DIARY

1872

W. H. D. M.

U.S.C.

W. H. Dall
U.S. Sch
Humboldt

W. H. Dall

W. H. Dall

2nd May

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June 1, 1872
 Unalakleet - Unalakleet A.S.
 Saturday

Ther - 46. 50. 42 Bar - 29.878. Cloudy with short showers of very fine rain. Balm. Angles from Spithead and Rocky Point until showers come up and we retire. Finish in P.M. & look for rock near reef. Evening rainy & foggy. Go over on west side Amakhak, S. and get a few good things. a passerentus has arrived - P.M. bar. 29.780 wind W N.E.

Sunday June 2, 1872

Ther. 44. 51.5. 42. Bar 29.700. Cloudy calm. A.M.

Churches watch 6.27
 Mine 6.32.5 losing 1 1/2 day
 Meantime 6.33.
 P.M.
 church 7.59
 mine 8.04

Bay foggy & rainy. Start at 6 A.M. for the Shell Rocks in Skutan Pass to take tidal observations simultaneously with those which I have arranged to have taken at Unalakleet in my absence. Take tea at the postage on Kulekhten bay. The lake is

Reading Staff	Time	Rise or falling	Running N. or S.
H. in	P.M.	Barometer	Wind light
3.7	3.30	7.0 1/4 F	ESE
3.7	40	7.1 1/2	
3.7	50	7.0 1/2	
3.7	4.00	7.00	
3.7	10	7.00	
3.7	20	6.11 1/2	
3.7	30	7.00	
3.7	40	6.11	
3.7.5	50	6.10 3/4 turns	
3.7.5	5.00	6.10 1/4 R	on both double bottom
3.8.	10	.10 1/4	
3.9.	20	.10	
3.10	30	.09 3/4	
3.11	40	.09 1/4	
3.11.5	50	.09	
4.0	6.00	.08 3/4	
4.0.5	10	.08 1/4	
4.1	20	.08 1/4	
4.2	30	.08 1/4	
4.3	40	.08 1/4	
4.4	50	.08 1/4	
4.5	7.00	.08 1/4	
4.6	10	.08 1/4	
4.6.5	20	.08 1/2	
4.7.	30	.08 1/2	
4.7.5	40	.08 1/2	
8	50	.08 3/4	
4.9	8.00	.09	
4.8	10	.09 1/3	
4.8	20	.09 1/2	

fresh extends within this shape and a few feet of the water at each end. We then crossed the pass of Unalga opposite the Head of English Harbor, and got a few eggs of *E. leucophaea*? on a small rock, arriving at Tunigagumuk 20 of the Chica group about 2:30 P.M.

Set up tidal staff near shore and get ready for observations at 3:30. Observe every ten minutes mean while picking up a few shells on the beach. One of the men shoots two *S. albus*. they are blacker here than on the Yukon.

See very few birds and no eggs on the island when we camp. Wind light ESE. Temp. of ebbing tide 44°. Temp of flood. 45°. Observe all night. Birds seen are a few murrelets, many shags, gulls and Urins. also dark gray murre bird with long red bill and large light colored feet & short tail & dark. Bird screaming all night. Rocks Breccia of basaltic fragments in a scoriaceous lava weathering queerly

Monday June 3. 72

Observe till 3 A.M. when Chund kindly relieves me for two hours after break fast at 5 A.M. re-

Reading Staff	Time	Falling or Rising	Buys
		Rd. 2 nd link	N or S
4.8.	P. M. 8.30	6.10 $\frac{2}{3}$?	W
4.9.	40	11 $\frac{1}{2}$	
4.8	50	11 $\frac{1}{2}$	
4.10	9.00	7.00	Invisible from shore on account of the dark water.
4.11	10	7.00	
5.00	20	.01 $\frac{1}{2}$	
4.10	30	.01 $\frac{1}{3}$	
4.9	40	.02	
4.8	50	.02 $\frac{1}{5}$	
4.10	10.00	.03	
4.10	10	.03 $\frac{1}{2}$	
4.11	20	.04	
.10	30	.04 $\frac{2}{3}$	
.09	40	.05 $\frac{1}{3}$	
.10	50	.06	
.09	11.00	.06 $\frac{1}{2}$	
.09	10	.07 $\frac{1}{5}$	
.10	20	.08	
.10	30	.08 $\frac{2}{3}$	
.09	40	.09	
.10	50	.09 $\frac{1}{5}$	
.09	12.00	.10	
.08	10	.10 $\frac{1}{2}$	
.08	20	.10 $\frac{3}{4}$	
.08	30	.11	
.08	40	.11 $\frac{1}{2}$	
.07	50	.11 $\frac{3}{4}$	
.07	A.M. 1.00	.11 $\frac{3}{4}$	
.07	10	.11 $\frac{1}{4}$	
.07	20	.11	

Tuesday June 4, 1890
 Cloudy, calm - Ther. 47, 58 41. Bar. 29.542
 All hands at work on rigging.
 9 P.M. Bar. 29.544. Work over
 collections and rest, being too tired
 to work after my long vigil on the
 island. Evening go ashore &
 call on the priest.

Ther. 48. 51. 43. Bar. 29.560 Calm
Cloudy, light rain falling. P.M. Heavy
rain - Sloop, Isabel Holmes sailed for ~~Alameda~~
Capt. Giles. Church on board. Work
over angles copying &c all day
7 P.M. Bar. 29.62.0 -

Reading Staff	Time A.M.	Rise or Fall Rd. Falling Differential	Buoys N.O.S.
4.07	1.30	7.10 $\frac{3}{4}$	
4.00	40	.10	
4.05	50	.09 $\frac{1}{2}$	
4.03	- 2.00	.08 $\frac{3}{4}$	
4.00	10	.08 $\frac{1}{2}$	
3.00	20	.08 $\frac{1}{2}$	
3.09	30	.08	
3.08	40	.06 $\frac{3}{4}$	
3.07	50	.05 $\frac{1}{4}$	
3.05	- 3.00	.04 $\frac{1}{2}$	
3.03	10	.03 $\frac{3}{4}$	
3.00	20	.02	
3.00	30	.00 $\frac{2}{4}$	
2.11	40	6.11	
2.10	50	6.10	
2.09	- 4.00	.08 $\frac{3}{4}$	
2.08	10	.06 $\frac{1}{2}$	
2.07	20	.05 $\frac{1}{4}$	
2.06	30	.03 $\frac{1}{2}$	
2.05	40	.02 $\frac{1}{4}$	
2.04	50	.01	
2.03	- 5.00	5.11	
2.03	10	5.09 $\frac{1}{2}$	
2.02	20	.08	
2.01	30	.06 $\frac{1}{2}$	
2.00	40	.05 $\frac{1}{4}$	
2.00	50	.04	
2.00	- 6.00	102 $\frac{3}{4}$	
2.00	10	.01 $\frac{1}{4}$	
2.00	20	.00 $\frac{1}{2}$	
2.00	30	4.11 $\frac{3}{4}$	

Thursday June 6, 1872

Ther. 44 - 51, 43, Bar - 29.610 - Lt NW wind cloudy raining rather hard in spells - all day wind shifts a little more to the west P.M. Bar - 29.830. Plotting shorelines -

Friday June 7, 1872

Ther. 44, 48, 40. Bar - 29.900 - Wind Lt W. Raining & foggy - P.M. more moderate evening clear a little, Bar 9 P.M. 30.150 - work over copying notes all day - men loading coal. The revenue officer comes off in a rage because we refuse to take screenings for coal but gets little satisfaction - work all the evening

Saturday June 8

Ther. 43, 54, 38. Bar - 30.200 Cloudy Lt NW wind - Start at 8 A.M. and spend the entire day running the shore line on the east side of the Bay from Stillwater to the point in Indian Bay where we left off the 25th ult. Return at 7 P.M. 9 P.M. bar 30.316 Day half clear about noon clouds mostly gone Wind NW light with a heavy northerly swell but the tides running low we get a good chance to work. P.M. clouds up again

Reading diff	Time A.M.	Rise & Fall	Buoys & etc
2.00	6.40	4.10	N both
2.00	50	4.09	South station
2.00	7.00	.08 $\frac{1}{4}$	
2.00	10	.07 $\frac{1}{2}$	
2.00	20	.06 $\frac{3}{4}$	
2.01	30	.05 $\frac{3}{4}$	R
2.02	40	.05 $\frac{1}{2}$	
2.03	50	.04 $\frac{1}{2}$	
2.05	8.20	.04 $\frac{1}{2}$	
2.06	10	.05	
2.07	20	.03 $\frac{1}{2}$	
2.08	30	.03 $\frac{3}{4}$	
2.07	40	.03 $\frac{1}{2}$	
2.07	50	.04 $\frac{3}{4}$	
2.07	7.20	.05 $\frac{3}{4}$	
2.07 $\frac{1}{2}$	10	.05 $\frac{3}{4}$	
2.06	20	.05 $\frac{3}{4}$	
2.06	30	.07 $\frac{1}{2}$	
2.05	40	.07 $\frac{1}{2}$	
2.05	50	.08 $\frac{1}{4}$	
2.05	10.00	.09 $\frac{1}{2}$	
2.05	10	.09 $\frac{3}{4}$	
2.05	20	10 $\frac{1}{2}$	
2.05	30	5.00 $\frac{3}{4}$	
2.05	40	.02	
2.06	50	.03	
2.08	11.00	.04 $\frac{1}{2}$	No dock light omitted in list
2.09	10	.04 $\frac{1}{2}$	
2.10	20	.07 ?	
2.11	30	.09 $\frac{1}{4}$	
3.00	40.50 3.40 $\frac{1}{2}$	.10 $\frac{1}{2}$	

Sunday June 9th

Ther. 41.55 41. Bar. 30.340 Cloudy
 Calm in light S air. 30.318 at 9 P.M.
 Visit Nakekinsky Bay - get a
 good many Mactras & Macchaeas
 the place is very pleasant a
 wide sand beach with three
 good sized streams emptying into
 it and a good well protected
 boat landing on the S.W. side
 the land for a short distance
 is moderately level, dry &
 much better than at Shink
 though there is no harbor for
 vessels - P.M. call on Mr. Nash

Monday June 10

Ther. 43.55.48. Bar. 30.236. Cloudy
 Calm with a few light showers -
 Search for rock near reef. Finish
 series of angles from A. A. also
 running line of flat from Abbaton
 to Lake - P.M. Soundings in
 outer road - completed. This fur-
 nishes the main work which I
 propose to lay out here this sum-
 mer. P.M. go ashore & call on
 Capt. Henry & Ennis. 9 P.M. Bar.
 30.214 Calm - cloudy

Tuesday June 11.

Calm. Cloudy. Ther. 46. 57. 43. Bar.
 30.192 - Later fresh S wind. Windy

Height

Feet in

3.01

.02

.03

.04

.05

3.06

3.07

3.08

3.09

3.10

3.11

4.00

4.02

4.03

4.03

4.04

4.05

4.04

4.04

4.04

Line

12. M

10

30

30

40

50

1. 00

10

20

30

40

50

2. 00

10

20

30

40

50

3. 01

Rise or
 Fall

6.00 R

6.01 $\frac{1}{4}$

02 $\frac{3}{4}$

03 $\frac{1}{2}$

04 $\frac{3}{4}$

06

07 $\frac{1}{2}$

9 $\frac{1}{4}$

10 $\frac{1}{4}$

11 $\frac{1}{4}$

7.00 $\frac{1}{2}$

01 $\frac{1}{4}$

02 $\frac{1}{4}$

03 $\frac{1}{4}$

03 $\frac{3}{4}$

04 $\frac{3}{4}$

05 $\frac{3}{4}$

7.06 Falls

7.06

Bumps
 N or S

Surface most
 North

bench mark. All hands busy
in getting ready for sea.
Sloop Jabez Howes Gies arrives
from Umanak. Church says
the beach there is rocky &
had nothing but sparged with
get Pinarts stuff & mine out
of the warehouse pack speci-
mens all day - closing up
at 10 P.M. Bar. 9 P.M. 30.220
Cloudy calm.

Wednesday, June 12

Cloudy fresh SE wind Ther. 43. 57
49 - Bar. 30.160 - All hands busy
getting ready for sea. Sloop Jabez
Howes Gies leaves for Akkum but
reports weather squally. Str. Hut-
chinson from Morzhowsky with
Father Nicolai, Niebaum, and young
Morton, arrives - about noon.
Weather foggy rainy with fresh
SE squalls. Put triangles and
pack instruments aboard for sea.
Go aboard the str. & get one letter.
P.M. - Go ashore for a while. Get
barometer receipt from priest
9 P.M. bar. 29.900

Thursday, June 13

Cloudy, rainy, light S wind - Ther. 44
60, 48. Bar. 29.490. About 10 A.M.
breezes up and clears off blowing

a gale from the south and
southwest, afterward moderating
again with rains and squalls -
93.11. Bar. 29.690 Flat shore
lines all day evening - see tyone
about signals, Adolpts wife abt.
washing. bill at store, &c.
Spent most of the evening around
the Hutchinsens - Neumann &
Wagners love affairs occupy most
of the public attention at present.

Friday June 1st

Cloudy, rainy, SW gale blowing with
heavy squalls Ther. 41. 48 44. Bar. 29.700
Go ashore pay bills, get barometer &c
Blows all day, evening moderates
a good deal. Bar. 30.840. Go ashore
at night and witness the marriage
by Father Medai, of Arthur Neumann
and Chas. Wagner with Helena &
Nadyestva Shaychinskoff respectively
Capt. Nielsen, Nelson, Ennis &
Hanner being crown holders and all
of our party except Bailey, together
with Fish, MacIntyre, Mrs. Ennis
Macdonald, Charley, Sharfeldt & others
being present - Go to the priests
much against my will & stay
a short time after the ceremony
and then go aboard the Hutchinsens
and come aboard at 11 P.M.

Saturday June 15

Ther. 42. ~~62~~ 48. Bar. 30.430 Cloudy
light S air. later clears a little
and wind shifts to NE. Go
ashore & bid all hands good
bye. Mrs. Ennis' brother is at
Bullock & Co's clothing warehouse.
The priest's wife wants guitar
strings and No. 3 cloth shoes.
See Capt. Niemann and learn
about the Telegraph scheme from
him. Go aboard the Hutchinson
for a while then aboard. Clears
off about noon with varying W.
winds little by fresh NE which
prevent our leaving the harbor.
Sails at 4 P.M. for time. Evening leave
the small harbor and anchor
in the road. Sch. John Bright
arrives from North, having
visited the Porbyloffs & fine
North until he reached the ice
in 56° 20'. He had rounded a good
deal about the Ids. found a fifteen
mile S current north of St. Paul
SW 80 miles from St. P. 70 fms.
a little further ~~no~~. thinks the
currents up here variable with
wind & but at this season mostly
SW rarely E. Go to church &
call on the priest's family & aboard
by 10 P.M. Bar. 29.870

about six P.M. wind shifts to
N, clouds up and fog rolls
in. later nearly calm or SE

Sunday June 16. 1872

Ther. 47, 47, 44. Bar. 29.800

Cloudy, wind light or none
Get up the anchor at 6 o'clock
and stand out a little when
it falls calm and we an-
chor again. Later about 9
we have a light N breeze
and put out again -

Bar. 9 P.M. 30.050. Get outside
of the harbor and find a heavy WNW
swell & fresh wind stand off on the
starboard tack but it freshens so
that I conclude to give up the Bogo-
slov trip and head her for Unalga Pass.
The wind is fair to the Shumagins
and it is too valuable to throw
away for the doubtful chance
of doing anything at the other
place. I come to in the Pass &
drop two Aleuts in their bidarka
who were going to Bogoslov for goods
with us. Then go off with a
fice wind and I move rapidly
than I have ever before got
through one of these passes. See
the sloop Isabel ahead on her
way to Chituk from Akutan -
at 6.30 P.M. leave the Pass
cloudy - foggy not very rough
but fresh WNW wind -

WNW $\frac{1}{2}$ W

Unalga 90 90° m

Monday June 17/72

Morning half cloudy. Ther. 44. 47
41. Bar. 30.226. Wind WNW fresh
with some sea. See peaks of Shish-
aldin, Isanotsky, and afterward
of San-nak, Island. Making
very good time toward our des-
tination. P.M. breezes up fresh
and about half past six have
to shorten sail and come to
blowing a westerly gale. Bar. WNW
changed.

Tuesday June 18

Ther. 42 48 45. Bar. 30.220 Early
in A.M. wind moderates and we
make the S end of Nagai about
5.30. Hazy + cloudy. Wind moderate
W. Stand over toward Unga for
Popoffsky Strait. and anchor inside
of Sand Point in 9 fathoms water
sandy bottom at 12.45 P.M.
Afternoon cloudy + rainy. Go
up the strait and examine the
shore for places for base line
signals. Go onto Range Island
+ get some sp. of birds &c. Get
a great number of flowers
some new to our collection
Night rainy cloudy wind SE fresh
Bar. 30.160.

Wednesday June 19

Therm. 43. 58. 47. Bar. 30.140.

Cloudy, fresh westerly wind varying from SSW to NNW in puffs.

Spend day in erecting signals

Baseline on the sand spit. Sand point signal

on the end of an old raised beach ridge just inside

the present beach about

8 feet above the level

of the latter and at its

western extremity the

other end of the line is

at the Bluff signal

which is on the crest of a small bluff

at which the sand spit ends just beyond

a small stream which trickles down

the hillside. The next on the Unga

side, Unga signal is on the top of

a moderately high bluff. The next

Reef signal is on the next point

north of the last from which the

unga reef makes out. River

signal is on the point opposite

just west of a light into which

a river empties. On the Unga

side the next signal is on the

point opposite the Range island

Strait station and the last on the

unga side, West Head station is on

the rocky high bluff which forms

the Northwest Head of the Strait
East Head is on a low grassy
bluff on the opposite side, on its
highest point. Range signal is
on the north side of Range Island
and is nearly in a N+E line
with the end of Sand-point.
Lastly Popoff signal is on a low
point to the SE of the island. Fur-
ther particulars in relation to the
position of these signals must be
deferred until they are determined
with the exception of Sand Point
and Range signals which are after
the bilateral pattern, they are all
flag signals, removable at pleasure
so that the theodolite can be placed
in their exact position. Evening
calm. Set a great quantity
of flowers with the fragrance of
which the air is loaded and
they are more abundant here
indeed, more fragrant & more
beautiful than any I have ever
seen anywhere. Evening calm
cloudy. Bar. 30.080

Thursday June 20 1872

Ther. 47. 50 42. Bar. 30.040 Cloudy
foggy, rainy, calm. Set up tide
staff and River signal. P.M.
measure base line and find.

ing it too short have to run
it up onto the top of the hill
quite a distance from shore
which we must mark by
a new signal - Day dull
and damp. Find a grouse
nest with a lot of eggs -
Get several good shells on the
sand point - P.M. bar. 30.080

Friday June 21

All cloudy, foggy, rainy - Ther. $44\frac{1}{2}$ 48. 46
Bar. 30.060. P.M. clears up fine
and calm or very light wind
cloudy again in evening. Erect
a signal on the hill, Hill station
and remeasure the distance from
it to Bluff signal and from that
to Sand point. Take a series of
angles at Bluff signal. To
compute a base by the formula
for a "broken base". Take two
series of angles from Sand Point
station and return to vessel at 6
P.M. 9 P.M. Bar. 30.140. Proof of
baseline today comes out within half
a meter of yesterday's results. Observe
tidal current through the strait when
in the early part of the flood runs
at the rate of $2\frac{1}{2}$ feet per second -
more rapidly in the narrows
where a small chop of sea is
caused but no rips of consequence

Saturday June 22.

Ther. 49. 52 45. Bar. 30.190

Cloudy, raining hard. Fresh SW wind
later, blows quite hard between
W & SW. Copying all day. See
a schooner in P. M. probably
going into Coal Harbor. 9 P. M.
Bar. 30.250 - Cloudy strong SW.

Sunday June 23

Ther. 48. 55. 44. Bar. 30.260

Cloudy light W wind. Fresher
toward noon. 9 P. M. bar. 30.230

Four bidarks pass us bound for
Alaska to hunt deer. Learn
of them that the bark Legal Tender
is in Sanborn Harbor, 4 fishing
schooners have been about the Ids
this spring. Cator has 7000 fish
Six is still at Coal Harbor. Give
them some biscuit and tell them to
bring some deer meat when they come
back. Mr. Hodgkins finds fossil
oysters on the E side of Popoff Ids
Work all day over current notes &
synopsis. Capt. Hall brings in a
lot of good specimens of invertebrates
& Peter some birds incl. golden Plover
Zon. coronatus, Mel. affinis, & similar

Monday June 24

Ther. 49. 52 45. Bar. 30.180. Cloudy.
W wind raining moderately in A. M.

and harder at noon. Go ashore
at 8.30 find the lowest low water
two feet and a half below the zero of
staff. Yesterday it was about six
inches lower. The highest mark
on the rocks of algae & other marine
vegetation denoting highest water
stood at 7 on the staff. So that
the extreme range of the tides here
would be about ten feet and
may reach 12. The rise and
fall at present are between 7 & 8
feet. Find a number of in-
teresting invertebrates on the rocks
usually confined to deep water
& visited from Red Cove visits
as in the atoll. P.M. still raining
hard. Take the large boat and exam-
ine the north side of Popoff Island
Get a number of fossils. Return
wind dies away. Spend evening in
putting up & arranging specimens
9 P.M. fresh SW wind, clear, or nearly
so, bar. 29.980.

Thursday June 25

Ther. 48.5.57. 44. Cloudy high 16 by 5
wind. Bar. 29.920. Quite a high sea
running. Go ashore on the shore
line from bluff signal to some
distance below Arch Rock and
return to vessel about 1.30 P.M.

Afternoon. Run shoreline from Bluff A to the river and come aboard about 7 P.M. Two of the Indians return from the peninsula and bring us two quarters of reindeer meat. Send a note to Caton by them. Day very windy, get wet through twice by the sea breaking over the boat. Evening moderates a little. Skin birds. Bar. 29.900

Wednesday June 26

Ther. 46.5, 50, 44. Bar. 29.898
Cloudy. It was a calm. Go out running shore line on Popoff 00 but the wind shifts to S and shortly after we reach River signal it commences to rain and we are obliged to return. Spend day platting shoreline. P.M. wind N.E. Boat goes after salmon but gets none. Bidarra comes down from Allashayud. I buy six quarters of reindeer meat. The vessel we saw going into Coal Harbor was the Koscove. Evening raining hard. 9 P.M. Bar. 29.900

Thursday June 27. 1872

Ther. 47, 49, 44. Bar. 29.850. Cloudy raining hard. work at platting all wind W. SE

day. Boat goes round to Coal Har-
bor. Caton comes up from Unja in
P.M. also the starck from Red
Cove. who gets some nubians for
his wife. The boat returns
from Coal Harbor bringing Dix &
a great lot of fossils. H. & Caton
spend the night with us. Wind lt. SE
9 P.M. bar, 29.624.

Friday June 28

Ther. 46.5 52.5 - 44. Wind lt SE, bar
29.636. Cloudy, foggy. Fine rain
falling. Caton leaves for Unja
Pack fossils all the A.M.
about 1 P.M. wind shifts to NW
and weather improves a little. Go
ashore & start on shore line but it
begins to rain immediately & we
have to return. Dix goes home & the
Capt. dredges a little in the strait
getting a specimen of *Rictocypris*
& a new *Cancellaria*. We also some
interesting Crustacean sponges. Even-
ing clears up the fog but still cloudy
Bar, 9 P.M., 29.696.

Saturday June 29

Cloudy nearly calm or lt NW.
Ther. 43.5 47. 46.5. Bar. 29.598.
Go out running the line from
River Δ to East Head. Work all
day over very bad rocky beaches

About noon tide turns, and
wind shifts to S.W. moderate, then
fresh with rain. Keep on in
spite of rain till 4.30 P.M. and
then return having finished as
far as ~~Rainbow~~ East Head
signal. Go on to the Range Is
and get a few eggs. P.M. moder-
ates again & rain ceases.
9 P.M. Bar. 29.590

Sunday June 30

Ther. 49. 55. 43.5. Bar. 29.620 Sun
out at intervals cloudy, fresh W
wind later clouds up entirely
Sun out for a little while near noon
wind S.W. fresh. P.M. Sun out most
of the time. The boat goes down
to Red Cove where they get a
load of salmon. The valley here di-
vides the island in two, the rocks
very different on each side of it
work at platting all day. 9 P.M.
Bar. 29.824

Monday July 1, 1872

Ther. 48.5. 60. 44. Bar. 29.840
Cloudy, fresh N.N.W. wind with a
little rain. about 9.30 A.M. rain
ceases and I cross to the other side
of the Strait and run the line
from Unge station to a point
on the Unge side a little S

of W from the Sayer point signal
Take some lunch and a series
of angles from Huga station
and run the shore line up
to the lava bluff very near
West Head signal. This is
the longest line we have ever
run in one day.

Finish at 8.40 P.M. and re-
turn to boat and arrive at
vessel at 9.30 P.M. See a
schooner the Flying Mist go
ing into Coal Harbor. 9 P.M.
bar. 30.010. Wind all day fresh
+ puff N.N.W. to N.E.

Thursday July 2, 1892

Half clear, fresh N.N.W. wind. Ther. 53
65. 43. Bar. 30.040. Cloudy from light
wind after 12 M. Go to West Head
A & take the angles from that point
and run the rest of the shore line
on that side then cross to East
Head, get some tea. See the Flying
mist coming out of Coal Har-
bor and standing to the East
ward - Run shoreline from
Popoff back to East Head & take
the angles from that A. When
get some tea & cross to Range
Island & run the shoreline
all around it. Finish about
9 P.M. calm, half cloudy, Bar. 30.020

29.56
57.41
58

Kill two *Phanaeus* *maxima* & a *Phanaeus* of which I have the eggs but do not know the name. Get back to the vessel about 9.30. The tide is to be at 10.30. Tomorrow is going direct to E.T. We must try & send letters by her.

Wednesday July 3

Ther. 69. 57. 31. Bar 29.900
Wind light N.W. Go to Throat and view station & take the cables from those places then return to vessel at 1 P.M. Both half cloudy. Clouds up at noon and later on. Light rain 2 P.M. with variable light winds & calms. Start at 3 P.M. for Selkoff Harbor, having to row most of the way. getting there about 7 P.M. Take up things into Cabana house and look about a little raining hard. The ship *Sabeg House* is in port with *Green Church* & *MacIntyre* aboard. She arrived from Ulaushka via Belkopsky on the 28th having left Ulaushka on the 23rd. The *Hutchinson* sailed on the 19th. The *Agassiz* had not yet returned. The *Bright* had sailed with goods for Alaska. MacIntyre takes charge of H.K. at Belkopsky & *Green Church* returns by the ship. Bar 29.600 3 P.M.

Thursday July 4, 1893

Ther. 51. 48. 51. Bar. 29.560. Wind
strong NE. Cloudy foggy & raining -
go around the harbor finding
the chart far from correct -
in details. Get a few flowers
& shells nothing of interest.
P.M. take a dog and go down
the point to the old cable and
get a lot of wooden articles &
pick out those which we
can conveniently carry leaving
the rest until another time.
The sch. Vivid Capt. George Hol-
det. Belkoffsky arrives in P.M.
with a Mr. Schurpen aboard
they are to take down fish -
Give them our letters. Go
off about 8 P.M. make a
long talk and reach our place
in 10 minutes. P.M. then write
letters and go back up to the
vessel.

Friday July 5

Ther. 46. 50. 45. Bar. 29.640 Wind
to variable a calm - NE - Cloudy
foggy & raining - all day. P.M. nearly
dead calm. Work over plating
shovel. P.M. packing away
specimens & skinning birds.
9 P.M. bar. unchanged

Saturday July 6

Ther. 48. 50. 46. Bar. 29.500, Cloudy
foggy raining hard. Sharp Isabel
figures 415 from 11:30 to 1:30
sky passes us beyond 11:30 and
in A.M. Plating shorelines all
day - Evening wind rises to a
gale from NE, and blows very hard
Bar. 9 P.M. 29.520. Copy angles -
get some meat from ^{Widdowson}

Sunday July 7

Ther. 44. 50. 47. Bar. 29.495, Raining
hard, foggy nearly calm. Morning
fresh NE breeze rains all day -
Work over plating, copying
notes & angles to 9 P.M. bar. 29.500

Monday July 8 Calm cloudy

Ther. 51.5. 55. 44. Bar. 29.470
wind NW fresh nearly clear. Go
to Range Island and take a series
of angles & some telemeter observa-
tions but the wind rises so high
that we have to return. High
wind all day with some rain in
P.M. mostly cloudy. Evening
weather unchanged 9 P.M. bar. 29.480
Plating shoreline & copying notes
all day.

Tuesday July 9

Ther. 47. 50. 52.5. Bar. 29.510
Cloudy to NE wind - Take the
observing angles from Hill & River

Stations in the Pull finish those
at Puff, & Sand Point completely
the triangulation at this place.
Morning nearly calm or N. N. E.
wind half cloudy, quite warm.
P.M. S.W. wind a little, white steam
N.W. quite light. Birds flying
with the bay with flocks down
toward the bay without stopping.
Evening for a long while and
finish computation of angles.
P.M. bar. 29.750.

Wednesday July 10

Ther 47, 64.53. Bar. 29.780. - Half
cloudy, wind very light and vari-
able. Start at 8 A.M. and row
until 12.30. P.M. sound till 5.30
and return to vessel. Mr. Hodge
has observing tide staff. Two
boats from the bark Legal Tender
in charge of Mr. Chute, going
to Coal Harbor for coal, come
alongside & spend the night. P.M.
cloudy. The 1807 windup today.
P.M. bar. 29.880.

Thursday July 11

Ther 52, 61, 48.5. Bar. 29.782. Cloud
very light & wind. Start at 8.30
sounding & sound all day taking
some lunch with us and finishing
the work in these straits. Back to
vessel at 6.30 P.M. Chute goes back

without going to Coal Harbor for
coal as the dory is not there.
Mr. Hodgekins repairing his stuff.
9 P.M. calm. Bar. 29.874.

Friday July 12. 1872
Ther. 47.5, 58 59.5 Bar. 29.880.
Cloudy, foggy, rainy, calm. Go out
dredging in A.M. Leano comes up
in Cabot's boat and informs us
that he has gone to S. Francisco on
the Vixen which sailed yesterday.
After dinner heave up the anchor
and go round to Coal Harbor
wind very light N.E. 9 P.M.
bar 29.930 Anchor in Coal Harbor
about 6.30 P.M. We sent his
boy to Hays on the dory but the
boy had not arrived. Evening put
thing specimens in order.

Saturday July 13.
Cloudy, foggy, rainy, wind N.E.
Ther. 50. 40 47. Bar. 29.903
Work over plating. Capt. Hall goes
out dredging with great success
9 P.M. bar unchanged.

Sunday July 14
Cloudy, foggy, rainy, wind S. mod
Ther. 50. 54. 47. Bar. 29.868 Rains
hard all day. Work over assort-
ing the specimens dredged yesterday
a job of no little labor. Evening
copy angles. Bar. 29.900

Light shock of earthquake felt on shore
at 6.30 this A.M.

Monday July 15, 1892

Ther. 49, 58, 46 Bar. 29.948-
 Cloudy rainy. S wind. Noon
 wind shifts to S.W. & weather
 improves a little. but still
 unsettled. Plating all day. Even-
 ing putting up specimens. The boat
 goes over to the S.W. side of the
 bay. Bar. 9 P.M. ~~29~~ 30, 110

Tuesday July 16

Ther. 47, 54, 49. Morning. Foggy, rainy. Bar. 30.170
 fresh S by W wind. Noon moderates
 a little. P.M. wind fresh but no
 rain, go out and take telemetric
 observations and angles from the
 top of Round Island. Rain comes
 on and we return. P.M. preparing bird sk
 in. P.M. 9 o'clock bar. 30.090

Wednesday July 17

Ther. 48, 50, 45. Bar. 30.000. Wind
 mod. SE. foggy, raining. Day rainy
 P.M. wind very fresh with much
 wind. Sch. J. H. Roscoe comes in to
 make a harbor. left S. F. May 9. has 30
 rot fish. After dinner Capt Jones comes
 aboard. Boat in A.M. goes over to Dix's
 place & brings him over. Blowing a fair
 outside. take Roscoe. 9 P.M. Bar. 29.880

Thursday July 18

Ther. 50, 52, 46. Bar. 29.870 Stormy
 S.E. gale with some rain. The wind
 severe we have not since April 1891

April

Clear days 2
 Cloudy 9
 Stormy 19
 Sundays 4
 Day work done 4
 at sea. 5

Bar. mean. 29.631
 Max. 30.420
 min. 28.450
 Ther. mean. 37.6
 Max. 49
 Min. 30
 T.W. 37.6 - 38.437
 D. 37.5 - 36.439

May

Clear days 1
 Cloudy 11
 Stormy 19
 Sundays 4
 at sea. 0
 Day work 12

Bar 29.637
 Max 30.060
 min 28.950
 Ther 40.6
 Max 60.
 Min 32.

T.W. 40.8 - 39 + 44

D.W. 39.6 - 39 + 40

June

Clear days 0

Cloudy days 17

Stormy 13

Sundays 4

at sea 2 1/2

Days work 12 1/2

Bar. 29.932
 Max 30.420
 min 29.460
 Ther. 46.5
 Max 62.
 Min 38

TW
 44
 -44
 +44

DW
 42.5
 +44
 -40

Quarter

Clear days 3

Cloudy 37

Stormy 61

at sea 7 1/2

Days work 28 1/2

at 40.8
 TW +44 = 38
 DW +44 = 36
 at 39.96

Bar. 29.733
 Max 30.420
 min 28.450
 Ther. 41.6
 Max 62.0
 Min 30.0

Friday July 19, 1872
Ther. 48.5. 45 - Bar. 29.950 Cloudy
foggy, rainy, fresh S wind - 8 hr
Rascoc leaves the harbor
over

July to 17th
Clear days
Cloudy " 6
Stormy 11
Sundays 2
at sea $1\frac{1}{2}$
Days ank $6\frac{1}{2}$

noon moderates a little. Afternoon
less wind + more westerly, some
rain + fog - Evening raining again.
9 P.M. 29, 840

Friday July 19, 1872

Ther. 48.3, 54, 45. Bar. 29.950. Cloudy
foggy rainy, fresh S wind. Schi-
Roscoe leaves the harbor, P.M.
toward night a little more
moderate. Tide meter washed
away in the gale. 29, 950

Saturday July 20

Ther. 49, 51, 46. Bar. 30.120 Cloudy
foggy, rainy. Today being full
moon with very low tide set up the
tide staff again so that the zero comes
at dead low water. but about 8.30 A.M.
as we are preparing for soundings
it commences to rain hard, which
delays us till ^{midnight} noon when we leave
off sounding, wind high S.W. with
occasional rain squalls. Tide runs
about nine feet today very low
water in the morning. The white
mark on the rocks is almost ex-
actly 11 feet above low water mark
of today - P.M. Schi. Wild Gazelle

Capt. Henderson, with 45,000 codfish comes
in + gets ashore on the spit but floats
off in P.M. Very rainy + disagreeable
Draw headlands, burning skin birds I do
up a lot of odd jobs - 30, 000

Sunday July 21

Ther. 49, 53, 45. Bar. 29, 848. Cloudy,
foggy rainy fresh wind S. Tide
low at 7:10 a.m. staff 0.3

Go ashore and collect along the
length of the coralline while the
tide is low, getting many good things.
Copy Capt. Henderson's Chart and
return it to him. P.M. the Roscoe
comes in and anchors in the outer
anchorage. Arrange specimens.
9 P.M. Bar. 29, 880. Wind shifted to W
clears up a little but high wind

Monday July 22

Ther. 48.5, 57, 45. Bar. 30, 000. Wind
fresh NW. half cloudy. Sounding here
6 inches per fathom staff.

Benchmark 4 ft 5 in $\frac{1}{2}$ above water staff
standing at 9 ft 1 in. 1.25 P.M. B.M.
Work at soundings all A.M.

Mr. Gardner with a boat from the Legal
Tender arrives bringing us 61 lbs of
coffee. At noon finish sounding.

P.M. measure for a bench mark
and engrave it on the SW corner of
the Round Id. on a perpendicular
face of sandstone when the rocks
come down to high water without
any beach. Then take angles from
top of Round Island. Then cross
the Bay & take a few angles from

near the house, get some specimens
of rocks &c and go back to vessel
Evening plotting Range lines &c

P.M. bar 30.110 Tuesday July 23 Day windy, cloudy

Ther. 46, 54, 50½ Bar. 30.140 Low tide at
8.30 there is no stand. Get on to end
of spit & get the following rough
bearings. Mainland S 23 W. Last
pt sighted to on Id. S 80 W. Corner
of Id at Pt. N 70 W. Watering place N.
32 E. Go ashore on Round Island
and get some clams & then go aboard
no wind. About noon sail for Napai.

Two N ends of Ungava & Koroiv in one E mag.
S End of Andronica & N E of Popoff Ids in
one E ½ S. from high straits

Two S ends of Koroiv in one E ½ N.
N end small Id off Pop. & S end Andronica
in one E ¾ S

N end Andronica & S end of Koroiv
in one E.

S end Boulder shutting on to NW
end Koroiv NE ½ E - E peak of
Unga bearing S.

9 P.M. bar. 30.130 wind very light E.

Beating all day with a very
moderate wind and strong head tide
making hardly a mile an hour.

Falmouth Harbor
Napai

Wednesday July 24

Ther. 50, 54, 48. Bar. 30.150 Cloudy foggy, lt NE wind with a little rain at intervals. Came into the N light of Nagai about six A.M. and at 11.30 anchored in the head of Sanborn Harbor in 8 fms. P.M. go ashore to try for a position for a base line and signals. There are no beaches suitable and it will have to be measured on the top of the bank. The triangulation will be pretty simple. The surroundings of the Bay are not attractive. High and rugged mountains rather bare of vegetation which is less forward than on the N.W. shore, narrow beaches covered with sharp rocks and the fog train altogether do not prepossess one in favor of the locality. A grave on the side of the hill with inscription to the memory of William Howell who died on board the Sch. Arizona in 1864 aged 42. And also a signboard put up by Capt. Wm. Morse in 1866 of the U.S. Sanborn when he first discovered the harbor. 9 P.M. Bar. 30.220

Bay alga 1864 same
Sch J.H. Roseoc 1869
J.D. Sanborn 1867
one other name unknown
got on reef in Popoff Straits
J.H. Steele 1867, went safely by inside.

Thursday July 25

Ther. $52\frac{1}{2}$, 56. $48\frac{1}{2}$. Bar. 30.220

Weather foggy, with some rain light N by E wind. A.M. setting up signals as follows -

South Base on a knoll, back from the beach N.E. of the grave, prim. A North Base. Half a mile further north on a similar knoll behind the beach which is too crooked to admit of running a base line near it. These two from the ends of the baseline. Primaries

Flag Lake station on a small point near the north head of the harbor. Beach station, in a similar Flag situation on the other side.

Rock station, on a small rocky bluff about half way between N + S Base stations on the west side of the bay.

Point Firweed station on the side of the hill nearly opposite shore on the west side of the bay.

Flag Eagle station on one ridge of the rocky bluff on the East side opposite the entrance of the harbor. Least 2 erected in P.M. rainy foggy & very lt wind.

9 P.M. bar. 30.214 Foggy rainy

Friday July 26. 1872

Ther. 53, 58 50. Bar. 30.140
 Wind early shift, SW, 8.30 shift
 to NE light. Foggy with occasional
 dry rain. Measure baseline from
 N to S - 767.342 m. Then rain.
 P.M. run shore line on some
 side harbor for an hour or so
 then stopped by rain. Spence
 comes over for some medicine -
 9 P.M. Bar. 30.080

Saturday July 27

Ther. 50, 72 52. Bar. 30.026 - Light
 SW wind driving off fog. Cloudy in
 morning run shoreline of harbor
 from North base to Fireweed As
 about noon clears off, sky
 half cloudy or nearly clear
 at times, warm & sunny. P.M.
 ascend the high mountain opposite
 the entrance of the harbor which
 I shall call Mt. Patterson; and
 take a series of angles & bearings
 from its summit as opposite.
 Ascend in 55 minutes. Return about
 5 P.M. Capt. Hall goes over to
 the east side of the island and
 gets *Purpura lactuca volutopsis*
P. septentrionalis, *Muricea* sp. &
Salicaria. Beaches very barren here
S. Parryi common on the hills. Slates
 conformable with Uge sandstones &

3262
 -48

Casella's theodolite 3300

	N	A	B
NE Peak of Uge.	275.25	0°	0 284 3/4 N 180° 00'
N and S in Strait.	279.25	3	59 280 3/4 W - 58
at U. ...			278 W - 46
Map -			277 3/4 W - 11
N. 84 3/4 W			276 W - 44
80 3/4 "			275 3/4 W - 34
78 "			270 3/4 W - 14
77 2/3			266 1/4 W - 24
76			- 56
75 1/4			- 13
			- .00
			- .26
			- .46
			- .08
			next 10°.01 - .17
			(10.14) - .10
			- .34
			- .37
			- .01
			- .02
			- .02
			- .47
			38
NE Peak of Uge	275.25	500.00	180.00

Mt Patterson is about 1154.4 ft above sea

May -

June

N. 84 $\frac{3}{4}$ W'

" 80 $\frac{3}{4}$ "

" 78 "

77 $\frac{2}{3}$

76

75 $\frac{1}{4}$

70 $\frac{1}{2}$

66 $\frac{1}{4}$

58 $\frac{3}{4}$

57 $\frac{5}{8}$

54 $\frac{2}{3}$

48 $\frac{1}{2}$

38 $\frac{2}{3}$

37 $\frac{3}{8}$

14 $\frac{1}{8}$

N 12 $\frac{1}{2}$ E

28 $\frac{7}{8}$

61 $\frac{3}{4}$

73

88 $\frac{1}{4}$

89 $\frac{1}{4}$

S 85 $\frac{1}{8}$ E

25 $\frac{1}{8}$

N 84 $\frac{3}{4}$ W

179 60
146 17
33.43

30 30 30
30 30 30
30 30 30

(E)

N. 210

S 180

E 90

W 270

264

272 $\frac{1}{2}$

67 $\frac{1}{2}$

132

132

132

132

132

240

235

132

122

X P. $N 23 \frac{7}{8} W$
 X M. $S 89 \frac{5}{8} E$
 m P. $N 41 \frac{1}{2} W$

 $48 \frac{1}{8}$

541.309
 $23.52.30$

 1738.30

95.46
 71.71
 23.53

$90 \frac{3}{4}$
 $23 \frac{7}{8}$

 $114 \frac{1}{4}$
 $50 \frac{60}{56}$
 $4 \frac{240}{3}$

7.30
 25

 52.5

30

$17.37.30$
 $48.07.30$

 $114.25.00$
 $00 \ 00$

5.61

Friday July 26, 1872

Ther. 53, 58 50. Bar. 30.140
 Wind early shift, SW, 8.30 shift
 to NE light. Foggy with occasional
 very rain. Measure baseline from
 N to S - 767.342 m. Then rain.
 P.M. run shore line on some
 side harbor, for an hour or so
 then stopped by rain. Some
 came over for some medicine -
 9 P.M. 30,000

Saturday July 27

Ther. 50, 72 52. Bar. 30.026 - Light
 SW wind driving off fog. Cloudy in
 morning run shoreline of harbor
 from North base to Fireweed Δs
 about noon clears off, sky
 half cloudy or nearly clear
 at times, warm & sunny. P.M.
 ascend the high mountain opposite
 the entrance of the harbor which
 I shall call Mt. Patterson; and
 take a series of angles & bearings
 from its summit as opposite.
 Ascend in 55 minutes. Return about
 5 P.M. Capt. Hall goes over to
 the east side of the island and
 gets *Purpurea lactuca volutans*
P. septentrionalis, *Muricea* sp. &
Saxicava. Beaches very barren here
S. Panix common on the hills. Slate
 conformable with Mgo sandstones &

262
 78

Cassella's theodolite 3300

	N		A,	B
NE Peak of Unga.	275.25	0.	0 284 2/3 180.	00
N end Id in Strait.	279.15	3	39 280 2/3 W -	58
Bluff S of Unga A Unga.	282.00	6	46 278 W -	46
" SW edge Popoff Id	282.1 1/3	7	12 277 2/3 W -	11
" S " " Head	284.	8	45 276 W -	44
Top of " " "	284 2/4	9	34 275 1/4 W -	34
Red? Peak on " Id	289.5	14	14 270 1/2 W -	14
N " " " "	293 3/4	18	24 266 1/4 W -	34
NE end of " "	301.1 1/4	25	56	56
Top small Id	302.3 1/8	27	13	13
SW edge Korovin	305.1 1/3	30	04	04
Pinnacle at Nagai	316.7 7/8	41	26	26
Sharp peak E Korovin	320 1/8	44	47	46
W end Andronica	320.5 5/8	46	09	08
Fireweed Δ Nagai	345 3/8	70	18. (10.01)	17
N Base Δ " "	212 1/2 E	97	10 (10.14)	10
Top high " Peak "	287 7/8	113	34	34
NE peak Nagai on peninsula	61 3/4	146	37	37
(a) End bluff E coast N.	73.	158.	00	01
S end of N Id off do	86 1/4	173.	02	02
N " elbow S and pop off small Harboir E }	89 1/4	174.	02	02
N end south Id } off last & (a) }	94 7/8	179.	47	47
S Head of light in Nagai below. }	154 7/8	239.	37	38
E Peak of Unga	275 1/4	360.00		180.00

Mt Patterson is about 1154.4 ft above sea

immediately underlying them, having a thickness of at least 5000 feet.

Isaac goes home, via Falmouth Harbor early in the A.M. Bar. 9 P.M. 30.022

Sunday July 28

Ther. 55. 64. 51. Bar. 30.010. Early A.M., nearly clear. Start before breakfast and take a series of altitudes for longitude near Rock signal on the beach. Sky soon covered with thin clouds. At noon essay meridian observations but clouds gather so thickly that they are futile.

P.M. Cloudy, moderate SW wind. 9 P.M. bar. 29.975

Monday July 29

A.M. Ther. 55. 69. 49. Bar. 30.000 Wind fresh NW. At 6 A.M. go ashore & take observations for longitude. Perfectly clear. Noon meridian observations for latitude. 9 P.M. bar. 30.120 Afternoon equal altitude observations of sun to complete A.M. observations Day perfectly clear but windy apparent from on outside but SW in harbor.

Tuesday July 30

Ther. 54. 65. 48. Bar. 30.200. Early A.M. half clear. Ascend Mt. Heford & take the following obs. see opp. page

3000 from summit of Mt. Heford E end -

Signal on 3000 110 S58W 238

Mt. Patterson

N Base 54 23 23 107 2/3 W 292 1/2 12.4

East low rocky pt

top of Kominshi 159 25 25 107 2/3 E

NE Pt. Lagoon 187 12 14 107 2/3 E

West of Pt. Lagoon 204 23 24 107 2/3 E

West of Pt. Lagoon 219 32 33 107 2/3 E

South end of high land on island 582 3/4 E

South end of high land on island 581 1/2 E

South end of low land. Seminofo 578 1/2 E

North end of low land 573 3/4 E

Highest pt do 564 1/4 E

West pt 561 1/2 E

SW 557 1/2 E

East low rocky pt 556 1/2 E

North end low point island 560 1/4 E

East end of Pt. Lagoon 551 1/2 E

North end of low land 550 E

S Pt. Lagoon 535 1/2 E

Elbow Pt. Lagoon 541 5/8 E

North end of low land 538 3/8 E

South end of low land 536 1/4 E

North end of low land 545 E

South end of low land 533 3/8 E

North end of low land 545 E

South end of low land 533 3/8 E

North end of low land 545 E

South end of low land 533 3/8 E

North end of low land 545 E

about noon cloudy mist fog
 comes down from S.E. with
 considerable rapidity. P. all
 foggy & cloudy - plotting shore
 line after we return. A
 sch. but between the water
 heads most of the day - of P. all
 bar. 30.218. Evening, Semenovskiy
 hunting party arrives.

cloudy, some fog. light N.W. wind
 Thur. 55. 62. 49. Bar. 30.170.
 Telerometer measurements reference
 line at Mt. P. all. Erect two
 new signals, one on Mack
 head and the other on a small
 knoll near gravel pit on the
 West shore of the South part
 of the harbor. South West signal
 Return to vessel at 6 P. all.
 9 P. all. bar. 30.100 cloudy.

Thursday Aug. 1. 1892
 Ther 49. 69. 55. Bar. 30.034. Cloudy
 calm. A. all. Running shoreline from
 K. near end to Mack's Head. P. all from
 the water to gravel beach S.W. of
 the head. Wind fresh & light NW. P. all
 late clears off nearly clear. Evening
 calm. 9 P. all. bar. 29.900. calm

Friday Aug. 2. 1892
 Ther. 51. 82. 57. Bar. 29.900. P. all
 clear. light NW wind. Start in the

probably about the same as 1891
 West side, 302. 06. 06 S $\frac{3}{8}$ W 150 $\frac{3}{8}$
 Further up the side in Nagai

320. 21. 21 S $18\frac{1}{2}$ W 198 $\frac{1}{2}$
 Top of Mt. K. 333. 43. 44 S $31\frac{3}{4}$ W 211 $\frac{3}{4}$ + 3.52
 " " 39. 58. 58 S $57\frac{1}{4}$ W 237 $\frac{1}{4}$ - 0.8
 Correct these

Eph. Nagai line 35. 25. 25 N 87 W 253
 N end large Mt. P. all. 39. 40. 47 N $88\frac{1}{2}$ W 257 $\frac{1}{2}$
 Top of P. all. Mt. 42. 03. 03 N $78\frac{1}{4}$ W 251 $\frac{1}{4}$
 Rocks off foot of 3 West of light on Semenovskiy
 42. 50. 52 N $79\frac{1}{2}$ W 251 $\frac{1}{2}$

N. point Nagai visible Top of sharp cliff
 N. side 33. light Semenovskiy
 125. 2. 03 N 35 E 03

North side of what looks like an id. like Nagai. K. over
 over Nagai. 163. 50. 55 N $47\frac{1}{2}$ E
 near north end of another ditto.

161. 40. 40 N $57\frac{1}{2}$ E
 Low line in gap into Semenovskiy
 212. 10. 10 S 90 E

Bank of wide pt of river S. end of 33
 185. 41. 42 N $53\frac{1}{2}$ E
 Rock Station 50. 30. 55 N $41\frac{1}{2}$ W 280 $\frac{1}{2}$
 Top Mt. K. 350. 02. 15 S $57\frac{3}{4}$ W 237 $\frac{3}{4}$

Height of station about ~~1157~~ 1364 ft
 above the sea

boat with Mr. Noddykins & 3 men to
examine Halmouth Harbor. Wind
light & shifting from W to ESE
above in elevation about 600 ft.
From the highest pt. of the spit
the N. end of Pelagoff Harbor
was 27 mi. off. The N. end of N.
end of the 2000 ft. high Pelagoff
spit from 2000 ft. high 400 ft. x 15

Magnetic. There are rocks above
water off the N. head of the spit
leading to the harbor, and 5 or 6 miles
outside of them about a quarter of
a mile from the N. head.

There is also one rock on the
same side within the light about
a mile from the head visible above
water. The beaches on this side are
rocky but the water is bold. off
the S. head, 2000 ft. is a rock out
of water 3/4 of a mile from shore
in a lagoon behind a sand beach.

S. of "Cape Horn". The spit
which forms the harbor is formed
on the E. side of successive ranges
of large boulders tapering off to small
chunks with a covering of sand on
the S. & W. The channel in the
harbor is not over 300 yds wide but
carries 6 fms in. The harbor is not
over half a mile long with broad

From Rocks off Halmouth Harbor

	Bearing	Angle	B	N. Head
The Pelagoff	S 32 1/2 E	0	0	S 32 1/2 E
Sand Noddy	S 34 1/2 E	13	00	S 18 3/8 E
S. B. Noddy	S 75 1/2 E	105	13	S 75 1/2 W
N. B. Noddy	S 90 1/2 E	123	42	W 5 1/2 W
N. end of Pelagoff	N 29 1/2 E	144	59	N 63 W
Pelagoff Head	N 30 1/2 E	162	33	N 50 3/8 W
End of Pelagoff	322	175	06	N 38 W
N. end of Pelagoff	323 1/2	176	50	N 36 1/8 W
E. Harbinger	34	198	11	N 14 5/8 W
Buldyr W.	350	202	05	N 10 W
Amurica	350 1/2	203	44	N 9 1/2 W
Amurica	352 1/4	205	50	N 7 1/4 W
Amurica	364 1/2	217	23	N 4 3/8 E
E*	365	218	20	N 5 E
Amurica	365	219	49	N 5 3/8 E
Amurica	365 1/2	219	56	N 6 1/2 E
E	368	221	13	N 7 1/4 E
				N 8 E

From N. end of Pelagoff
2 57 1/2 W

4 ft. low water

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N 78 1/2 W
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N 85 1/2 W
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N 3675 1/2 W
36 1/2
26 1/2
N 3685 1/2 W
36 1/2
26 1/2
N 3695 1/2 W
36 1/2
26 1/2
N 3705 1/2 W
36 1/2
26 1/2
N 3715 1/2 W
36 1/2
26 1/2
N 3725 1/2 W
36 1/2
26 1/2
N 3735 1/2 W
36 1/2
26 1/2
N 3745 1/2 W
36 1/2
26 1/2
N 3755 1/2 W
36 1/2
26 1/2
N 3765 1/2 W
36 1/2
26 1/2
N 3775 1/2 W
36 1/2
26 1/2
N 3785 1/2 W
36 1/2
26 1/2
N 3795

sand or shingle beaches which drop down very suddenly to 3 & 4 fms. 6 or 8 is the deepest water. There is not room enough for more than one or two vessels, and a vessel of any size must have a fair wind in & out as the channel is not wide enough to beat in. The land around is high, several streams fall into the harbor, and at its head comes from a large lagoon. The W. Head is a cliff of metamorphic slate & sandstones about 500 feet high. The rocks in-land are partially granitic. Wharves are prevalent as in most of these harbors surrounded by high land. One of them have down the river this summer. (See) Capt. Holder. There are no further dangers. Chute & Gardner with two men have built a house, storehouse, coal house, fish house &c & have hogs, a garden & 5 dogs. The bark Regal tender left for San Francisco Aug. 1. Capt. Chapman 25,000 fish. Anchor the boat off and out at the house all night 9 P.M. bar - 30.130. Fog beginning to set in & Wind S.

From rock off Pinnacles Pt

		A	B
Top Mt Patterson ^{beam} S 31 1/2 E	3 0	54 1/2 E	0
Rock W of Nagai S 20 1/2 E	62 18	520 3/4 W	18
Gal Rocks (Uye) 44	86 13	544 W	14
Sand Vuga 54 1/8	98 41	554 1/8 W	40
Bel Harb 63 1/4	106 16	563 3/4 W	16
Sand Popoff 54 1/8	126 35	584 1/8 N	34
Highest pt 56		586 W	
Needs Popoff N. 29 2 1/4	154 52	N 77 3/4 W	52
Mid. Id 54 63 1/2	159 16	N 73 1/4 W	15
Side Kor 301 1/2	164 06	N 58 1/4 W	06
SW Anderson 326	188 32	N 34 W	32
SE " 339 1/2	201 20	N 20 1/2 W	30
NE " 343 1/2	205 51	N 16 1/2 W	50
Top of S Haystack 3	207 13	N 15 1/2 W	12
Mid " 244 1/2		N 12 1/2 W	00
N " 247 1/2	210 00	N 28 E	10
Rock N end Hay 28	250 13		
NE end 349 1/2	211 46	N 10 1/2 W	40
SW pt of Hay N 35 E			

*(north of reef from which last lat were taken)

Saturday, Aug. 3, 1899

Ther. 58. 43. 52 Bar. 30.120 Wind variable, alt. NE fresh about 8 AM in our return. foggy & cloudy.

Mr. Chute gave me a Volute which he got out of a codfish, see East. Nallapli. Macoma nasuta and ochrea, Mytilus patula, Littorina lithana, Purpura septent. & lactuca, Chry. lineatus, Argob. oregonensis Volutopsis Peirys, Chiton lineatus. The two common Pionas, the little margarita like salicina, Mya truncata Cardium squaridius, Turris staminea &c. John reports a hole as common on the E side of the island opposite the harbor, in the sand beach.

Stop at the rocks off the bluff between Salmon Harbor and Eagle Harbor and take a series of angles and bearings. Beat up to the rocks off Pinnacle point and take another series from one of them which will probably enable me to adjust some of the more glaring discrepancies in the charts. Then sail for Sanborn Harbor arriving at the vessel about 4 PM. Fog & raining. Wind NE fresh. Current weak but reports for only 1 PM. Bar. 30.030

lots of whales in bay

Sunday Aug 4/1872

Monday, Aug 5/1872. Ther. 57-64. 52
Bar. 30.076. Light NNE wind 40
over. At Eagle Harbor and make a
sketch of the top of the
the hills are taken at first before
see opp. Return about 11 A.M.
Afternoon pleasant & sunny -
windy clear calm. 9 P.M. bar 30.110
Wind fresh NW.

Monday Aug - 5, 1872

Ther. 59. 76. 55. Bar 30.145. Cloudy
fresh NW wind. Late nearly clear. Start
from SW station in A.M. and run
shoreline on S side entrance of Har-
bor & beyond. P.M. continue to a
pt opposite the E Head of Porpoise Har-
bor. Return at 8 P.M. Find ripe
raspberries today and introduce
granite pebbles in the return.
States & sandstones. Very warm in P.M.
9 P.M. bar 30.211. Calm

Tuesday Aug 6

61. 67. 56. Bar. 30.230. Cloudy
with NNE wind. Take angles from
Ledge, Bush & Rock Stations in
A.M. P.M. angles from Eagle to
South Station, with morning we are
brought to land at 5 P.M. 9 P.M. bar
30.180

From knoll above Eagle Harbor
with pocket compass

to Mt Patterson	on 57 1/2 E
the mt. 3. Pointe	" 74 E
" Eagle Harbor mt.	" S 41 1/2 E
Head "	" S 5 W
Elbow of point	" S 75 1/2 W
pt. "	" 74 W
S Head	" N 56 1/2 W
Nudge Rock S.H.	" N 85 1/2 W

Wednesday Aug. 7, 1892

Mostly clear. Ther. 56 to 51. Bar. 30.110
Day N.E. gale blowing. We went to the
Point and a party of 11. The
the public only. For a station in green
plate for the salmon industry. The
passed along the shore, toward the
beach and succeeded in reaching it after
some very hazardous climbing. The men
from the boat were with us and helped
them. Some way from the shore
beach is the foot of Salmon Harbor
country very fertile. There being but
nothing to eat since 9:30 A.M. and
nothing to drink. As they do not allow
the people to drink. I thought a fire
in the bush, which some salmon
with my hands, out of the path in
the stream and produced a great
heat one of them struck - was me
injured. Then the storm which
had been blowing all day began to
increase, with rain and about 10
P.M. The boat with our family then
went down and I got aboard
and we beat up the forest mountains
by some dense squalls. All hand
had been out on a search for me
but were discouraged. Let some
coffee turn in, as good as I
could. I am.

Thursday Aug. 8.

Stormy, Ther. 55.56.54 Bar. 30.110
wind NE, strong, raining hard all
day, plating shore land. - rain heavy
9 P.M. bar. 30.200

Friday Aug 9

Ther. 53. 56 52 Bar. 30.240
Cloudy, strong NE wind raining hard
Rains most of day with fog & wind
from SSE to NE variable. 9 P.M. bar
30.240. - raining Wild Gazelle comes in at 11 P.M.

Saturday Aug. 10

Foggy with some rain, occasionally clearing
up for a few minutes & then thick
again. Ther. 53.62.49. Bar. 30.236
P.M. Take angles from Fireweed &
Entrance Stations but do no more
as the fog thickens again. In
the morning the Wild Gazelle leaves
after filling water &c. - taking some letters
to go by her of the Roscoe. In the
evening at 8 P.M. Chule & John
drop in on their way to the main
land, & spend the night. Plating &
copying angles. 9 P.M. bar 30.170

Sunday Aug 11

Rainy, foggy. At 11 A.M. with Ther. 54.60.56
Bar. 30.020. Foggy & raining all day
In the A.M. the Roscoe comes in
and Capt. Jones comes aboard.
Toward evening the Wild Gazelle

comes in again. Capt. Keister reports a wreck between Bulbys & Koonin one third from B. with help of feet of water in it. The boatlands drove last year took it with their oars. There is 4 fathoms water between Koonin & the little island SW of it.

Saps just off NE of Popoff Head & very irregular rocky bottom.

The east end of Koonin is just over popoff Head by vessels fishing off Suya Harbor. In Eagle Harbor there are 15 fms outside mouth of the bay. Let Chute have some lumber, and get 25 lbs of coffee from Capt. Jones. Plot & walk on descriptions of signals &c all day - 9 P.M. bar. 29.952

Monday Aug 12. 1872

Thin ice on the bay, with very little snow on the land. Snow on the bay, but snowing & snow all day, fine when there at this point. Day not warm quite hard in P.M. but I keep on & finish. 9 P.M. bar. 30.050

Tuesday Aug 13

Ther. 51. 54 53.5 Bar. 30.010 -

Cloudy, foggy, some rain, high SE wind in squalls. Storm all day - 9 P.M. bar. 29.906

Will Gazette & Ross leave harbor -

Wednesday Aug 14

Ther. 52.57.58 Bar. 29.90. R. all
cloudy, some rain, fog covering
the tops of the mountains. Angles
from Bull's Head in P.M.

P.M. attempt to continue our
proceeds. Rains kept all P.M.
Capt. & Mr. Hodgkins, & over to
the sand beach on the east side
of the island & return in P.M.
bring up several interesting things
with them. Boats in the harbor
but got little. Evening rainy & all
bar - moderate W. wind

Thursday Aug 15.

Ther. 53.5.57.58 Bar. - 29.760

Rained very hard last night and
still raining this A.M. At 1 A.M.
this morning high water stood on
staff at 3 ft. 7 in. At 9.30 A.M.
the water nearly high but starting to
fall about 1 ft. 1 in. - Rains

very hard all day with thick fog &
sq. squalls. Wild Gazelle comes in in
P.M. 4 anchors, 9 P.M. bar.

29.750, was down to 29.710 at noon -

Friday Aug 16

Most of the day was cloudy
Bar. 29.872 Ther. 50.63.55 Weather
was partly clear but with a very
high wind. Take angles from

North Base station and in P.M. from
South-west to Swiftwood station. The
wild fowls were not again about
now. Set the snare-trap on the beach
to clean her bottom. Evening about
up again and apparently drifting
again to the southward - 90 ill!
Bar. 30.210.

Saturday Aug 7

Bar. 29.230, Ther. 51. 62. 66. Cloudy
wind S.E. with light breeze. Vessel
beached over on the beach
to drain to Rocky point near
tide meter and indent channel now.
It is placed nearly west of the point
on the point about one foot above
the line of the highest barnacles
on the north face of the south side
of a gap in the strata which de-
cline to the south of it in an even
and steep angle from the top of the
bank to the surface of the water.
South of this gap which is wedge
shaped and about four feet wide
at the water's edge, there are no
more marks of it. The rocks are
broken up irregularly. The mark
is a triangle apex upward. The
base of which was 3 feet 3 in.
above the surface of the water
which read on the staff 7 ft. 4 in.
The high water of last night was 9.5

or with 10 ft 7 $\frac{3}{4}$ in above the zero of the staff

Low water in P.M. about 5 o'clock
(for there was a long stand) sounds
with 4 ft 7 in water. Mr. Hodge-
kiss seating staff at same
moment, at starting at 5.9 in
this night at 9.30 P.M. the next
succeeding high water sounded
and got in the same place 10 ft
in all making - 12 ft 2 in above C of H

Full fog & rainy, wind light &
variable. 9 P.M. bar - 30.168
Have the vessel off a little
way at high tide but con-
tinuing wind & bad hole of kedge
prevent getting her away yet.

Monday Aug 18th 1877

At 7.33' low tide read 3 in on
staff - at 11.15 strong S.W. wind
blowing - Ther. 58.63.52. Bar 30.2

Fog & clouds flowing off & part
by clear. P.M. 30.100. About
11 P.M. heave the vessel off the moor
but the anchors dragging and the
heavy squalls blowing at once take
her nearly back to her place.

Tues. Day Aug 19th

Ther. 53.5, 60.57. Bar. 30.100.
a heavy gale from N.W. with
terrible squalls, water sports &
wooden of which language can
give no adequate description.

It will require our utmost efforts to prevent the boat from beaching at high water. Breeze in gusts & squalls all day with a shift but about 10 AM succeed in getting the vessel out where she is not likely to ground at low water. Breeze partly clear with shift a little more westerly and we could have started toward our down but her finally out into the stream where she can be safely to our great relief - 9 P.M. Bar 30.030 half clear.

Tuesday Aug 20

Ther. 53. 56. 51. Bar. 29.900. Half cloudy, gale blowing as hard as yesterday or nearly so, increasing in strength as the tide rises which I have observed to be usually the case here. No improvement at night though the afternoon is a little more moderate than the forenoon. 9 P.M. blowing hard bar 30.000.

Wednesday Aug 21

Ther. 51. 56. 46. Bar. 30.006. Sky with thin streaky clouds partly clear. Breeze NW fresh & squally. A.M. cannot go over to East Ridge, Mt. with Harrington & Peter

and take a long series of angles and bearings on the various islands. The wind blows quite hard and grows fresher after we finish. Ascend in about a half come down in about 20 minutes. High wind blowing when we get back to vessel at 6 P.M. A party going to Semenovskiy are camped in the east Harbor by 9 P.M. bar. 29.980 in barometer

Thursday Aug 22

Ther. 52, 61, 53. Bar. 29.904 Strong squally NW wind cannot take angles sky half cloudy. Go over the Portage between Port Palliser & Beale on the S & Neve & Hilgard on the North and spend the entire day running the shore line & taking bearings sufficient to plot approximately the whole bay and accurately the entire S shore & harbor & there. Finish at 5.15 P.M. & get back to vessel at 7.45 P.M. 9 P.M. bar. 30.0080 half clear, fresh NW wind with whistles from the mountains

Friday Aug. 23

Ther. 51, 61, 46. Bar. 29.995. Half clear Strong NW wind still continuing. Work at angles all day in desperation but get pretty far west, the wind moderating about noon. Finish the Arct. this pt. 9 P.M. bar. 29.930

Saturday Aug 24, 1892

Ther. 54.5. 44. 48. Bar. 29.850. Cloudy
light SW wind. Go over the portage
by the lake and take bearings & measure
points enough to sketch the shore
line of the S. right. Return at 12.30
and in P.M. go down to Paspouze
Harbor and run the shore line &
take a few soundings & bearings &
return to vessel at 7.30 P.M. This
completed the work laid out here.
A party from Upernivik, going to Limerick
they pass through the Narrows of P.M.
Bar. 29.850. Cloudy & foggy. Lightning or
volcanic eruption visible after dark.

Sunday Aug. 25

Ther. 55.5. 51. Bar. 29.660. $\frac{1}{2}$ Cloudy
light W wind. Bar. 9 P.M. 29.620. Cloud
W wind. About noon breezes up
and blow a gale from NW with
heavy squalls. Work was possible
collecting etc. and angles & survey.

Monday Aug. 26

Bar. 29.670. Ther. 47. 65 50.5. Half
clear, fresh NW breeze, sail from
Sunbroom Harbor about 7 A.M.
and arrive at North East Harbor
Little Kapiusha Id about 5 P.M.
Winds light NW to fresh. All a
little rain by one or two short
showers. Take the following places
on the way.

Paspouze Harbor

Shore on same side lake

Again are the former principally
 in the rocks (and the latter
 entirely so far as we could see) com-
 posed of the same metamorphic
 states of sandstones, so prom-
 inent in Japan. They dip at
 a high angle to the N.E. & W.
 or slightly west, and contain
 light colored rock, granite

The islands east of our position
 are however are comparatively
 barren & desolate in appearance
 when contrasted with those to
 the westward even with Japan
 which is much less fertile
 than Hoya & Popoff Islands.

9 P.M. bar 29.824

Tues Day Aug 27.

Excellent day. Light N.W. wind
 54. 5. 6. 4. 5. Bar 29.866
 So active before breakfast &
 got a series of altitudes of the
 sun for longitude. After lunch
 went tops where I saw some
 for determining the position of
 the mountain tops. Got up
 three signals and then took
 a series of noon observations
 for latitude. P.M. took the
 angles together with a lot of
 other bearings to make a

and Kake

ENE

altitude

rough sketch of the harbor
 take the corresponding P.M.
 altitudes to complete the
 series for time and finish
 at north station by a third
 set of angles & bearings. Day
 almost perfectly clear
 with but few light clouds.
 fresh NW wind. 9 P.M. bar -
 30.020. Mr. Hodgkins seriously ill.

Wednesday, Aug 28

Ther. 53.5. 62. 54. Bar. 30.020
 clear. fresh NW wind. Take
 a series of altitudes to corre-
 spond to those of last night &
 then ascend South Mt & take
 a series of angles & bearings on
 the adjacent islands. Then take
 another set of meridian obser-
 vations for latitude and come
 aboard at 12.30. at 1.30 P.M.
 sail for Linscott. Arrive
 about 3.30 P.M. The harbor is
 landlocked but shoals 3 to 2 fms
 in the inner anchorage appear
 to be the most water. The island
 appears to be composed of
 granite gravel accumulated
 around a series of reefs &
 three branches of which one
 of these one is small - 9 P.M.
 bar 30.050

There is a party of Aleut hunters here but they have lost most of their furs on account of the late heavy gales. They point out the anchor sage which is well protected but very shallow. Go ashore shortly after we anchor and take a series of altitudes for time evening rather cloudy wind more westerly inclining to the southward.

Thursday Aug. 29

Ther. 52.5 - 36 - 50. Bar. 30.050. Wind SSE light. Cloudy wind shifting to NE for a storm. Ascend the mountain on the north part of the island and take a series of angle & bearings from the summit and also at the north end of the ridge. Return feeling very tired with the hard work of the last few days and spend the day in clerical work. Capt Hall gets some very nice small shells on the Eastern beach including a new Patina ^{or nacella} and some good sponges. 9 P.M. bar. 29.910

Friday Aug. 30th

Ther. 53. 56. 51 Bar. 29.720. NE gale raging with rain, fog & clouds. Smart puffs but no squalls. Noon moderate but begins again from SSE at night 9 P.M. bar. 29.494. Raining & squally.

Mon. 2 1/2 Heavy

Tues 1 Snow

Wed 1 Snow

Th 8 2 1/2

8 1/2 5 Aug

Wind

Sept 1 1/2

Oct 1 1/2

Nov 9

Dec 6 1/2

Jan 2 1/2

Feb 8

Mar 2 1/2

Apr 6 1/2

18

20

Angles

Range work

Unalakleet 2.3 1/2

Popoff Str. 5

Sanctum Bar. 5

Total 33 1/2

Angles

Pharmapung 96, 1178, 27

Unalakleet 274, 2272, 19

Total 370, 3450, 46

her
for
to

1.5
 1.7
 1.00
 1.00
 1.6
 1.1
 50
 25
 50
 1.00
 50
 1.00

2.00
1.50
1.50
1.00
1.50
1.50
1.50
1.00
1.50
1.50
3.50
2.00
1.50

July
Aug

July	7.00
	11.50

Clear	2.00
Cloudy, fair	11.50
Stormy	17.50
day or night	14.00
at sea	2.50
Sundays	4.00

	Bar.	Means Ther.	Sur. Water	Rapids
July.	29.404	51.1	46.0	45.9
Aug.	29.576	54.6	50.5	48.9

off the first point but getting off with little trouble; about 10 miles clear the reef off the head of the harbor - and I pass through the twelve fathoms strait taking our departure for St. Paul's, Kodiak to rate chronometers before leaving for San Francisco. Day foggy & wind light. The point seen between Little Komuchik & Akkas Id. is a part of the former.

9 P.M. 29.910

Tuesday Sept 3, 1872

Ther. 49.5, 56, 52 - Bar 29.900 Rain & ESE, cloudy foggy, wind small & shifting all day. 10 P.M. 29.880

Wednesday Sept 4

Made signal last night, but were hindered by the wind which at 4 this A.M. shifted to E by W & we got on our course. Ther. 54, 58, 57.5. Bar. 29.880 Thick foggy, wind light, about noon the fog cleared off making the latitude the same as in the morning & then longitude as in the morning - 10 P.M. 29.880, foggy, wind light.

Ther. 52.5, 56, 51. Bar. 29.880 foggy, wind light. P.M. clear calm. Catch some fish. 10 P.M. 29.880

Sounding statistics

Miles of rope No of sounds No of ranges

Unalaska.	23.70	2198	93
Coal Harbor.	13.63	1438	33
Popoff straits.	35.00	2636	45
Sanborn Har.	14.35	962	108
Totals	86.68	7234	279

Averaging one sounding every 20 meters or 65 feet; really a little closer -

Barometrical Measurements taken by telemeter

Locality	Feet	Meters	Miles
Unalaska	2470	214,755.184	130.2
Coal Harbor	289	19,597.2	11.4
Straits of Unalaska	305	21,281.45	12.6
Popoff	588	44,989.777	27.3
Sanborn Har.	747	39,208.45	23.8
Purvis Har.	99	11,276.75	6.8
Idaho Har.	19	-	-
North coast Har.	142	2062.1	1.2
Sierra Har.	132	-	-

Total 4791
about 24 measurements to the center or 68.75 mi to the center.

Friday Sept 6, 1892

Ther. 50. 57. 4.1. Bar 29.75. Clear
with grey horizon & a dead calm
early dull. Current set from river
within. The Alameda, the Upernivik
and Kadiak are in sight. The north
light land nearly all visible. The
Danish side appears very low & with
thin latitude. The land is
extremely flat, with some low
ridges. A more southern latitude
than that laid down on the chart.
About 2.30, we get a light S.E. breeze
to 10. get the ship on the water
at a depth of 2 fms. The water
is to be 5 fms. which with 10 fms
over for each of the 4 miles
the current is at the surface
9 P. 29.75. S.W. breeze light

Saturday Sept 7

Ther. 50. 56. 52. Bar. 29.75
Light S.W. breeze, cloudy, some fog. Heavy
fog soon discovered that we have
passed several miles beyond our port
make a tack & stand in. Have
a severe squall off the land which
however helps us in a good deal
at 4 P.M. anchor off Chupka
cove. A boat containing the ship
see a trader, till. Sheehan the collector
& a bidarra with the Hempel the
ice camp agent come along side

The wind has died out nearly calm
Adams went to Belkoffsky & Kapus
to take the place at the islands which
had been held by MacIntyre. by
the str which left Aug 21. The two
Macks are going down? Evening
cloudy calm - ebb tide runs through
the S channel here - go over to
the ice compass place and
call on Mr. Nepper who gives us
some later papers than we have
seen. 9 P.M. bar 29.500

Sunday Sept. 8, 1872

Ther. 47.5 53. 46 - Bar. 29.360
Strong N.W. wind, with broken clouds
& occasional gusts of rain. Go
ashore and try to get time but
the wind and clouds interfere with
our operations and we have to
close them. Afternoon blows very
hard in squalls from the moun-
tains to the westward. Work on
plat of Popoia Harbor & finish it.
About 6 P.M. the Schooner Annie H.K.C.
comes in, but it is blowing so hard
in spells that we do not board
her or go ashore ^{on shore} except for a short
time in A.M. as above. See Plac,
Macrodisma & Orzobucc. on the beach
& pick up a few shells for memoranda
though there is nothing interesting except a
var. of *Cardiaperma*. 9 P.M. bar. 29.374 has risen from 10 29.340

+ L. H. George & Bath to Belkoff-
sky to assist MacIntyre.

Monday Sept 9, 1874

Ther. 47. 52, 43. Bar. 29.570

Nearly clear, fresh SSW wind. Go ashore
at 7.00 A.M. for time observations
J. P. D. Bar. 29.766. After breakfast
go up to the town of St. Pauls & call
on Mr. Suermann, Mr. Schirpner, the
Postmaster, Mr. Sherman the collector &
another (Richard). They are all very
generous with papers, turnips etc etc
and the town is much more at-
tractive than any I have seen in
the territory before. Return on board
to dinner then go over to the Ice
Company's buildings on Wood St
and get a few shovels from Hargreaves
and a memorandum in regard
to a rock which we saw break-
ing this A.M. in mid channel.

Then go ashore & take a few ob-
servations. The sky being very cloudy
and the wind high - Get some
flowers and corals. Then, complete
equal altitudes as far as the weather
will permit - go aboard - get the
mail, at 5.30 weigh anchor and
stand out to sea, with a fair wind
rising barometer, and homeward bound
to San Francisco.

Tuesday Sept 10

Ther. 46.5 45. 43 - Bar. 29.702.
Rainy, strong westerly wind rather
puffy with a disagreeable lumpy
cross sea. Toward night shifts to
S.W. blowing heavy and bar. falling
slightly, double reefed, 9 P.M. bar
29.754 and rain a little, weather a
little improved. Cloudy, raining.

Wednesday Sept 11

Ther. 44.5 50. 43. Bar. 29.700. Strong
S.W. wind with a good deal of sea
running. Sky half cloudy. Occasion-
ally rain-squalls and about noon
one snowsquall. At noon we have
made during the preceding 24 hours a
distance of 196 miles, about as much
as the Harbaldt is capable of doing
in that time, I think. Wind in P.M. W.N.W.
9 P.M. bar 29.740.

Thursday Sept 12

Bar. 29.870. Ther. 43. 54, 45. Sky half
cloudy, fresh W by N wind - vessel
making fair time on her course. At
noon this day we are a fourth of the
distance toward San Francisco which
is from Kadiak to the Golden Gate 1700 miles.
Night stormy, rainy, squally with
which had shifted to nearly S.W.
toward S.W. Bar. 9 P.M. 29.756
Good time later to 29.752

Friday Sept. 13, 72

Bar. 29.200, Ther. 53, 64, 54.5
 Sky cloudy, rain squalls fresh
 strong S.W. wind & heavy sea
 for many reefs. About 11. All
 clear and the remainder of the
 day is sunny with only a few
 thin clouds. Bar rising 9 P.M. 29.300

Saturday Sept. 14

Ther. 56.5, 64, 59. Bar. 30.200. Clear
 a little rain, fresh S.W. wind. Later
 clear and wind moderates & be-
 comes very light - 9 P.M. Bar. 30.400

Sunday Sept. 15

Ther. 66.5, 68, 57.5. Bar. 30.440.
 Clear, light S.W. wind - 9 P.M. 30.420.
 Day fine & warm, clearing
 very clear but with very light
 haze. In P.M. some light clouds
 to - & begin to rain in P.M.

Monday Sept. 16

Cloudy, mixed light N.W. squalls
 at intervals all day. Ther. 57, 64, 68.
 Bar. 30.420. 9 P.M. 30.380. Every
 cloud up with freshening

Tuesday Sept. 17

Ther. 62, 63, 60. Bar. 30.210
 Cloudy fresh N.W. wind with a shower
 of rain. Gale up in P.M. &
 making good time. 9 P.M. 30.120

Means to Sept. 12th not incl

Bar. 29.701, Max. 29.910 min 29.34
 Ther. 50.10 60.5 43.

Surface water

Deep water

Weather

Days Clear	-	1-
Cloudy fair		6
Foggy		5
Days work		1.
At sea		9
Sundays		2

Wednesday Sept. 18.

Ther. 59, 60.5, 62. Bar. 30.086
Cloudy fresh NW wind -
logged last 24 hours 222
miles - Work over Report
of progress to Supt. P.M.
See a schooner standing to
NE. P.M. foggy rainy, bar 30.024

Thursday Sept 19

Ther. 59.5, 59, 57. Bar - 29.976
Cloudy fresh NW wind. P.M.
lighter 9 P.M. bar. 29.982 -

Friday Sept. 20

Ther. 59, 60, 62 Bar. 29.982 -
Cloudy hazy. 12 miles off Pt.
Reyes a large ship & a sch.
in company. At 9 A.M. see
a brig & 2 schooners also the
Harathmes & Pt. Reyes - Wind
light but we manage to work
along, passing three large ships
a bark & a brig and anchoring
in Mission Cove at 9.15 P.M.

Saturday Sept 21

Go ashore after breakfast, call at Howard & Pools & leave order for trunks, then at Grand Hotel to see Davidson, out, then at Capt. Noyes office, then leave letter at W.K.'s up to C.S. office & spend most of the day there edging in a word or two occasionally. Davidson being full of the Agassiz address to the Academy. All our letters except one from father and another from Miss Turner have gone up on the Vivid. Send letter to mother. Lunch with Stearns. Poor Stimpson is dead. A broken heart I think. The Chicago fire killed him. Stay at the office until 4 P.M., then come aboard & spend evening copying journals &c. Men all ashore, go aboard Hassler.

Sunday Sept 22

A.M. Capt. Johnson of the Hassler sends me off some blanks, pay rolls. Go ashore about 9 A.M. with Prof. Baird, Jace. Ed C. Doran. Go up to Mrs. Elmers and engage a room. Go to church, meeting Mr. Stebbins by the way. Walk down with

Telegraph to Hein

3.50 gold

Got acct

Miss Hayes. Call on Mrs. & Miss
 Stearns at 15 Clementina St.
 Dine at Capt. Hayes'. & spend
 the evening. Come aboard at 9:30
 Mr. Hopkins quite sick.

Monday, Sept. 23

Go ashore in A.M. after sending
 up most of the chronometers to
 Tennants. The doctor aboard to
 see Mr. Hopkins who goes ashore
 Go up town and stop at Alaska
 Coal Co's. office, get bill of freight
 then into Hortham & Jennings
 Taylor & Bendels, Bacon & Cos.
 Meet Capt. Scammon on the
 Street and promise to write to
 B.S.N.H. & Phil Acad. for him.

Then into office, down to beach
 and spend the rest of day try-
 ing to get a few words with
 Davidson who is very busy.
 Have books at home, glass
 at Muller's, down to market
 get coffee on dock, go aboard
 with Harrington & spend the
 rest of the day evening in
 straightening out accounts

Tuesday, Sep. 24

Capt. Hall comes aboard
 in A.M. See about inventory
 of vessel, getting stuff from Harris
 & Pools warehouse &c. Then

23 } Glasses .50
 } Grub 1.00
 } Cartick 1.00

24 } Grub 40.00 Wagon ch. 1.00
 } grub - .40
 } cigar - .25

Letter, Sadie. A. Bowman
 Telegram Hein.
 Telegram to Hein

25 } Letter mother & E. C. Doran

go ashore, sending chronometers
to Tennant & note books to
my rooms. Go up to the office
and get letter & telegram. Go down
to Bank of Cal. with Capt. Noyes
to identify me but find I shall
have to telegraph to Heim again
to determine the amount of
my credit before the bank will
cash it. This puts off the pay-
ment of the men another day.
Then call on Steele and at Mr.
Low's office, meet Bowman
on the street. Lunch with
Stearns. Afterwards go and look
for a trunk. select a good
sole leather one. Up to the
room and see Hanning then
then to dinner with him
then see Mr. Hodgekins, then
call at the Grand Hotel and
see Prof. Agassiz for a moment.
Then call at Chas. A. Low's and
sit at table with them for a little
then down to boat & aboard
the Humboldt. Evening on
supplementary report to Supt

Wednesday Sept 25.

Work over Report until 11 A.M.
then go up town, call at office
and get mail. Lunch with

Stearns & Hanks, then into
 bank, telegram not yet arrived
 Round to A.C. Co's and then
 down to vessel. Go aboard
 the Hassler and see Capt. John-
 son, and call a board of sur-
 vey on the old boat to meet
 Friday. Then dress and
 go up to Capt. Rogers to
 dine and then to the evening
 lecture with Mrs & Capt. H.
 The lecture is a success &
 after seeing them home I
 go aboard.

Thursday Sept. 26

Morning down to bank office
 with charts early, no letters
 Then to bank and draw on
 Hein for \$11,000.00. draw 4000.
 in gold. Go down to vessel
 with Capt. Hall and pay off
 all hands. Then up town &
 pay off Mr. Hodgkins. Then to
 dinner with Harrington &
 then to Alaska Herald office
 get a file, and then up to
 see old Honcharenko and
 down to vessel, calling
 for trunk which is not
 ready. Evening work over
 accounts. & board of survey
 letter.

40.00 Trunk
 0.60 of dinner.
 5.60 Telegram.
 0.50 Key.
 0.30 Candy

Friday Sept 27

Go ashore early. Go up to office
get letter from Bendel. Pay Harry
row, then down to Bank, draw 500.00
then down to Pool & Harris and pay
bill, then meet Capt. Hall and
Lieuts Mansfield & Kennedy of the
Hassler and hold a survey on
the old whale boat and con-
demn her. Then go to Reed's
but find him away. Ride
down to H. K. & Co. & pay bill
then to Tennent's about chro-
nometers, then to Fordham &
Jennings, then to lunch and
up to room which is docked
then spend P. M. in getting
some new under & over clothes
carry them up to the room
get dinner, then take way
in get trunk and go aboard
spend evening in packing
& putting away things to
move ashore.

Saturday Sept 28

Capt. Hall comes aboard &
get order for Reed who gives
\$20.00 for boat. Take trunk
ashore with other packages
leave them at room. Go up
to office, no letters. Then

unpack and arrange things
in room - then go down to
end third street get George
buy him a suit of clothes
hat, collars &c, & take him
up on the hill to show
him the city - Then get
supper - Call on Stearns
Bacon there sick. Then
to Lick House & get a
bath - then to room &
to bed

Sunday Sept. 29

Morning dress & go to breakfast
write & read till church time
go to hear Mr. Stebbins. then
back to room, write letters till 4
P.M. then go up to Capt. Hayes
to dinner & spend the evening
Mr. Gibbs brother-in-law calls.

Monday Sept. 30

Morning go to breakfast then
to office, no letters, then to
H.K. & Co's. str Alexandra arrived
with Brown, Webster, H. Smith
Luniefsky &c on board, 15 days
from Unalakka. Henry Elliott
was married to Alexandra Mila
vidoff by Father Nicolai when
the Hutchinsons touched there
she is an illiterate native
but of good character

Hodges &

Then go to room and down
to vessel, meeting Mrs. Wilson
on the way in the car. Get aboard
& get out a lot of stuff - &
get it carried out to office -
Then - down to Wright & Bounds
add send paint & oil to vessel
call at office of Miller & Hall
& then up to office C.S. again
and out with Stearns to his
house to dine & spend evening

Tuesday Oct. 1, 1892

To office - closed, take breakfast
and go to room - then to office
again - at office at work on
Δ or sheets all day - Call at
Hennings, also at Shorts. work
till 4 P.M., then to room - dine &
Call on Capt. Seayman in P.M.

Wednesday Oct. 2, 92

Morning, go to office, and work
all day over Δ no - Seayman
comes in and leaves Brown's Catalogue
for me - P.M. Call on Parsons
at hotel, out, call on Mr. Hebbins
then up to room, then to Mrs. O'S
not at home. Dr. Blake ditto, buy
a pipe & return to room -

Thursday Oct 3

Morning go to office, get
letter & accounts from Hein

Wagon .125
Coat .22.00

Letter Point.
→ Elliott.

Letter - Bryant -
- Aunt Sarah -
write Mrs. Bird -

breakf. 50
dinner 35
print 10
pipe 5.00

Write & Doran

breakf. 40
dinner 30
Car 40

Letters Hein
Deffeyes

Work over vouchers & on Seam-
mon's whale paper all it. all
P.M. go to Hodges & get bill
then to H.K. & Co. & get vouchers
signed, then to Bournes & pay
bill call at Miller & Halls
and then back to dinner -
After dinner go to room &
read, then out to Mr. Raymond
all out, then go to Capt
Moyes & spend the evening
Friday Oct 4

Morning go to office, no letters
Seammon comes in and gets
his mss. Work over account
draw 200.00 in gold, pay
Hodges bill get vouchers
signed by Hodges & H.K. & Co
then go down to vessel
meet Mr. Low by the way
go aboard and get meter
& book. Making up water
go to Harris & Pool & get
vouchers signed back
to office at 4 P.M. down
to Overland office in
to shorts, work till six
P.M. then dinner, then
to room. Evening go
to a church festival on
Young St with Mr. Geo
R Eckles

Flowers 75.
Dinner 50
Cartage 25-
f

Saturday Oct. 5

Work all day at the office
over estimates - P.M. call on
the Lewises.

Sunday Oct 6

Work in A.M. over letters, P.M. go out
to Mr. Hall's to dine & spend even-
ing -

Monday Oct 7

Morning, go to office, no letters, then
down to Shute, Tennants, Postoffice
Capt. Hayes, then to room, round to Snooks
about package - then to office again -
day very hot, work over reports &c -
finally to dinner, then to room &
evening at Academy meeting -

Tuesday Oct 8

Morning, down to office & up on
Telegraph Hill with Shrockmorton
then to Postoffice, Tennants and
Moore. Back to office write &
work - Engage Kaufmann as
draughtsman. Get box from
Snook and forward. Go to Capt.
Hayes to dine and spend even-
ing. Walk back & stay a little
at the Union Club with Mr. Smith

Wednesday Oct. 9

Go to office, work over compu-
tations. Kaufman comes to work
Go down to room & then to Ban

Gen. 110

17

C. S. 9.00

Print .10

crafts & pay bill, then enquire at
Dunnys Britton & Rays & Hittels
about cross section paper
was Kall p.m. at office, and
go to Mr. Murray's to dine &
spend evening.

Thursday Oct 10

Morning down to office. See
Davidson off. Go to Short's and
buy some toilet articles @ Steeles.
Meet Burbee, get a key at
Post office - get vouchers &
go to bank. Then to office
again & work all day.
P.M. dine at Charley Lows
& spend the evening.

Friday Oct 11

Go office - work in A.M. at noon
go down to lunch with Stearns.
P.M. at work again. Evening
Call on the De Ras.

Saturday Oct 12

Morning, to office, letter from
Baird - down to H's and enquire
about Cyane, no letter. Nanning
comes by the Sha. Then to
Miller & Hall's. John Reeds &
down to Humboldt bring off
some necessary traps -
go to room, call at Hodgkins
room, at Allen's office &

then back to office, down to
 Bacon & get extras, wash. and
 into shorts where I am so dis-
 gusted with his rewrapping the
 coat which I had previously
 rejected, that I take leave of
 him & the suit together. Go
 to Hastings & get measured for
 a suit. Then to ~~Winkler~~
 then to ~~Winkler~~ & borrow
 Finally go round & call
 on Stearns

35.
 1.25

Sunday, Oct. 13

Morning write letters in office
 go to church, & then write till
 4 P.M., round to room & then
 to Capt. Noyes to dine. Go to
 leave Mr. Stebbins in P.M. with
 them -

Monday Oct 14

Work at office most of day
 leave bird at Gunters and
 call on Dr. Hawshorn in P.M.

Tuesday Oct 15

Davidson gets back.
 work over Lins. Bendel
 calls at office. Get triped
 from vessel. Pack Prof.
 Gray's plants. P.M. Ben-
 del dines with me, and
 we afterward go to the

65
 75
 1.00
 50
 2.90

California theater to see John
Macullock play Richard III.
He is a ringer. Then spend
a while with Bendel at his
hotel & then to room -

Wednesday Oct 16

Morning - go to office & then
up to Capt. Noyes' & take
dip obs. afterward leaving
the instrument at Raskopp's
P.M. work over currents
Call on De Ros in evening

Thursday Oct 17

Work over currents, copies
all day. Send Gray's plants.
P.M. call on The Nalls

Friday Oct 18

Work over copying, go upon
telegraph hill & find Theo.
No 97 to have an error of
eccentricity $15.45''$ west.
Get package from Phila. work
till 5.30 P.M. go to express
office & dinner. work over
Done in evening and call
on Miss Noyes with Harrington

Saturday Oct 19

Go to office, and at 11 go
out to Mercedis with Throck
morton to take magnetic
observations but the instru

ment being out of order we
have to put it off. Come back
and work over copying
P. M. - read over logarithms
with Harrington & call on
the De Ros.

Sunday Oct 20

To office in A.M. no letters. Write
till church time, then go to
hear Stellingma, then back to office
write letters, then to Capt. Briggs
to dine & spend evening.

Monday Oct 21

Morning, exchange shoes. Go
to office and then down to the
vessel with Stearns & Kaufman.
Get the latter a sextant and the
horizon, & nautical almanac
for 1872. Back to office &
work over dip obs. Get a
lamp from the vessel &
some oil to do work with
at night. Evening, Deat-
eny meeting, go up to Club
with Benj. Smith & Horace
Davis and round with
Stearns to his house & then
back to room.

Tuesday Oct 22

Morning work at office. Noon
call at Custom House N.Y. & Co.

1.30

about S. I. boxes and at
Custom House but don't
find the collector in P.M.
at work on report. also
in evening till ten o'clock

Wednesday Oct 23

Work all day and evening
over report at office.

Thursday Oct 24

Work all day at office over
Report - Dine at Capt. Noyes -
+ spend the evening

Friday Oct 25

Work all day over report
ditto in evening. finish Rep
and begin to copy it.

Saturday Oct 26

Morning go to office + copy
report - get clothes from Hast-
ings, call at H's office + see
McBarn + Smith + take lunch
with letter. Buy an umbrella
first rain today of season.
work on copying all P.M.
+ evening

Sunday Oct 27

Church in A.M. Dine with
Capt. Noyes + spend the evening.

Monday Oct 28

Work at office on reports. Dr
Kinsch, Lindemann + Mr. Seva call

on me, Evening. Call on the farmer
& the Count von Arnim at the Occi-
dental and spend the evening at
the Thalia Verein

Tuesday Oct 29, 1872

Work at office all day over
report. dine with Capt. Portridge
P.M. copying report.

Wednesday Oct 30

Finish report this day
Spend evening at Smiths

Thursday Oct 31

Letter from Patterson that vessel is
to be built. Go down & see Hall
& Capt. Noyes. Write paper on prehis-
torics. Evening dine at Capt Noyes.

Friday Nov 1

Morning, see Hall at office & arrange
about model. P.M. go to Stearns
and work in P.M. & evening over
Seamman's Cyami. Send Report

Saturday Nov 2

To office, Davidson made about
errors in Unalaska chart prin-
ted out in report. Work over
Cyami & finish in evening

Sunday Nov 3

Go to office, then to church
Write letters in P.M. Dine at
Capt. Noyes. Church in even-
ing.

Monday Nov. 4

Rainy - Down to office -

P.M. Capt. Hall comes in &
models are done -

Evening Academy meeting

Tuesday Nov 5

Work at sheets in P.M. & evening
A.M. go to Hall's office & on
board Humboldt - See & talk
to George about going East - See
order for boxes, Friday, call
at Chas. & get some photo-
graphs of Alaska scenery
from Mudge.

Wednesday Nov 6

Down to office. Work over
azimuths. Go to Appraisers
Store & get alcohol & leave at
Academy. P.M. work over
azimuth - packages from S.S.
Evening with Capt. Hall over
plans of vessel.

Thursday Nov 7

Work over azimuths at office
Leave at 10:30 at Bucard's
P.M. call on Mrs. Smith
Dr. Hewittson, out & Dr. Ross -

Friday Nov 8

Make out Surge's papers. Go
down aboard and get boxes
to Academy room - Run
George to get his photo. down

to Miller & Halls, but do not
find the Capt - Up to room
and see Harrington, then to
office & make out vouchers
then down to Miller &
Halls, & start in on speci-
fications. Evening at Capt
Noyes.

Tuesday Nov 9
Morning, take Harringtons vs -
get 107.00 from bank cy, & 100.00
gold, go to P.M. S.S. Co's office
and pay Georges passage
money. Then to office &
down to Miller & Halls & go
over specifications. Then
to office & copy on them -
Evening call on Stearns.

Sunday Nov 10
Terrible fire in Boston. To
office & then to church. Write
to mother authorizing her to
draw on me for 500.00 cy
in case it is needed -
Dine & P.M. at Capt Noyes.

Monday Nov 11
Down to office, then to
Capt Noyes & bank, then
to Miller & Halls, Owen &
Booles, Call at P.M. S.S. Co's
office & see Hubbard.

P.M. at office copying
specifications till 11.30

Tuesday Nov. 12

work on copies all day -

P.M. get things for George
Call on Mrs King, out little Do
Hewston, then on Bay bees -

Wednesday Nov. 13

Morning go down to M. Halls
Caphant, then back to office &
write them down again to M.H.
& Boole. back & see Owen at office.
Then copying, P.M. out to Hoyts -

Thursday Nov. 14

Morning, work at office until
noon then go down to vessel and
see George, back to room & to office
then in evening to Johns Med
college commencement

Friday Nov. 15

Work at office until noon go to
see Rahskops, out, Genant,
then back till George comes.
Go down to room & pack
his bag. Then get him some
clothes and go back to office -
Evening call on Mr. Stebbins.

Saturday Nov. 16

Take George to breakfast
then to office and down
to room, etc down with

Harrington & George to the
str. Costa Rica and see
them off. Then to office
down to H.K. & Co's. and look
at fossils, then back to of-
fice & work until dark
Evening go up to Stearns

Sunday Nov 17 -
Down to office & P.E. To
church. Hear Stebbins
and then to office & write
letters. Done & spend evening
with Capt. Noyes.

Monday Nov. 18 -
Down to office. Isaac Hall
bid \$4750 coin for vessel. Call
on Hayt & get bond & contracts to
copy. Work over collections.
in P.M. Evening Acad. meeting

Tuesday Nov. 19 -
Office in Hall. Bralley & Gard-
ner come in. Lunch with
Gardner. P.M. at Acad. un-
packing collns. Evening call
on Dr. Hewston and get bird
& book

Wednesday Nov 20 -
Down to office. Letter from
Hilgard & Dodge & Latie. Go down
with ~~Harrington~~ and see Mr
King, draughtsman. Then

into clothes & get a lot of boots.
Back to office. Evening call
on the Raynolds.

Thursday Nov. 21

Down to office. Letters from
Patterson & Hilgard.

See Hall and talk over
matters in regard to vessel.

See Capt. Noyes. Draw up

& pay for boots. Then

to office & write over con-
tracts &c. - P.M. Go out to

Capt. Hall & discuss contract
with Isaac Hall.

Friday Nov. 22

Morning go to office. Get

telegram from Patterson

to await letters before pro-

ceeding in the matter of

the vessel. It is days work

having any thing to do

with these official people.

See Rahkopf and leave word

at Hall's for the contractor

who afterward comes up to

the office. Dr. Walker

comes in. Write to Pat-

erson & put it in the P.O.

Evening call on Capt. b

Noyes.

Saturday Nov. 23

Morning at office copying &c.
work at it all day. Evening
call on Cannon out, Bot-
der out, & Mrs Lewis

Sunday Nov. 24

Go to hear Stebbins, write
at office in P.M. Dine
& spend evening at Noyes.

Monday Nov 25

Down to office. Get let-
ters - work over platting all
day. Evening call on
Charley Fox & Smith (out)

Tuesday Nov 26

At office working over plat-
ting all day. Evening call
on Miss King & Capt Smith

Wednesday Nov 27

Working over copying &c
in A.M. & platting P.M.
get foxskin and call on de Ros.
Call on Crawford & Little bill, at Miller
& Hacks & Wright & Bonnes.
Evening call on de Ros

Thursday Nov 28

Morning down to office
later go out to the Mt
with Miss Noyes. Then
back to lunch at their
house then to office P.M.
dine with Chase & Langballe

Friday Nov 29

Raining very hard - At
office so dark we can
hardly see - letter from
mother & Baird have been
copying. Evening Mrs Elmer

Saturday Nov 30

Letter from Isaac Hall with
drawing his bed - go down
& see him about it. Look
up a desk & select a room
for my office - Copy on
catalogue. Evening call
on Seaman & Bolander
both away

Sunday Dec 1

Down to office - write letters
Done with Capt. Hayes -

Monday Dec 2

Call at Miller & Hall & go to look
at the Merrill work room
in A. H. P. H. move up to
new Room no 70, Congress Hall
314 Bush St. Evening meeting
of the Academy -

Tuesday Dec 3

Work at Room all day - Ray
man absent. See Seaman
& call on him in P. M.

Wednesday Dec 4

Morning, work at room. Go down to Rays & look at plates with Seaman. Evening call on Stearns -

Thursday Dec 5

Work all day over copying P.M. call on Capt. Hayes

Friday, Dec 6

Work over copying. Seaman comes in to see me about whales. Evening call on Chas & Low -

Saturday Dec 7

Run to office to see Krueger & Davidson about instruments. Run to room. Call on Brewster. See Krueger at 2 P.M. he will hardly do. P.M. call on Henry Edwards -

Sunday Dec 8

A.M. church. P.M. call on Capt. Hayes, go with Mrs. Hayes to see Mrs. Perry afterwards call on Mr. Spotswood at his room. See Schumpcher.

Monday Dec 9

Discharge Kaufman. Go to office and see Davidson about instruments & stationery. P.M. at office again. Go to vessel & dine on board Hassler. Evening work in P. P. & go to

art association Rooms.

Tuesday Dec 10. 72

Pay off Kaufman. Give Bailey
some money. Stearns comes in
for a while. Copying in P.M.
Evening call on Hughes & DeRo

Wednesday Dec 11

Capt. Hall comes in in A.M.
work over copying. P.M. go
out to see Koberly's collection
with Chase & Davidson. Even-
ing call on Mrs. Smith & Stearns

Thursday Dec 12

Morning work over copying
P.M. go to Acad. Rooms to pack
box of eggs &c. Order 6 packing
boxes. P.M. Scammon comes
in for a while and then I
go out to Capt. Hall's.

S.H. Partridge late Captain
of the Hutchinson was lost
overboard from the str. Olympia
on Humboldt bar a
day or two ago. The Schu-
Lizzie Sha, which has been
sold under English colors to
go to Victoria, and named
the Margaret Croftwick (?)
was lost on the coast of Men-
docino County. one man &
some oil kegs coming ashore
in her.

Friday Dec. 13

Morning finish copying and work over parasites. In evening over bird paper. Have a very bad cold.

Saturday Dec. 14

Work at office over bird list. Go down to vessel about noon. Back to office and write. Evening Stearns comes in and I walk round to his house with him.

Sunday Dec. 15

Morning hear Stebbins. P.M. write letters. Dine with Mr. Stebbins seeing Dr. C. F. Winston there. Evening at Miss Moyer's. Mr. Ben. Smith calls.

Monday Dec. 16

Working over bird paper. Stearns comes in in A.M. P.M. Academy meeting.

Tuesday Dec. 17

Neuralgia all day - Work over Trebatulidae Catalogue. Evening call at Dr. Stebbins.

Wednesday Dec. 18

Still uncomfortable. Feel a little better. Work all day at room, evening go round to Dr. R. O. S.

Thursday Dec. 19

Taken sick in A.M. & feel very miserable all day. The worst for two years. Stearns with me

in P.M.

Friday Dec 20
Feel a little better, get up
in P.M.

Saturday Dec 21
Go out to breakfast & dinner
do a little work. Go to bank.

Sunday Dec 22
Feel a good deal better
Don't go to church. Writing &
Seammon comes in in A.M.

^{P.M. Capt. Noyes}
Monday Dec 23
Go to office, in P.M. Pay mother's
draft at Bank. Work over ac-
counts. Seammon & Stearns come
in P.M. Chase & Sanfteller in

Tuesday Dec 24
Morning. Go to Bank
~~pay mother's draft~~, & Hodges
for bill. Leave present for
Capt. Noyes - back to room
& work over Catalogue. P.M.
Stearns comes in & spend
the evening.

Wednesday 25
Get hair cut. Letter from
Sadie who has had her
baby. Write to Josiah.
Go up to Capt. Seammons
to spend P.M. Call on Stearns
in evening.

Thursday 26

Work at accounts in A.M.
Go down to look at Secor's
fossils in P.M. & pay bills
evening work over Cat. Brach.

Friday Dec. 27

Morning go to office & back to
room. Work over accounts.
Evening over Catalogue. A.M.
go & look at Secor's Energy, & lunch
with Jennings.

Saturday Dec. 28

Rainy. Work over Brach. Cat
& finish it. Evening call at
Mrs Capt Smith's & Stearns.

Sunday Dec 29

Church in A.M. write letters
Dine at Capt. Noyes. P.M. go
to Dr. Storer but no room. Call
on Mrs. Wm Macintyre & go
to hear Stubbins.

Monday Dec 30

Work over scales all A.M.
P.M. go round with Stearns to
see Livingstone Stone and
find him out. Evening Bunde
comes in and I go round to
the Calu Theater with him
& hear Aladdin played &
turned into a Chinaman.

Tuesday Dec. 31.
Work over whales &c. - P.M.
Go round to Hayes & call
on him. Just before I
go out Livingstone Stone comes
in to see me for a while

Papers under drawers
6 sounding books (1)

3 angle

1 Tide " out-

1 Journal dredging book

Blank inventories

Blanks Magnetometer

Petermann & Co. pph

Ephemeris 1891

S, F. tidal books

(2)

Nothing under

In it. 2 4to blank books

1 Zenith tel "

2 8vo notebooks

1 " Hor. angles

2 " Time latitude

1 " time

3 big sounding books

3

Smithsonian 4 to. box with tape by
rings for injections, bullets for rifle

(4)

Nothing under no blanks in

Cod lined flasks - corks for do ✓
Bacon, sugar, tea, hard bread - salt ✓
Kettle, chymick, fork, spoon, big knife
3 tin cups - axe or hatchet - wood ✓
Gun - coarse & fine shot - powder -
caps - wadding -
Note book, pencil - staff - strips of board
and nails - lantern - cold chisel
& mallet - Parkie, blanket - pillow - tobacco
matches - kindling.
Box & bottles & bag for specimens - paper
for birds &c - forceps - egg drill & pipe ✓

Tungagamenuk - Island

359.59.00
324.31.30
35.28.30

Mem.

Write Bryant & Elliott ✓
See tyone about signals ✓
Cut in Bench mark ✓

H. Bill, washing -
Bear, fish - tyone medicine

Angles cop.
abs.
com.
plat.

Somings.
com.
red.
cop.

Teleuter obs.
red.
plat.
cop.

Days devoted to angles of the teleuter
copied in Angles to be
Copy An of Anal. in small sheet
enter sides &c in 8 1/2 x 2 1/2 sheet
Enter tel. notes 1-23 in descr. sign
Write up Akutan Pass. to be
Plat. Somings off 2-2-
Enter sides in 7 1/2 x 2 1/2 sheet
" " in Pop. 8 1/2 x 4 1/2 sheet
Plat. Pop. 1000 to 10000
E. Bright Nagai
An Pop. Nagai

Sti		Pnt	
1	2	5	6
3	4	7	8

W. S. H. 1/4

29.944
 29.936
 29.901
 29.860

180
 47
 4

57.1
 54.6
 47.0
 51.5

70
 50
 56
 20