor went out to the lead for seals. Found lead closed up or frozen over + therefore no seals, so they came back soon after noon. Norman and Flander went out to Cape Dudley Diggs overland from the big gulch for the harpoon left there a week ago. Twelve miles – rather long for Norman's first outing since his exhaustion. They reported the lead open at the cape. Dinner: seal + bear + corned beef

This is the chief's 42d birthday. He celebrated by drinking a bottle of Peter's "Appel most" and smoking his last cigarette, both of which he had been saving for the event.

8 March. Wednesday.

Overcast and thick. Could barely discern sun's position part of day only, moon dim in evening. Fresh breeze till afternoon from S.E. and then E. Calm late p.m.

Temp. min +1°; 9a. +2°; 12m. +4°; 3p.m. +1°; 4p.m. 0°

Spent much of day – aside from talking etc – reading "J. Lembarom" for second time. Interested in the technique of a good, clean story, well told. Out alone for a walk of nearly an hour, 3-4p.m., went over to shore cache and on land beyond igloo. Rather disagreeable day.

Dinner: soup, overdone seal and bear meat, corned beef, bread, butter and tea with milk and sugar.

9 March Thursday.

Overcast and rather thick early a.m. but clearing overhead about 10 a.m. leaving heavy mist

on ice cap and mountains.
Temp. min -3°; 9a. +1°; 12m -3°; 3:40p. -4°
No wind at ship but apparently light N. breeze on cap. Three splendid parhelia around sun at eleven o'clock - one each side and one above sun, all convex toward his disc and strongly colored. Three inches soft new snow.

Cape York men and Ahulad-lungwa left for C. Y. about 10:30, leaving Pingasut's mother and brother with Inetliak. If a wind should spring up, travel would be very disagreeable.

Some work on Martinique.

Out from 2 to 3:40 p.m with Dr. H. out to ridge above drift glacier northeast of igloo - perhaps nearly four miles in all. Wind on ice cap seemed to be light from

the south but was westerly at ship (50
after our return. Lowlying haze
over mountains and sea, a curious
day. Dr. Hunt says that he has seen
many like it up here. Dr. Hunt broached case of grapejuice.

Dinner: mutton stew, baked seal,
bread, butter, pilot bread, canned peaches, tea.

10 March Friday

Overcast, thick. Lt. snow falling. Calm
Temp. min −15°; 9a +1°; 12m +4°; 4p. +3°

Fine granular snow fell allday, and
air was thick with haze. Occasional
light variable breeze in late afternoon.

Got in more than three hours on
Martinique work, then went out
alone along middle of bay for 1½ hr.
walk in spite of snow and thick
haze. Moon in first quarter vis-
ible through evening haze.
Troubled somewhat yesterday

and to-day with the feeling of op- 151
pression in upper part of my chest.

Dinner: macaroni soup, good, corned beef, not good, pilot bread, butter, tea.

Dr. H. listened to heart this evening and found no change in its action. Thinks now that the murmur is muscular not valvular. Oppression prob. due to faulty circulation and advises use of glonoin for it.

11 March. Saturday.

Cloudless blue sky in early morning, but began to cloud over about 10 o'clock and was wholly overcast soon after noon. Rather thick evening Calm. Ice 49"

Temp min -13°; 9a. -10°; 12m -4°; 2p. -2°

Out alone for trudge across bay nearly to Cluett moorage. Stopped by open lead, reaching to the ice foot of the big cliffs. Saw at least 2 seals on ice beside the lead. Taylor who was out there too, snapped his gun at one but it contained no load and

the seal slipped off into the water before he could load. Walking hard on account of soft snow - covered about 6¼ miles.

Dinner: seal meat cooked the best yet.

12 March. Sunday.

Early morning calm + snowing.

9a. Overcast and thick still snowing gently.

10a. S. wind rising. Very thick with driving snow.

12m. Sun visible, but wind heavy and snow still driving thickly. Thick on ice cap.

Temp. min -10°; 9a. +24°; 12m. +20°; 4p. +13°

Very disagreeable weather. Captain Comer's igloo shows erosion effects of the wind. Has endured weather remarkably well.

1:45p. Nearly clear overhead but very thick on ice cap and southern

mts and over southern part of bay. 53
Wind seems now to come from N. or N.E.
A bad day to be out! On board all day.
Toward evening air became thicker and
by ~~evening~~ 8 o'clock a heavy storm of wind
was raging, coming in from the westward.
The night is worse than the day -
Dinner: baked roast mutton (cooked
too much as usual), turnip-and-potato,
string beans, bread, butter, rice pudding
with raisins, tea.
Breakfast: Fried bacon and eggs (1 apiece)
baked beans, bread, butter, coffee -

13 March. Monday.

Heavy snow, southerly gale,
regular blizzard in fact. Much worse
than yesterday. As bad as 23 February.
Temp. min +9°; 9a +14½°; 12m +6°
was +25° at 6 a.m.

On board all day, glad to have
the shelter of the cabin. Velocity of wind
not less than 50 mi. per hour in
the gusts, according to Captain Pickels.
He says that the wind is E. but it cer-
tainly comes athwart the vessel from S.

14 March. Tuesday.

Thinly overcast and somewhat
hazy all day. Snow in evening.
Calm or very light breeze.
Temp. min +1°; 9a. +4½°; 12m. +7°;
2p. +8°; 9p +5°
Eight mile or less walk with Dr
Hunt out to iceberg nearly as
far as the black point. Half mile
of hard work through knee deep
and half knee deep snow. Old
ice all gone off southern half
of bay, but edge of old bay

ice still runs from near Chu-
ett mooring to point a mile
east of Cape Dudley Digges.
Men were out and saw some
seals in the open water. They
shot three, but could not re-
trieve them - Useless slaughter!

15 March. Wednesday.

Another blizzard from the south-
east has raged today, with the air so full
of gale driven snow that one could not see
100 feet in any direction at times. Began
last night but not bad till after 10 a.m.
Temp. min ± 0°; 9a. +13°; 12m +22°; 4p. +28°
On board all day and managed to
get in about 4 hours on Martinique
work. Conditions are extremely
unfavorable for doing any work
like that.

Bfst. menu - oatmeal, milk, sugar, molasses, beans, bread, butter, coffee -

Dinner: pea soup, corned beef, biscuit, bread, butter, turnip-and-potato, dried peaches, pickles, ~~coffee~~ tea.

Evening - pinochle - Davis & Hunt against Norman & me - 1 to 2; chess with Dr. Hunt He gives me his queen and then I can win, if I am very careful, - occasionally

Storm ceased early in evening and moon was out about 9 o'cl. Then began to snow again.

16 March Thursday.

Overcast. Thick. Light feathery snow. Calm

Temp. min $-2\frac{1}{2}°$; 9a. $+1°$; 12m. $+3°$; 6p. $+5°$

Hazy evening but moon visible.

Seems as if edge of bay ice had retreated in yesterday's storm, but weather and walking are so bad that we can't go out to see.

Drift in front of bows is more than 4 ft. high above the bottom of moat formed by the wind next to the ship's planking. Chief built and cut some good snow steps to take the place of the cinder ones that we have been using to get off and onto the vessel. MacDougal is getting along only moderately, though he has felt better since he began sleeping in Dr. H.'s sleeping bag on the roof of the cabin. He suffered much intestinal pain this evening and Dr. gave him morphine. There is not much that can be done for the man, with the diet that is available on board.

Dinner: mutton stew, corn, biscuit, bread, butter, tea. No dessert on Thursdays now.

Economizing on matches too now. Some hours on Martinique work.

17 March. Friday.

Overcast + thick all a.m. Heavy S.E. Wind (7) till about noon with light snow and much drifting snow. Very thick till after 11 - Near shore hidden during gusts.

Temp. min +1°; 8a. 23°; 9a +18°; 11a +6°; 12m +8°; 3 p. +1°; 5 p. -5°

Quite blizzardy and bad all morning. Rough weather all night.

Two or three days ago Norman trimmed the chief's beard as the latter wanted it, but the chief does not like the effect for it makes him look like a red-headed Jew. Dr. Hunt is having his hair cut short to-day. Norman is quite a barber; useful in the after cabin.

Wind moderated about noon and Dr. Hunt and I went out about 2 p.m. for a breath of fresh air. The "breath" was too strong for comfort for him and he came back

on board after 20-30 minutes of it, but I had on my netsha as well as my bearskins so that I was comfortable in spite of the keen and increasing wind and the wind driven icy snow. After 1¼ hour I too had had enough. Although the sky was almost clear overhead the air was so full of driving snow that at times the vessel was completely hidden at ¼ mile away. I came on board as Charlie was coming aft and he surprised me by saying that both my cheeks were white. Surely enough a spot in each ~~was~~ had been frosted by the bitter wind. The snow on the ice is wet on the starboard quarter, the ice being bent by the weight of the banked up snow.

MacDougal had become well enough this afternoon to go to his dinner.

H.C.P. "found" two cases of peaches to-day that he "did not know were there". Hence we had some at dinner. I wonder whether he will "find" anything more. — Heard him say too that there were more vegetables than he thought for — "enough for four years", and Dr. Hunt and I think that there might be at the rate at which they are being used.

Exceptionally fine paraselenæ this evening at about 9 o'clock. Three are very distinct in the first ring around the moon and the fourth would be there were it not that the ring is intersected by the surface of the bay ice. Outer ring gives hints of three more.

18 March. Saturday.

Lightly overcast and hazy

with scarcely perceptible SW wind.

Temp. min -8°; 9a $-3\frac{1}{2}^\circ$; 12m. $-\frac{1}{4}^\circ$; 3p. -4°; 5:30 -7°

The men report the edge of bay ice as being inside, east of, the little islet. Evidently a big slice of the old ice was driven out by the recent heavy winds. Taylor shot another seal and captain and several of crew spent much time trying to retrieve it from the water. They tried to cut off a cake of ice for use as a raft but were unsuccessful on account of water coming into their trench before they cut it deep enough for breaking off the rest of the way.

From 1 to 3:15 p.m. Dr. Hunt and I were out for a fine walk to the south branch of the Cluett Glacier, the tongue glacier and the snow drift at the end of the nunatak. Found small clam shell closely related to the Venus of our coast.

6:25. Captain and mate have just

come in from their second trip after the seal, with Taylor. They succeeded in hooking the jigger into the carcass, but the young ice was too strong for their line and it parted. They think that they can secure ~~it~~ the seal tomorrow.

19 March. Sunday.

Clear, beautiful day, thin high cirro-stratus clouds. Calm.

Temp. min. -9°; 9a. +1°; 12m. +5°; 3p. +5°; 5:30p. +4°

Mate Davis and some of the men and Pudtlak went out this morning and brought in the seal. Pudtlak went out onto the new ice with a line around his body and harpooned the carcass. Then Taylor with the line around his body went out walking on two barrel staves and cut the ice away around the seal and the other men hauled it out and to the heavy ice and thence to the ship.

Great rejoicing, especially in the Eskimo family, who got the blubber, entrails and forelegs with the shoulder girdle.

Between noon and 2:40 Dr. Hunt and I went out for a walk, going to the edge of the old ice where the men secured the seal. Walking good most of the way and day beautiful and almost calm. Found netsha too warm to wear going out with the light breeze and took it off. Put it on again, however, for walking back against the light breeze.

Dinner menu: roast beef, potato-and-turnip, bread, butter, rice with prunes, tea.

Breakfast; fried bacon and eggs, beans, bread, coffee.

Gorgeous sunset.

During our walk yesterday Dr. H. spoke of fact that Captain Pickels had invited him to stay on the ship

as long as he liked and go home on her, 164
although he (H.C.P.) said that the "Cluett"
was not obliged by the charter party to
feed the Crocker Land party on the home-
ward way. Dr. Hunt raised with me the
question whether this invitation did
not in itself constitute a violation
of the charter. It seems to me that
it does, since H.C.P. did not ask
me whether the Museum would be
willing to have the doctor on board
as the guest of the vessel. Perhaps
H.C.P. would take refuge behind my
assurance given on 5 November
that the Grenfell Asso. of Am. would
not call him to account for using
the ship's stores in feeding the Crocker
Land people, and therefore would
not think it necessary to speak to me
about this special invitation. Of

course I am glad to have him here and I think that the ship under the charter was called upon to feed us all during whole voyage, including any detention.

20 March. Monday.

Thinly overcast & high cirro-stratus clouds (C_2) Calm & light S. to S.W. breeze. Thickly overcast, hazy evening. Much wind last night till 4 a.m. Calm after that and 2-3" light, feathery snow fell before nine o'clock.

Temp. min. 0°; 9a. +2°; 12m. -2°; 3p. -1°
Had been down to -4° betw. 12 & 3.

Mate Davis built a punt to-day out of new and box lumber. Will calk and paint it tomorrow and then it will be available for use in getting next seal that is shot.

Captain P. brought up a fresh lot of Green's Army and Navy Journal and Literary Digest, supplying us with a welcome lot of reading material, even though dated 1914 for the greater part. Mate Davis built a punt today out of new and box lumber. This will be calked and painted tomorrow and then be available for retrieving the next seal that is shot. Wrenched my right leg or got a bad cramp in it as I started from cabin for a walk this afternoon. Walked a half hour, thinking to walk it off but was unsuccessful and leg is very painful this evening.

Snowing again at 9 o'clock.

Seal meat at dinner, excellent.

Pinochle 3 games; chess with Dr. Hunt 3 games; writing and reading.

21 March Tuesday.

Thinly overcast with high cirro-stratus clouds, but thick low down with driving snow filling the air under a "moderate breeze" (No. 4) from the west. Wind changed to S.E. in late a.m. and increased to 5 or 6. Afternoon was sunshiny but windy and snow drifted till evening when wind ceased. Temp. min -4°; 9a. 0°; 12 m. +1°; 3 p. +2° 6 p. +6°; 7½ p. +2°

Leg painful and lameness annoying. It was a cramp all night.

Mate Davis calked and pitched the joints of the punt, put on sculling socket and painter and the "Puisse tedixsua" is ready for sea, though she probably will get a coat of paint before she goes into the water

22 March. Wednesday.

Beautiful, clear day, calm or with light airs occasionally from S.E. Thin, high cirrus clouds at 9 a.m. but cloudless by 10 o'clock.

Temp. min $-7\frac{1}{2}°$; 9 a. $+\frac{1}{2}°$; 12 m. $+3°$; 4 p. $+2°$

The "Prince Tedixna" did not get a coat of paint, but the crew dragged her out to the edge of the old ice this morning and then over to the ice foot of the south shore. Young ice too thin to enable the men to get near the open lead to hunt for seals.

Lameness somewhat better this morning and I walked out to a berg a mile from the ship to limber up my legs. Walking is poor much of the way.

Some light still on western horizon at 9 p.

23 March. Thursday.

Clear, cloudless and calm at 9 a.m., but strong breeze sprang up from some northerly direction about 10 o'cl. and blew for four hours. After that light breeze blew out of bay — which I found rather keen on my way back from my hour and a quarter's walk alone. The going was poor but I had to get some fresh air. Thermp. min −10°; 9 a., 0°; 12 m. +9°; 4 p. +6° 8:30 p. −4°

Much chess to-day, winning 2 out of 3 from Charlie and losing 2 handicap games to Dr. Hunt. Some work on Martinique, but it is hard to do much that is worth while without more books and my collections. I lament the wasted year up here! Best to call the experience a "rest cure", I presume", and get what benefit I can out of it.

About 9 p.m. Ahnqualokto arrived from Cape York alone. He had been delayed by open water off B Parker Snow Point, been forced to go around outside of Conical Rock and then wait for leads to close before he could come in. He brought kamiks for the mate and one of the crew and bear skin pants for Taylor.

24 March. Friday

Clear and cloudless. Light S.W. breeze followed by calm. Light eastern wind at noon

Temp. min −8°; 9a +5°; 12m. +9½°; 4p. +5°

Ahnqualokto, Predtlak and Taylor have gone seal hunting and Ben and Ralph are out for hares. Pingasut's mother and brother are reported to have started on foot this morning for Umanak, car-

rying sleeping bag and food.
They live there and seem to have worn
out their welcome in this region.
Got in three or more hours good work
on Martinique work, nearly everybody
being out enjoying the beautiful day.
Was out for an hour or more with
Dr. Hunt. Walking poor in middle of
bay but good along south side.
The seal hunters got a seal - shot
by Ahgmalotto, retrieved in the
"Prisse Tedixsa".

25 March. Saturday.

Thinly overcast but sunshiny.
Calm at 9 a.m. Light variable winds and
calm afterwards. Ice, 50½"
Temp. min -9½°; 9 a. +2°; 12 m. +10½°; 4 p. +3°
Capt. Pickels caught a fox in Norman's
trap, which he borrowed and set yesterday.

Skin is good, tho' hair is beginning 172.
to come out and fur is becoming lighter in color. Getting late for fur taking. The seal hunting trio went out again today but were unsuccessful -

Out with Dr. Hunt around head of bay and over to snowdrift glacier on south shore - 6+ miles. The assemblage of great blocks fallen from the snow cornice of the glacier is larger and more confused than when I was over some weeks ago. Without seeing the place one could hardly believe that the blocks scattered over the ice could have come out so far from the glacier front. Most of them are very solid and firm. Some are 3 ft. cubes and larger.

Pinochle game ended in dispute over Norman's melding before declaring trump. Too much childishness in arctic temper!

26 March. Sunday.

Overcast. Thick most of day. Sun partly visible in mid afternoon. Heavy breeze (5–6) from southeast all day except calm from about 1 to 2:15 p.m.

Temp. min +2°; 9a +12°, 12m. +12°; 4p. +17½

Too disagreeable for spending much time outdoors. Had enough of it between 2:30 and 3:40, when I was out alone on the bay ice near shore north of ship. Dr. Hunt had gotten all the fresh air that he desired in less than a half hour's work on his snow igloo, which was somewhat damaged by the heavy wind. Have spent day mostly reading and resting. Mended three rips in sleeping bag.

Had rabbit stew for dinner. The crew have gotten 19 hares to date and they have been very acceptable to all.

Overcast. Thick in morning but haze not so heavy in afternoon. Calm or light variable wind - partly from W. Temp. min. +12°; 9a +15°; 12m. +18°; 4p. +17°

Ahngmalokto started over the ice cap for Akpat on his way to Cape York.

About two good hours on Martinique work. Can really work on this to advantage only when the cabin is clear after breakfast for a little while.

Out alone, Dr. Hunt being asleep, for walk, going as far as the block point beyond the big gulch. 7 miles of hard work, much of the going being over half hard snow in drifts letting one sink at nearly every step above the ankle or half way to knee. Could see no leads in direction of Cape Dudley Digges. Noted for the

nth time that the ice bergs show the sky-blue color much more strongly in diffused light than on a bright sunshiny day.

28 March. Tuesday.

Thickly overcast and snowing at 9 a.m. and light South wind blowing. Wind soon increased to strong breeze (#5) from the east or south-east. Snow ceased falling before noon but air was filled with driving snow. Very disagreeable.

Temp. min +10°; 9a. +17°; 12 m. +16°; 3p. +14° 6p. +11°; 10p. +8°

Began on St. Vincent work, just a year ago to-day I reached Kingstown by the "Glen Nevis" from Castries.

Three hours on studying and indexing photos.

Out for a half hour or so alone.

29 March. Wednesday.

Thin clouds - high cirro stratus - in early morning, clearing to cloudless about noon. Light N.E. breeze at 9 a.m., soon changing to E. or S.E. (?) and increasing to gusty, 3 to 5 in strength, making the day disagreeable for walking in spite of its brilliancy and the warmth of the direct rays of the sun.

Temp. min. +5°; 9 a., +5°; 12 m. +4°; 4 p. +3°; 7 p. +1½°

Two hours on St. Vincent work and then cabin filled up, and I soon got on my bearskin pants and netsha and went out for an hour and a half's walk around the head of the bay and along the south shore. Went alone, since Dr. Hunt did not care to walk in the wind.

Usual pinochle chess and reading after dinner. Then I get my own

warm luncheon soon after 9 o'clock - tonight's menu clam chowder with addition of corn and milk, tea, figs.

Dinner menu: pea soup (good), corned beef (too salt and hard to be fit to eat, as usual), canned peas (good), bread, butter, dehydro potatoes, tea.

Ben slid some hundreds (?) of feet down snow slope on south shore, ripped his kamiks but wasn't hurt.

30 March. Thursday.

Cloudless, beautiful day. Light easterly breeze, with stronger puffs and calm. As usual, wind varies in different parts of the bay.

Temp. min. -1°; 9a. +3°; 12m. +7°; 4p. +6°

Two + hours on St. Vincent.

Out with Dr. Hunt around head of bay and along south shore to point near islet. Ca. 8 miles. Enjoyable.

Wind rather keen northern half of bay.

Dinner: mutton stew + canned peaches for dessert!

31 March. Friday.

Another cloudless, brilliant day. Calm or light variable wind. Temp. min -8°; 9 a. +3°; 12 m. +6°; 3 p. +7°; 6 p. -2°; 8 p. -4°

Used last of sugar at breakfast.

Mate Davis put my snowshoes on my feet for me today and I made my first attempt at travel with that kind of gear. Got along first rate, much better than I expected to. Got shoes to interfering a few times but was not thrown down. Went out alone to point this side of Cape Dudley Digges, 4 + miles from ship, where I was stopped by broad, open lead. Far enough anyhow, since it took me more than four hours to walk out and back. I presented a comical sight, "they" say, when I started.

Dr. Hunt tried to reach our cache at Cape Dudley Diggs but

was turned back by the same lead.

Norman is trying to reconstruct and finish the snow igloo that Dr. Hunt began but abandoned on account of the stormy weather.

In March min. temp was not below zero on 14 days and noon temp " " " " " 28 "

1 April. Saturday.

Cloudless. Calm. Brilliant.

Temp. min. -10°; 9a. +2½°; 12m. +6½°; 7:30p. -7½

Charley was sent to "find the key of the keelson."

Egingwah and Erik and their wives, the baby and Tatiak arrived from Cape York this morning, via the ice cap from Sukken, where they spent last night. Tatiak arrived at Cape York from Upernivik on Wednesday, 29 Mch., having had seven sleeps on Melville Bay in crossing from Cape Seddon. He must have left Cape

Seddon therefore on 22 March. He 178
left Upernivik on 14 February and
was delayed in starting across the
bay by the numerous storms that
we had at the end of February &
during March. An Eskimo ac-
companied him some marches
out from Cape Seddon. There was
much deep snow on Melville Bay,
and some bad open leads in
the ice were encountered as
Cape York was approached. Tatiak
saw four bears but could not
go after them.

Tatiak brought me a letter from
Green, to which was appended
a note by Jonquay. Conditions
among the Danes are very adverse,
food and trading material
being scanty in supply and now
being carefully conserved through

fear of shortage next year on account of the war. Almost nothing could be spared to send us. Green and Peter reached Upernivik on 9 February, having hurried on on account of the former's toothache. Jaugnary and Allen arrived there on the 11th. Green wrote on the 13th, and the party was going on the next day, taking Harrigan as well as Pingasut in it. Apparently everybody was well. They caught the southbound regular mail and saw no reason why they themselves should not reach Holstensborg in time for the April steamer to Denmark.

Erik got two white whales this week (?) near Cape York. This indicates much or some open

water in Melville Bay. Kee and (80
Eginguah brought some of the
meat with them. It tastes much
like narwhal, but seems ~~rather~~
somewhat coarser in fiber. The skin
is decidedly white in color. It is
not quite as nutty in flavor as
narwhal skin, and the layer of
hard white fat is thinner in
proportion.

Photo'd Tatiak and his dogs. 44.5
Gave Metlisk 5 yds anorak cloth + pocket knife.

2 April. Sunday.

Cloudless, brilliant. Calm at
and before 9 a.m. Light breeze from
the ice cap at 10 o'clock and occasion-
ally afterward.

Temp. min. −11°; 7 a. −3°; 9 a. +5½°; 12 m. +5°; 11 a. +3°

The Eskimos started on for Umanak,
getting away from the ship about
half after ten. They were unable or
unwilling to take any of our stuff

with them. Tatiak's dogs are in bad shape, the other men have their wives with them, they have quite a load of meat and they have to go over the ice cap. Took photo - 44, 44b of Erik and Ballina and their team just before they started.

Two of the crew got to Cape Dudley Digges overland yesterday. They report our case of figs &c mashed up and carried away, but the other things all right, being in a better place. Dr. Hunt went out with Erik and Tatiak by kamatik but could not find a place to cross the lead.

Had our last hen's eggs at breakfast.

3 April. Monday.

Another cloudless, brilliant, calm day, with occasional light air from east.

Temp. min. -10°; 9a. +5°; 11a. +2°; 12m. +4° 3p. +6°; 9p. 0° (Had been down to -2°)

chief put brass patch over hole in lower band. This band was put on a few days after Christmas.

Captain Pickels went overland from the big gulch to middle of Petowik Glacier. He reported feeling or hearing some shocks but saw no falling or freshly fallen bergs and thinks that the shocks were caused by strains due to heat from sun's rays. But may not the glacier be in motion even now?

Went out alone around head of bay to snowdrift glacier and directly back to ship - ca 5 miles. Fine walking in such beautiful weather.

Norman finished his igloo, but it is bowed out in the wall and looks weak.

Chief made rubber center and cut out cover for baseball and Norman wound and sewed it. a pretty good one.

4 April Tuesday.

Still another clear, cloudless, calm day. Brilliant weather. Light air from N.W. on plateau. Temp. min. -7°; 9a. +3°; 12 m. +4°; 4 p. +3°; 7h. 5°. Discovered today that box was raising 9 a.m. temperature readings 2°. Have gone back and subtracted that amount from each 9 a.m reading for past five days.

Went out alone to and up the big gulch and to top of mountain, whence one obtains magnificent view of Petowik Glacier, Wostenholme Island, Ice Cap &c. Many broad open leads are visible. Slopes of hard marble like snow hard to descend safely. Bert helped me down the last 20 ft to the bay ice.

Crew had their first game of baseball. Mate quit pinochle game disgusted at the luck of himself and partner. Absurdly childish!

5 April. Wednesday. 84

Clear, cloudless, calm. Light N or N.W. air on plateau and occasional light draft out of the bay. Strong wind betw. 1 & 5 a.m.

Temp. min. -11°; 9a. -1°; 12m. +5°; 2p. +10°; 4p. +5°; 6p. +3°

Out alone to point near Cape Dudley Diggs. Collected specimens from big diabase dike and intersecting light gray dike at the big gulch. Met Dr. Hunt at the point and we walked back together. He had been at the cache and moved the barrel, kegs and boxes farther up on the rocks after digging them out of the ice and snow that had gathered on and around them.

Some of the ball players, especially Norman and the chief, are lame today, but all are at it again this evening, except the chief. Inetliak and the children are much interested in the game. Poor Pudtlak can't see well enough to enjoy it.

Fresh, green grass is now growing above the black rocks at the gulch. Spring is coming!

6 April. Thursday.

High cirrostratus clouds and much driving snow in air at 9 a.m. High (No 4) N.E. breeze, which began before mid-night and lasted till about 2 p.m. After that clear and nearly cloudless and calm.

Temp. min -8°; 9a. -5°; 12m. -½°; 2:30 +6°; 4p. 0° 10:30 -8°

Out alone after 2 p.m., to cliff front of Comer glacier. Cornice of snow beautiful. Hundreds of icicles hang from projecting layers of ice. Some chunks of ice have fallen from front during the winter.

Lighter now at midnight than it was at noon at winter solstice time.

Norman's snow igloo collapsed to-day

7 April. Friday. 186

Clear, cloudless, calm.

Temp. min -13½°; 9a -1½°; 12m. +4°; 4p. 0°; 7p -4°

Kolutingwa arrived this morning from Umanak via sea ice to this cove side of the Petowik Glacier and hence overland. He has lived this year at Netshaloomi. Is on his way to Cape York to hunt bear. Needs some pants. He says that Mac started for Ellesmere Land with five Eskimo men. Ek was still at Etah at last accounts. Captain Comer shot a small 2 yr. old bear on the meat cache near the house at Umanak.

I went out alone for 5 mi. walk on the bay this afternoon. On my way back encountered keen outblowing breeze & was glad of my full suit of skin clothing.

Early this evening Egingwa and Erik and their wives and the baby arr. from Umanak. Brought letters from

Captain Comer and one to Dr. St. from Mac. which was dated 17 Jan. Captain Comer went out to read the thermometer, spied the bear on the cache and rushed back into the house for rifle. No more coal at Umanak. Heating with primus stoves. Hendrik brought some boxes as far as Cape Dudley Diggs and took some back from the cache there. Was to come here for coal, but could not on account of the big open lead just this side of D.D.

Kolutingwa is one of the ablest of the natives. He speaks a few words of English. He was one of Dr. Cook's men and is one of that man's few friends among the Eskimo. Went as far as Cape Thomas Hubbard with Cook as a supporting party and then turned back. The next year he took Cook across Melville Bay ~~and to~~ to Sarinsak, whence Cook went by boat to Upernivik. ~~Upernivik~~. K. has a wife & five children and is a grandfather. He has lost one child. He is unusually thrifty.

8 April. Saturday - Ice, 54" + 188

High, thin cirro-stratus clouds. Rather strong (No. 3) breeze from E., disagreeable more or less hazy + windy all day
Temp. min. -8½°; 9a., -4°; 12m. -4°; 4p. -3°; 8p. -9°.

In spite of the disagreeable weather, the three Kamatiks started for Cape York over the sea ice about 11 o'clock. Since they have not returned at 12:30, it is probable that they got past Parker Snow Point all night.

Gave Inetliak box of talcum powder for the expected baby. She was much pleased. The Eskimos like powder and perfumery and scented soap.

Out alone for three mile or more (1½ hr.) around head of bay. Windy and cold. Wore Kooletah as well as bear skins.

9 April Sunday -

Clear, cloudless + nearly so, calm

and occasional light air from E. or S.E.

Temp. min -14°; 9a. -4°; 12m. 0°; 2:30, 0°; 5p. -3°

Out to Cape Dudley Diggs with Dr. Hunt, except last half mile with Frander and Pudtlak over glassy black ice ending with about 200 yards over rough white ice. The black ice seemed very ticklish at first and it did bend under us sometimes, but it was hard and 5 or 6 inches thick, hence safe enough. Dotted with clusters of beautiful platey crystals of ~~frost~~ salt. Brought back some of the things (malted milk, soup, tobacco &c) from the box which Hendrik brought down from Umanak on Friday. Captain Pickels, Ben and Taylor (?) went out too. Crossed the black ice with Dr. Hunt and Ben but then dropped behind, not caring to walk as fast as they did even with their loads. A good ten miles, with some bad footing in softish snow.

H.C.P. gave a characteristic 190
exhibition of his temper or disposition
at the Cape Cache. The box from Uma-
nak contained some Magic yeast cakes
which Dr. Hunt, handing a pack-
age to the captain, said that Ek
had sent down for the cook. "~~Of~~
"What damn use are they?" blurted
the captain. Dr. H. replied that the
cook had told Ek that he (cook)
needed them. "What the hell does
he know about it? We've got
lots of 'em", snapped H.C.P. and
impatiently tore the cakes out
of the tin box and threw them out
onto the ice. "For Christ's sake don't
do that," said Dr. H., "Don't throw
good stuff away. We need them,
if you don't." H.C.P. then sent
Ben down onto the ice to pick

up the cakes. Nice way to receive and acknowledge a courtesy that had cost us some trouble! No thanks, - nothing but abuse; and no apology!

Kashingwa arrived at the igloo this evening. Lives this winter at Kidek

10 April. Monday.

Clear, cloudless. Light N.E. breeze at 9 a.m., increasing to heavy wind by 11 o'clock. Keen and disagreeable. with lower air filled with drifting snow.

Temp. min -20°; 9a. -3°; 12m. -5°; 4p. -14°; 7p. -11°

Kashingwa came over to get Dr. Hunt to treat his left forefinger which had become infected through a cut. The finger was much swollen and very painful. Dr. cocainized and lanced it. The man had tried to lance it himself, but without much success, so he came down here all the way from Kidek to the Dr.

Wind increased to gale (7 to 8) after (92
noon. Air full of driving snow. Cold and dis-
agreeable. Staid on board all day.
Much chess with Dr. H. and Charlie. I win
one game in three, usually. Norman
is suffering badly from rheumatism
in the leg that was frost bitten on 29 Feb.

11 April. Tuesday.

Clear, cloudless. Calm until even-
ing, then came some N. wind.

Temp. min. -17°; 9a. 0°; 10a -2°; 12m. 0°; 4p.
-4; 9p. -8°

The gale was not from right direction
to break up the ice near Cape Dudley
Digges and I had a fine walk out
there and back, alone, except for ride
of about a half mile with Pudlak
and Inetliak on Kashinguak's ka-
matik and back for about a half

mile from the cape with Pudlluk across the glare ice. That was fine! He stopped near the black point to go up to his traps, where he was to meet Inetlak (w. shotgun) and I walked on in. Ben shot a fine almost black fox today at the cape. My walk was a good 9 miles.

Saw ivory gull (or falcon?) Franden saw it Saturday

12 April Wednesday.

Clear, cloudless, calm. A brilliant day. Temps min. −12°; 9a. −3°; 12 m. +3° 4p. −3°; 8p. −12°.

Out with Dr. Hunt across big glacier (which had better have the name George B. Cluett Glacier instead of the other one) to the large moat-like valley at its south side. Interested in the moraines of gray gneiss, silt in large quantity in the débris piles at terminal edge of ice above. Saw no erratics except

those of gneiss. Considerable rose quartz in small stringers and pieces. One area of hard snow 3 or 4 yds square shows beautiful wind ripple marks as sharp as those common in sand. Moat shows vertical wall of stratified ice facing the mountain side, effect of wind against the mountain. A few fragments of rock have bounded down the mountain slope and become imbedded in the face of ice. Slid down two snow slopes. Older snow looks and feels like marble and is dangerous on a slope. Had to turn back for 1/4 or 1/3 mile on account of steep hard snow slope 10 or 12 feet high which we did not care to slide down on account of rocks at the bottom. Sick wet with melting snow in one little spot.

H.C.P. gave Inepliak his bath robe this morning. She was much pleased of course but looked funny enough in it.

13 April. Thursday.

Clear, cloudless, calm.

Temp. min -17°; 9a. -1°; 12m. 0°; 2p. +2°; 9p. -12°

Pudtlak and family left at 12:40 to-day with their movables packed on two Kamatiks, one being Pudtlak's which the crew have been using for ice etc and the other Kashingwa's. Kashingwa let Pudtlak take five of his 12 dogs and P. added three of the four seven months old puppies to make up a team. It was an odd team all right and the puppies made a great fuss at starting. They wanted to stay at the ship, but the whip and the other dogs finally persuaded them to go on, and the outfit disappeared in the distance. The other puppy was left behind; it is Alakutsiak's. Photos. 46-1, 8:04 Packing Kamatiks beside the meat cairn on shore.

46-2, 8-04. ~~Kashin~~ The igloo with Pudtlak, Inetliak and the children standing at the entrance.

46-3, 8-02. Kashingwa starting from the edge of the ice foot.

46-4, 8-02. The two kamatiks starting from beside the ship at 12:40.

Inetliak gave me a little stone dish "from Merku". I got Pudtlak's old ivory (walrus?) ~~sex killer~~ or harpoon stock in exchange for about a pound of tobacco. It is a very old one and will make a good companion specimen to the bone and ivory harpoon that Ekblaw got. The kamatiks were heavily loaded but the motley assemblage of things would have looked meagre beside what an American family of five would have on moving. Some things were left behind, but Ala-

Kutsiako is coming down soon. Inetliak is going to be confined at Kiatek. Kashingwa's wife is Pudlatk's sister. We shall miss the family and I am sorry to have them go, but there will be less drain on the ship's food supply. [Ootah told us ~~here~~ when here that they are in his igloo at Keatek]

Mate started and nearly finished a sledge to take the place of Pudlatk's, using one of the plank that I brought up and a board from the after house.

Three mile walk alone on bay.

14 April. Friday.

Clear, cloudless, calm except for very light N. wind drawing across ship at 9 a.m.

Temp. min. -19°; 12 m. 0°; 3:30 p. -2°; 9 p. -12°

Mate finished his kamatik and the crew brought in first load of ice in it this morning. Pretty good sledge though heavy

Out with Dr. Hunt for 8-mile 198
walk around head of bay and along south shore nearly to islet and back. Superb weather and good walking. He thinks that perhaps I had better go home on the "Chuett", if the new steamer does not arrive before the schooner breaks out of the ice and if there seems to be ground for fear that a second relief ship will not come. We are in a serious quandary. There is no doubt in my mind that a second vessel will be sent up this summer, if my message gets through to the Museum - and that is sure to go through unless Denmark is now in the war and the "Hans Egede" does not come to Holstensborg this month. What is best to be done, I wonder?

15 April Saturday.

Clear; cloudless till late a.m. & then C 1; Calm, N.1 at 9a & S.E.1 in p.m.
Temp. min. -17½°; 9a., 0°; 12m. +3°; 3p. +7°, 8p. -4°

At 10:45 Dr. Hunt and Mate Davis started up mt. on wh. Mr. Ekblaw and Capt. Pickels placed a cairn ca. 12 February and wh. Dr. H. and I climbed on 27 February. Then I estimated the elevation at 2500 feet, but was greeted with so much scorn that when the others made their advance guesses to-day at - H.C.P. 1200', Dr. H. 1175', Mate 1250', Norman 1500', Chief 1100, I got cold feet and reduced my guess to 2000'. Dr. took my Museum aneroid with him to-day while I kept half hourly tabs on the ship's aneroid. The two men returned at 2:25 and Dr. Hunt's

record showed that my aneroid 100
made the elevation to be 2300 feet ±.
They found it cold on the mountain, with moderate but keen wind from east. No open water or big leads in sight.

I got in some time on St. Vincents work while attending to the readings. Also read "Deserted Village", "Elegy in Country Churchyard" & "John Gilpin's Ride". Went out for about a half hour just before dinner. Magnificent evening strong twilight and moon nearly full.

16 April. Sunday.

Clear, high thin cirro stratus clouds more or less all day, lt. S.E. wind at 9 a.m. changing to S.W. before noon.

Temp. min −7°; 9a. −2°; 12m. +1°; 2:30p. +1°; 7p. −5°

About noon Dr. Hunt photod

me beside ice cake near ship

46,5-8;04. Full costume for cold weather walking (calm) - woolen cap, netsha, sealskin mittens, bearskin pants, kamiks. Now when moderate breeze is blowing I put netsha hood over my head and the cap on top of that to protect my forehead.

46,6-8,04 Full costume for cold weather sledging - kooletah, bearskin mittens, bearskin pants, mausaks, kamikpaks of deerskin (covering ordinary kamiks). Did not hold my fox tail face protector or carry my deerskin muff, both of which were provided for use against the cold wind that might have been encountered on Melville Bay.

Out to big gulch and back alone. 4 mi.

The southwest wind was keen tho' light.

Capt. P. had his beard shaved off today.

17 April. Monday.

Overcast all day - thinly so with abundant cirro stratus clouds at mid day - Light to moderate S.E. breeze. Light fine snow or frost falling all day. Temp. min -10°; 9a. +7°; 12m. +12°; 12:30 +14° Sp. +1°.

Did not sleep well last night or night before - Too much thinking. Better perhaps to be an Eskimo in attitude of mind - nothing seems to bother one of the natives.

Out with chief as far as the big gulch and back, 4 miles. Light is really more trying to the eyes ~~than~~ on these frosty-aired, hazy days than on a bright, clear day. He says that H.C.P. wonders what I am talking about when I am walking with one of the officers or conversing with one of the crew. He (H.C.P.) seems to think that I am trying

to "get something" on him, but that
is entirely foreign to my wishes.

18 April. Tuesday.

At 9 a.m. nearly clear overhead but hazy lower down, air being full of icy snow driving before a "moderate" (4 or 5) Easterly breeze which seemed pretty strong to a landlubber. Wind became more northerly and colder in the afternoon. Some light frosty snow in air. Temp. min -7°; 9 a. -4°; 12 m -1°; 1:30 p. 0°; 8:30 p. -4°

Too much wind for comfortable walking, hence staid on board all day.

Went down into forecastle and contradicted flatly a story which I heard this a.m. to the effect that the crew were saying that I had held or turned back from Umanak tobacco which Mac Millan sent down to the ship. Small things loom large in the Arctic and troublesome rumors start on little or no foundation. The

crew are much disturbed over the impending tobacco famine. Dr. Hunt told the chief last Thursday that we should not be blamed if we considered it necessary to conserve our tobacco for our own needs, because the captain can get plenty from Peter in exchange for some of the foxskins which he (H.C.P.) has gotten in trade for his own tobacco and other things. But no one of us has yet refused to let H.C.P. have tobacco -

About 9 p.m. Kolutingwa arrived from Cape York, where he got a polar bear which he brought with him.

Average temp. 0 hr. day, + 20° 7.

Nov. mins − 2 2/3°; noons + 4 2/3 (+1); Dec. mins − 6.15 (−3 1/2) noons − 8.2

Jan mins (20) − 17.2 (−13) noons − 8.8°; Feb. mins − 18.2 (−17) noons − 15.9

March mins − 1.8° (+3 1/2), noons + 8.8°; Apr. mins − 6.27 (+1) noons + 8

19 April. Wednesday

Clear, cloudless, calm. Not so bil-

liant, however, as it is sometimes -

Temp. min. -12°; 9a. +4° ; 12m. ; 3:15p. 9°
3:45p. +7°; 6p. +5°

Out with Dr. Hunt to cache at Cape Dudley Diggs. Sat on rocks for an hour and more waiting for Koluntingwa. Keen, moderate N. breeze blew occasionally, making exposed places cold. Warm in sun. Thin snow on black rocks melting under direct rays of sun - At 1:40p. started back alone and met Koluntingwa near the black point. His kamatik was heavily loaded with bear meat and skin, boards from his old igloo at Akpat and a new one from the ship and sundries, but he had ten good dogs and was moving along. He stopped to speak with me, shake hands and say "Good bye," in English. Dr Hunt followed me in and reported that K. had taken on a barrel of flour at the cache - At 9p. sunlight still touching tops southern mts.

20 April. Thursday.

Clear + cloudless; light, variable wind mostly from west. Occasional keen strong puff. Temp. min. -14°; 9a. +8°; 12m. +11°; 4p. +5°; 8p. 0°; 9½, -4°

A lovely day and I went to top of crag abreast of schooner to get its altitude by aneroid. Average of up and down readings 797.5 feet, hence call the value 800 feet. Trip of about three miles between 2:15 and 4p.m. + Alone. Beautiful view, horizon being clear. I could see nothing but ice as far as I could judge. Taylor of crew says he discovered open lead outside of Conical Rock. Saw rabbit tracks. Met Frander on the plateau.

Dr. Hunt got a piece of white-whale skin from Kolutingwa. We had some this evening, frozen and boiled. I preferred the frozen. Had polar bear meat, boiled and baked for dinner. Very good, not being cooked over much.

21 April Friday.

Overcast with cirro cumulus clouds at 9 a.m. but cleared off almost entirely before noon. Calm, & light variable wind.

Temp. min −12°; 9a +5°; 12m. +10°; 2p. +11°; 4p. +10°; 8p. +2.5°

Some St. Vincent work under adverse circumstances o/c company in cabin.

Out alone for an hour and a half around head of bay – about 4 mi.

This evening Dr. Hunt gave up and turned in with the stomach ache, – apparently too much white-whale skin. Dosed up with peppermint by H.C.P.

Norman continues to have great trouble with stiffness, swelling and pain in one leg, but not the one that got frosted. Dr. says that perhaps it is phlebitis – H.C.P. is sure that it is rheumatism. I wonder whether it may not be scurvy.

Sun's rays on eastern and southern mountains after 9 p.m. Stars at 9:30

22 April. Saturday.

Clear, cloudless most of day, calm.

Temp. min +1½°; 9a. +16°; 12 m. +18°; 4p. +16½°; 6p. +6½°

Took Mate Davis for ~~seven~~ eight-mile walk across both glaciers and onto the former nunatak, photographing and taking altitudes. At 11:15 a. sea level, aneroid 110'; foot of big ("Cluett") glacier 11:45, 310' = 200'; first crest of glacier 12:10, 860' = 750'; second crest (Hunt's station?) 12:45, 1010' = 900'; level with bottom of moat 1:05 p., 1240' = 1130'; saddle leading to Cairn Mt. 1:25 p., 1680' = 1570';

East nose of former nunatak, 2:25 p. 540' = 430';
top of " " 2:40 p. 660' = 550';
base of " " 3 p. 190' = 80';
sea level 3:23 p. 110'

47-1-8-02 Furrows and ridges in upper surface of big glacier at crest as seen from ship, which is 900 ft. A.T. by aneroid. 12:45 p. m. These are longitudinal with reference to glacier. and are probably a result of wind action.

47,2; 8,04. Moat between first eastern lateral mountain and the glacier. Southern side of glacier. Produced by wind caroming from moun-

tain during snow storms or moat deposition. Taken from glacier at 1130 feet A.T. on level with bottom of upper portion of moat.

Ahungodablako, Eginguah and Erik arrived about 4:30 p.m., having come up to take Pudlak and family northward. Twelve bears have been gotten this winter in hunting from Cape York.

Cook's name for the old man is "Old Blowhole".

Dr. Hunt examined my heart this evening. Same as at first he says, with accentuation of systole and muscular murmur. Says I must avoid exposure to high wind

23 April Easter Sunday.

Clear and cloudless; calm with occasional puffs light wind blowing out the bay.

Temp. min. +2°; 9a +18°; 12m. +18°; 6p. +15½°.

The three Cape York men started about 10 a.m. for Umanak with Dr. Hunt's baggage and took on the supplies at

Cape Dudley Diggs except a keg of molasses and two tins of butter. Dr. Hunt and I started out about 9:45 and walked as far as the big gulch before the Kamatiks overtook us. Then he jumped onto Ahnqnodablapo's kamatik and went on his way to Umanak and I was awfully sorry to have to say good-bye to him. I walked on alone as far as Broken Rock Point and then back to the ship – 7 miles. About 2:30 p.m. Kudlaktu and Puadlunah arrived from Umanak bringing meat and letters from Ekblaw. They met Dr. Hunt at or near the cape. Kudlaktu speaks a little English. They came for the supplies and will take coal back. They have fine teams of 17 & 14 dogs. Excitement was not over, for about 5:30 we saw three kamatiks approaching from Cape York. Jumped to the conclusion that it was Peter and the two

Eskimos from the southbound party. So I started out to meet them and the chief ran out and overtook me, and we intercepted the first two kamatiks near our ice-supply berg. But it was not Peter. It was ~~Inuootok~~ (Stukasuk) and Mitke from Cape Seddon and Ahnguralokto with his wife and three children from Cape York on their way to Umanak to trade. ~~Inuootok~~ (Stukasuk?) got a bear on the way across Melville Bay. A long journey for trading! There are about 70 dogs on the ice beside the ship. Number of narwhal tusks, one at least 8 ft long.

24 April. Monday.

Clear and cloudless. Calm, or light variable wind - E. at 9; W. at 10 &c.

Temp. min. +10°; 9a. +18°; 12 m. +20°; 3p. +24°; 8p. +16°

The rowboat was put out onto the ice, the main hatch was opened and fourteen

bags of coal were hoisted out and
turned over to the men to take to Umanak. Kudluktu took 8 and Pradluna 6, the former took also a box containing evaporated milk and the griddle iron, so that both kamatiks were well loaded, getting under way about 11:30 a.m. 47-3; 8.04. Kudluktu's kamatik and dogs about ready to start.

About 11:15 the crew began cutting out the ice around the rudder. This will be quite a job and it must be done before there is any danger of movement of the vessel or the surrounding ice, and before the coal can be put ashore -

About 11:30 I started out to photograph the big Bird cliff. In a few minutes Pradluna overtook me. He moved forward on his Kamatik to make room

for me, so I jumped aboard and
rode out to the cache at Cape Dudley Digges. As far out as the gulch there was considerable rather soft snow, but I enjoyed the ride, especially after we reached the smooth new ice a mile this side of the Cape. Some narrow open leads at the cape show that the ice is sure to go out with the next S.E. gale, especially if it comes with the high tides. Stukasuk (~~Inuotok~~) and Nitte went on in company with the Expedition's men. I started back bravely with my 20+ lb. load of malted milk and did not stop to rest until after reaching the old rough ice. After that stops became more frequent and my load became so heavy that I was glad enough to hand it over to Taylor who came out from the schooner and met me 150-200 yards from my destination. My work was unnecessary

because Ahangmalok to would have
been glad to take me out and back, but
I did not think of asking him to do it!
47.4; 8.04 Pinnacle of Bird Cliff west
of the gulch. Should show sea-grotto ele-
vated about 60 feet above the sea.
47.5; 8.02. Grounded iceberg and
its ice foot.

Bear steak fried just right + with onion
gravy for breakfast and good baked
seal for dinner make the day mem-
orable in the food line. We now
have two seals and a quarter of bear

25 April Tuesday.

Clear and cloudless, but windy.-
light to strong from E.S.E or S.E.
6 p. +15°
Temp. min +3°; 9a. +24°; 12m. +23°; max +30°.
Crew continued work on ice about
rudder. They found the ice to be not
more than three feet thick and then-

fore broke through it unexpectedly. 115
The hole of course immediately filled with water, which hindered work and made it very uncomfortable, though Ben did not seem to mind sitting on a plank with his legs immersed nearly up to his knees in the icy liquid.
47-6. 8-02 Crew at work cutting out ice about the rudder.

So windy that I staid on board.

Charley under Captain Pickels's direction took all packages and goods out of the lazarette and began scraping off and removing the frost-accumulations of the winter. H.C.P.'s charts have not been improved by staying in there. Expedition records and films were at once put down into the room, also the narwhal tusks (3).

About 5:30 p.m. Menc and Ahng-

Nodablaho arr. from Umanak having left there at 11 this morning - Leads opening off end of Petowik glacier. Mene brought down two small boxes netting nine pounds of tobacco, but it is Battle Ax and Norman and the chief are greatly disappointed. Norman has been extremely insulting in his remarks about it and about my fancied connection with the transaction, Norman saying that I had hindered its coming down, whereas the contrary is true. He is a regular trouble maker and seems to think that everybody is trying to "do" him - Tobacco sold to Captain Pickels for $3.15 & credited to Eks. Exped. account.

Captain Pickels told me today that he had supplies enough for the probable remainder of the voyage, - among

other things 3 bbls of flour besides that now open, 7 cases of six tins each of the canned fresh meat, plenty of salt beef and pork, at least half a cask of molasses besides the keg gotten from Exped. Biscuit are almost exhausted and beans are low, but there are plenty of peas. The barrel of corn meal gotten from me is all right.

Ahnqmalokto and Aiona (his wife) and children returned to Cape York this morning.

26 April. Wednesday.

Clear, cloudless a.m. + cirrostratus p.m. Light E. wind at 9a. afterward calm + variable. Temp. min +5°; 9a. +17°; 12m. +18°; max +33°; 4p. +15°; 8p. +6°

Ahnqiodablaho left early for Cape York — the old man is certainly energetic!

Mene got away at 11 o'clock with kamik grass, a box of 100 lbs ± of corn meal, and gallon of vinegar from ship. I rode out to Cape Dudley Diggs with him and he took thence

the last of the supplies there – a keg of molasses, 2 tins butter, case of canned peas and some small boxes of yeast cakes. Was glad to see the last of that stuff go. Returned overland from the cache as far the Big Gulch and thence on bay. A beautiful walk it was over the hills, but rather hard and fatiguing. I coned make out no open leads. Petowik glacier presented a fine sight with its light blue edge and top. It seems to me that the glacier does not project into the sea more than two miles from the head land on its southern side, but Captain Pickels estimates the distance at 3 miles.

Crew removed banking from southern side of vessel to-day but did not finish cutting out the rudder. They complain of having to work on short rations.

Eginguah + Erik arrived at 9:15 p.m from Umanak

Mene confirmed the truth of the rumor that Alakotiak [not Alakutsiak as Peter calls it] has gotten married. The boy has gotten a walrus, so that he is in comfort on his honeymoon. Living at Kaskah, I understand.

27 April Thursday.

Clear overhead but lower air thick with driving snow. S.E. wind began to blow heavily about 4 a.m. and was about 4 of Beaufort scale at 9 a.m. according to H.C.P. To the landsman the wind seemed stronger than a "moderate breeze". Wind decreased in afternoon & there were some high cirro-stratus clouds in the sky. Overcast & rather thick at 4 o'cl
Temp. min. +2; 9a. +4°; 12m. +6½°; 4p. +9°; 6p. +9°

On board on account of wind till after dinner, then went out for an hour (3 mi) around head of bay, the wind

having practically ceased. But (120)
it was thick and "murky overhead" and
rather damp and chilly, with Temp. +9°
Seven of the crew with Egingwah and
Erik were playing scrub base ball
on the ice. The Eskimos throw like a
woman and don't get a clear idea
of the game, but they seem to enjoy
playing and they are lots of fun. De-
pression settles over the ship on a
day like this and all troubles are
magnified. Egingwah and Erik brought
a fine young seal to us yesterday,
so that now we have three seal car-
casses hanging in the main rigging.
Hence the captain is saving his beans
and giving us Nanuk steak for bfst.
and fruise for dinner — and some
of the crew kick because the beans are
cut out. The forecastle crowd like

their meat more than well done, while the mate, chief and I like it rare or medium, which is another source of difficulty and the forepeak usually wins out over the cabin, being on the spot while the cooking is going on and old Nathan being afraid that the stuff will not be "done" in time. This evening we had seal meat boiled to the after cabin taste and it was fine. The captain eats neither seal nor bear meat, hence his breakfasts have been pretty light this week. H.C.P. is trying to catch a live fox now to take home with him.

28 April Friday.

Overcast, thick. Wind (of 4 or 5) still blowing, apparently from N.E. or N. Lt. snow falling + much drift in air.

Temp. min. +1°; 9a. +13°; 12m +16°
4 p. +19°; 7:30 p. +19°.
Captain reports quite a gale as blowing about 2 o'clock this morning.
Erik and then Eginapwah started for Cape York between 10:15 and 10:30 in spite of the storm. They said that the wind would be at their backs, hence they must consider it to be from the north.
Dog food is out and they are afraid that the leads will open up again.
Dismal day - Cabin company depressed.
Regular blizzard raged all afternoon, though sun was trying to shine through the haze of drifting snow. By mid afternoon feathery snow was falling and storm was bad. Wind S.E. at vessel.

29 April. Saturday.

Overcast and thick, though sun tried to shine through the haze about

midday. Blizzard continues (123)
to rage, there being no lessening
in the force of the wind at 10:30 p.m.
From 2 to 4 this morning it blew
a "full gale of wind" according to
Captain Pickels.
Temp. min. +19°; 9a +22°; 12m. +25°; 6 p. +22°
On board all day on account of
storm. Such weather is dismal & depressing.

30 April Sunday.

Heavy storm continued to rage
till late afternoon. Much heavy wet
snow fell. Temp. min +22°; 9a +31½°; 12m. 31½°
2 p. +33°; 7 p. +25°

On board all day on account of
storm. Third day of confinement.
Seems to be clearing this evening.
Taylor came in from his traps reporting
that the ice had gone out at the islet
and beyond. Extending the lead north-

ward, this would bring the open <124
water to a line about 2½ mi. from the
ship. Got our coal and supplies
around to Umanak just in time!
We wonder where Eginguah and Erik
are. Fried seal meat for breakfast
and boiled seal for dinner – no
beans for a week ~~or more~~.

Temp. av. for month –
First 21 days mins. – 12°; noons +3°
30 " " – 6.27°; " +8°

1 May. Monday.

Clear overhead. C_2. Wind E 6 feeling
lower air with driving snow. Better at noon
when H.C.P. said that wind was W.S.W.
Temp. min +18°; 9a +26°; 12m +30°; 4p. +32°; 8p. +33½°
Out between 2 and 4 for walk of five mi.
including snow-drift glacier, where noted
enlarged and sharpened cornice of snow
projecting at least 15 ft from face of glacier

H.S.P. was out along north shore 125
after dinner and came in at 8 o'clock saying that he had seen 16 large white gulls (burgomeister?) besides lots of snow buntings.

This afternoon the chief put a second brass patch on the stove on account of holes burned through the brass bands. The stove is beginning to look like the mate's trousers, for repairs made on it.

Snow drift rises a foot above the port rail amidships.

2 May. Tuesday.

Clear. C 2. E or S.E. 6-7 & gusty.

Temp. min. +25°; 9a. 39°; 12m. 39°; 2p. 40°; 4p. 39°

The strong wind has been warm and the snow has melted a lot to-day. This morning the crew cleared snow from the deck and the vessel looks more ship-shape. Thawed out pump with salt and pumped her out. Fine odor from the bilge water, which has rotted for about seven months! Chief went ashore and got

a five-gallon can from a little stream
pouring over the shore cliff from the base of
a snow bank. Mate followed suit.
Seems good to see running water again
after seven months of solid frost.
But we shall have some more cold weath-
er before melting begins with real activity.
Went ashore and walked for an hour
on land and on the bare ice of the bay.
Wind too strong and snow too soft for enjoy-
able walking. Ahnguialoktó propped
an old door against the window of the
igloo, which had been broken by the puppy,
but he left a hole through which
snow drifted in during this last storm.
H.C.P. had the doorway of the forward
house opened up and door removed.
Midnight sun due to-night.

3 May. Wednesday.

Overcast and rather thick to
thick. Little wind. Moderate E in am.

Westerly and variable to calm in p.m. [127]

Temp. min 28°; 9a. 34°; 12m. 34°; 5p. 30°; 9p. 30°

At 9 a.m. Norman called down the companion way that Peter was along side, and surely enough there he was looking fine and with his dogs in good condition considering their long journey. He was followed shortly by Pingasut and Harrigan and not long afterward by Eginguah and Ahnundlungwa. They left Cape York yesterday morning and slept at Akpat. Open water off Parker Snow Point forced them to come over the ice cap from Akpat (Sukkan). Eginguah is going to live at Umanak or north of there to hunt walrus.

Peter and his Eskimos turned back from Green and company two marches south of Umanak ~~leaving~~ on 5 March, leaving our men in the care of Mr. Balla, high priest of North Greenland, who was returning to his home at Egedesminde. This was most fortunate for all parties concerned, since Peter could not have gotten back till late summer by steamer, if at all this year, if he had been obliged to go any farther. As it was, he had some trouble coming up on account of poor ice conditions. Naturally a great load has been lifted from my mind by this safe return with good reports from Green and Jaugpary. The journey has been much more expensive than Peter estimated in advance that it would be, but that is a frequent experience in traveling. Peter brought tobacco for the crew as well as for me, hence I might have saved myself my discussion w. H.C.P.!

Crew removed bawling from port side

4 May. Thursday -

Clear, cloudless or nearly so, calm.

Temp. min. 26°; 9a 37°; 12m. 38°; 4p. 38°; 6p. 30° 10:30, 36°

Crew removed forward shelter house and the schooner begins to look more like a vessel. Chief and helpers repaired rudder head band with chain under H.C.P.'s direction.

Had discussion with captain over removal of coal to beach for Peter. Captain said the agreement of last winter to put it ashore was off because, he said, that Peter told him yesterday that I had said at Cape York that the coal was still mine (the Expeditions). I denied saying or thinking any thing of the kind but H.C.P. said that he would not require the crew to do the work without pay. I said that the best that I could do was to offer 2 lbs. smoking tobacco to each man. Then H.C.P. agreed to see that the coal was put ashore all right. Peter afterward told me that he did not tell the captain that, because I did not say it. H.C.P. is extremely disagreeable in his attitude toward me. He thinks that he has cause for feeling sore, but I think otherwise and that he is the one who has treated the Museum, the Expedition and me badly. I wish that I were well out of all this mess. [See p. 137.]

About 11 o'clock Peter and the Eskimos started for Umanak on the sea ice. Photos with graflex 16, 1½ 8/35 of Peter unbraiding dog traces and of him starting. I rode out with him nearly to our cape cache about 4½ miles. Saw some seals on the ice. Peter and the other men climbed up on the rocks to examine the prospect. Reported impassable leads and all turned back reaching ship about 1 o'clock. Peter wanted to wait till evening before starting over the ice cap, but the Eskimos did not want to delay, hence in a quarter hour all were under way again. I rode out about five miles with Peter nearly to where first high ridge begins to be steep and walked back, getting to ship just at dinner time. Snow surface not bad for walking down hill and much better for sledging than was expected. I asked Peter to give each of the three Eskimos – Jatiak, Pingasut and Starrigan – who gone to Upernivik and beyond 10 kr as a gratuity and add it to the Expedition's bill.

Rabbit stew for dinner.

Bein saw ~~+~~ heard a little auk this afternoon and got a rabbit. Mate went over to or near the big (Clutt) glacier and reported the icicles gone and a stream of water flowing from the front.

The big snow drift on the port side of the vessel has bent the ice down and slightly increased her list to port, but this varies in amount with rise and fall of tide.

Peter took S. Greenland sledge away with him.

5 May. Friday.

High, detached cirrus clouds, calm. But heavy south or S.E. wind began to blow about 5 p.m. and rose to half a gale. Max 44°
Temp. min. 24°; 9 a. 38°; 12 m. 42°; 4 p. 42°; 8 p. 38°
Before seven this morning Itukasuk, Nuitte and Koludena came in from Umanak without having seen Peter & Co en route. Koludena is going to Cape Seddon to marry Innutok's widow, and his kamutik is loaded down with his share of the housekeeping things. He even has a frame for a kajack. The men slept today and started on for Cape York via the ice cap about 6 p.m. in spite of the high wind. H.C.P. and I were planning to go over to Cape York with these men and visit the new meteorite, but gave it up on account of Peter's report that Ahungnodablaho and Erik were about to come northward ("in a coupe of days"). We (or I at at any rate) would not have cared to start over the ice cap in the face of the gale now raging.

I went out alone to Broken Rock Point, 6+ miles of walk. Did some photographing and took some geological notes on the Bird Cliff. Lovely spring day and I was out on my walk about five hours, enjoying it very much. Most of the time I was too warm wearing my netsha and therefore carried it on my arm. Warmth has settled the snow so that the going was very good.

H.C.P. himself fired grass on cliff slope this afternoon, quite extending area burnt over by the crew yesterday. Did not seem to burn into the peat, they say, and soon we'll have a fine green lawn to look at. Plenty of kamik grass left, if they don't burn over a lot more of the grassland. I hope that they let it alone. Chief put a prop under one side of stove this evening.

Taylor climbed the cliff last night and saw the sun at midnight.

6 May. Saturday.

Clear, cloudless, calm. Last night's wind died out between 3 and 4 this morning. Temp. min. 27°; 9a. 38°; 12m. 41°; 5:30p. 38. max 44°. "Thousands" of little auks were seen by some of the crew flying about the cliffs early this morning. Ben shot one and ate it raw. The birds disappeared before I went on deck at 9 o'clock. Mate heard some murres. Crew removed after shelter house and I extinguished cabin lamp at 11:17. We all are rejoiced to have the sunlight enter the cabin once more. Tried to do some work on St. Vincent, but could not accomplish much with the noise of the work overmy head and the talk of the captain and men. Snow is soft for walking. Quite a pool of water around the vessel in trench left by removing the banking. Glad to get fresher and dryer air in the cabin. Developed roll of films after noon - overexposed. Chief took off his beard and looks odd enough. After dinner and cards left vessel at 8 p.m. and walked for two hours, visiting front of the big Cluett glacier, route covered about 4 miles. All the array of icicles has disappeared. I am sorry not to have gotten a photo of it, but chances of success seemed poor, anyhow. Blue color gone now through soft and porous character of front due to warmth of sun's rays. Vegetation is beginning to show life - willow twigs softening. Stream of water 1-2 ft. wide and 2-4 inches deep is flowing away from the glacier. Saw none coming from the other glacier, but I did not go close to either of its bases. Ground is quite boggy and spongy where there is earth or turf. Green is showing strong in the moss.

Canvas house was put on on 14 October, hence has been on a week less than seven months

7 May. Sunday.

Clear & calm. C4 at 9 a.m., but cloudless afternoon (or nearly so) max 38°

Temp. Min 12°; 9a 33°; 12m 37°; 4p. 36°; 6p 35°;
Took photos 9x16., 4-12, of captain and crew in winter costume on ice near vessel -

From 11 to 4 out alone to big gulch and via that to top of Bird Cliff and the summits on the plateau. Took elevations - Bay ice at gulch 410' 12m -
12:45p. Edge of cliff first section 1170' = 760' A.J.
12:53p. Do above pinnacle photo'd 1190' = 780' A.J.
1:02p. Do. highest point second section 1250' = 840' A.J.
1:35p. High point above Broken Rock Pt. 1560' = 1150' A.J. (Highest point visible from Cluett)
1:42p. Highest point of bluff mass 1580' = 1170' A.J.
2:55p. Bay ice at foot of gulch 400'; ∴ average wld. add 5 ft. to A.J.'s given above.

In big gulch about 100 feet above bay there is a 3 foot bowlder of schistose augen gneiss augen consist of Carlsbad twins of feldspar about an inch long, extremely thick, parallel position, long axes parallel to schistosity. Handsome specimen. Plateau has on it some of Pudtlak's lines of stones for the attachment of rabbit snares - may long antedate Pudtlak! Three remains of little auk caches, one of which was near edge of cliff above the pinnacle -

Saw no erratics, surface being wholly covered with frost-rounded, subangular, and few angular fragments of local rock, nearly or quite in place. Diabase sill or dike shown as a band of darker debris amid the feldspathic gneiss. Change from feldspathic gneiss to hornblende gneiss can be made out in spite of coating of lichens. above Broken Rock Point the gneiss is very black from the contained hornblende -

Beautiful day and beautiful view - Wide open lead around Cape Dudley Diggs and extending northward well off from point of Petowik Glacier and toward Cape Athol. Toward Cape York leads are broad and

numerous. Network of open leads extends westward for miles. Limit was hidden in ~~fog~~ low fog showing proximity of open water. Later this low bank of fog rolled in beyond Conical Rock and even into a streamer into south side of bay. Soon dissipated.

Pelourie Glacier, like the icebergs, has lost most of its blue color through softening of the ice and does not look nearly as beautiful as it did ten days ago (26 apr.) when I walked over the mountain after leaving Mene.

Noted two ivory gulls, a falcon perched on a rock on the plateau, snow buntings, one little auk, a fly, a caterpillar, willow catkins shedding their seeds, two widely separated last years eggs prob. of little auk.

Gentle breeze from S.S.W. on summit.

Much grass, moss and earth in patches on the plateau, especially above the eastern part of the Bird Cliffs.

Rudder freed itself from the ice today and the ship is now loose all around.

8 May. Monday.

Clear, cloudless, calm. Light puffs of wind, variable, in late afternoon and evening. Temp. min 18°; ~~12 m. 39~~ 9 a, 34°; 12 m. 37°; 4 p. 37°; 7:30 p. 30°
Max 39

Crew bent on spanker and rove gear for all the big sails. We could sail now if we had to, or had a chance! They hoisted spanker of course in bending it on.

Out with H.C.P. to Broken Rock Point looking for the local "quarry" of soapstone used by the Eskimos. H.C.P. visited it with Pudlak but it was hard to find again under the changed conditions of snow and light. He found it, however, 1/2-3/4 mile east of the big gulch in the cliff just above (20-25') the level of the bay. Pleasant and interesting walk, disagreeable topics being avoided.
Footing rather soft + the 7 mi. walk was enough.

Trickling of snow water down the gulls in the face of the bluffs makes pleasant music. Saw only two gulls, one raven and several snow buntings.

Chief put patch on front of stove today.

9 May. Tuesday.

Clear & cloudless. Calm or nearly so. Low, light fog in outer bay early. Went outward ca 9a. Temp. min 18½°; 9a. 29°; 12m. 35°; 4p. 37°; 8p. +27°

Early this morning Ootah, ahpelingua Karkah (name o.k.?), with their wives and children and Peter's deaf and dumb ward, 14 Eskimos in all, arrived from Umanak on their way to Akpat, Cape York and Cape Seddon. I make out that they are going to stay here for some days and then distribute themselves down the line. Ootah says that he and his family are going to Cape Seddon for the summer, returning northward when the sun is down. This seems to me an odd arrangement of time, but he says he has plenty of meat at his igloo. The deaf mute is going to his sister at Cape Seddon. The Eskimos came on six kamatiks and have pitched two tupics on the beach near Pudtlak's igloo. They brought a kyack and a set-up kyack frame with them. These look like awkward loads for kamatiks. Two of the men went out hunting seals but saw none. Ootah's wife mended up my kamiks.

Went out after dinner for 2 hr. walk, going to the lateral moraine on north side of the big (Cluett) glacier. Leaf buds on the willows are swelling, moss is putting out new leaves, green leaves really begin to show under the dead brown leaves. Spring is coming rapidly now, apparently. Let it come as fast as it will! The stream from the ice front of the Cluett glacier is so strong now that its gurgling is audible a half mile or more away.

10 May. Wednesday.

Clear and cloudless. Moderate to fresh easterly or southeasterly breeze from early morning to about 5:30 p.m.

Temp. min 19°; 9a. 35°; 12m. 35°; 3:30 p. 37° 6:30 p. 34°. Max. 37°

Crew began removing coal from the hold and got nearly half of it out and piled on the ice alongside, when the captain stopped the work, because the vessel was not rising in response to the lightening of her load.

Clouds of auklets flew along the cliffs between 1 & 4:30 this morning and then disappeared. Ben got three and the Eskimos ten of the birds. H.C.P. secured them and we are to have them for dinner tomorrow. The birds were caught with nets like long handled dip nets. They fly too high now for much success with nets.

Out alone for walk along shore this morning and after dinner for five mile walk around head of bay to snowdrift glacier and directly back.

Chief told me day before yesterday that fly wheel was loose on crank shaft and thrown out of position before "Cluett" reached Boston from New York. This could be established by testimony of engineer from Wolverine Co. who was on the vessel.

Ootah says that Pudlak and family are occupying his igloo at Kiatek and that Pretlak's baby has not arrived yet. Pudlak's igloo here is a desolate looking place now with the floor and platforms covered with cans, debris snow and frost - a forlorn place for human habitation.

"Scouse" for breakfast. Hare stew for dinner.

Changed plates and got graflex camera into shape for fresh use in evening.

11 May. Thursday.

Clear but over cast a.m. Light clouds and cloudless afternoon. Water fog thick well out at sea. max 33°

Temp. min 25°; 9a 29°; 12m. 29°; 4p. 30°; 7p. 30°

at 8:50 this morning, while I was getting ready for breakfast, I felt the vessel give a sudden jerk. She had freed herself from the ice adhering to her port side and could onto an even keel. Her port side rose about a foot and the chief's snow bridge is now something of a jump down from the rail.

Crew piled on shore the coal which they removed from the hold yesterday.

With chief's aid overhauled Ernemann motion picture camera, cleaned its gear and got it into running order.

Captain Comeis snow igloo has disappeared.

Walked out alone for about an hour before dinner along north shore side of bay.

Scouse for breakfast. Stew of auklets and canned roast beef for dinner, also stewed dried peaches. The birds were good, but there was only one apiece - except that H.C.P. served me two. It would take from four to six to make a good meal for a man.

Last evening Ootah and company struck their tupics and started over the ice cap toward Cape York. At 1 this morning they were just about to disappear over the crest. H.C.P. bought a shaggy puppy 4 or 5 months old from one of the men and it makes night hideous with its howling. Not very friendly yet except with Ben. The hustlers ransacked Pudtlat's igloo for anything of value to themselves.

There were no auklets on the cliffs this morning, hence H.C.P. had to postpone his intended try at netting some. Sea fog came into bay about 8 p.m. producing curious illusions of distance as one looked across bay toward invisible south shore.

12 May. Friday.

Overcast and thick. Light snow falling and calm at 9 o'clock. Somewhat clearer at 10 and after, snow ceased, disagreeable light breeze came up from the south. Chilly, rather strong before noon. (Clear p.m. too cloudy to see land or sea long at sea.)

Temp. min. 19°; 9 a. 32°; 12 m. 28°; 4 p. 28°; 7 p. 25°.

During my talk with Captain Pickels on 4 May (see p. 128), he said that stopping at Upernivik cost us Melville Bay. This was the first time that this idea had been advanced in my hearing. I doubt the justification for the statement. We certainly had a good strong breeze during the afternoon of the day on which we arrived at 1 p. m. at Upernivik anchorage and it was too rough for us to go ashore that evening; but the wind died out during the night and the following day (11 Aug.) was calm, - so calm that H.C.P. would not leave, said then that it was not advisable to get under weigh. Of course we should have covered a good many miles with the breeze of 10 Aug. but probably should not have gotten more than half way from Upernivik to Devil's Thumb before losing the wind - as I have said the 11th was calm. On 12th we had light N. wind; 13th same; 14th calm; 15th brisk wind from N.N.W. In early morning of 16 Aug. we were off Devil's Thumb. ~~Neither~~ No one can say how much if any appreciable time we lost by stopping at Upernivik, but neither Captain Pickels nor Captain Comer said a word against stopping there. It seems to me that they should have pointed out to me the risk of stopping, if they or either of them had felt that there was any. With my present experience in the arctic and knowledge of the "chart", I would not stop there again in an auxiliary schooner under similar conditions. The stop was made with the advice and approval of Peary and other men of experience, in order to learn about the ice conditions in Melville Bay - But we learned nothing.

Crew took remainder of coal out of the hold and finished piling it on the ice and closing the hatch just before noon. The bags are poor and some are in bad condition, but there has been little loss yet. The men used a ball of twine sewing the rents in the bags before hoisting them. Better bags should have been used in the first place. If I have anything to do with outfitting another arctic expedition, I shall advise using anthracite coal only and bringing it up in good bags running 20 to the ton.

Got in three or four hours on St. Vincent work, calculating distances at crater.

Day has been unpleasant and chilly but I took a 3/4 hr. walk up and down good ice in this section of bay before dinner.

Breakfast: scouse, cornmeal mush, molasses, bread, butter, coffee, milk.

Dinner: pea soup, corned beef, canned tomatoes, salt pork, potatoes, turnips, bread, butter, tea, milk, molasses for sweetening.

13 May. Saturday.

Clear, cloudless or light clouds, calm and light S. & S.W. winds

Temp. min. 28°; 9a. 36°; 12m. 37°; 4p. 35°; 9p. 27°

Crew took about half the coal ashore.

I worked on St. Vincent crater calculations and developed a dozen plates.

Ahnqnodabbaho and Ahnqualokkō came in from Cape York about 12:30 this morning. They brought a kayak and boat for Erik who is coming soon. Etblaw with Mene and Eginquahsuah arrived from Umanak at 4 p.m.

just in time for dinner. About 5 p.m. Sigdlu, Pingasut, Alacotiak and the Kiatek missionary and family of wife and three children followed in from Umanak on their way to Cape York where some of them are going to settle for the season. At about 6 p.m. all the Cape York people started for the south over the ice cap.

Photos. 17,1. 8/50 Alacotiak and Kamatik with kayak on it.

17,2. 8/50 Kiatek missionary and wife beside their kamatik. Inuk

17,3 8/35 Mene and Sigdlu beside a kamatik.

17,4. 8/35 Sigdlu and Eginquah beside the former's kamatik.

Alacotiak says that he got married all right.

Suitcase came tagged "Dr. Hunt, Bangor".

14 May. Sunday.

Overcast and with low cloud or fog on ice cap and mountains till late afternoon but cleared to cloudless by 8 o'cl. or before. Temp. min. 26°; 9 a. 34°; 12 m. 34°; 3 p. 36°; 8 p. 27°

Ekblaw and I had a conference this morning with Captain Pickels in which I told him that conditions in N.W. Greenland as reported to me by Mr. Ekblaw and others made it necessary for Dr. Hunt, Captain Comer and me to return homeward on the "Cluett", in case the schooner leaves before the arrival of a relief steamer from the Museum. Mr. Ekblaw said that he would spare 1 bbl flour, 1/2 bbl cornmeal, 1 keg molasses from Expedition stores if needed for the ship on account

of our passage. H.C.P. said that he would not need the cornmeal, might not need the molasses, and might need the flour, though he would take nothing not absolutely necessary, because the vessel will be going toward food, while Mr. Ekblaw will be staying where the war may prevent any supplies from coming this year and he may be facing another winter in the arctic. H.C.P. said that it would be advisable for Dr. Hunt and Captain Comer to be at the vessel on or before 25 June, on account of the early season. Agreed to ~~by~~ by us. Everything amicably arranged, apparently.

Ek and I walked out to Normans ~~Valley~~ Gulch (the "big gulch", formerly "soapstone valley") on the bay and back over the plateau. 5 mi. He showed me many of the different species of plants growing here. He has noted 42 to-day. The big white gull which has arrived is the burgomaster or glaucous gull. Saw an arctic wheatear. We climbed down some steep rock faces in descending from the plateau. Great stretches and areas of open water visible, particularly to S.W. Very enjoyable walk. Report is that two more of MacMillan's men have returned to Etah and that they say that he was going only two marches beyond where they left him. Probably, therefore, he too is now at Etah.

Dog-food being lacking, Ek, Egingwah and Merre started back to Umanak at about 8:30 this evening. They took the victrola records with them. Ek came prepared to take me too if I insisted on going but I decided that it was wise to take the advice of Ek, Hunt and Peter and stay at the ship. Conditions at Umanak are not good and the early season makes travel bad and uncertain.

This morning Ek brought in the first pussy willows that we have seen here. They look as if they had been out for a day or two. Saw more in Norman's Valley Gulch. On the west side of this gulch 300 yds or so from the bay Ek pointed out a shelter wh. Inatliak must have used in netting auklets. Circular wall of stones built up high enough to give concealment to the hunter. There are several of the old Eskimo stone fox traps on the plateau. These are small spaces inclosed and roofed over with flat stones. When in use they are provided with a flat slab which slides or falls in a manner to close the entrance when the fox springs the trap.

On the sides of the gulches noted many characteristic flows of earth, sand, gravel and stones presenting some of the features of glaciers. These are important factors in soil flowage.

Beans for breakfast. Canned beef for dinner with rice for dessert.

Ek says that the single eggs found on the plateau were cached by the foxes. We saw several today.

15 May. Monday.

Clear, C1, calm. Apparently a light N. wind outside.

Temp. Min. 26°; 9a. 35°; 12m. 34°; 9p. 27°

Crew finished putting coal on shore and I gave them the promised tobacco for doing it.

Wrote letters to Ekblaw and MacMillan giving authorizations, instructions and requests, to be effective in case of my going homeward on the "Chinett"

On board all day.

16 May. Tuesday.

Overcast + cloudy all day. Heavy fog out on the sea and fogbanks resting on the cliff tops and mountains. Calm or very light westerly winds.

Temp. Min. 27°; 9a. 33°; 12m. 36°; 5p. 36°; 10p. 27°; max. 37°

Early this morning — 10 o'cl + after. there arrived from Cape York Erik, Bahina + baby, the old

Atengana
widow and her two sons, Pingasut and Ala-
cotiah; and from Umanak en route to
Cape Melville Ooqriah and his wife and two small
children. Ooqriah was one of the North Pole party
~~and I thought that we had seen them all~~
so that now I have seen them all. He told us,
in effect, that there were four ~~Eskimos~~ Innuits
and two Kablunas at the Pole." He counts Matt
Henson as a Kablunna or white man.
I took two photos of Ooqriah and his family
standing beside Erik's tupic.
Walked alone over to the front of the big Overett
glacier and took four Graflex photos of it. The
flat ground is getting very boggy but not un-
pleasant yet to walk upon. The turf feels good
to kamiked feet after walking over stones.
Got the old woman to sew bearskin chin &
~~wrist~~ wrist pieces onto my netsha. Also bought pair
of white sealskin mittens from her. Gave her
1/4 lb plug smoking tobacco and a paper of needles.
Bought from the chief for a pound of tobacco
the knife that he made last winter and sent it over
to Ek.
About 5 p.m. Pingasut ~~and Alacotiah~~ started for
Umanak taking Mate Davis with ~~him~~. He is go-
ing to repair Peter's motor boat for him.
Crew put ashore lumber wh. H.C.P. sold
to Peter. Cleaned up hold and secured
old and spare sails from rats, brought up fore-
stay sails and top sails.
During the night the rest of the Eskimos depart-
ed, except the old widow Atengana and one of her
two sons who slept in the open on the beach,
wrapped in their furs.
Bft. curry of canned beef and rice.

17 May. Wednesday.

Clear, cloudless, light air from S.W.
Temp. min. 20½°; 9a. 34°; 12m. 33° 7h. 30°
~~Shukashunna~~ (~~name ok.~~?) from Igloolahane
arrived from Umanak about 10 o'clock last night
~~Inkas~~ Silkisunna
en route to Cape Melville. He is the most primi-
tive of all the natives that we have seen. H.C.P. got
from him a bow-drill made from a walrus(?) rib
in exchange for a spoke shave.
Auklets were on the cliffs in myriads this
morning and made a great noise with their
cries and the whirring of their wings.
This whirring is surprisingly loud and
~~Shookashunna~~

that from a passing flock sounds much like the surf beating on the shores, the more like the soughing of the wind through pine trees. H.C.P. was out with some of the crew (Ben, at least) at 2 a.m. and Shukashuna on the cliff netting auklets. They got #44. Ben caught one yesterday in his hand.

Crew bent on foretopsail and topsails today.

Went over to beach where I found Atengana seated among her sleeping furs just finishing a pair of kamiks for Charley. Had her sew up some rips in my kamiks while I walked along the beach southward. I think that the stream is running through the break in the beach 50 yds. south of the coal cache, because the snow bridge sounds hollow. This is the northern of the three streams emptying into the bay and brings down the drainage from the route to Umanak. Went on to the middle break in the beach, through which the discharge from the big ("Cluett") glacier passes. The stream is now flowing through the break and forms open water for 50-75 yards beyond the beach crest. The lake behind the beach shows considerable open water, which I saw yesterday. Several burgomaster gulls were along the open water and were quite tame. Ooquiah crossed the pond in his kamatik last night, but he must have gotten wet doing it.

Took two photos (9x17, 11x12) of Atengana at work.

For several days we have heard distinctly the dull roar of the surf beating against the outer edge of the bay ice and crunching the cakes together. The line of black, open water stretching clear across the bay is in plain sight from the deck of the "Cluett", but three miles of five foot ice intervenes and keeps the vessel imprisoned. Ootah says that the ice will break up on the June high tides. They will come 26-28 June, and we hope that he is a good prophet.

Alakutsiak (Alacotiak) took skins away from roof of Pudlak's igloo yesterday, leaving the place open to dry out this summer.

Shukashuna started for Cape York via the ice cap about 2 p.m.

18 May. Thursday.

Overcast or very cloudy all day. Air rather raw and chilly. Wind W. & N.W. 2-4, puffy. Temp. min 22°; 9a. 30°; 12 m. 34°; 4p. 35°; 6:30p. 28°. Many auklets have remained on the cliffs all day, evidently with the purpose of nesting here, but most of the clouds of birds that arrived early this morning went on elsewhere before noon. I was ashore before breakfast and concealed myself in a nook among the large blocks at the foot of the talus slope near the big coal cache. The flight of the birds is interesting and somewhat exciting, particularly when they fly within three feet of one's head as some of these did this morning. Their speed is very high and the birds pay little attention to a man, even when he stands in the open, but they seem able to see and dodge a net when it is raised too soon. Taylor knocked down several birds with stones today.

Developed roll no. 46. Wrote letters. Out after dinner for an hour's walk. Unpleasant and threatening, with snow pellets coming in squalls.

Bft. fried auklets. Dinner, auklet stew. The birds are excellent, tender and not at all fishy.

19 May. Friday.

Overcast and thick. Light winds from west. Began to snow about 2 p.m. and snowed thickly from 3 to 5 o'cl. A wet snow melting as it fell on the vessel. Water drifted into cabin between deck planks. Quite a shower bath. Sun broke through clouds about 6:30 for little while.

Temp. min. 24°; 9a. 29°; 12m. 29°; 4p. 28°
Sun broke through clouds about 6:30 p.

Crew brought 9 bbl. kerosene on board from the old shore cache and stowed them in the forward hold. H.C.P. strung line of ashes out fifty yards or more (75?) toward shore - and he and Taylor gathered up coal that fell from bags as they were piled on the ice and bagged it - 3 bags full. Put ashore with rest of Peter's stock at new cache.

All the little auks disappeared from the cliffs last night and none came to-day.

Charlie mopped up the cabin floor this morning. I asked him whether he did not know that this was Friday. "Oh, yes" he replied "but there might be a ~~kk~~ putty auks to hunt tomorrow morning!" He showed more fore thought than I thought he possessed.

On board nearly all day. Cleaned up my room, aired my sleeping bag, did some St. Vincent work. Took an hour's walk in the snowstorm in the afternoon on the hard ice along shore east and west of the vessel. The falling snow ~~is~~ was soft and wet, melting as it fell on the vessel. We had quite a shower bath in the cabin from the water dripping through the cracks in the dried-up deck.

Breakfast - curry of canned beef and rice.

Dinner - baked auklets. Best dish that we have had in many a day. The birds were tender and delicious, reminding one of squab in size and flavor.

20 May. Saturday.

Thickly overcast till late afternoon. Began to clear about 5 p.m. with northerly wind. Westerly or southwesterly before that.
Temp. min. 25°; 9a 30°; 12m. 29°; 4p. 30°; 8p. 29° calm

Unpleasant day, but countless little auks flew and lighted along the cliffs. Ben got 65 to-day. He is by far most successful. Taylor next. Walked along trail on north shore from 1:30 to 3:30 ± watching birds. Visited Pudlat's igloo and collected small soapstone lamp.

Place looks desolate enough now and one could hardly think that it had ever been or could be made a comfortable habitation for human beings. Much snow, ice and debris in there and sealskin lining hangs in torn folds. Undescribable filth pollutes ground for ten yards around the igloo. Wrecked harmonica on bed.

The welcome black zone of open water outside the bay seems to be working its way gradually inwards. Would do much execution to the bay ice, if ~~we~~ there could only ~~have~~ arise a strong westerly gale of wind.

Bft. – curry of beef and rice. Dinner – baked auklets.

After dinner the Captain and Taylor went out as far as they considered safe toward the open water. They came back reporting ~~the~~ (H.C.P.) the april ice all gone out and the old ice breaking up into pans and cracking for a half-mile back from the ~~do~~ edge. They could feel the ice moving under them with the swell and could see the outer cakes grinding together under the influence of the moderate to strong northwest breeze. Prospects ~~good~~ for much ice going out with next week's high tides. They saw a good many eider ducks and some seapigeons. Taylor got one of the latter with a lucky rifle shot, decapitating it.

~~Used last of biscuits (hardbread) at dinner in evening.~~

21 May. Sunday.

Overcast. Westerly (N.W.?) wind 2.

Temp. Min 23°; 9a.33°; 12m.31°; 4p.32°; 7:15p.31°

Little auks absent this morning.

The last fragments of biscuit (hard tack) disappeared to-day. Tarangi clean shave again last night. Moustache was altogether too white!

Out for a short walk before dinner.

Cleared off after dinner and night was magnificent from 6 p.m. Sun disappeared behind high cliffs at 7:10 p.m. mean time. Norman and some of the crew went out to top of the big bird cliff beyond the gulch. Reported open water and few bergs as far as the eye could see.

Bft. – curry ...

22 May - Monday.

Overcast. S.E. & dying down toward noon and becoming light westerly by mid afternoon. Heavy black clouds in W. somewhat misty 4 to 5 o'c p.m.

Temp. min 19°; 9a.30°; 12m.32°; 4p.28°

Comparatively few little auks on cliffs this morning and all had gone by 9 o'clock. Ben ~~got~~ 23, however. The birds are covered with fine gray down under their white feathers. Head, neck and wings are dark slate color, almost black. Quite a job to pluck the birds, but crew do it since H.C.P. is saving the feathers, which seem good for pillows and cushions. Charley has the job of singeing off this down, which he does by means of a red hot poker. The other night he was talking in his sleep about the birds and caring for them. He asked the cook how they were coming on and to the cook's answer he replied "Let her singe". This remark has become a byword now among us, but Charley does not seem to care.

Got in a little work on St. Vincent.

Out ~~for~~ before dinner for an hour's walk, going toward the big gulch (Normans gulch) Noted cracks and cracking in the sea ice. Favorable to the break-up which will come day so.

My party should be in Copenhagen now if the "Hans Egede" came according to schedule and they reached Holstensborg per plan.

H.C.P. had a hand net for catching little auks fixed up for him today. Offers me the use of it whenever I may want it. He has been much more agreeable since his ebullition while Peter was here and now seems to be trying to be courteous and sociable - too sociable in fact for the good of my work.

B'kf. - curry & beef & rice. Dinner - corned beef. string beans.

Ben and Taylor got 8 akpats (murres) at the Bird cliff beyond Norman's gulch after dinner.

23 May. Tuesday.

Overcast and snowing. N.E. 4-6 or 7 stronger
Temp. min 24°; 9a. 28°; 12m. 30°; 4p. 28°
Stormy, disagreeable day. Staid on board reading "Our Mutual Friend".
Storm over and somewhat clear after dinner.
Bfst., scouse and fried auklets
Dinner, baked auklets. Last of butter.
During night felt vessel moving under influence of ground swell. A good feeling.

24 May. Wednesday.

Clear and cloudless. S1 & variable.
N 2 for of afternoon.
Temp. min 22°; 9a. 32°; 12m. 36°; 4p. 31°; 8p. 29°
Tried my luck at netting little auks with the captain's new net. Struck one fair, but knocked it against cliff and lost it. Net was too shallow and flat. Hit the wing of another. They fly with surprising velocity. Was on face of cliff 75 feet above new coal cache. After watching the auklets for a time, I started up the cliff and went to the top of the mountain. Open water outside the bay as far as we could see, and more free from bergs at a distance than near shore. Not more than 2½ miles of ice now between the vessel and the open sea. Yesterday's storm carried away a broad belt of our imprisoning ice and the swell produced many cracks in what remains. Open sea extends far northward. Ice around Cape Athol and Wostenholme Island. Beautiful sight!

went eastward and circled the head of the bay on land returning across bay ice - a ~~hard~~ hard 5-6 mile walk, on account of the rocks. Saw first flowers of the season - white scurvy grass and purple heather. Little water running from Cluett glacier. None seems to have come yet from the divided glacier.

Crew brought lifeboat from beach and left it on the ice alongside the vessel.

Murre (akpat) stew for dinner. Very good. Taste somewhat like that of duck. Rest of menu - bread, tea with molasses and milk, dried peaches.

Crew got 162 auklets today, of wh. Ben netted 108, Charley got 5 with a club + H.C.P. 3. Ben and Taylor got 12 murres at the big cliff in the evening. The boys report many cracks in bay ice from ~~to~~ about 1½ miles beyond vessel outward.

25 May. Thursday.

Cloudless before 9 a.m. but low fog was coming in and by 10 o'clock we were covered with the cloud about 600 feet above us. Light westerly air and variable. Fog lifted considerably about mid afternoon.

Temp. Min. 22°; 9a. 31°; 12m. 32°; 4p. 35°; 8p. 27°

Chief took photos of me in my furs.

St. Vincent work.

Crew used gasoline blow-torch for singeing their birds. Great improvement over Charley's red hot poker, doing 170, including murres, in about a half-hour.

After dinner H.C.P. and Charley went out nearly to the edge of the ice and returned confirming report that the ice beyond the large berg 1½ mi. out is cracked in every direction ready to form floes and pans.

Auklets are apparently getting ready to nest for they do not fly about so much.

Out for about a half-hour's walk just before dinner.

26 May - Friday.

Would be cloudless, were it not for thin masses of fog hovering around and level with the tops of the cliffs and mountains. But the fog thickened much soon after noon.
Wind W and light, say 1 to 2. Temp. water 38°
Temp. min. 25°; 9a. 30°; 12m. 35°; 4p. 35°; 8p. 26°
Crew rove sheets and tackles onto the big sails.
Walked out to the large berg in the middle of the bay about 1½ mi. from vessel, found the exercise rather fatiguing. Crossed two long cracks transverse to the bay about a mile out, but could not see the numerous cracks beyond the berg reported by the captain and others. There are some noble, big bergs outside the bay which are drifting southeastward along the coast. Charley's 15th birthday.
St. Vincent work. David Copperfield
Bfst: cornmeal mush + molasses. Fried anlets
Dinner: alepat stew, bread, prunes.

27 May. Saturday.

Clear and cloudless at 9a., with wind W. 1 - 2. Thin clouds and some fog around noon, but by 2p. sky was clear, cloudless, calm.
Heavy westerly (?) wind squall raged from about 4 to 5 this morning raising swell which affected the vessel.
Temp. min. 20°; 9a. 30°; 12m. 36°; 5p. 37°; 10p. 30°
Spent about four hours of this beautiful day on shore near the new cache, watching the little auks as they flew about, perched on the rocks or made love to one another. Took two reels of motion pictures with aid of the chief, who carried the camera ashore and back again and threw stones at the birds when I wanted them started up. In company with Fiander tried my hand at netting birds and caught two thus. After dinner I caught a disabled one on the ice foot at the cache, in my hands

Captain Pickels and Taylor went out to Nor-
man's Gulch and beyond. Lots of murres and
gulls about the big Bird Cliff. Saw many cracks
in the ice, which is getting into bad condition.
Lead two or three feet wide comes in midway
of the big bluff and looks hopeful for speedy
departure of the ice beyond it.

28 May. Sunday. New moon.

Overcast, thick outside. Wind S.E. (or E.) 6-7
Died out latter part of afternoon (St C.P. says it was N.E.) and began to snow.
Temp. min. 25°; 9a. 28°; 12m. 29°; 4p. 28°
Day is chilly, blustery and disagreeable,
but we trust that the high wind, which began
to blow off the ice cap early this morning
will drive away some ice. Let her blow,
as hard as she will, we all say. The hard-
er the better for us. No auklets on cliffs to-day
Br Bft: cornmeal mush, fried bacon, baked auklets.

Dinner: pea soup, baked auklets, boiled salt pork, potatoes,
turnips, dried peaches.

29 May. Monday.

Overcast a.m. with granular snow falling
from about 10 o'clock for ~~a~~ an hour or more
Wind S.3. Cleared off soon after noon
and became cloudless, except for low-
lying water fog in distant west. Wind 5-6 came
out of the north. Keen and gusty.
Temp. min. 25½°; 9a. 30°; 12m. 30°; 4p. 28°; 9:30p. 29°
Clouds of auklets on cliffs to day and
crew netted about 150 of the birds.
On board all day except for short walk
just before dinner. Wind too strong and
disagreeable for comfortable walking.
St. Vincent work. David Copperfield.
Bft: oatmeal, little auks.
Dinner: macaroni soup, salt beef + pork, potatoes, turnips

30 May. Tuesday.

Cloudless morning, though somewhat hazy. Wind E 2-3. Gradually grew thicker and by 6 p.m. heavy S.E. gale (8-9) was raging and the air was full of flying fresh snow. Worst storm that we have had for some time.

Temp. min. 28°; 9a. 39°; 12 m. 39°; 6 p. 39°; 9:30 - 35°

Mate arrived with Mene about 3 a.m., having made the trip from Umanak in 8 hours. All well at Umanak. Plenty of seals there. Eginwa made the trip across a fortnight ago in 6 hours. Mate brought letters from Eklaw and Peter which kept me busy for some hours and then the wind was so strong that I did not go out and now - 6:30 p.m. - the scene outside is so wild that we are glad enough of the shelter afforded by the ship's cabin. Mene says that Silkisuna, who was here on 17 May, returned to Umanak over the ice cap without coming down here. He brought back some effects from his old igloo east of Cape York, near Cape Melville. The Eskimo name for Cape York is Iqnaqanounni. (Nominative Iqnaqanak?)

Snow ceased ca 8 o'cl. but gale continued raging. Mene went out and got 40 little auks.

31 May. Wednesday. Av. Temp { mins 21°.5 hours 34°.1

Overcast + thick. Wind S.E. 4-5. Latter part of afternoon full gale raged at times. Rained hard last night and again from 5-7 p.m.

Temp. min. 33°; 9a. 37°; 12 m. 36½°; 4p. 37°; 8p. 35°

Mene started for Umanak ca. 11 o'clock but came back ca 2 p.m., having found travel on ice cap dangerous from thick atmosphere, heavy wind and driving snow. His poor dogs have had nothing to eat for three days.

Went out for walk soon after 3 p.m. but snow was so wet and there was so much water in pools on the land ice that I came back on board after 15-20 min. The house is still so dry that the cabin ceiling leaks a good bit.

Mate put tin and canvas patch over the stove in plank amidships on port side.

Vessel shook and knocked against the ice considerably last night, but could go backward only about 6", despite all the heavy wind. To-day a line was run out from her port bow and made fast to the ice and fenders were lowered on the port side.
– Merle fed his dogs this evening on the little auks which he netted yesterday.

1 June. Thursday.

Strong gale continued through night and was accompanied by heavy rain. Wind moderated and rain changed to snow ca 4 a.m. At 9 a. overcast and thick with wet snow falling thickly, wind S.W. 3. Storm ceased, tho not clear, by noon. Clear by 3 p.m.
Temp. min. 31°; 9a. 31°; 12m. 32°; 4p. 31½°; 8p. 27½°
Temp water at 1 p.m. 34°
Little auks returned to our cliffs this morning.
Some St. Vincent work this afternoon. Hindered by H.C.P.'s reminiscences of Bermuda &c.
Out for 2 mi. walk before dinner. Not much good surface now to traverse on the bay. Slushy snow makes hard going.
After dinner Norman and chief went out to the new crack about 3/4 mi. from ship and measured thickness of ice with a wire. "Strong 4 feet".
Merle got away again for Umanak about 6 p.m., taking my compass with him to guard against contingency of fog on the ice cap tho' there is none there now. He got 19 auks to-day.
Ralph cut Merle's hair yesterday and he looks less like an Eskimo than before – more American.
The edge of the ice foot is getting honeycombed.

2 June. Friday.

Clear and C2 with wind S.W. 2 at 9a, later the wind was easterly and variably stronger.
Temp. min. 24½°; 9a. 30°; 12m. 27°; 4p. 31°; 8p. 27°
End of melting ice to get water, for crew began filling tanks with water from the brook, digging through surface snow to get it.

Crew washed down deck this morning.

Finished St. Vincent work for the present and began the preparation of an account of the "Arctic Voyage of the George B. Cluett" for publication. 154

Out for 3/4 hr. on ice and shore before dinner. Walking on the bay is tedious work now; the bare ice being too smooth and slippery for easy progress in kamiks, there being comparatively little hard snow and the soft snow being slushy and disagreeable. The little auks allow one to come very close - within 5 yds or less, sometimes - before they rise in great whirring clouds which almost darken the air as they pass close to his head on their way out circling around the head of the bay. The burgomaster gulls cause great commotion among the little auks, when they come near because they feed upon the little birds. The little auks have several active enemies: the gulls; the foxes, which eat birds and young and eat their eggs, besides caching eggs for the winter; and mankind, both Eskimo and white, who get both birds and eggs. But there still are millions of the auks, though but one egg is laid to a clutch. The crew, two of them, picked and Charley singed 178 little auks to-day for our mess. Stakes 3 apiece to go around (36 birds) and some of us would eat more if we got them. The captain rarely eats more than one. Matt & Norman got the extra ones left by him this afternoon. Salt horse and salt pork for dinner.

3 June. Saturday.

Overcast (C4) Wind S.W. 1-2

Temp. min. 26°; 9a. 34°; 12m. 35½°; 4p. 34°; 8p. 31°

H.C.P. took observation at noon using artif. horizon.

Out for 1½ hr. before dinner on cliffs, climbing up from new coal cache and coming down through big gulch east of the igloo. Edge of bay ice seems to have come in somewhat since my last ascent and now is about 1/4 mi. outside large berg, extending from point midway of Bird Cliff across bay to cove inside of islet. Collected willow tree about four feet long to take home to Britton.

Auklets for b/f. & auklet stew & prunes for dinner.

H.C.P. went out to Norman's Gulch and re-turned saying that ice was more solid than it was three weeks ago, the edge is under grass where Eskimos were buried. Says it's a mile outside the large berg. "Won't go out before last of July, at this rate!"

But the grass shows an encouraging green over burned areas.

4 June. Sunday.

Overcast and rather thick. Light fine snow falling. Wind S.W. 1-2

Temp. min. 29°; 9a. 32½°; 12m. 30°; 4p. 32°; 8p. 29°

Bft: cornmeal mush; fried bacon, oconse, bread, molasses poor coffee. Dinner: little auks.

Day is chilly and uncomfortable, with the breeze from the southwest (or W.) rather raw.

5 June. Monday.

Temp. min 27½°; 9a 36°; 12m. 37°; 4p 36°; 8p. 34°

C.4. Calm and clear. Lt. W. variable wind p.m. Rolled up sleeping bag and hung it from ceiling. Have used it enjoyably for five months but it's too warm now. Photod H.C.P. in his full fur costume - Kahpelah (Ahnqwodobloho) and bear skin pants (Peter) Worked on Cluett voyage an hour or two and then developed plates.

H.C.P. agreed to put my bags of salt on shore and cover them with boards gratis.

Out 6-8p. for stroll on bay and shore. Ice along edge of ice foot increasingly rotten. Seal came up through crack near where the crew were washing, abeast of the vessel.

Ben and Taylor got 15 sea pigeons near the big bluff.

6 June. Tuesday

Overcast and rather thick. Wind at 9a., S.E. 3-4, veering by 10:30 to N.W. (N.3) 3-4, but light by 3 p.m and calm after 5 o'clock.

Temp. min. 30°; 9a. 38°; 10:30a. 33° (with change of wind); 12m. 34°; 4p. 36°; 8p. 32°

Did some work on "Cluett Voyage"

Found blankets rather cold and heavy last night, after the sleeping bag, wh. is so light with all its warmth.

Out for an hour on shore east of the igloo. Inspected a tupic site well back on upper beach which had evidently been used for a whole season's residence years ago when caribou still were gotten here. Big rock fragments which had rolled down from the cliff were taken advantage of to form a wall, small stones and turf being used to stop up the openings. Perhaps the site is not so old after all, for the caribou horns used in making the food cache (?) were shed horns that were picked up and utilized on account of their convenient size and shape. Crude residences, these Eskimo igloos and tupics.

Photographed (19,1-8/35) the crew hoisting a barrel of water from the brook on to the ship.

Several (9) seals were seen on the ice in the southern part of the bay. After dinner Ben and Taylor went out to try to get one. They found that the seals had come up through two (or more) holes which ~~they~~ had been gnawed (fide H.C.P.) through the ice 2/3 of the way across from here. Captain felt in one of the holes and said that the ice was rather thin and that the ~~sides~~ proved the gnawings.

Ben shot a longspur quil. a beautiful bird.

7 June. Wednesday.

Began to snow about midnight and has snowed heavily all day. N.E. gale (8) blowing this morning, but wind lessened in strength after noon. Strong S.W. (6) ~~outside~~ at 4 p.m. Temp. min. 27°; 9a.27°; 12m.32°; 4p.29°; 8p.29°

Wind seemed to be westerly outside, judging from sound of surf breaking along the edge of the bay ice. A wintry stormy day. Apparently the little auks

feel the coming of the storm, for they were very wild yesterday afternoon and in the evening they all deserted the cliffs and went out to sea.

Here is daily and several times daily, complaint on the part of the mate, Norman and the chief regarding the scanty amount of food provided. The mate is the worst kicker. Now and to-day he gave Charlie fits for eating up the birds left this morning from the number provided for us five, instead of going forward to get his own and leaving these for a snack here. Rather rough on Charlie and Norman defended him. Fifteen little auks were brought aft for our breakfast and Charlie reserved two forward for himself. Captain ate none, I three, mate four, chief two (2) and Norman two, leaving three on the platter. Captain told Charlie that he might have his (H.C.P.'s) share, so the boy cleaned the platter, but saved one of his birds forward for Norman. The mate had had more than his share anyhow, hence there was no kick coming from him except as to the total number of birds cooked. It seems easy to start trouble on board a ship in the arctic, but things are more pleasant now than before the sun came back.

At 4 p.m. the wind at the ship is strong (6±) from the S.W. and it must be pretty heavy outside. Several (6±) inches soft wet snow now on deck & still moving hard

Thursday. 8 June.

Thickly overcast at 9 a.m. but snow had ceased falling. Total 10-12 inches and H.C.P. considers this the heaviest snowfall of the year. Wind S. or S.E. 2-3 or more. Strong S.E. outside + snow or spray flying. Temp. min 25°; 9 a. 32°; 12 m. 33°; 4 p. 31°; 8 p. 29°. Another day on board - tedious enough. Got in some good time on "Chest Voyage".

The little auks came back this morning but they returned to the open water at mid afternoon, and snow began to fall again about 4:30. They know!

Had baked sea pigeons with the little auks for dinner. Also good. One of the pigeons has on it about three times as much meat as a little auk has. Not so dark in color.

Light snow again from 4:30 to about 7 p.

9 June. Friday.

C 4. S.E.3 At noon less cloudy & wind stronger 4-5
Temp. min. 26½°; 9a. 32½°; 12m. 31°; 4p. 30°; 9p. 27°
On board all day. Walking on the ice was too difficult and much of the time the wind was too high for comfort on the bay.
Mate building book shelves in captain's office.
Bff: auklets and sea pigeons, fried. Dinner: salt horse - canned peaches for dessert.
Worked on "Cluett Voyage". On board all day.

10 June. Saturday.

Clear and almost cloudless, calm.
C 1 later but practically no wind.
Temp. min 26°; 9a. 35°; 12m. 32°; 4p. 32°; 8p. 26°
On board all day, the walking continuing difficult and wet. "Cluett Voyage"
Mate finished bookshelves & H.C.P. painted them
Little auks back on cliffs in greater numbers than ever. Ben alone got 154. Fifteen were caught in one swoop of his net but six of them got away from him. Total for crew 296.
The captain is a tiringly continuous talker without reference to whether one is reading or trying to work or not.
Ben reports greater numbers of little auks in Norman's Gulch than here, by thousands.

11 June. Sunday.

Thickly overcast and calm at 9a. Dull day till late afternoon. Brisk N.W. breeze began to blow about 4p. and sky cleared of clouds by 7p. Temp. min. 25°; 9a. 36°; 10a. 40°; 12m. 34°; 4p. 31°; 8p. 29°. At 11 this morning the temp. had dropped back to 36° The warm wave was sudden and short-lived. Started out at noon for walk. Had a little jumping over cracks to do to get ashore at point where lumber is piled. Climbed cliff and walked along brink to prominent point half-way to Norman's Gulch. Saw some yellow ~~poppies~~ 5-petaled flowers and a new little white flower in addition to the flowers of the scurvy grass and willow which have already been noted. Edge of open water seems to be about 1/4 mile outside the large bay berg, or 1 3/4 mi. from the vessel. The bay ice looks discouragingly solid and immovable, except for the pools of water now stretching almost continuously along the ice foot of the north shore of the bay. Outside, there is far more pan ice than open water in sight. Waded through lots of soft snow to the top of the hill and observed the same or worse ice conditions extending to the northwest. Got back to vessel at 4 o'clock after a rather fatiguing walk, but it was far better than the preceding four days confinement on board.

12 June. Monday.

Clear and cloudless at 9 a.m. with wind strong (#6) from N. or N.E. Clouded over thro' middle of day but clearer again in latter part of afternoon. Much strong wind at times and vessel rocking a little. But oh how cold it holds! Temp. min 24°; 9a. 30°; 12m. 31°; 4p. 33°; 8p. 31°

Onboard all day, on account of blistered heel resulting from yesterday's tramp in rubber moccasins with kamiks inside them. Worked on Chett article and read in "Great Expectations".

13 June. Tuesday.

S.W. 2-3 at 9a. + changing soon to

Cloudless and more or less C & at intervals. Wind N.-N.E. 5-6 ~~at 9a.~~ becoming variable in direction and strength later.

Temp. Min 28½°; 9a. 35°; 12m. 37°; 4p. 35°; 8p. 32°

Chief connected up the toilets in my room and the bathroom this morning and the captain had the latter room thoroughly cleaned.

Out for short walk on bay and shore, but the walking was not good and my heel hurt me. Stepped into a hidden hole in the bay ice 2' or so deep. Water came in over tops of kamik. Cold, all right. These holes, hidden under the mantle of the recent heavy snow, are a source of danger on the bay ice and the pools between bay ice and ice foot make it increasingly difficult to get ashore near the ship.

Chief took another series of photos of me in my furs.

Copy of memo. re. Dr. Hunt's work.

Bacteriology: Investigation of infectious sputum was carried on but brought out no new new facts. Infections probably those which were brought up by white men. No tuberculosis in the tribe but other infections come in and are readily ~~taken~~ and severely taken by Eskimos. Felons are rather more common than among whites at home.

Microscopic exam. blood white + Eskimos no. of red corpuscles high. Haemoglobin up to 100 on standard scale.

Collected 3 musk ox skins and heads of two bears for specimens + his Eskimos brought in 2 musk ox specimen skins + heads

14 June. Wednesday.

Clear and calm and almost cloudless morning. Some high cirrus clouds in afternoon. Low lying water fog in the distant west. Temp. min. 23°; 9a. 33°; 12m. 32°; 4p. 28°; 8p. 26°. Out on shore for 1½ hr photographing birds on cliffs and talus etc. Developed a dozen plates in the afternoon.

Heavy wind from E.S.E. (fide H.C.P.) sprang up at noon. Blew fiercely till latter part of afternoon and then died down.

Mate broke up our three-handed pinochle game this evening by his fault finding. He had the game all right but was so cruel because I told Norman to lead his queen of hearts to me when it made not a particle of difference to the mate, since he had no hearts or trumps and I had the highest heart and because later neither Norman nor I would outbid him at the end when he (mate) was 990 that we threw down our hands. The mate broke up the poker games last winter in a similar babyish fashion, and once before in pinochle gathered up the cards and refused to let the game go on because he was getting wretched hands. Well — it is a relief to me to have the card playing stop, I was getting awfully tired of it anyhow. He is a fine man, honest and straightforward and I really like him better than any other member of the crew, but he has an awful temper and hates to lose games or even tricks worse than any other man I ever played with I think. Many is the time that I have lost to him just to keep him good natured. Captain says - "No more cards in the cabin"

15 June. Thursday.

Clear and almost cloudless till 9 o'clock, but soon clouded over and

several snow squalls came during rest of day. Wind S.E. or E.S.E. and heavy (5 to 7 or 8) all day.
Temp. min. 24°; 9a. 32°; 12m. 32°; 4p. 32°; 8p. 31°
Extremely disagreeable, with lots of driving snow in the air at times. We hope that the gale, combined with the spring tides today, may have done some damage to our bay ice. But we want warmer weather!
On board all day. Got in some work on the "Chett" article. Captain Pickels raffled off his watch (Waltham, 17 jewels, gold-filled case) among the crew on 64 tickets ranging from 1¢ to 64¢ total $20.80. H.C.P. himself drew out the numbers and Taylor won the ticket. There was some grumbling of course among the unsuccessful ones, because the captain took so long to find the last number in the can, but I could not see anything crooked in the case. Every number was drawn. I went down to the forepeak to see the drawing, although I had no interest whatever in the result.
Little auks for bfk. and dinner. Dried peaches for dessert at dinner.
Wind less violent at 8 o'cl. than before.

16 June. Friday.

Clear & cloudless all day, but overcast in evening (8p.) Heavy easterly wind 3-4 a., dying down by 6a. Calm at 9a and that or nearly so all day.
Temp. min. 28°; 9a. 35°; 12m. 40°; 4p. 38°; 8p. 35°
Had chief take photos of me in furs again, the preceding set being somewhat out of focus. Noon to 3p. on cliffs, going up by gulch east of igloo. Lovely day and beautiful outlook from top of cliff. Blue sea and lots of open water, but does it get any nearer? Made got 133 little auks, and Norman 40 with his new net & total for crew is more than 500
New 188 Sawyer 140

17 June. Saturday.

Clear, cloudless, calm. a perfect day. Temp. min 27°; 9a. 37°; 12m. 38°; 2p. 42°; 3p. 43°; 4p. 39°; 8p. 39½°.
On board reading, writing and caring for negatives except for an hour or more in mid-afternoon spent in going to the gulch east of Pudtlak's igloo to photograph little auks. Not well satisfied with the flights that I saw, but I exposed 6 plates.
Sky was partly cloudy and wind was moderately strong from the S.E. in the evening.
Crew plucked, aired and cleaned 333 little auks today.
Mate made some iron-shod poles for use in pushing ice.

18 June. Sunday.

Overcast and almost raining. Wind S.E. 7-8. a real good gale that ought to do some damage to the ice, for the tide last night and today is extra high. Norman reported this morning that it flowed over the ~~top of the~~ rock above flower patch of the ~~beach~~ last night. Temp. 4a. 43°
Temp. min. 36°; 9a. 39°; 12m. 38°; 4p. 36°; 8p. 36°
Norman and the chief went ashore at the lumber point with some difficulty. Chief brought back several blossoms of the yellow arctic poppy. Last year the Crocker Land letters reached the Museum on 19 June, hence I am hoping that my letters reached you yesterday. But I do not know that they have even left Greenland. The uncertainties of this life here are trying!
Charlie got into water above his boot tops, broke thro into a crack.

19 June. Monday.

C1. Wind S1, veering to W1-2 at 10a. Calm at 12m. Light & variable W. in p. m.

Temp. min. 30°; 9a. 40°; 4p. 36°; 8p. 39°
Yesterday's wind removed snow from ice where the cover was thin and made the walking good there. Elsewhere on bay the snow is thick and soft and footing very bad. Some more floes of ice seem to have gone from the edge of the ice, but the process is slow. Encouraging melting going on along lane of water coming up through cracks along ice foot of northern shore, where melting is helped by brooks from the gulches. Was out for an hour along shore and on shoulder of cliff above lumber point. Poppies already getting abundant.

Norman and Taylor went seal hunting along the south shore, but the animals were too quick for them though each ventured a shot. They went out to the edge of the ice and then along the dangerous ice foot to where the "Puisse Tidicksua" is cached. They report new cracks and encouraging looks of the ice. Abundance of birds on the water. Ben went out to Norman's gulch and big bluff and got several sea pigeons but could not go to where the murres are.

Put in four + hours on "Cluett Voyage"

20 June. Tuesday.

Overcast and foggy. Calm in morning but strong easterly wind sprang up in late afternoon. Looked bad on ice cap. Snow. Temp. min. 31°; 9a. 35°; 12 m. 34°; 4p. 34°; 8p. 34°

Mene, Eginguah, Ahnqudoblaho and Inuk's son Echinqua (?) came in about 10 a.m. from Umanak, Eginguah bringing letters from Ek and Peter and from Rasmussen, who arrived at North Star Bay on the 17th, bringing mail from New York which he sent down to me. Most welcome — but the news that my beloved mother passed away on 16 December saddens me. 35 letters + one telegram!

21 June. Wednesday.

Overcast & foggy, lt. snow at 9 a., with wind S.W. 3-4. Very soon cleared and wind shifted to N.W. and lessened in force. A beautiful day. Strong N.E. 2:15 on. Temp. min. 31½°; 9a. 32°; 12 m. 40°; 4p. 41°; 8p. 37½°

Too windy and snowy for Eskimos to leave last night, as they intended to do, but Ahnqodoblaho and the boy got away for Cape York about 11 a.m., and Eginguah and Mene left about noon, Mene walking on ahead for a while. I rode out with Eginguah until we overtook Mene about a mile from the schooner, when I left them and walked over to the high hills bordering the Chett glacier on the north along its lower course. Found a ledge of quartzite there dipping 15-20° N. and overlying the gneisses. Returned through the moat and along the edge of the glacier, partly on the moraine. Went out in my Iceland sweater without netsha or mittens, since I did not expect to make the excursion. Was perfectly comfortable until after 2 o'clock, when the wind, which had been light from S.W. + N.W., suddenly shifted to N.E. and was very keen. Walking and sledging on the trail up to the ice cap was difficult and fatiguing on account of the softness of the snow. Wanted to go to North Star Bay but decided not to on account of the laborious walking and Dr. Hunt's positive advice, sent down again by Ek, not to undertake the trip as it was too strenuous on account of my physical condition. Sent my camera outfit to Ek by Eginguah as follows: graflex complete with my Zeiss lens, graphic box, telephoto attachment, wide angle lens (Nuns), tripod, changing bag, 20 dozen plates, some developing material.

The wind which began to blow about 2 p.m. from N.E. soon became strong and by 4 o'clock was high and gusty. Glad I did not undertake the ice cap, though it may not be blowing so hard up there. Read my letters all through again and enjoyed them, all the news being good except that about mother and Elizabeth. The latter died in Norway of consumption about the middle of February.

22 June. Thursday. 166

Clear and cloudless with light air (S1) at 9a, the heavy northeaster died out about 7a. but came back again with force about 10a. and blew with great force at intervals till mid afternoon. Then died out again. Clear and cloudless all day - Temp. min. 30°; 9a. 41½°; 12m. 40°; 4p. 40°

Crew slushed down the masts. Made line from port quarter fast to the ice.
I repacked my trunks to get into one everything that I might wish to take with me if I were to leave the "Cluett" and into the other only what might be left on board without inconvenience. Also packed up box for Ekblaw with spare underwear, tobacco, &c ready to go to Umanak by Peter or whoever comes over with Captain Comer.

Have been wishing all week to climb the plateau and see the midnight sun, but Sunday, Monday & Tuesday nights were cloudy or stormy and last night the gale was too strong for me to attempt it — May go up to-night. Sun at max decl. now. (23 June) Did go up and had a fine little excursion. Left vessel at 10:30 p.m., me, went ashore near the igloo and ascended the big gulch ¼ mi or more east of Pudlak's. Easy route over grass, moss and mostly small stones and earth with not many large areas of big angular blocks to high knoll. Rather cold in the shadow of the cliffs and mountain. 33° on board when I left and cooler on shore because moss was frozen and ice was forming on the little pools. When I got up to the edge of the plateau I saw the men building the cairn on the brow of the cliff overlooking the vessel, but I did not go toward them then. H.C.P., Ralph, Ben, Taylor and Charlie had left the vessel before 8 o'clock to go up and build the cairn and be there at midnight on this, one of the two "longest days" of the year. I kept on toward my knoll till 11:35, when I was at elevation 1050 ft. about 300 yards from top. The view was beautiful,

with lots of open blue water in sight toward the W. and S. Oh, to think of that 13 mi. of firm bay ice that keeps us from utilizing it! The cairn was finished and I could hear the men shouting to me, though they were fully a mile away. I gave an answering shout, which they did not hear, and perceiving by my watch that the proposed photo. had probably not been taken I started toward them. Reached the cairn at 11:58 and the captain took one picture with me in the group. Then I took one with him in it. The cairn is conical in shape and 7 or 8 ft. high. I could not take any pictures for myself, because I have no more films and I sent my graflex camera to Elc on Tuesday. The shadow of the cliff lies 1/3 way across the bay and the sun's rays do not strike even the trucks of the vessel's masts. Could see some ducks and gulls on the surface of the fresh water pond behind the beach on the south side of the flat. Picked some poppies near the cairn under the light of the midnight sun. Very little wind (N.E.) on the plateau and the whole scene was beautiful. Sun is about 10° above the northern horizon and ∴ is well above the mountains between us and North Star Bay, but its rays come at too low an angle to have much heating effect. We all came down a gully in the face of the cliff, I being the last to leave at about 12:10 a.m. Reached the "Chett" at 12:30. 33°

23 June. Friday.

Clear, cloudless; calm, or light variable winds from S.E. or S. in a.m. and moderate from W. in afternoon. Calm evening. Temp. min. 28°; 9a. 34°; 12m. 37°; 4p. 33°; 8p. 35°

On board writing letters &c. Went out for an hour on bay ice along northern shore before dinner. Lots of concealed holes in the ice. Stepped into three, going down 1½ ft. into one. Precarious footing along the open cracks where water has undercut for 2-3 ft. leaving weak shelf of 4" porous ice.

chief brought in some purple heather from the flat this noon. Taylor found the first eggs (2) of the season. May be we shall have some for breakfast Sunday morning.

24 June. Saturday.

Clear & cloudless. Light S. or S.E. wind at 9a but calm later and light to moderate N.E. during part of afternoon.
Temp. min. 28°; 9a. 37°; 12m. 36°; 4p. 34°; 8p. 35°
Charlie & Norman washed cabin walls and ceiling to great improvement of the room. Chief washed my bearskin pants for me — quite a job. Gave him 10 cigars, since he has still to dry and rub them.
From 12 to 4 was out geologizing on cliffs and in gulch next east of Pudlatik's igloo.
Temp. on shore - shade near igloo 43°, sun 47°; shade in gulch 42°; on top 750-800' A.T. 34°.
Found Huronian quartzite in gulch and on plateau, see notebk. Greenland 2, pp. 16 & 17.

Two or three days ago H.C.P. told me that he came up the Greenland coast, when he was a very young man as navigator on a halibut fisherman, as far as off Upernivik but did not make the coast anywhere except at a small bight close to Egedesminde.

This afternoon at 3:30 I took the altitude of the base of the cairn as 760' A.T. Measured the cairn as being 7' 3" high on eastern side.

The crew are having lots of fun hunting for little-auk eggs, but they do not find many yet and they have to move tons of rocks to get those.

Had sea pigeon each in addition to little auks for dinner. The meat is coarser and not so good in flavor as that of the little auk. Dive-brown in color.

Flowers of several kinds are becoming more abundant. Mosses not ready for collecting.

To-day H.C.P. asked me to sell him some of my (149
tobacco. Quite a change of front since 4 may,
when he declared with an oath that he would not
take any of it under any circumstances
either by gift or sale! And it is too late now,
having disposed of what I had left over from
the coal transaction, except 11 little plugs,
which, as I told the captain, I am reserving
for emergencies. Hence there is none for him now.

25 June. Sunday.

Scattered cirrus clouds at 9 a., but sky became overcast by 10 o'cl. Light E or S.E. air at 9 a., increasing to moderate breeze by noon. Strong in p.m. Temp. min. 28°; 9 a. 37°; 10:30 a. 44°; 12 m. 39½°; 4 p. 36° 8 p. 35°

Some sensible swell affected vessel last evening. Strong easterly (S.E.?) wind in afternoon with heavy snow squall from 4 to 5 o'clock, and occasional spits of snow later.

On board all day, writing letters &c Reading in "Last of the Mohicans"

Had some little auk eggs at breakfast They are very palatable. Yolk is rather red in color, and the white is rather translucent when boiled hard. The egg is about half as heavy as an ordinary hen egg, and is pale greenish blue in color. It is very large in comparison with the size of the bird. The eggs are laid on the ground in the crevices of the cliffs and between the rocks of the talus slope. Normal number of eggs in a clutch is just one, and the mother bird fights to protect it or seeks to draw it away into a place of greater security from pursuit. Ben and Taylor each caught a bird yesterday just as she was about to lay and each squeezed the egg out of his bird. Forcible parturition! Little auk pot-pie, with underdone dumplings, bread, prunes, molasses and tea for dinner. Stormy evening.

26 June. Monday.

Partly cloudy (C4), with light S.E. wind and occasional snow squalls in the morning. Clear afternoon and strong gusty wind. Temp. Min. 30°; 9a.m. 37°; 12m. 36°; 4p.m. 35°; 8p.m. 32°
Worked on "Cluett Voyage". Read in "Last of the Mohicans". Took a half hour's walk on bay ice before dinner, but did not go far in either direction on account of bad walking, there being many concealed as well as open holes, much slush and many pools of water on the ice. Increase since Saturday.
There seems to be much or at any rate some discontent among the crew, over the bird-catching and egg-collecting business. H.C.P. has praised Ben and Taylor so much that they have gotten the big head. This morning they had lots of eggs for bfst., but would not give MacDougal any because he had not been out getting any though he had been plucking birds for the general use. He has not eaten any meat or birds for months, but Ben ate 18 eggs and Taylor a dozen, while MacDougal had nothing but bread and molasses, mush and coffee, sitting beside them. Norman gave the forecastle fits about their hoggishness. Where and when will all this acrimonious debate end? I don't want to hear anything about "grub" or "tobacco" for ten years after I get home.
We had quite a laugh on Norman a day or two because he spoke in all seriousness about the "paws" of the little auks. To-day the laugh was on the chief for talking about a "litter" of chickens.
An awful lot of stones have to be moved in hunting for the eggs. A good many last year's eggs have been found.

To-day the male brought in 38, Norman, 4, Ben 89, Fiander 46; Taylor 52, Ralph 30, H.C.P. 4 Chief 5 Charlie 10. 291 in all. Ben found two eggs under one bird. Male found two last year's eggs together in several instances.

27 June. Tuesday.

Overcast and thick. Sun tried to shine a little while this morning but very unsuccessfully. Strong easterly (S.E.) wind most of day, at times rising to force of a gale - Rain mingled with snow several hours. Temp. min 30°; 9a.36½°; 12m.38°; 4p.34°; 8p.32°. On board all day, writing letters mostly. Finished "Last of the Mohicans" last night. Crew took life boat on board today. Ice and snow have melted a good deal in past 24 hrs., rain helping the process. Many pools of water to be seen on bay ice in every direction. Jolly boat is floating in such a pool - Baked murres in addition to little auks for dinner. Flavor is like that of duck.

28 June. Wednesday.

Clear and cloudless but yesterday's Easterly gale continued all night and until latter part of afternoon.
Temp. min. 31°; 9a. 36°; 12m. 37½°; 4p. 35°; 8p. 32°
Sorted correspondence and made out list of C.R.E., Mus. & personal property on board the "Chett"
After dinner went up on cliffs east of igloo hunting birds' eggs but found none. Went on up to plateau and around to second eastern gulch geologizing, then crossed flat at head of bay and went along beach to outlet of southern pond. ~~All three~~ The outlets of all three ponds now cut open by across the ice foot. Ice foot is much chan-

neled and honeycombed along the cracks which developed during the winter. The middle outflowing stream has done much the most cutting thus far. Saw two seals in the pool outside the beach, one of wh. came into the inner basin. Saw 50 or 60 eider ducks and a dozen or 15 gulls at the southern basin.

Chief told me yesterday that H.C.P. made some ill natured, sneaering remarks the other day about my packing up the C.L.E. books to send to Eklaw. What a surly disposition the captain has! He always has something nasty to say about everyone, except Dr. Grenfell and Dr. Little and he has ventured some criticisms regarding Dr. Grenfell.

This has been another good egg day, but the lawest time is almost over. The mate himself got 106 today and the total of all hands to date is 85 dozen. Seal beside vessel.

28 June. Thursday.

Overcast, thick, stormy. Wind E. or S.E. 1-2 at 9a., but soon afterward heavy easterly gale began to rage. Latter part of afternoon wind shifted to S.W. and was moderately strong. E. again in evening. Heavy rain 7-8 a.m., rain and snow at intervals afterward.
Temp. min 30°; 9a. 40°; 12m. 36°; 4p. 36°; 8p. 35°
Disagreeable day, but we hope and think that damage is being done to the ice. Went up onto knoll after dinner to look out over bay. Water line seems nearer to the big central berg than it was two or three wks. ago, but clearance by that means looks hopeless. Cook was moved up into the deck galley after dinner. (He went down 21 October) He complained bitterly about coming up, just as he did last October about going down — Aneroid makes knoll 200 ft above bay.

Gale from south struck us about 9 p.m. and raged furiously outside the bay. H.C.P. calls it a "teaser, all right".

30 June Friday.

Cloudy (C4) up to 10 a.m. then scattering cirrus clouds till late afternoon when cirro-stratus became thick. Fine day. S.E. 3 at 9a., but N.W. 3-4 from 10a. on changing back to E. or S.E. late in afternoon. Some heavy westerly wind last night all night. This drove pack this way and ice is jammed outside the bay as far as one can see.

Temp. min. 32½°; 9a. 41°; 12m. 35½°; 4p. 40°; 8p. 36°

Wrote letters to Ekblaw, Demsell, Reeds. Walked on bay ice and shore east of igloo for more than an hour before dinner. Some of the holes in the ice seem to be getting larger and deeper, though I have none over 4 feet in depth (3'9" of water) except one a month ago which penetrated the ice. Usual depths now are 2', 2'6", 3' of water. Several varieties of sea weed noted in the holes. Seal came up in pool alongside vessel.

Corned beef, canned peas &c for dinner. We're out of little auks and they are becoming hard to catch with the nets. Egg season is over.

About 10:30 p.m. Capt. Comer and Eginguah arrived from Umanak. Evidently rather hard walking, but Captain Comer made light of it and said that I ought to have gone over there for a time anyhow.

Ekblaw's letter informs me that Mene has apparently made an arrangement with Captain Pickels for going to the States on the "Cluett". I had a hint of this plan this morning from Norman.

1 July. Saturday.

Overcast and thick. A strong gale began to rage about 10 o'clock this morning and has continued all day. Some rain. E. or S.E. 8 to 9 + perhaps 10. Temp. min 33°; 9a. 37°; 12 m. 40°; 4p. 38°; 8p. 37°
The storm has been too severe to permit Eqinguah to start back to Umanak today. Wrote letters to Ekblaw, Rasmussen, Peter + Hunt. The wind has had great effect in softening and melting the surface of the ice and making pools. The report is that some ice has been driven off from the edge of the bay. Usual report! Captain Comer advises me to have nothing to say to Captain Pickels against Mene's going south on the "Cleett". I have not been consulted in the matter and my silence will not compromise the Museum in any way, since I can not prevent H.C.P.'s doing as he pleases, whereas I might easily commit the Museum with reference to the charter party by making any effort to control the use of the vessel in any way.
Inclosed letters for Pres. Osborn and Mr. Sherwood in packet going to Ek at Umanak

2 July. Sunday.

Another severely stormy day. Wind E. or S.E. 8-9. Considerable rain. Gusty.
Temp. min 36½°; 9a. 41½°; 12 m. 40°; 4p. 36° 8p. 34½°
Are glad that the heavy storm continues. Mate came in after making new mooring for the bowlines, which had been torn loose from the ice, and remarked "Gee! It's only just begun to blow" Much more water in pools on the ice than appeared yesterday. Some more ice said to be gone outside, but the "bugbear berg" holds its place in the middle of the bay 1½ mi. from the ship. Eqinguah still here. For bfr.

we had the usual cornmeal, molasses, bread, (175
coffee and curry of mutton or beef with pickles.
Dinner: stew of combined little auks and mutton.
Late in evening asked H.C.P. regarding truth
of report that Mene was going out on the "Cluett".
He said that he was going to take Mene along
as a hunter, signed on as a regular member
of the crew, and discharge him in Canada
(or perhaps Newfoundland?) I raised no objec-
tion of course, having no right to raise any,
but I said that I was very sorry that Mene
was going on Mene's own account as well
as on account of his former friends in the
States. H.C.P. said that he incurred no lia-
bility under the immigration laws of
either Canada or America, because he had
the right to sign on foreigners and discharge
them on arrival at destination, by doing so be-
fore the shipping commissioner and paying a
fee of $2.

3 July. Monday.

Overcast. Thick and snow squally
at times. Southeasterly (or E?) storm
continues with renewed strength. Wind
varied from 7 to 9 in force. Snowing
Temp. min. 32°; 9a.37°; 12m.36½°; 4p.36½°; 8p.35°
Eginquah went out and shot a seal near a
hole not far from the edge of the ice. The crew
went out and dragged the carcass in over
the ice with a rope.
Bft: mutton scouse.
Dinner: seal ~~and~~ flippers and liver plus corned beef.
Snowing hard 8-8:30 p.m. and wind
become ~~very~~ light. Some more light
snow fell during the night.

4 July. Tuesday.

Cloudy. Wind S.E. 3 and variable. Some calm hours. Flurry of snow about 11 a.m. Temp. min. 33°; 9a. 38°; 12m. 36°; 4p. 37°; 8p. 34°

Not a wholly pleasant day, but a great relief from the last three days of storm.

Egingwah got another seal for us. It takes an Eskimo to be successful in hunting seals.

Fourth was celebrated by the addition of plum duff and raisins to the dinner menu. Had little auks for breakfast.

Out for 3/4 hr on bay ice w. Capt. Comer before dinner.

Captain Comer this morning, after reading Dr. Hunt's written opinions regarding my physical condition and ability to make journey to Umanak, agreed with me in thinking that it was not best for me to go over to North Star Bay now and that I was doing right in staying here and going out on the "Cluett" if she break out before the arrival of the relief steamer; or transferring both of us and all Museum and Expedition property from the schooner to the steamer, if the latter should come before we are released from Parker Snow Bay.

G.C. reports that Peter says that a tidal wave visited this region in the spring or early summer of 1912, moving heavy stones and big pieces of turf up the beach at Saunders Island and flooded some tupics.

5 July. Wednesday.

Beautiful day, clear; but C.U. in earlier part of day, almost cloudless through afternoon. Calm or nearly so. N.W. 2-3 outside. Temp. min. 31°; 9a 39°; 12m. 38°; 12:30 p. 41½°; 4p 37½°; 8p. 42°

Egingwah started for Umanak at about 10:30 this morning.

went ashore with Captain Comer to old tupic site on shore and then walked to Ahnqnedoblaho's old igloo, taking three photos with his camera. Then I left him, went on along the shore to about a half mile west of vessel, where I ascended a big gully to the plateau and then along brink of cliffs to western border of Normans Gulch, where I staid on the rocks in the sun for half hour looking over sea and ice and writing. Then back across plateau and down cliff above the lumber, getting back to the ship at 4:20. After dinner had a long private talk with Captain Comer in the course of which I became satisfied and I think that he did that Ekblaw had been straightforward in his dealings with me, regarding my going over to North Star Bay. I was particular about this because G.C. had said this morning, and before, that "they" had been "pulling the wool" over my eyes, and he meant and thought that Ek had intentionally managed things so that I should not go over to Umanak. I showed him that Ek had arranged matters twice so that I could go, if I thought best, but that Dr. Hunt's positive advice was against my going, at first on account of bad conditions over there and later on account of the difficult or severe nature of the journey and the uncertainty of getting back to the "Chett" if she were to break out of the ice before the arrival of the steamer.

6 July. Thursday.

Clear and cloudless at 9a, but clouded over by noon. N.E. 4 inc to 5 & 6 - gusty - Temp. min. 28°; 9a. 37°; 12m. 33½°; 4p. 35°; 8p. 35° & wind moderate.

Onboard all day on account of heavy

cold wind. Captain Comer was ashore digging at the old igloos for a time, but without finding anything of value to-day.
Sent word to Ralph that I would accept his offer of $5 for my rubber boots, but when he came aft to look at them, I staid out of the cabin purposely and H.C.P. sold him for $5.25 a pr. of expedition boots wh. he had bought from me for $4. According to Norman H.C.P. said that he would not give 30 cents for mine. Not good for ship use, I presume. But H.C.P. tried a few minutes later, after Norman and Ralph had gone out, to buy mine for $4 for himself. I would not sell them for less than $5, the price made to Ralph, and the captain wld not take them. As I told him, the boots cost me $6.75 and I can turn them back to A. & F. and get full price. H.C.P. is on the make all right. He charged me full price of 75¢ for a slop chest sou'wester which Norman says ought not to cost but 50¢.
A very disagreeable afternoon on account of the cold wind off the ice cap -

7 July. Friday.

Cloudless till after noon, but increasing cloudy from 3 o'clock on. Wind S.E. at 9 a. but soon veared to W. or S.W. and became strong and gusty. H.C.P. spoke of the wind as the heaviest that we had had from that quarter. Variable in direction & force.
Temp. min. 30°; 9a. 47°; 12m. 45°; 3p. 50°; 4p. 47°; 8p.
This has been the warmest day that we have had since coming in here. The warmth and the westerly wind must have done some damage to the ice! Worked a goodly bit on "Cluett Voyage"
Told Captain Pickels that I should wish to be transferred to steamer with all expedition and museum property in case the steamer shld. arrive before we break out. He thought that it might be hard work to get things out across the ice. I said that I knew

that and that I was willing to pay the crew for the work. He admitted that the ice-kamatik might be re-shod for the job.

Between 3 & 4 p. I went on shore and collected a small box of mosses from the gentle slope 200 yds ± east of the igloo. Brook running down the gulch east of the igloo is very strong today. It has cut its channel through the snow to within 20-25 yards of the cliff.

Little auk & murre stew for dinner.

I raised a great laugh to-day by saying that the hares which I saw scurrying up the face of the bluff at Hartstene Bay on 15 Sept. last looked like a flurry of snow.

8 July. Saturday.

Thinly overcast at 9a. and wind from W scarcely perceptible. At 2 a.m. the wind was blowing a "regular twister" from the E and temperature 41° according to the mate. At 4 a.m. the thermometer stood at 43° according to the chief.

Temp. min. 36½°; 9a. 38°; 12m. 38½°; 4p. 38°; 8p. 36°

Chief went ashore directly after breakfast to continue his search for the nest and eggs of the knot (Tringa canutus) which he understands to be worth $500, but he is looking for them on the flats at the head of the bay.

South wind blowing strongly in gusts from 10:30 on, beginning to rain at noon. Taylor brought in a seal at noon, which he shot from the beach midway between the middle and southern brooks. Not much rain.

Three hours or more on "Clutt Voyage"

After dinner Captain Comer and I walked over to the Tongue glacier beside the Nunatak glacier, going across the bay ice to

the middle of the beach and returning across the flat to near the igloo before striking the bay again. Walking on bay ice is excellent, winding about between the pools. Noted the granular structure of the glacier ice. Very little water flowing from the southern arm of the Nunatak glacier, but rather more from the northern arm. Strong stream, six to ten feet wide and four to six inches deep coming from the Chestnut glacier and another perhaps equally strong stream flowing from the ice cap through the valley up which the route to Umanak lies. Many flowers - purple heather(?), purple saxifrage (peppermint), yellow poppy, yellow buttercup(?), light violet honeysuckle(?), white harebell like flower on stiff resinous plant which is used by Eskimos for fuel when oil is absent, etc. etc. A good walk of four or five miles, but easterly wind off the glaciers was strong and piercing and we passed through a light flurry of snow.

9 July. Sunday.

C 4. Clear. Almost cloudless from mid-afternoon on. Light southerly breeze (S 2) at 9a and light variable or calm all day. Beautiful day. Temp. min 35½°; 9a. 43°; 12m. 45°; 4p. 42°; 6p. 48°; 8p.

Chief flared up this morning over my asking Norman (who appeared with clean shaven face, except upper lip) if he was trying to rival the chief. Now the chief shaved off his beard a few days ago, leaving the moustache, and he has gotten a great deal of chaffing from the cabin regarding his appearance, in which however I have joined but little. This morning he cursed us all for jiting him and said he'd eat at a separate table etc. He was so ugly and swore so much that Sk.C.P. went for him hard and made him stop talking.

the grate of the cabin stove has lost a piece, and the hole has to be stopped with loose pieces of iron. The old thing is getting feebler day by day.

Went out with Captain Comer collecting mosses in the two quaches east of Pudlatk's igloo. I have my series now for Mrs. Streeter

10 July. Monday.

C2 this morning clearing to cloudless in afternoon. wind S3 in morning but lighter and variable in afternoon, calm evening. Temp. min. 33°; 9a. 42°; 12 m. 43°; 4p. 42°; 8p. 44°

Knud Rasmussen, Peter Frenchen and Lauge Koch, with Harrigan, Tobias Bozeman & a South Greenland Eskimo arrived about midnight last night from Umanak. I was already asleep but Captain Pickels called me and I got up dressed and talked with the men till 2a.m., then went to bed again and did not go to sleep till about 6 and was awake once more at 8 for all day. Mr. Rasmussen offered to take me and what baggage I needed with me to N.S.B., so that I might await the steamer there. During the watches of the night I thought the whole matter over and decided to accept the offer and to take Captain Comer with me, it being now so late and the Chest being so unmanageable under sail in the ice that it seemed certain that the schooner wld not reach America much if at all in advance of the steamer. Conversation with Captain Comer and Mr. Rasmussen to-day has con-

firmed me in this decision.

I find K. R. a delightful man to meet.

11 July. Tuesday.

Clear + cloudless. Wind S1 at ship, but N.W. on plateau. Temp. min 31½°; 9a. 46°; 12m 41°; 4p. 43°.
Finished packing and completed business with Captain Pickels, leaving letters for him to forward prepaid and list of all Exped. + Mus. + pers. property remaining on board Chett.
Amount of baggage rather staggered Peter but Rasmussen was game for it and at about 11 p.m. two Kamatiks took it all to the beach without accident, though the sledge loaded with the Etah boxes started to slide back down the ice foot. I was standing alone by it and grabbed the point of one runner, lifting it a little and an instant later the rear corners of the runners caught in the snow and stopped the descent of the sledge. I left the ship a minute in advance of Peter and Captain Comer (?) after a very cordial farewell from all the crew and a sufficiently hearty parting with Captain Pickels (in the cabin). As we three were walking across the ice, the crew gave us a rousing cheer and Mene (?) fired a salute from his rifle. The packages were rearranged and loaded onto the six sledges - Rasmussen using my sleeping bag to help make his sledge a very comfortable place for me to ride. Peter took Captain Comer on his sledge and was the first one to start from in front of the igloo at

12 July, Wednesday. 12:20 a.m. followed within ten minutes by all the others. I walked across the high beach and the first brook (coming from the first gulch east of the igloo) and along the snow beside the large brook until Rasmussen. I jumped on and rode the whole distance to the ice of North Star Bay, just as Rasmussen had said that I should, though the snow was soft on

the upgrade to the highest ridge of the ice cap (along the trail i.e.) We reached the summit at 2:30 a.m. and my aneroid gave the elevation as being 2050 feet above the sea. The sky was overcast so thickly that we could not even determine the position of the sun, but the atmosphere was not thick and the cloudiness was advantageous for our eyes. View from summit is very extensive and I was sorry not to be able to stop longer for its enjoyment. Much open water along the shore and for 30-35 miles, but beyond that was a solid field of ice as far as the eye could see, from the Cape York region northward. The nevé field of the Petowik Glacier is several miles across and it took us nearly two hours to traverse it. Nunataks project through the ice cap some miles to the east of the trail & indicate that we are not on the main continental cap. From the northern portion of the Petowik nevé and beyond, I got a good look at the maze of summits and gorges in the Cape Athol district. More strongly than before did I realize the foolhardiness of the undertaking of Norman & Taylor to walk to Umanak on 2 & February. After we reached the summit we encountered a moderate north-northeasterly or northeasterly breeze which was so keen that I soon asked Rasmussen to stop and let me put on my sweater under my netsha. Then I was all right and comfortable again. The cloudy sky made the surface of the ice cap much softer and more difficult for the dogs than it was under the clear sky which favored Rasmussen's downward trip. The level of the Petowik nevé was about 1700' A.J. where we crossed it. Then we ascended 100'± and began the long descent of the glacier, parallel with the lateral moraine - unless the moraine is to be regarded as the terminal moraine of the border of the ice cap. Moraine is very hum-

rocky and is not derived from any bordering high land, for no wall shows along the whole stretch to the river discharging into North Star Bay. Composed of earth, sand, gravel and small boulders with an occasional large erratic. Sometimes the dogs were driven at utmost speed to keep out of the way of the sliding kamatik. Great fun! Crossed some streams flowing in the surface of the glacier. These must have considerable effect in reducing the milkiness of the glacial river, for there does not seem to be much water coming from underneath the ice. Reached the place for descent from the ice about 6:15 and slid down without accident, the surface being soft. 80-100 feet. Exciting moment, with dogs on full jump, sledge on the rear corners of the runners, being held there by Rasmussen who, with firm grasp on the upstandards, dug his heels into the snow-ice to check the rapidity of descent. Bottom of glacier stream (ice) 800 feet A.T. We stopped beside an erratic section of a large basaltic column, made coffee, had something to eat and rested for about two hours. Then began the 10 mile stretch over stones, moss, grass and earth with an occasional encouraging ribbon of snow. Even going over this stuff, the dogs pulled the sledge with me on it at a rate that usually made Rasmussen trot to keep up. We reached the ice foot of North Star Bay about 10:25 and after a little maneuvering to cross out to the solid ice we drove to the house, where Ek & Dr. are living. Except for 100 yds ± crossing the ice foot I stuck to the kamatik. Ek greeted me cordially and Dr. evidently meant it when he said that he was glad to see me. I feel like a boy on a vacation from school, or possibly a man released from prison, to be free from the "Chief" after living on her a year lacking one week, during which the 7 nights spent at Cape York were my only absence. Slept 5 hours in the afternoon and then after a pleasant evening with the boys turned in again at 10:30

Ed. Hovey, American Museum of Natural History, New York City.

Letter to ~~Mr.~~ Mrs. L. N. Babbitt, Dobbs Ferry, N.Y.

Taken out at Utah & sent home Nov. 1916

Clouds

1. Cirrus
2. High cirro-stratus
3. Low " "
4. Cirro-cumulus
5. High cumulus
6. Low "
7. Strato-cumulus
8. False cirrus
9. Cumulo nimbus
10. Cumulus "top"
11. Nimbus
12. Stratus

AMNH LIBRARY
10023169 3

~~Babbitt Letter~~

(Greenland III)