

Cover

Fred W. Fickett

[+ct. means etc., all underlining is made in a different color ink than rest of journal, with exception of sun symbols (circle with dot in center), any notes written in margins are written in the left margin unless otherwise specified]

Portland OR.

Jan. 28.--1885

Left Portland at 9.15 Am on  
the overland train for Alaska.

I've had for Instruments --

1 Sextant

1 Pusket [?] “

1 Artificial horizon of mercury

1 Howard movement. for a chrometer [chronometer]

1 Compass

1 Barometer. Ameroid [?]

1 Hy grometer [?]

1 Camera + out fit.

Jan. 29. Arrived in Port Townsend

9.am

Jan. 30 Left Port Townsend 11.30 am

arrived in Victoria B.C. 4pm.

Jan. 31 left victoria 1. pm.

arrived in Namains [?] at 8.30 pm

- Feb. 1 Took picture of town and of Idaho  
coaling. Sailed 9. PM. Rained all day.
- " 2 Rain all day. Studied read +ct. [etc.]
- " 3 " Met Sylavester, a trader at  
the head of the Stickeen River, and from

him learned that Bever [Beaver?] Indians in vicinity of Dere River use horses.

ChronoMeter F. of G.T. 28 sec.

- Feb. 4 arrived Ft. Wrangle 10. pm. Found Pinta Th  
" 5 left " 4 am  
" 5 arrived Juneau 8 PM  
" 6 Took some pictures. Sailed 4. PM.  
" 7 arrived Sitka 10. am. Leo had gone to San Francisco. Allen decided to go to Killisnoo and try to get the favarite,  
" 8 steamer deemed [?] 1. PM  
" 9 worked on pictures.  
" 10 Allen arrived from Killisnoo at about noon. could not get the favarites[?]. Tried to get Indians but could not.  
" 11 Offered large Inducements to both Indians and white men to carry us to Copper river but could not get anyone to stab[?].  
" 12 Raining. Did some target shooting [“Ball” written in margin]  
" 14 Started for hot springs with a party.  
" 20 Fri. Returned from hot Springs

- Feb. 22 Went to Mission church PM.
- " 24 Two. during PM. Photographed an Indian cremation—a man. About the time he was half consumed a number of Indian women had a small house erected out of bushes, canvass +ct. [etc.] Into this house the mourning widow retired with clean clothes, water and two Indian woman as companion  


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 Here she was strip[p]ed washed + redressed, with all sorts of ceremony and finally returned [to] the crowd of mourning friends around the funeral pile, clean and pure.
- Feb. 25 Worked at Photography all day.
- " 26 Dark + Stormy. Read some.
- " 27 Did some Photographic work
- " 28 Compared my watch with ships chronometer and found I was 9<sup>m</sup> 23<sup>s</sup> F.G.W.T. Instead of 1<sup>m</sup> 18<sup>s</sup> which was my computed error.
- Mar. 1 Dark and stormy
- " 3 Took an observation + some pictures an compared watch again.
- " 4 Worked on my observations and studied nearly all day. Went to Theatre in the castle in the evening.

1885

- Mar 5 Th. Dark + stormy. compared watch  
and studied.
- “ 6 Worked some. Went on a walk with  
Miss H. in PM.
- “ 7 Compared watch + took an observation
- “ 8 Took observation of [sun symbol] and of Jupiter.
- “ 9 Compared Watch.
- “ 10 Dark + rainy. Did some Photo. Work
- “ 11 Idaho arrived 10. am. Learned that the[?]  
Pinter had been ordered to take us to  
copper river.
- " 12 Steamer sailed 6. am. repacked all  
of our supplies in canvass bags.
- " 13 Working all day on the outfit.
- " 14 " " "
- " 15 called round to bid friends goodbye in calm.[?]
- " 16 Left Sitka 8.45 am on Pinter.
- " 19 Arrived at Nuchek 3. PM.  
Watch today 14' 25" fast of GMT  
and gaining 18" daily.

1885

- Mar. 19 Arrived at Nuchuk 3 PM on the U.S.S. Pinter. Most of the officers came on shore with us, and after remaining about an hour, shook hands and returned to their vessel. We got our things together, pitched our tent on the beach and made preparations to start tomorrow.
- " 20 Left Nuchuk 10. am in two boats for the mouth of Copper River. besides our party we had Peter Johnson, a white man, and three Indians. Had some head wind, but traveled till dark and made fair progress. Looks like rain
- " 21 Started at daylight, and traveled till dark. Rained nearly all day.
- " 22 Got up at 1.am and started at 2.15. Rain ing hard with a head wind and heavy sea. at 9.Am got stuck on a mud flat by the tide going out, and remained there severall hours. Allen and Peter started for the Indian Village on foot, and the rest of us remained with the boats with the intention of following

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as soon as the tide floated us.  
Allen returned with 3 canoes and  
several Indians at 3 PM and among  
them was one Copper River Indian  
We gave the latter some food and a plate  
to eat it out of. He had no name for  
the plate and hardly knew the use of it.  
PM. Tide did not float us, so Robertson  
and I sat up for the morning tide

" 23 Started at about 2. am. Very dark and  
rainy with strong head wind, steadily  
increasing. After making a little  
headway we had to give up and was  
blown back to where we camped on the  
21<sup>th</sup> where we remained during rest of day.

" 24 Heavy wind and rain all day,  
remained in camp.

" 25 Started at daylight and reached one of the  
mouths of C. river about 11.am. After that  
we pulled the boates up most of the  
time by towlines. From noon we  
had heavy rain with strong headwind  
Reached ice about 6 PM. piled our supplies  
on the snow and started over the



the country to find an Indian house which the Indians with us said was some where in the vicinity. After traveling about 1½ miles we reached it but found that our dog and two Indians were missing. It had been a terrible cold and chilling rain, we had had almost nothing to eat since morning and the two lost Indians were very nearly exhausted before reaching the ice, so we feared the worst. I've found two small houses, and in all my life I never saw human beings packed so closely before. We ate some cold beans + water soaked hard tack and then tried to get warm and dry, a thing almost impossible under the erhisting[whistling?] conditions.

- " 26 Got all the bucks from the two houses to help pack our supplies to within one mile of Annahauac. Suffered much from cold wind and heavy rain Allen and Pete went over to Annahauac to stay during the night, while Robertson and I remained with the supplies

Mar 1885

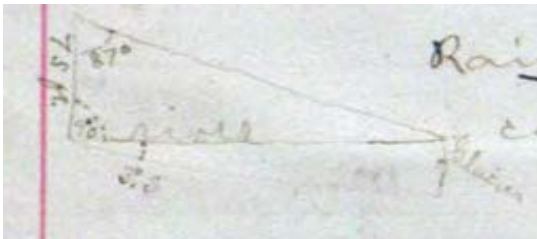
- " 27 Arrived at Annahauac about noon,  
cold windy and rainy
- 28 Getting ready for the trip. Indians  
report bad ice. Allen decided to leave  
me here with the supplies to come  
up with the Copper R. Indians in  
canoes as soon as the ice started  
while he and rest of party pressed  
forward to Terreld.
- " Sun. 29 Allen + party (3 white men and 7 Indians)  
started at 8.30 Am. Robertson came  
came back about noon for a sled.  
Ice better than was expected; Peter and  
one Indian came for me at 4 PM.  
Ice still better than was expected.  
Started at 5 PM with part of the  
supplies on two sleds, leaving the re-  
mainder in charge of Indian woman  
Began to rain 10. PM. Traveled till past  
midnight, got stuck in the soft snow and  
water. Pete and the Indian stag[g]ered  
forward to try and reach Allen's camp  
and I went to sleep on the sled.

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- " 30 Pete came back about daylight. said party was camped about a mile a head, and that we would leave 200lbs flour and try to get the rest of our load to camp. We arrived there 9. am. Still raining. Here we abandoned about half of our amunition, cooking outfit, food clothing +ct. 10.30am. Still raining, Water and slush nearly to the knees. Abandoned our tent more clothing, food +ct. Now there is a party of 4 white men 7 Indians with no tent very little clothing, about 150 lbs flour. 15 of Tea, and about two sides of bacon with a fiew [few] cans of condensed milk and dev. [deviled?] ham, and a little chalkolet. [chocolate?] At noon stoped [stopped] for dinner and rest[? 'and rest' mostly faded] traveled till midnight and slept on the snow
- " Tu. 31 Cold and rainy. Made a good days march and camped on the E. side of the E. channel of Copper River. Water and slush nearly to knees all day, and sleds went very hard.

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- Wed 1 Rained and snowed hard all day. Went into camp opposite Childs Glacier  
Thu 2 Measured width of river and height of Glacier with sextant



Rained and snowed all day,  
camped on a pile of rocks  
on the rapids, couldn't

- Fri 3 sleep any.  
Started early but had to travel slow. AM rain and snow. PM partly clear and made good time. clear for a few hours after sunset and then began to snow.  
" Sat 4 AM, Fair. Made good time Mountains come right down to the waters edge on the right side of river. Left side flat. [sun symbol] mid alt.  $71^{\circ} 2'$  [J?]C -- 5

PM [sun symbol] alt. 43° 10' chro. T. 1 <sup>h</sup>	24' 04"
42 00	24 40
42 50 [J?]C -- 5	25 18
40	26 12
30	27 07
20	27 43
10	28 34
42 00	29 19

[sun symbol] by compass 5 25° W + 35 W. PM warm and pleasant. Traveled till midnight  
 Hadn't eaten anything since morning  
 except a few spoonfull of cold beans

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- course a N + NWly direction over what appeared to be a large lake 30 miles by 6 with mountains on all sides
- " Sun. 5 Got up at daylight, traveled ten[?] miles and reached end of lake into head of which comes two rivers--The Tetahenak from the right, coming apparently from the E. and the Tasnuknak[?] from the left coming from the W. Each river comes into opposite sides of the head of the lake Day warm and clear. Remained in camp till 6 PM, drying our supplies and clothing and taking obs. [observations] Started at 6. PM and
- " Mon. 6 traveled about 6 miles. Looks like snow.
- " Mon. 6 Started at sunrise and after traveling a little over a mile N.W. found that we had made a sort of portage and saved 6 or 8 miles travel. The river makes a large bend to the SW + back[? partially faded] here.

		[sun symbol] mid alt. 71° 26' 20.° J.C.+ 5'	
		[sun symbol] alt. 48° 00' chro T. 1 <sup>h</sup>	7' 12"
		47 50	8 68
Apr.	6	40 J. C. --5'	9 43
		30	10 38
		20	11 24
		10	12 13
		47 00	13 02

Snow falling all of PM slept on a Sand bar [written adjacent to the chart]  
[sun and chromometer readings bracketed on left side, a dotted line runs between the readings and the note in the margin about snow fall]

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- " Tu. 7 Stormed all day. Sleds went hard.  
Formation changed from Granate [Granite] to Slate  
Small evergreens (probably spruce) began  
to appear on the Mountains. Camped  
on a bluff near the shore, All our bedding  
wet, couldn't sleep much.
- " Wed. 8 Snowed all day. Reached the rapids fast  
before dark. The rest of the party stayed with  
the sleds while Allen and I with the copper  
river Indians went on with the the inten-  
tion of reaching Terreld that night, but  
the ice was bad and the Indians persua-  
ded us to stop at an old deserted Indian  
house just through the canjon. [canyon] During  
the last half mile before reaching the house  
the scenery was indeed grand. The river  
had cut its zigzag way through the last

of the coast range of mountains,  
leaving its perpendicular walls on both  
sides several hundred feet high.  
Many times while coming through, in  
looking back we could not tell where we  
had come from, nor, (in looking forward)[written above] where we were going  
but seemed to be on an oblong sheet

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of ice surrounded on all sides by this  
wall of rock. The sight was a grand one  
and not soon to be forgotten.

" Thurs 9 Reached Terreld about 9 AM, and found  
one white man, Jthn[Jonathan] Bremner, and  
I believe 2 Indian women and several  
children. J. B. came here last sommer  
and for the last fiew weeks has been  
living on rabbits. Terreld consists of  
a fiew old houses. The two women  
above refered to and their children, being  
the only natives here now. It is prin--  
ciply[?] a fishing station where the natives  
come during salmon time to catch and  
dry their years supply of fish. During the

rest of the season they live on the heads  
of the small streams near the mount  
ains where game is plenty.  
Shot 5 rabbits for Supper.

" Fri. 10 Clear. Wind light and south, Indians  
started back this morning. Spent AM  
in drying and mending clothes.  
[sun symbol] mid alt. 74° 20. J.C. 5'  
~~[sun symbol] alt. 72° 50' chro T. 20 42~~  
40 ——— 22 35  
72 30

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[sun symbol] alt. 72 50 chro T. 10<sup>h</sup> 5' 38"  
40 9 2  
72 30 11 4

[previous three lines bracketed on right side with "for Lat." written outside]

Last 3 obs. [observations] taken as a check on Md. [Midday] alt.

[sun symbol] alt. 46° 50' chroT. 1<sup>h</sup> 21' 42"  
40 22 35  
30 23 33  
46 20 24 25

[53, 38, 32 written adjacent to last 3 numbers on final column in different ink]  
Shot 5 rabbits.

" Sat. 11 Fair and cold Spent AM in getting  
ready for our start up the Chitinor [Chitina?], a



large river coming in on the right  
just above Terreld, which Allen has  
decided to explore before going on up  
the Copper. John Bremner is going with us  
[sun symbol] and alt. 74° 51' J. C.--5 [x or + above dash in different ink]  
[sun symbol] alt. 52° 00' chro T. 1<sup>h</sup> 0' 10"  
51 50 0 58  
51 40 1 50  
51 00 2 39

Time recorded -- by Robinson clear and  
cold. Wind SE.

- " Sun. 12 Started at 9. am. about 2[possible second number or 1/2, illegible] miles  
above Terreld the Copper makes a  
sharp turn to the W. while the Chitinoor  
comes in from the NE. [B]efore night  
we were traveling almost due E  
Day warm and pleasant. S[h]ot 2 rabbits.  
The mountains seem to be lower

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have little or no snow and covered with  
a larger + denser growth of spruce. The  
bed of the river is about one mile wide  
with steep banks of gravel and clay.  
Besides our party of 5 white men we  
have one Indian as guide. We expect  
to be gone nearly a month and have  
taken 25 lbs flour 25 lbs Beans. 3 of bacon  
and a little Tea

- " Mon 13 Snowed some during the night so our  
blankets and clothes got some wet. Started

before 7. am and traveled till 5:30 PM.  
 made 15 miles. Came up with a party of  
 Indians about 10,30 just as they were leaving  
 camp. They had found parts of a moose  
 that the wolves had killed during the  
 winter and had eaten most of it. They  
 had left a few [few] scraps laying around  
 and these that neither they nor their  
 dogs would eat, we were glad to gather  
 up and make a meal on. This is  
 Allen's birthday and he selebrates by eating  
 rotten moose meat. Gen.course E.+W.E [+W.E. in different ink]

Tues. 14 Fair and cold. Made about 15 miles

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and then stop[p]ed to hunt rabbits. course S of E.

" Wed 15 Night clear and cold. Started 6.30 am. Gen  
 course SE by E. Made 15 miles wind E.

[sun symbol] Md alt. 78° 10' 40 J.C.--5' E

PM	[sun symbol] alt. 52° 30'	chro T. 1 <sup>h</sup>	8' 5"
	20		9 2
	10		9 41
	52 00		10 33
	51 50	J.C. --5'	11 27

51 40

12 10

51 30

12 58

Compass bearing of [sun symbol]  $27^\circ + 32^\circ = 29^\circ 30''$

- " Thu. 16 clear day. Gen. course of river about E.  
Allen said soda could be used on meat instead of salt, and intimated that I was hard to please because I preferred mine straight.
- " Fri 17 clear AM. Luna halo PM and cloudy.  
To say that we were hungry would not express our feelings. Stop[ped] at noon to hunt. 5 of us went out. I shot 4 rabbits. the other 4 men shot 2 rabbits. While I was gone an Indian woman came into camp and gave us a small piece of moose nose. I never tasted a sweeter morsel in my life

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- " Sat. 18 Got some moose meat from Indians camped near and hired one to go with us. Started 9.am. Gen. course N of E. at 10.30, after traveling for several miles overland we came to a sharp bluff overlooking the river which made a sharp turn and ran  $28^\circ$  S of E for 28 or 30 miles

or as far as the eye could reach.  
After looking for a few[few] minutes at the  
river and beautiful scenery surrounding  
we turned into the woods again and  
followed our dusky guide almost due  
north. Our destination being the house  
of Nicholai, Tione of the Menuskies  
situated near the head of a large  
stream coming in from the North.

Made a long days march[whole line written in right margin next to previous line]

- " Sun 19 After traveling about 18 miles came  
in sight of Nicholai's house about 2 PM  
One of our Indians had gone ahead to give  
notice of our approach. On arriving in  
sight we fired a salute which was  
answered from the house. We found the  
chief to be a smal[l] active middle aged  
man, rather pleasant and inteli

gent looking. He was standing near  
his door, and after shaking hands  
we entered, where we found a feast  
(of boiled, fat moose meat)[written between previous and following lines]  
waiting us. From 5 to 7 pounds of this

was placed before each man in a large wooden tray, and we ate like the starving men we were-- ate the whole of our portion of the meat before night. I don't think we could have made another days march in our present condition and upon the food that we were using. Nicholai's house is a good speciman of all we have seen so I will discribe it--about 20ft. + 20ft. walls under the eves 4 ft. Door in one end 2ft. by 3ft open fire in Middle with a large hole in roof for smoke to escape. The house is built quite loosely of spruce poles, slabs and bark. It gives pleanty of ventilation, and I should think in time of rain that N. and his family would prefer to seek the shelter of a spruce tree. A sort of shelf is built out from the walls on both sides from 4 to

5 ft ~~high~~ and about 2½ or 3 ft high. This serves the double purpose[?] of a seat during the day and a bed during the night. The

space under this arrangement is used as a general receptacle for clothing, and sleeping apartments for women, children and dogs. In the end opposite the door was a round hole about 16in. in diameter situated near the floor. This hole is the entrance to an under ground sleeping room and sweat house. It is about 12ft. by 12 ft. and 4 ft. high. It is all under ground except[t] a small hole on top where a very small amount of light is admitted through a piece of dry gut. Thes[e] natives are very fond of the sweat bath, and every house is supplied with one. They are taken by heating stones in the fire, then piling them in this room, going in and pouring cold water over them with the door shut. The steam is nearly suffocating After remaining in there as long as they can stand it they rush right out of doors and into cold water. They are

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fond of this ~~water~~ bath[written above 'water'] and take it often

- " Mon 20 Didn't do anything excep[t] sleep and eat, eat, eat,  
and all the fat we could get. Clear. Fair ['clear, fair' written in different ink]
- " Tues 21 Went hunting. Robinson and Pete went one  
way while John, Nicholai and [I] went  
another. Went to the top of the Mountain  
range. Had a long hard tramp, John  
shot one Tebay. + I some small game
- " Wed 22 Fair. Wind SE Party layed around the  
house all day. I went for a strole with  
N.[icholai] during AM. Got some small  
red berries and had a pleasant time.
- "Thurs 23 John Pete and R.[obinson] went hunting I  
remained in camp to take observations  
[sun symbol] alt. 67° 40' chro T 6" 57' 41"  
67 50 6 58 36  
68 00 J.C--5' 6 59 27  
68 10 7 00 26  
x [in different ink] 68 20 7 01 2[number obscured]  
[sun symbol] alt. 75° 30' chro.T. 7<sup>h</sup> 46' 35"  
40 47 45  
+ [in different ink] 50 J.C.--5' 49 7-- [dash in different ink]  
76 00 50 19  
10 51 32  
[sun symbol] alt 68° 20' chro T. 12<sup>h</sup> 14' 38"  
68 10 15 45  
68 00 J.C--5' 16 41  
67 50 17 40  
67 40 18 32

PM	[sun symbol] alt. 60° 30'	chro T 12 <sup>h</sup>	50' 31"
		20	51 18
		10 J. C.--5'	52 04
		60 00	52 04
		59 50	53 42

[sun symbol] md alt. 83° 32' 30" J.C.--5'.

Day warm and pleasant with very little wind. Hunters returned without anything

- " Fri. 24 Cloudy and cold. Wind NW. All hands in camp. Had all the meat we could eat for dinner and supper.
- " Sat. 25 N.[icholai] + R.[obinson] went out hunting but didn't get anything. Pete shot 4 rabbits cloudy + [c?]old NW. [cloudy etc. in different ink]
- " Sun 26 Nicholai with two other Indians and I went out hunting. Wind N.E. Rain and snow PM. went up about 4000 ft from base of mount[-] ain. N. shot one Tebay. We came down to where we could get some wood and slept under a clift[cleft? cliff?] intending to follow the flock which we had driven over the hill in the morning. I wounded one and so did N. Snowed and rained all night. cold and very disagreeable. Had no extra clothing with us and when we lay down [two short words, obscured] kneedless to say I got as close to N. as possible. 2am[?] nearly to the head of 3 Glacier streams.



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- " Mon 27 Couldn't continue our hunt on account of the snow so decided to return, and started at daylight. Six in. of snow fall during the night. Day warm and fair the mountain ranges appeared to run E+W. PM Slept some.
- " Tues 28 Started for Terreld in Bidarar with N. and one Indian. Bed of Stream when we started about 3 miles but gradually grew narrow. Formation very much broken and mixed--Slate, Sandstone are papery.[?] Solar halo PM and aurora during the night.
- " Wed 29 Snowed some during night, made good time. Stream blocked with ice, made a short portage. had rabbits for dinner--guts with their contents and everything PM. made a portage out to the mouth of the river and camped at its junction with the ~~Fam~~ Chetnor.[e added in, same ink] Lt. Allen named this stream the Chitty Stone (Copper rock) an account of the copper ore[?] found near its head. About 150 yds[?] wide at its mouth, and bearing from

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Maine river about NE. Direction of  
Maine river 2 87 or SE. Gen. course of  
Chitty Stone about E. Near mouth very  
crooked current swift and banks are  
clifts[cliffs] varying from 100 to 400 ft. high

" Thu 30 Snowed and rained some during morn-  
ning. Middle Am. Fair

[sun symbol] alt. 79° 50'	chro. T 7 <sup>h</sup>	51' 21"
80 00		52 40
10	J. C.--5'	53 42
20		55 00
30		56 08

Compass 292°

[next two lines blank. Right hand side has blot or spill of some kind]

Moon [sun symbol] alt. 87° 57' 10" chro T. 9<sup>h</sup> 50. JC--5'

PM [sun symbol] alt. 80° 30	chro T. 11 <sup>h</sup>	28' 28"
20	(	)
10	11	31 10
80 00		32 15
79 50		33 28

[sun symbol] alt. 57° 50' chro T. 1<sup>h</sup> 17' 13"

40	17 58
30	18 48

May 1 All hands went hunting am. got a fiew[few] rabbits.  
Fair and warm. Wind SW. In returning  
from hunt I found a large patch of high  
bush cranberries from which I got quite a  
treat. This makes 5 different kinds of

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berries and one root. (Tuber) which I  
have found in this region, [illegible word, possibly crossed out] High bush  
and bog [c]ranberry, Tombak, a dry white berry  
¼ of an in. in diam. with a large stone,  
which grows on a bush from 4 to 6 ft high  
Tinise[?], a red berry, very little smaller than  
Tombak and something like an ivery  
plumb, growing on low running vines  
It has a dry sweetish taste its name  
to the Indians means sugar. All the  
above good eating. They have the Juniper  
berry, also, and a root called the chase root.  
The latter is a root which looks and tastes  
something like the parsnip. It is much  
used by the natives and I think would be  
much improved by cultivation  
PM. Cloudy and cold. Started but was soon  
stop[p]ed by ice. One of Nicholai's little girls  
very sick. Pulse 125. Swoped[swapped] my coat, which  
was new when I left Mushuk, to Nicholai  
for the kidney fat of a moose. I was so  
hungry that that tallow tasted as good  
to me then as sugar would in civilization  
" Sat. 2 Rained nearly all night. Traveled about

["Berries" written in margin in different ink]

Flower[in different ink]

May 1885

Indian women + children suffering from cold [phrase written above 1<sup>st</sup> line]  
40 miles and sto[p]ped for dinner. Cold wind strong

from the E. PM. Remained in camp, while  
Indians went hunting. Rain.[in different ink]

" Sun 3 Hunting party returned at noon with 6 Tebay[?]  
Fair am. noon wind changed from NE to SW  
and began to rain, ["hard" inserted] remained in camp. Ice clearing rapidly

" Mon 4 Rained and snowed till 4. PM. wind SW  
Started at 7 am. reached Terreld 4 PM. Didn't  
stop to eat anything after we started. Saw the  
first flower of the season, a large bell  
shaped violet. Had nearly all the corn flapjack we wanted

" Tu. 5 Clear. spent the day in mending clothes, drying  
them, taking observations +ct.  
[sun symbol] alt. 83° 10' chro. T. 08<sup>h</sup> [08<sup>h</sup> in blue ink] 2' 29' 40" 48"  
20 8 [in blue ink] 3 30 59 55  
30[40?] J.C--0[?] 5 32 03 42  
40 6 33 21 85  
50 7 34 38 49

[numbers not crossed out in last four columns are in blue ink, 08<sup>h</sup> also written in  
blue ink, appears to overwrite 11]

[sun symbol] mid alt. 90° 44 JC 0

[symbol?] alt 80 50 chro. T. 11<sup>h</sup> 29' 42" [11, 29, 43 are in blue ink, 43 appears  
to be written over original number, possibly a 6]

40 30 55 [30, second 5 in blue ink]  
30 32 38 12 [3 in 32, 12 in blue ink]  
20 33 35 [1<sup>st</sup> 3 in 33 and 5 in blue ink]  
10 34 49 [3, 49 in blue ink]

[Last column of different ink appears to be written over original numbers]  
Evening went into N[icholai].s sleeping hole and filled the  
plate holders with plates.

" Wed 6 Took pictures of Camp, Nicholai + family +ct.  
and started up the copper river at 10 Am

[following chart written sideways in margin next to other charts]

[sun symbol] alt 68° 10' chro T. 1<sup>h</sup> 1' 6"  
00 1 1 56  
67 00 1 2 38

40                    1 3 32  
 30                    1 4 16  
 J. C. = 0

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taking Nicholai and two other ['other' added in] Indians, towing,  
 or cordelling, the Bidarar containing all  
 of our earthly possessions, and expecting to  
 obtain most of our food from the natives  
 Day clear and hot. course changed from  
 N to nearly NW. Saw Mt. Wrangle  
Volcano which was my first sight of a volcano.  
 Mosquitoes Mosquitoes thick. Night cold. Grass has  
 started in patches along the river (10. miles [other parenthesis missing]  
 “ Thu. 7 Indians report ice in the river. Got an  
 early start and reached the house of [Micsa?]-  
 the blind chief of the Minuskeys [the...skeys added in between lines]  
 la, ^ about noon. He has been a very power-  
 ful man, but will soon die from  
 old age. He looks more like a white  
 man than an Indian. He shed tiers  
 because he was too poor to receive us  
 royally, but he placed before us the best  
 that he had [zrig?] dry salmon. It is  
 claimed that he was the leader in  
 one of the Russian Massacre. Gave him  
 a little Tea and a pint of flour. Clear  
 and warm, wind E. Saw some geese  
 and robbins. Course of river still bends  
 to west. Bar. Hass been reading about 29.50

M. Wrangle [written sideways in margin above Volcano in different ink ]

May 1885

since reaching Terreld the last time. Which makes that place about 500 ft above sea. Shall record Bar. + Hygrometer morning + night Scenery grand. Banks of river beautifully

15 miles Terraced in places. Jim nearly drowned.

“ Fri. 8 29.15 44.5 40.5 6 cu.[?] 5t.[?] Std.[?] 6. am Fair day. Wind E. made about 10 miles and went into camp early on account of ice. Had stewed satmon[salmon] for supper.

√ straight. It was so rich(?) that even the natives and their dogs could not eat it.

10 miles 29.05 49. 43. 4 cum.[ulus]

“ Sat. 9 29.10 42 39 10 nim.[bus] 5 am.

Lt. Rain Am, cloudy Pm. Cold. Wind from the E.

River swift with plenty of ice. Made about 6 miles and went into camp. after Supper

Allen and I went across the river to call

on Liebigstone[1st i and g in different ink], a chief of the Menuskeys

He was living in his summer house on

a bluff on the opposite side of the river. In

going up this bluff we found by Bar. That

it was 600 ft above the river and 1300 above sea

From his house we had spread out before us a

picture the so grand and beautiful that

Beautiful scenery [written in different ink sideways in margin below “Sat. 9”]

May 1885

that I felt more than compensated for the hard labor in getting there. It was indeed a picture the like of which was never spread before the eyes of a white man. Two ranges of mountains are gradually disappearing in the distance and the country has the appearance of an immense plain through which the copper . . . river has[added in between lines] cuts its way and is now a small rapid stream, crossing and recrossing its bed which varies from 500 yds to one mile in width and with banks from 400 to 700 ft. high fanired[?] of a cloyey loom[?], and too steep to climb. The chief gave us all the moose meat we could eat and we remained with him all night. Bar. 29.17 57 45 6am.

" Sun. 10 27.22 58 52 clear  
[sun symbol] alt. 74° 40' chro. T 7<sup>h</sup> 00' 45  
50 1 55  
75 00 J.C. 0 2 52  
10 3 36  
20 4 35  
30 5 25  
40 6 15  
50 7 17  
76 00 8 13  
10 9 00

Chief gave us all the moose meat we could eat [written sideways in margin, with a line drawn over the top of the last word extending up to the top of the page.]

May 1885

Time recorded by Robinson. Sun[sun?] hazy and they are not very good. last ones probably best. PM. clear Liebigstone [1st i and g in different ink] joined our party with several Indians, so Allen, Robin--son and I did not work on the boat. Took some pictures before starting. Made about 7 miles.-- passed the remains and sites of many old houses and some graves with the Russian cross on them. Both

X  
√ Nicholai and Lebinstone [presumably Liebigstone] belong to Greek church  
29.18 48 40 3 cum.

" Mon. 11 29.20 3.8 31 clear

Made a log days march. Saw an old Indian grave made of logs in the shape of a box, about 3 ft. from the ground, and the site of a house with a spruce tree 15 in. in diam. growing a [rib?]. Also saw some Ant hills. Buds on the cotten wood begin to open. Got above the boat and had to come down on a raft to meet

20 miles them 28.80 47 44 7 cm[?] st.[?]

Tu. 12 28.78 43 39 clear

[sun symbol] mid alt. 93° 22' 30." (chro 10<sup>h</sup> 15') J. C.--4

[sun symbol] alt. 54.° 40 chro T. 2<sup>h</sup> 16' 43"

30 17 27

20 18 6

10 18 50

54 00 19 32



May 1885

Rained a little am. Rainbow. wind strong from the E. Saw a woman with pidgeon breast. Day very hot but made about 16 miles. course NW. Appearance of country[?] vol. of water, current [out?] remain about same

16 m.	28.62	53	46	cloudy. no wind.
" wed 13	28.75	45	40	8. cir[?] Liebigstone [i and g in different ink] and party left us this morning. worked out Lat. + Long. of Terreld and was intending to Take some pictures, but Allen wouldn't wait. Jthen reported seeing a grave yard with graves laid out in regular order with crosses on them and some of them covered with white cotten cloth. Saw last
12 m.				years wild oats with stems 41 in. long.
" <del>Thur. 14</del>	28.69	48	41	5 cum.[?]
" Thur. 14	28.69	49	44	10 nim.[?]

Rained a very little AM. Rainbow PM. wind strong from the E. Saw a woman with a pidgeon breast. The first deformity anging[among?] these natives.

10m.	28.60	51.5	46.	10cn.st.[?]
" Fri. 15	28.63	54	42	4 cum.

Reached mouth of Tuslina 2 PM. went into

[1st three lines bracketed in margin highlighting "Rained...breast"]

May 1885

camp--wrote some letters to send back  
by Nicholai who leaves us here. Shot goose

28.63 46 38 clear

" Sat 16 28.70 49 40 clear

Pete and R. went hunting. Nicholai started  
on shis return

[sun symbol] alt. 69.30' Chro T. 6<sup>h</sup> 29' 10"

29 58

JC. 0 30 47

31 35

78 10' 32 21

Hunters did not get anything spent the day in  
working up observations, cleaning gun +  
pistol +ct.

28.63 48 38 2 cum.

" Sun 17 28.58 45 38 10 cm. st.

AM cold wind E. Passed the mouth of a  
small river coming in on our left  
which th Indians call Tesnanah. They go  
up this to a lake, make a short portage  
and then a river to the head of Cooks Inlet.

course E of N. Struck a rock in cross

ing river and came near having a

wreck 28.15 45 40 10 Str.

" Mon 18 28 13 46 40 8 Str.

√√√ Lived on rotten salmon yesterday and have

['rotten salmon' underlined 3 times]

May 1885

√ I got to eat the same today. Was too sick to eat this morning, so went without. Course N. or a little E. of N.

28.05 46.5 40 10 Str

" Tu. 19 28.15 46 40.5 5 cu.

[sun symbol] md alt. approx. 96° 1'

[sun symbol] alt. 95 50 chro. T. 10<sup>h</sup> 15' 40"

45 18 35

40 21 24

Did not stop for dinner in time to md alt.

showery [squeezed between the lines]

of [sun symbol] clear day. One of our dogs found a

28.15 46 43 10min

" Wed 20 28.23 48 43 2 cum.

√ clear day. One of our dogs found a dead

√ goose, we took it from him and ate it

[sun symbol] alt. 59 00 chro T. 5<sup>h</sup> 36 50

10 37 32

20 JC--5' 38 18

30 37 03

40 39 42

50 40 25

Allen found an Iron spring

[sun symbol] md alt. 96° 23' J.C.--5'

Robinson sick rode in boat PM

28 24 45 39 clear

" Thu. 21 28.25 42 38 clear

This morning we were speaking about cold nights. Allen thought it was too cold

May 1885

to grow vegetables of any kind. I thought potatoes, turnips, barley + ct. would ripen. I thought they were raised in as high a Lat. in Canada. To be looked up. [underlined in original ink]

Ice froze in tin cup half an inch in thickness

PM. clear and hot. Ate all of our meat yesterday at dinner. Today took 30 salmon

√√ (rotten ones) out of an Indian dry house and left half a dollar ½ [in blue ink]

28.03 46 35 clear

" Fri. 22 28.03 49 40 clear

√ Had rotten salmon, straight, for breakfast. It was so bad that even the Indian dogs wouldn't eat it AM. passed a rapid stream coming in from the right: It seemed to make a gradual curve to the right and E. A volcano, probably Wrangle, to be seen in the E. Went into camp 12.30 PM to hunt rabbits John + Pete got one each. The Indians got 2

" Sat 23 Went out hunting with the two Indians didn't get anything. Thunder PM. with very little rain Fair day.

27.74 55 44 9 cum.  
 " Sun 24 27.82 46 41 clear 5. am

Rotten Salmon [in blue ink, sideways in margin by Friday entry]

May 1885

(Had 5 smal flapjacks and a very small [parenthesis in blue ink] piece of bacon (about  $\frac{1}{3}$  of a breakfast in all) for. breakfast. got an early start and made 12 miles course NE Country low and flat, river approaching slowly a low range of mountains. Passed an Indian house where we expected to find grub but did not. Bed of stream widens. Water in many channels. Bank formed of layers of clay + gravel.

PM [sun symbol]	59	30	chro. T 2 <sup>h</sup>	17'	30"
		20		18	12
		10	J C + 5'	18	57[1?]
	59	00		19	39
	58	50		20	25

√ Had 2 small flapjacks ~~After~~ for supper. [this and next line bracketed, blue ink] after working all day in that icy water.

27.65 49.5 44 clear 10 PM  
 " Mon 25 27 70 41.5 39 10 cm. st. 5 am  
 Fair AM. Showery PM. And rainbow.

course E of NE. Bed of river wide same  
 as yesterday. More ice and snow. Living  
 √ on ¼ rations and working in ice water  
 " ~~Tu. 26~~ 27.60 46.5 45 10 str. 9.30 PM  
 " Tu. 26 27.60 44 43 10 cu st. 6AM.  
 Rained some during the night. Had

¼ rations  
 Ice Water [written sideways in margin near Mon. entry]

May 1885

√ √ some (a little) flour paste for breakfast.  
 Appear to be nearing the canyon where the  
 river cuts through the mountains  
 PM. Cold and showery. Shot an eagle,  
 a goose and two rabbits. Course about  
 E. NE and dist 11. miles  
 " ~~W~~ 1 27.65 46 41 [maybe 4d] 10 cu st. 9. Pm  
 27 27.65 43 39.5 10 cu st. 6 am  
 Rained some during the night. Had rabbits  
 √ and eagle straight for breakfast PM. Windy.  
 cloudy with little rain. Remained in  
 camp to repair boat. Went hunting but  
 no rabbit. 27.58 43 39 10 str 9 Pm  
 Passed mouth of a small stream coming in on left  
 " Thu 28 27.78 43 38.5 4 cum. 5 am.  
 Day Fair. Passed mouth of a large stream  
 and very swift, coming in on the left.  
 √ √ Had a little paste for breakfast. rotten and wormy

√  
√ √  
√ √ √ √  
meat for dinner, rotten goose eggs and a  
little rise[rice] for supper--- each meal about  
¼ of what we needed. Allen gave out  
about middle of PM. and we went into  
camp. Whole party about played out  
27.94 41.5 38 10. cu st 9.30 PM

Shot 1 eagle 1 goose 2 rabbits [blue ink, written sideways in margin near top]

Paste for breakfast  
rotten + wormy meat for dinner  
rotten goose eggs, rice for supper  
[3 lines written sideways near 28 entry, blue ink]

Allen gave out [written sideways in margin near bottom, blue ink]

May 1885

" Fri 29 27.92 +[4?] 07 10cu 2[s?]t 5am  
traveled about 8 miles E NE. river  
uniting more in one channel and less  
rappid. Party nearly played. for want of  
√ √ √ √ √ food--slowly starving. Can just crawl.  
Had to stop middle of PM to make flap  
jack and beef tea. Decided to abandon  
boat at next Indian house, if we could  
get Indians to help pack. Bought 10 rabbits  
of an Indian for \$.50  
27.90 44 38 5cum.  
" Sat 30 27.91 46 39 4 cir. eu. 6am.  
Temp. water 43°, course W of NE. Arrived  
at an Indian house 11.am, hungry["hungry" underlined in original ink]. Decide  
to abandon boat. Indian gave us a  
√ dinner of boiled meat from which he

-√ had scraped the maggets in handfulls  
-√ before cutting it up. It tasted good  
maggets and all.

27.88            46        38        9 cum 8 PM  
" Su. 31 27.88            53        46        clear 5. AM  
Started 8.30 across the country for the  
house of the head Tiones with packs.  
5 white men, 3 Indians and 3 dogs

Bought 10 rabbits [blue ink in margin next to 10 rabbits description]

[word washed out] gave us a dinner of boiled meat [blue ink in margin near  
dinner description]

June 1885

course E. country flat and mushy with  
many lakes.  
[sun symbol] md alt. 99 °    18'    40"    JC 0  
PM. cloudy. couldn't take an observation  
wanted to in morning before starting but  
Allen would not wait. Country a crambery[?]  
bog doted with marshy and stagnant lakes  
and partly covered with dead and stunted spruce  
found the red berry of the Chitty Stone in  
blossom. Into camp late. 4 cum.

" M. 1 Rain begain 5 am and ended about noon.  
Rain light--merely sprinkling. PM Fair, and  
showery. Rain bow. course S of E. dist 18 m.  
Struck bank of copper during PM. bed of



river from 2 to 3 miles wide. river spread  
all over it in small channels Roasted  
rabbits straight for supper.

27.40 46 41 8 cum 10 PM

" Tu 2 27.40 44 40 10 cu st. 6 am

Our breakfast consisted of half a pint of damp  
and mouldy rice and a little over half a pint  
of flour lumps scraped from the inside of  
the sack. This was boiled together and  
divided among 5 white men and 8 Indians

Last of all our  
food gone [written sideways in margin, near last entry, blue ink]

June 1885

we also had 2 rabbits to be divided  
between us and the pack dogs. On this  
breakfast we marched 12 miles with  
packs forded copper river. 10 am.--divided  
into many channels cold and swift  
Kept bearing to the S. till at noon, course  
S. SE. Bed several miles wide. Reached  
Tioness house about noon--spent  
PM in eating moose meat and  
salmon and resting. Learned that  
copper river heads in a Glacier which [word illegible]  
suppose to be from 75 miles to 100 miles to

the E. We leave the river here to cross the mountains. There has been some talk of remaining here a few days to rate the watch and wait for salmon.

- " Wed 3 Remained in camp all day, and slept most of the time. The chief gave us our breakfast which was the only meal we had during day these Indians belong to the Culharney tribe though I can see but little difference between them and the ones we have just left. 27.10 49 45 10 min,
- " Thu 4 27.12 49 41 10 cu st. 6am

June 1885

has been too cloudy for an observation so we must leave without one for we leave here this morning, although just as we were leaving camp they caught their first salmon of the season. There will be plenty tomorrow but we will not be here to help eat them. Course E of N. and over a flat crambery[?] bog. Saw what I took to be strawberry blossoms. Reached a lake at foot of mountains about 12 miles from

the river where we found a few Indians living. The two natives who came up the river with us started back this morning. One of them, a boy called oviey[?] has been with us from Annahanmeek, and he seemed to feel bad at leaving us.

26.84 41 36 1 cum 10PM

" Fri 5 26.84 49 41 clear 7am

Robinson asked Allen to remain in camp today and give us a chance to repair. He first refused and then decided to remain till noon.

[sun symbol] alt.	67	00	chro T. 5	54	27
		10		55	13
		20		56	2
		30		56	47
		40		57	30

June 1885

Found a small grave yard with Catholic crosses on them, The crosses here to fore have been of the greek model.

For lat. near noon

[sun symbol] alt. (md) 100 22 30. chro T. 10<sup>h</sup> 5' 35"

PM Fair. One of the Indians who was sent with us by the chief, did not wish to start so he kept us waiting till 1.am. Crossed first

range of hills, from top of which had a grand view of Copper river valley--an immense plain to the SW. dotted with lakes and green meadows, through which the Copper rushed madly to the sea. The lake at the foot of these hills is nearly covered with ice. Saw several kinds of flowers, and gravel on top of the mountains

26.53 36 27' 3 cum 10.30 PM

" Sat 6 26.64 41 34 1 5. AM

Had salmon straight for breakfast, also for supper last night. We got some in a small stream near where we camped Last night and this morning we saw several Tebay on the sides of the mountain Robinson and I wanted to shoot one

salmon for break fast [written in margin next to Sat entry, blue ink]

June 1885

but Allen didn't want to spare the time. Day Fair. PM. crossed what the natives said was the divide, and from this on the water runs the other way. Country a crambery[?] bog covered with lakes. From 3 to 5 in. under the moss is frost and ice. Saw several

species of flowers. Went into camp 7. PM  
on the banks of what the natives said was  
one of the head branches of the Tarisnonnor[Tanana?]  
or "Nohisnor" as they call it. Two streams  
coming from Mt. Gorges, one from the W.  
and one from the S. uintites[unites?] to form the one  
flowing by our camp. The Indians say that  
the one coming from the W. heads in a lake--  
that this lake. has another outlet which flows  
in the Copper, but I hardly think it possible  
judging from the looks of the country. The  
stream we are on now flows NW, but  
instead of following it we cross another  
range of mountains to the NE, while  
the Indians say will take 4 days, and  
strike the maine river nearer it's head.  
Short rations again only half a supper.  
26.90 48 39 clear 9 PM

Short of rations [written in margin sideways near bottom of page, blue ink]

June 1885

" Sun 7 26.90 52 41.5 clear 7.am.  
clear and hot. Had about half a breakfast  
of meat upon which to carry a pack  
till noon. Did not have camp till noon.

[sun symbol]	alt. 95	30	Chro T. 6	38	48
		40		33	42
		50	JC .0	34	26
	76	00		35	20
		10		36	04

All Times not otherwise marked are recorded by Allen.

[sun symbol]	alt. 82	30	Chro T. 1 <sup>h</sup>	9	5
		40		10	0
		50		10	53
	83	00		11	48
		10		12	42

Time noted and recorded by Fickett

[sun symbol] md alt. 100° 35' 30" Good [underlined in original ink]

Started at 1.30 PM, Marched till 7 PM. then stoped for supper. Course E of N. Nature of country the same, viz[?], cramberry bogs lakes and Mountains. After supper traveled till 11 PM, Course E. ["After....till" squeezed above "11PM...E."]

- " M. 8 26.50 50 39 clear 9.30 am  
Day very hot. Remained in camp till 5 Pm then traveled all night
- " Tu 9 At 1. am reached summit of Mountain range from which we saw the valley of the Taninnor, covered with lakes

June 1885

and bounded by the mountains beyond  
The scene was a grand one, and not soon to

be forgotten. The sun was just blow the NE. horizon, where it lit up to a beautiful golden the fiew cum. clouds (which were in that part of the heavens. We all sat there for some time resting and admiring the beautiful scenery. My Bar. was done up in my bun--dle and I was to tired to undo it for we had had a long hard climb to reach our present position. The rest of the party went down the NE. side to where they could find wood for the purpose of making some beef Tea. we yet had a fiew small cans of Lebies extract, while Allen and I remained seated viewing that beautiful stretch of coun try spread out before us. We are happy in the thought that our hardest work is done. Ever since we left the coast we have been climb--ing up, up, up, untill we now stand on the backbone--the mountains dividing these two great rivers. And from this on we go down, down down to the N.E. coast. Joined the rest of the party

June 1885

below where we drank our beef tea, and then traveled till 4.am Bar. then 26.70 + clear. Day hot. Remained here till 5 PM, Had ¼ of a meal of meat at 10 am, which was all the food we had in our possession, about middle of PM two of the Indian went on ahead to try and kill some rabbits. at 5 PM we started after them. and at 8.30 came up with them camped on the banks of a small stream. they had one rabbit, about half a meal for one. to be divided among 8 men who had hardly eaten anything for 24 hours. besides being half starved for several months, and all the time working hard at that. Allen is lagging behind. He is nearly played out. After eating our meal we started for the house of the Culcharny Tione which the Indians said we would reach at sun rise. 10 PM Allen laid down said he couldn't go any further, but advised those who could to go on and get something to eat. Robinson stoped with Allen, the rest of the party went on. About midnight we met



June 1885

two Indians who gave each of us a small piece of tallow which we devoured like hungry wolves. About half an hour afterwards came in sight of the house and fired a volley as a salute. They answered 6 or 8 shots to our one from the Indian camp--kept up a continued firing till we arrived, as we came out of the bushes about 65 yards from the chief's house I emptied my six shooter into the air and handed to an Indian to carry. We found about 35 bucks standing in a group around the house--women children and dogs, in the back ground. After shaking hands he invited us in and pointed to some deer skins at our side of the house, as soon as we were seated he placed before us some pembi ["Pember--" written above pembi, blue ink] can to which, it is needless to say we did ample justice. we got him to send two Indians back to Allen with meat. After eating all we could we simply dropped [[line in blue ink] over and went to sleep right where we sat In fact John went to sleep several times over his Mutten and Tallow

Tallow[written in margin near top of page, blue ink]

Sent back for Allen [written in margin near bottom of page, blue ink]

June 1885

Wed 10 We slept till about the middle of the AM. where we were awakened by the shots fired to welcome Allen and R. Had another meal of Pembercan. Allen was so  
| nearly played that he couldn't eat much  
| said he only wanted sleep and in the  
| next minute was in that condition  
John said that he could not have walked another hundred yards when we got here last night. This chief's name is Nandell--is a short thick set man with a bad eye. These natives seem to be in better condition than most of the natives we have met on the trip. They have plenty to eat--plenty of Powder and good guns--Burnsett's laminated steel. London, most of them, and must have cost them \$40. We are in the midst of a perfect system of lakes--the largest about 12 miles by 7. I suppose, for a distance of 20 miles or more in every direction the waters of these lakes covers  $\frac{3}{4}$  of the country. The climate is entirely different from what we found on the

Welcome to Allen [written next to line in margin, blue ink for both]

June

other side of the mountains--much warmer and more moist. It must be unhealthy, so much vapor rising from this stagnant water, for nearly all the people have a bad cough and some show signs of consumption. The water is warm and very disagreeable to drink. vegetation luxuriant--roses in countless numbers.

In fact it seems as though we have stepped in one day, from a Northern to a Southern

spring of the same date. 58 55 clo. 6 PM[observation in blue ink]

" Th 11	[sun symbol]	alt 80	00	chro T. 6	52	51
			10		53	47
			20	J.C. 0	54	38
			30		55	22
			40		56	18

[sun symbol] md alt. 100° 46' 20" JC .0

Couldn't get an obs. yesterday PM. Have done but little today except sleep and eat. The different climate which we find here is a matter of surprise to all of us. In crossing the range we seemed to have stepped into a different world entirely, on the other side we found ice and snow, and water in the streams was icy cold, but on this side the water is warm enough to be disagreeable to drink. Spring

Vegetation

Roses in abundance [written sideways in margin near top, blue ink]

June 1885

seems 3 months earlier than on the other side. Natives don't seem to have much to eat on ha[n]d--their[e added into thir] normal condition by the way. so we have hard work to rustle enough from meal to meal. Allen saw blue grass heading out. Natives have the best houses we have seen though of same general construction--also largest dogs. Their canoes are very small and light and made of birch bark--the first ones we have seen of this material on the trip. They are well supplied with guns and ammunition Even the chiefs little boy has a small bur--nett. Many Catholic crosses on graves.

" Fri 12 Started for house of next, Tione, where Bidarar is being built, at 10.30 Am--arrived 6.30 PM. Before leaving one of the Indians who came over the trail with us, object--

ed to my searching his pack for the Ther--  
mometers which had been (stollen or lost)  
ax I insisted and he took an ax at me.  
Considerable excitement for a few minutes  
On our arrival the chief gave us a feed. [feast?]  
All hands went in swimming except

John. Clear and hot. ["clear and hot" in blue ink]

["ax" in margin in blue ink]

June 1885

" Sat 13 Clear + hot. Indians working on the boat.

[sun symbol]	85°	40'	Chro T. 7 <sup>h</sup>	23'	32"
				24	25
	86	00	JC + 15'	25	27
[sun symbol]	md alt.	100°	47' JC + 15'		
PM	[sun symbol]	alt 86°	30' chro T. 12 <sup>h</sup>	28'	03" [maybe 13]
				29	13
			10 J.C. + 15'	30	15
			00	31	4
	85	50		32	5
	85	40		33	5

Spent the day in dickering with the Indians for food. (Meat) and getting ready to start down the stream tomorrow--Our favorite Day of Starting

" Su 14 26.70 [6 might overwrite a 7] Left Tetlings[?] (the Tione's) house 5. am  
 Stream deep, current slow, almost dead at the mouth. 25 to 75 yds wide. water warm course nearly W. Reached the Novisnor. (Taninnor) about 8 am. The course of this river for several miles up from this river is about SE by 3. [W?, E?] It is from 3 to 4 hundred yds wide--banks low and formed of a clayey loam. Bottom covered with cotten wood. alder and spruce. foot hill entirely covered with Cotten wood and spruce, small. At one or two places during PM. where river approached the bluff, the bed rock[most likely, word very faded]

June 1885

was sand stone + papery[word not clear]. River crooked.  
and from 200 yds to one mile wide. current  
not very swift, water muddy and warm  
used my silk handkerchief for a flag.

Strong wind PM. Made 50 miles

" M. 15 27.10 Am. Stream very crooked but seems  
to be better confined in on[one?] channel. Gen.  
appearance of country same as yesterday

[sun symbol] alt. 59° 40' chro T. 5<sup>h</sup> 18' 42"

50 19 28

60 00 JC--9' 20 15

10 21 03

20 21 48

[sun symbol] md alt. 100° 35' 40" JC--8

Passed a large stream coming in on our  
right. Saw many fires. River very  
crooked and from 200 to 400 yds wide  
27.29 clear + had been so nearly all day

" Tu 16 27 2 9 Last night Allen and I went  
up to house of a bad Tiones. Before leav--  
ing Nandells and Tatlings, both of them  
as well as all of their medicine men  
tried to persuade us to go by this place  
without stoping or if he came to  
us to hide our pistols for he and his  
followers would take them away

FICKETT RIVER [written next to first entry, sideways, different blue ink]

used silk handker--

chief for a flag [written sideways next to first entry, blue ink]

June 1885

from us--spit in our faces--cut us with their knives(?) &ct. &ct. They seemed to be very anxious we should pass this tribe. One old medicine man followed us to the boat as we were leaving and almost pleaded for us to hurry[hurry added in] past this place. This may be the tribe Nicholai refered to when he tried to persuade us to return an account of the bad character of the Culcharny's and where he found we would not, he asked Allen to write back so that if we were killed it would not be laid to the menusky's. We went into camp near the mouth of a small stream upon which this tribe lived. Just as we had finished our supper we heard a shot fired a little ways of, and answered it. a few minutes later 3 indians walked into our camp withdrawal a message from this chief, asking us to come up to his house and saying he was sick. They said it was a little ways, so allen and I started back with them. Their "Cuttle sut" little ways, in this case ment about 10 miles over marshes

June 1885

and hills covered with fallen spruce  
The Indians came down in their small  
canoes--2 of them went back in them and  
one went as our guide. we arrived about  
1.30 this morning. Here we found the  
Tione with a few of his followers. The  
rest of the tribe was another "Cuttle ~~shut~~" Tee[Tee written above shut]  
above but we refused to go any fur--  
ther. So he fired 8 heavy shots which  
in that still night air could be heard  
for miles and miles. He then boiled us  
some fish, and wanted us to lay down  
and sleep till the rest of his people come.  
We did so for we were very tired and sleepy.  
Slept 1 ¾ hours when I was awakened by  
a house full of Indians all talking at once--  
and about us, for they were pointing at us.  
One of them saw me open my eyes and made  
a motion for me to go to sleep again. But  
Allen woke at the same time and we got  
up. Indians kept coming, those who  
arrived first being the most fleet of foot  
After eating a little meat which they gave  
us we started back with two chiefs



June 1885

in their canoes, while large numbers went over the trail carrying some meat which we told them we would trade for when we got back to our boat. Before we started from the house, woman and children began to arrive, All anxious to get a look at the White men. Many of the Indians look sickly--some coughing while others show signs of consumption,--all probably due to the low land and warm water for the same conditions of nature exist here as at Nandell's camp. Passed several small streams on our left.--  
√√ Cathedral Bluff 9.Am--That is a bold bluff standing on the bank which in the distance looked like a large beautiful cathedral River approaching mt. range on left, and narrowed up to about 75 yds. For two miles current very rappid  
PM Mts. closing down to river on right. Passed quite a large river on left 2 PM. having a wide mouth and many channels, with large quantities of ice and snow water clear High bluffs on opposite side of Tannanor.

June 1885

41" Current growing less rapid, bed of stream  
wid[e]ning out, and dividing into many  
[sun symbol] under and overlines in blue] alt 65 50 Chro T. 2<sup>h</sup> 14'  
pm [blue ink] 40 15 18  
30 16 08  
20 16 50  
10 17 42

channels. Gen: cours[e] NW. distance travel  
ed 70 miles. Day clear and fair. 27.50 Bar 5[?] cum.  
[Bar 5 cum written above 27.50]

" Wed 17 Bar. 26.70 6 Am. 10. eu. 2t. The readings of  
the Bar. are becoming worthless. Don't  
know what the matter is. Sun rose  
clear but clouded up quite suddenly.  
Found some rappids--river spreads over  
a large territory--passed mouth of sev-  
√ eral rivers on our left. Rain began 2 Pm.  
went into camp 4.30 PM measured  
current of river and found it to be  
6.15 miles per hour

" Th 18 Wolf tried to run us out of camp. Rain  
ed nearly all night. Remained in camp  
for an observation. got one for lat. but  
couldn't get one one for long.  
[sun symbol] mid alt. approx. 100° 2' 40"  
[sun symbol] alt. 99 10 50 Chro T. 10 37 24

99 6 00  
JC--7'

10 39 20

June 1885

PM Traveled 7 hours and made 55 miles.

River in several channels most of the time, and very rappid. Passed one large river coming in on the right where salmon is supposed to come up.

Allen and Robinson came near being knocked out of the boat while running some rappid. In fact we very narrowly escaped a bad accident. Country growing more flat and less timber.

Gen. course a little N of E. Rained some during PM.

" Fri 19	[sun symbol]	alt. 53	20	Chro T. 5 <sup>h</sup> 3'	34"	
			30		4	24
			40	J. C. 0	5	07
			50		5	53
			54	00	6	40

After several hours of travel, till in two places it was about 100 yds wide. current slower than yesterday. 9.30 AM. Passed mouth of a large stream coming in on right. Had passed 3 small ones on same side this morning. 10.45 passed mouth of large rappid stream coming in

on the left. Hous[e]; old and grave on left bank  
 Bed of river narrow with high perpendicular

June 1885

bluffs on right bank opposite mouth of Tributary. Tennanor makes a turn here from S of W to NW and then begins to spread very rapidly [sun symbol] mid alt. 99° 3' 40" JC. 0

PM River spread over large flat and bears S of W. wind from W. and strong. 5. cum.

" Sat 20 Rained more during the night than at any time since reaching Terreld. Made 60 miles. Light rain and mist nearly all day about noon passed mouth of large stream coming in on left rapid, with delta mouth Country flater, river spreading, and vol. of water seem to be increasing in vol.

" Sun 21 Rained All night. Started at 3 AM. river spread ['a' in spread added in] over large territory and in many channels. PM. river began to narrow down and grow less rapid. Rain ended about noon. PM. Fair. Traveled 80 miles. Worked in the boat today 14 hours.

[sun symbol] alt.	64° 00'	Chro T.	2 <sup>h</sup>	41'	51"
	63 50			42	38
	40	JC.+5'	30"	43	27

	30	44	11
	63 20	45	81

√ √ √ Raw tallow straight for supper. nothing else to eat.

June 1885

" Mon 22 AM. Fair. River in one channel and not very swift. Passed quite a number of Indian summer housed where they catch and dry salmon during the season. Saw some Juniper, and large quantities of small birch. It is very hot['ot' in hot written over 'ard' in blue ink] and tallow straight goes hard. [sun symbol] md alt. 98° 4' 30" JC 0

PM River widens. current deep and strong. a number of islands. As we came around a bluff, saw some Indians camped on the beach. we fired a shot in the air and started towards them. They grabed their guns and took to the woods excep[t] one buck and an old woman. They wouldn't have been more surprised had we drouped from the clouds.

√ √ √ Got some dry fish from them to mix in with our tallow.

[sun symbol] alt.	53 00	Chro T. 3 <sup>h</sup>	36'	39"
	32 50		37	25
	40		38	14

30	39	05
20	39	50

It is possible that this observation 5' to[o] large  
 when the chro. was returned to me I marked  
 the time as 3<sup>h</sup> 35' 4" as a check for I saw  
 him nod while taking ['noting' written above taking] the times

June 1885

traveled till 9 PM. was 14 hours in the boat  
 and made 80 miles. Day Fair River wide.  
 from 1/2 to 2 1/2 miles and bearing S of W.

" Fri 23	[sun symbol] alt. 83° 00'	Chro T. 7 <sup>h</sup>	53'	32"
		10	54	41
		20 JC--2' 10"	55	41
		30	56	38
		40	57	42

[sun symbol] md alt. 97° 50' JC. 0  
 Day hot with a little wind and few cum. clouds

PM Current slow. River wide and deep. Living on  
one small dry fish and Tallow to a meal  
 Passed two small streams on right. Aver  
 age width of river over one mile. Formation  
 has changed from sandstone and papery, to  
 slate much broken and distorted

[sun symbol] alt. 54° 30'	Chro T. 3 <sup>h</sup>	34'	32"
20		35	15

- Traveled till 9 PM. made 75 miles.
- " Wed 24 Rained some during the night. That and mosquitoes made sleep almost imposable
- AM Passed two quite large streams coming in on the left and some Indian sommer houses. River narrower than yesterday with bluffs on right. Came to an Indian encampment of about 100.' on

Living on 1 fish +  
tallow to a meal [written next to 23rd PM entry in margin in blue ink]

Mosquitoes bad [written next to Wed 24 entry in margin in blue ink]

June 1885

- the left bank of the river. Got some meat and fish of them. PM. Shower 12.15 then light rain. Passed through a range of hills ['hills' overwrites something] which separates us from the Yukon. River runs S. for a long dist. next to the hills, but after passing through turns to the N. from 1 to 3 miles wide with many channels.  
[sun symbol] md alt. 91° 30" J.C. + 1' 30"
- " Thu 25 Made an early start river wide and current slow. Many Islands. almost no wind entered yukon about 5 PM. Got som[e] fish from an Indian woman just blow mouth of Tan.[Tanana?] on right bank of yukon, and learned fromed[combination of 'learned' and 'from'?] from her that we could get no food at the trading post a little ways below here. This piece of information was

rather discouraging['a' added in]. For we have based all our calculations upon getting food there.

Ate some fish and started on. clear

- " Fri 26 Traveled all night and reached here (the trading post) about [parenthetical added in above previous line] sunrise. [Ink color changes] Some time during the night we passed some store houses on the beach which we supposed belonged to the Alaska Commercial Co. and broke into them hoping

meat + fish [written in margin near top of page]

Yukon [written in margin with arrow pointing to 'Entered yukon']

[sun symbol] md. al[t] 97° 30'

J.C. + 1' 30" [written in margin next to Thu 25 entry]

June 1885

to find something to eat, but did not.

At the trading post we found Russian half breed in charge, but as the woman said, he had no provisions, --he was expecting a supply in about 15 days. His name is Andrew. He seems a very pleasant young fellow, and treated us very kindly. His wife got breakfast for us-- coffee and 2 hard Tack each, and to men who had been living on meat and fish for 2 months, and without salt to[o], it was a delicious meal. Andrew gave us a house to live in, and after eating our breakfast we turned in and got some sleep. Some time during the day two miners arrived

√ √  
√ √



from whom we got a sack of flower enough  
to last 3 or 4 days. Andrew says he has  
got some good machine oil so we will  
live on that and fish till the steamer  
comes up the river with supplies  
Hot and dry. Flies and mosquitoes badd  
Have not life enough to do anything but  
eat and sleep.

" Sat 27 Too cloudy for our o[b]servation. Some

coffee + hardtack

Delicious breakfast [written in margin near (and over) checkmarks]

June 1885

showers during PM. Indians brought us  
an [h]erb from which they make a drink and  
use it instead of Tea. The whites who  
have used it say it is a blood purifier.

" Su. 28 Took 3 sets of observations for long[itude]. want  
to find rate of watch.

[sun symbol]	74°	50"	Chro T. 7 <sup>h</sup>	24'	38"
	75	00		25	31
		10	JC 0	26	2[8?]7
		20		27	22
		30		28	14
[sun symbol]	alt. 76°	20'	Chro T. 7 <sup>h</sup>	32	44

	30		33	43
	40	JC--6	34	34
	50		35	26
	77 00		36	27
	[sun symbol] alt. 77° 30'	Chro T. 7	39	9
	40		40	8
	50	JC. 0	41	6 [written over 8]
	78 00		42	0
	78 10		42	52
	[sun symbol] md alt. 96	45 50	J.C. + 1'	
	Began to copy up on notes. Clear and hot.			
" Mon 29	[sun symbol] alt. 68° 40'	Chro T. 6 <sup>h</sup>	53'	40"
	50		54	30
	69 00		55	23
	10		56	16
	69 20		57	07
	Clear. John discovered that he has got the			
√ √	scurvy [sun symbol] md alt. 96°	40'	10"	JC 0
	Some showers during PM			
" Tu 30	Fair and hot. working out obs and copying			

## July 1885

" Wed 1	Fair with showers. River falling rapidly.			
	A party of Kuskoqwim Indians came today.			
" Th 2	[sun symbol] alt. 69° 00'	Chro T. 6 <sup>h</sup>	59'	00
	10	6	59	57
	20	JC+50" 7	00	42
	30		1	32
	40		2	22
	[sun symbol] alt. 74° 50'	Chro T. 7 <sup>h</sup>	29	19
	75 00		30	14
	10	JC .0	31	13

	20		32	8
	30		33	1
[sun symbol]	alt. 76° 20'	Chro. T. 7 <sup>h</sup>	37	48
	30		38	27
	40		39	22
	50		40	17
	77 00		41	16
[sun symbol]	alt. 77° 30'	Chro T. 7 <sup>h</sup>	44'	1
	40		44	57
	50	JC 0	45	58
	78 00		46	52
	78 10		47	54

A party of about a dozen Indians arrived here from up river. tonight. Flour all gone. have to go back to our old diet-- Fish straight--a limited quantity and bad quality at that. clear[in different ink]

√ √ √  
 ,  
 " Fri 3 Chronometer stoped about 10.30,--I think last night, for I discovered it about noon. I can't imagine what is the matter with it, and am very sorry that it should go back on us. Fair[in different ink]

Robinso[n] and Pete both have a touch of the scurvy. [written in margin next to chronometer readings]

### July 1885

- " Sat 4 Indians commenced the celebration by shooting guns last night. This morning Andrew hoisted two flags, one old and tattered, below a new and small one. At noon we fired a national salute Evening Indians had a dance, Fair + hot
- " Su 5 Fair AM. Showery PM. Rainbow.
- " M. 6 Fair + showery. Indian docter was at work

on a sick child last night. Allen went  
" ~~Tu.~~ 7 out to see him but I did not  
" Tu. 7 Very hot. Clear and Fair. Rainbow after sunset.  
I saw the Indian docter at work on the child  
again. Poor Indians, it seems a question, sometimes[added in]  
whether to give them our pity or our contempt  
I had retired when the rumpus began, but  
got up and joined the croud[crowd] of Indians  
standing around the performer. A piece of  
cavass was spread on the ground, and upon  
it was the docter, grooning[groaning], yelling and un-  
der going all sorts contortions and convul-  
sions while several Indians was trying  
to hold a blanket over him. He managed to  
keep time with his groans and kicks, to a  
sort of dirge which the ascembled[assembled] Indians

Indian Doctor[written next to last entry on page, blue ink]

July 1885

Indians were singing[1st 'n' added in later]. The Father, holding  
the child in his arms [scribble mark above 'arms'; illegible] was sitting at one  
corner of the blanket. The docter floundered  
around till he finally got his feet up un-  
der the blanket in which the child was  
wrap[p]ed, and after laying there for some time

and trembling as though in fearful agony, he broke away with ~~at~~ the disease of the child in his own body. Then began a terrible struggle with the disease itself in order to master it and drive it from his own body. In his fearful struggles he tore his shirt from his body and floundered on top of the blanket which the Indians were holding over him in spite of all they could do. At the end of about 2 hours and after his exertions began to somewhat slacken, one of the Indians grab[b]ed him, drew his head into his lap, blew into one ear, turned him over and blew into the other ear then straightened him up and pressed down on the top of his head with all of his might. The doctor remained in a sort of a numb state till another Indian jumped

sick child[written in margin in blue ink, in the lower half of the page]

July 1885

up and gave him another big pressure on top of the head. This seemed to complete the bringing too process, for he shortly got up and joined in conversation with the Indians.

He is the youngest Indian medicine man that I have ever seen--not being over 30--of mediane height, pleasant and very good looking. He has the reputation among the Indians of being a very powerful medicine man. The child had summer complaint.

- " Wed 8 Fair day strong wind from the W.
- " Th 9 Cloudy all day and not near as hot as it has been. Wind from the W. with a small amt. of rain
- " Fri 10 Looking for the steamer, and oh how I  
√√ wish she would come. Machine oil all gone. Have nothing to eat excep[t] fresh fish. Spend our time in working out our obs. writing, reading +ct.  
A miner looked into my watch today, and found that the hair spring had moved. with a pin he replaced it so she is going now. If I can get an obs. tomorrow I will set her.

July 1885

- " S. 11 Cloudy AM. Fair PM. Allen started down river in canoe to meet the steamer, with

a miner and an Indian

" Su. 12	[sun symbol]	alt. 76°	20'	Chro T. 7 <sup>h</sup>	40'	13"
			30		41	12
			40	JC. 0	42	09
			50		43	08
		77	00		44	08
	[sun symbol]	alt 77°	30	Chro T 7 <sup>h</sup>	47'	01
			40		48	00
			50	JC. 0	49	00
		78	00		49	59
			10		50	59

Time recorded by Robinson. Clear AM. Fair PM.

- " Mon 13 Fair, but very warm. no wind
- " Tu 14 clear and hot. no wind
- " Wed 15 The sick child that the docter was working on the other night died this AM. and was buried in a few hours. Clear and hot.
- " Th 16 Clear and hot. More Indians arrived about midnight. How I would like to have some bread.
- " Fri 17 very hot, and clear
- " Sat 18 Fair AM. Thunder and lightning with rain all of PM. Indians think Thunder is caused by a small man in the clouds jumping from a higher to a lower one and then back again

Sick child died [written in margin next to 15th entry, blue ink]

Thunder [written in margin next to last entry, blue ink]

- " Sun 19 Cloudy all day. Indians brought some blue-berries to me which were very nice. I am getting so weak that I don't know what to do with myself, and my condition is no worse than the rest, in fact[fact] better than some for Robinson looks more like a dead man than anything else.  
(Exchange Hotel Vancouver W.T. Oct. 20-1885)[new ink color]
- " M. 20 Cloudy. Began to rain about noon and continued all day
- " Tu. 21 Rain ended about 7. AM. Indian Doctors still making medicine for the steamer
- " W. 22 Clear. Hazy toward night.
- " Th. 23 Rain all day. comparatively no wind
- " Fri 24 Rain all day. Tannanah[?] Indians, 31 canoes, arrived 4 PM. Came in All in line in grand style, firing salutes, shouting +ct. at 8 Pm. the small steamer arrived, and only those who have suffered for food as we have, can have any idea of our feelings as the came in sight around a bend in the river. we ate supper in steamer and got a sack

Blueberries

Weak[? nearly illegible. Written next to first entry, blue ink]

Ate supper on Steamer

Sack of Flour [written in margin next to last entry, blue ink]



July 1885

of flour, we had another small meal as soon as we could cook some bread, and continued to eat every few hours. How John did enjoy it.

" Sat 25 Ate at short intervals all day, cloudy + showery, Robinson was shaved and he was found to be in a much worse condition than anyone supposed, He was all turning black.

" Sun 26 Big steamer arrived 9. am. bring-ing Lt. Allen. Mr. McQuestion[?] a trader has raised turnips weigh [word faded, possibly '-ing'] 6 lbs. also u[o]nions, potatoes +ct. at this place. Nuckaluckyet. Cloudy + shower. Made fun of In. Doctors at their wild guesses about steamer. Indians all through this section seem to be very restless and uneasy. are finding much fault at oppression of traders and are quite boldly threatening vengeance. Lt. Allen reports that at Nulatto

Robinson--Bad

Condition [written next to 25th entry, blue ink]

Turnips, onions

potatoes grow here [written next to 26th entry, blue ink]

160 miles below here where he met the steamer the Indians, by threats, compelled the traders to leave goods here ~~run~~[?] in care of an Indian for sail[sale]. They bo[a]st of the men they have killed and threaten to repeat the operation saying nothing has been done and nothing can be done. Fair day.

- " M 27 Cloudy and fair by speses. Both steamers started up river 4 PM. Frederickson and Walker are the traders here McQuestion and Mayo at Ft. Relience and Harper 75 miles this side of Relience. Indian sleds 18 in. wide[? faded ink] and 10 ft. long. About 100 Indians left here today. Jo. Ladone + H. Franklin are names of two miners who came here next day after we did. We--(Lt. Allen + I) are getting ready to go North to KouKuck. Robinson will be left here on account of his scurvy.

Left--Robinson here [written in margin, blue ink, near bottom of page]

July 1885

" Tu. 28 [sun symbol] alt. 63° 30' Ch T. 7<sup>h</sup> 6' 36"  
40 7 34  
50 8 28  
64 00 9 23  
10 10 17

Recorded by Robinson. Hazy and bad for obs. Left Nuckaluckyet 9.30 Am. flouted[floated] down river 6 miles and then started overland for Koukuk. Party consisted of Lt. Allen and myself and 5 dogs. besides 3 Koukuk Indians who were traveling in our company. they are going home and will carry some things for us. We have provisions for about 25 days After cooking dinner on the beach we started back into the wood. kept gradually climbing till towards night got above timber line. Flies and mosquitoes very bad. Cours[e] N. dist.[ance] 13 miles.

" Wed 29 Foggy with strong wind from W. wind drives fog right through our clothes. Traveled on top of hills Almost no vegetation. Slate

Provision for 25 days[written in margin, blue ink, next to underlined section]

Aug 1885

- sandstone, Quartz and granite[granite].  
Country much broken. E of N. 23. m.
- Th 30 Foggy AM. Same as yesterday. Saw sun once or twice PM. Country lower and flater. Approaching a flat marshy country. Walking very hard. E. of N. dist 25 miles
- " Fri 31 Traveled all day over flat country covered with small lakes. Towards night got across this flat country and camped at foot of opposite hills. Walking very hard but made 29 miles a little more to the E. of N. than formerly. Fair. SW.[last two words in darker, less faded ink]
- " Sat 1 Traveled most of day on top of dry ridges, partly covered with small birch and spruce. Cloudy strong wind from SW. began to rain about 6. PM. Crossed last branch of Tus.[?]
- " Su. 2 Rained little during night. cloudy all day. In crossing from one range of hills to another, had to cross another large stretch [of] flat country

Aug. 1885

covered with small lakes. Wind  
which had been lowing[blowing?] more or  
less strong from SW. since we  
started died out this PM. Flies  
and Mosquitoes very bad.  
course E. of N. dist 28 miles

- " M. 3 Got an early start and reached  
an Indian village in a small  
Tributary of Koukuk. about 11. AM  
a dist. of 14 miles over['o' overwrites p] a flat  
boggy country with water and  
mud nearly to our knees. At the  
village got two canoes and some  
fish and started down the  
stream            Reached Koukuk  
3. PM. dist 12 miles and direction  
W. of N. at Junction, Koukuk  
comes from NE. Went into  
camp 8. PM--having made 15  
miles up stream. cloudy all day
- " Tu. 4 River rose two feet during night  
AM. Fair. no wind  
[sun symbol] md. alt. 81° 29'. JC. + 20"  
Observation taken too late

Water + mud  
nearly to our  
knees[written in margin, blue ink, next to M. entry]

Mutes.[? written in margin next to M. entry, original ink color]

[sun symbol] alt. 43° 00'	chro T. 3 <sup>h</sup>	45'	23"
42 50		46	11
40		47	2
30		47	52
42 20		48	44

J. C + 1' 40"

Nearly clear. Little or no wind.

Passed mouth of Alakoc[r?]~~ket~~. 4. PM.

This river, which appears to ~~come~~ be [written above ~~come~~]

nearly as large as Koukuk comes

from a little west of N. and at

right angles to Koukuk. Both

rivers here from 700 to 800 yds. wide

with well defined banks. country

flat with low hills in distance

water muddy. soil a fine sand

and loom[m overwrites possible k]. Width of koukuk varie

but little. water in one chan[n]el

and well confined. Towards

night river more crooked and comes

more from the E. Has been falling

since middle of AM. made 23 miles

wed 5 River fell about two feet during night

and still continues falling

Aug. 1885

Cloudy. no wind. Made a cache of 1 sack--50 lbs flour--5 of bacon and about 3 of butter before leaving camp this morning. River fell during day about two ft. Rain began 8. PM. as we went into camp.

- " Th.—6 made 30 miles.
- " Th. 6 Rained all day. passed a trib. on right upon which is an Indian village. Killed ~~the~~ old dog. Foun[d] several islands in this vicinity and water somewhat spread. 25 miles N. of E--traveled. Indians reported 3 mutes at village on this tributary. wind E.[wind E in slightly darker ink]
- " Fri 7 Rained hard all day. river rising rapidly 4 ft. in 24 hours. 3 Indians Came to us during the night from the ~~trib~~ village on the tributary which we passed yesterday. and brought some fish. slept in a pool of water. PM. showery and cold. a strong current and hard work  
River spread over a large terri-

Slept in a pool of  
water [blue ink, written in margin next to last entry]

- tory and in many channels.  
course about N. dist 20 miles.
- " Sat 8 Rained some during night and  
river rose 13 inches. Cloudy with  
sun showing once in a while. Gen.  
course W. of N. Country flat and  
river divided into many channels  
PM. Cloudy but sun occasionally  
seen. Course west of N. at night  
arrived at base of range of low  
mountains running apparently NE  
+ SW. River here appears to come  
from NE. following this range.  
Snow covered mts. seen in the dist-  
ance to the E. river seems to run  
between this and a low range  
a head. Snow cap[p]ed ones west of this  
range. Country flat and river in  
several channels. 30 miles
- " Su 9 Day fair till towards nt. Course  
river more to E. following range  
of mts. Wind W. [Wind W. in darker ink]



9[extremely faded] [sun symbol] 55°	10'	chro. T.	7 <sup>h</sup>	0[?]'	35"
	20			1	33
	30			2	31
	40			3	32
	55			4	27
[sun symbol] md alt. 77°	57'	40"	J. C. + 1"		

while taking am obs. one of the Indians climbed a hill on N. side and reported he could see the Ascheshnah, the river at whose mouth we decided to turn back. Arrived at its mouth about 10. AM. and ascended 6 miles It was on this river that [sun symbol] md alt. was taken. This river appears to come from N. and flows through a flat country similar to valley of Koukuk. average width 125 to 175 yds ['to 175' added in] depth 18 ft. to 25 novegatable[navigable?]. Turned back about 1.[? faded] PM. After reaching Koukuk we at dinner then Allen and I climbed a hill to the N. ~~nöh~~[?] from where we could trace both the course

of the Ascheshnah and the Koukuk to where they seemed to emerge from the Mt. ranges to the N. and E. We could see the vally of the Koukuk for 100 miles a vast plain or bog but comparatively destitute of lakes. Most of soil on river banks a fine sand  
Saw a fiew old Indian houses made of poles stuck in the ground also saw where river had nearly washed away Indian graves on the banks  
Saw two sundogs during PM. About 5 PM met a Malemaa[u?, oo?]te Indian from Stonies river on his way home  
From him we got some fish and his pipe, and tried to purchase his chuk bones. (or ornaments) but he would not part with them. Made 37 miles down stream this PM. think we were in the Arctic circle.

- M. 10 Cold cloudy day with little rain and strong W. wind. Passed mouth of Nohoolchintnah 8. am. Got some fish at cashe here and left box of caps.

Arctic O [written in blue ink next to arctic circle comment]

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10 am passed some woman from Nohoolkorket tribe camped on beach waiting for wind to go down. They were on a fishing expedition down the river. Got some meat from them. Reached our cashe at 4 PM. and passed Alakocket about 6 PM Rain bow about sunset. Graves and remains of old house all along the river. Made 85 miles

" Tu 11 Rain began about midnight and continued all day. Passed Aschenah about 11. AM. Went into camp at 1 PM to wait for an observation. At mouth of Aschenah we seemed to have reached end of low flat country through which we had been traveling, and the river began to cut its way through a series of foot hills of Slate formation. width of river from 150 to 600 yds wide. Gen. course S. of W. and dist 45 miles



" Fri 14 Got an early start and made a long days march. Reached an Indian

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7 AM, which consisted of two Tents.  
 Got some fish and learned we would reach another village tomorrow.  
 Cold with strong wind up the river or from the W. Day fair.

[sun symbol] alt.	48° 00'	Chro T.	6 <sup>h</sup> 45'	4"
	10		45	57
	20		46	45
	30	JC= 0	47	41
	40		48	35

[sun symbol] md alt. 77° 12' 30" JC=0

River bends much to the right S. and from 500 to 800 yds wide. Soil a fine sandy clay. Reached the Indian villag[e]. One family of 6. 85 miles

" Sat 15 Saw a star last night for first time this fall. Morning cloudy. Fair towards noon. PM. cloudy. River very crooked. country mostly flat. Bluffs of loom in places along the river  
 Passed a Malemoot family of 5 camp-

ed on the beach--were dres[s]ed in skin clothing and living in a conicle shaped hut made by small poles standing

on the ground in a circle and leaning together at the top. They also had a sleeping house covered with bark and skins. Their clothing was very scant and they were living on fish yet they seemed happy. The woman had curly hair. Our Indians couldn't talk with them. (Don't know whether this is the next village or not) River approaches mts. on the N. Tops and sides destitute of vegetation. Trail goes from here over to Stony'z river from here--5 days travel over mts. [sun symbol] md alt. 76° 14"--JC + 1' 20" This reading probably too small. Cloudy. Entered channel on right side of island about 4 PM. Made 75 miles " Sun 16 Passd four villages(?) during day and entered maine channel about 5 PM. 1<sup>st</sup> village 0 Men 3 Women + 5 children

2<sup>nd</sup> “            2 “    3 “            6 “  
 3                    2 “    several families in-  
                       cluding several full grown boys +  
 girls most of the men were away hunting  
 4<sup>th</sup> village      1 Man + 1 women with 3 or 4

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children--all simply camped on  
 beach drying fish, and the women  
 making their winter skin clothing.  
 (Most) part[written above 'Most'] of them live in cotten tents--  
 others in brush houses +ct. River  
 approached quite close to mts. on  
 right but began to leave them  
 towards night. Rainy and cloudy.  
 Made 70 miles

" M. 17 Cloudy. Lt. rain at intervals. no wind  
 and quite warm. Passed 2 Indian  
 villages--1<sup>st</sup>, 2 men 3 women and  
 6 children. 2<sup>nd</sup> 1 women + 2 children  
 AM. Passed mouth of what our  
 Indians said was a river but it had  
 the appearance of being the mouth of  
 a shallow lake. Water looked as

though colored wi. decayed vegetation  
 River very crooked, but Gen. direction S.  
 and about 800 yds wide. 75 miles  
 " Tu 18 Camped at an old Indian fishing  
 station. These people have wonderful  
 confidence in the honesty of their  
 neighbors, for they leave their

most valuable goods in cashes  
 all over the country without lock or  
 seal. The cashe is universally respected  
 by them. Rained some during night  
 and AM. Passed 3 villages[a in word added in]: first two  
 same size as those above, but the  
 third was the largest we have seen  
 about 50 people here. They wanted to  
 cook us something to eat but we  
 did not axcept-- the first instance  
 of the kind during whole expedition.  
 Sun came out long enough for  
 an observation

[sun symbol] alt. 71° 50	chro T. 10 <sup>h</sup>	48'	1"
		49	51



72 00 J. C. + 1' 40"

10 51 48  
PM [sun symbol] alt. 74° 50' 40" chro T. 11<sup>h</sup> 30' 28". JC+1'. 40"  
This obs. taken PM. for Lat.  
Saw Barabera (house) under ground  
connected by under ground passage  
with another house 15 ft. sq. Passage[squished in margin]  
3ft. high 1½ ft. wide and 6 ft long.  
Went back for Jim. Shot several  
ducks. Day warmest we have had

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since we struck this river. PM. cloudy  
with little wind. Made 70 miles  
" Wed. 19 Day fair. Saw the sun long enough  
for fair observation am. And approx.  
Md. alt. Nearly all day in passing large  
island. River very crooked, and soil[added in above 'and'] comp-  
osed of blue clay. Passed two villages--  
1<sup>st</sup> -- one family of 7 persons, And 2<sup>nd</sup> of  
about 30. Mostly women and children  
Remains of an old trading post near  
where we camped on right bank of  
river and at the junction of a river  
coming in from the N. Sand flies bad

[sun symbol] alt. 74° 10' chro T. 9<sup>h</sup> 37' 17"  
 20 39 2  
 30 JC+ 2' 40 45  
 Md alt. [sun symbol] 74° 38' 40" JC + 2'

Made 65 miles.

" Th 20 Day cloudy with sun occasionally showing  
 intself [itself]

[sun symbol] alt. 58 40 Chro T. 8<sup>h</sup> 15' 16"  
 50 16 13  
 59 00 JC+ 30" 17 20  
 10 18 29  
 20 19 27

[sun symbol] md alt. 74° 19' 30"  
 JC + 30"

Passed two villages--1<sup>st</sup> 4 families--  
 20 persons and second 3 families  
 12 persons. Building log house  
 here--man seemed very Industrious.  
 Hills on right. Specimens of f[maybe + or t?] coal  
 found on right bank at foot of  
 hills during PM. --also iron speci-  
 mens. Rained some during PM.  
 Made 65 miles S of W.

" Fri 21 Day cloudy river crooked with bluffs  
 on right. Got in sight of Yukon by

noon. but couldn't get an obs.  
2 PM--learned from an Indian  
that steamer had passed yesterday PM  
down stream. Got fair obs.

[sun symbol]	alt. 45° 10'	chro T. 3 <sup>h</sup> 15'	31"
	45 00	16	23
	44 50	17	15

Coal +  
Iron [written in margin next to Thursday entry]

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Head wind little rain and cold. 6 PM  
Stoped at an Indian house for supper  
and there learned that steamer had left  
Nulatto. We hardly believed it for the  
Capt. had promised to wait for us.  
We did not wait for supper but start  
ed on immediately, arriving at Nu-  
latto 7.30 PM and there learned that  
the steamer had left at 12. Got a

letter which Robinson had left for us stating that if we didn't show up in two weeks he would ~~organ~~ come and search for us. An Indian woman got us some supper. Our Indians wouldn't go any further so we got another one to go with us overland to the coast. We start in the morning and shall try to reach Ft. St. Michell before the Cutter goes South--

" Sat 22 Saw the grave of Lt. Branard of Eng. Navy who was killed by Kraveduna [word nearly illegible] Indians while in search of Sir. John Franklin. Started 8. am with one Indian and one canoe

at 10 AM reached a fishing village lower down, from which we got a half breed to go with us. Got some flour and tea at Nulatto. Expect to reach Ft St. Michells in 6 days. Rain began 6 PM and continued all night hard. Camped near Indian village on beach

- after making a long days march.
- " Sun 23 Started before 6 AM. and arrived at little creek from where the trail starts at 10 AM. We also got another Indian this morning so the party now consists of Lt. Allen, myself and 3 Indians Raining and everything wet. PM. Showery. Towards night signs of clearing up. Course about NW. over flat marshy country. Traveling very bad and wet. Camped on edge of the Marsh near the hilly country. About 10 miles.
- " M 24 Morning clear and beautiful. Promises good day.

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[sun symbol]	alt. 55° 00	chro T. 8 <sup>h</sup> 5'	45"
	10	6	42
	20 JC + 50"	7	35
	30	8	31
	40	9	26

[sun symbol] md alt. 74° 00' 20" JC+ 2"

Clear AM Fair PM. On mountains all day traveling from peak to peak in almost every direction. Gen. course about NW. Could see the Yukon where we left it, and occasional glimpses far below till about 2 PM. To the S. as far as the eye could reach the country seemed less mountainous. but to the NE +W nothing but peak after peak could be seen as far as the eye could reach.

On mountains all day. very hard walking because covered with moss. The roots of this moss was in such a condition as to act as a lubricator to surface of stones.

The little revines between the peaks were filled with a few alder, some

scattering spruce and a little grass  
We started 7.15 am. camped 8.30 PM  
and made 25 miles. Course

- little N of W.
- " Tu 25 Fair day. Cum. clouds increasing  
 PM. Traveling same as yesterday  
 9.30 am. saw Walla cleek[cluk?] valley  
 from Mt. peaks, also a small strip  
 of Ocean to the W. probably 75 miles  
 away. The sight was invigorating  
 and our spirits rose 50%. Hall  
 hands tired and sore from yesterdays  
 hard days march. crossed two  
 small streams running into W. C.  
 PM. cloudy. Went into camp on  
 Mts. near bunch of alders about  
 8 PM. Fiew drops of rain formobo['formation' maybe?]  
 same as yesterday. Course a  
 little S of W. and dist 18. miles
- " Wed 26 Started 7. AM. Fair. noon sky covered  
 with Cum. clouds. descended from  
 Mts about 9 AM. into a flat coun-  
 try country which was wet and  
 marshy--Reached Malimoot

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village on Walla cleek[cluk? cleet?] about

noon. Course a little S of W. and  
dist 12 miles. I was ferried  
across by a Dusky Damsel  
Got 2 canoes at this village  
and started down stream at  
2 PM. Learned that this village  
was not Malimoots, but Yukon  
Indians living here. Traveled  
till 10 PM. PM + night cloudy.  
few drops of rain. River crooked  
" Th 27 Day cloudy. Started 7 Am and  
reached coast 4 PM. Passed  
3 Malimoots villages. compos-  
ed of Indians belonging on the  
coast. They are up here fish-  
ing. At Walla cleve[?] found two  
men and 3 families. Sent  
one man to Ft St. Michells  
with letter for Capt. Hilly [Hiley maybe?]  
and another up the river for  
a bidara and some natives  
Wind SE and has been so  
for several days. --Little rain at night



" Fri 28 We examined some dead houses on the beach. Made of Drift[added in above 'of' and 'poles'] poles in a conicle form. Body laid inside and covered with cloth or skin we also visited two of their dance and feast houses--about 25 ft. sq. Door enters from an under ground passage on the W. side and is about two ft. by 2 ½ ft The fire was made in a pit from 8 to 10 ft beneath the middle of the floor, which was so arranged that it could be removed from a space about 10 ft sq. while cooking and to start the fire. There is a shelf running around the room about 2 ft. wide and + ft. from the floor which probably serves the double purpose of a seat and a table--on the E. N. + S sides of the open space over the fire place are posts about 4 ft. high upon which are placed urns or wooden bowls. Thes bowles

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are filled with oil griese ['oil' written above 'griese'] and are used for ligh[t]ing purposes. After the feast is cooked and fire well burned down, the floor is replaced over the opening and dancing commences. The whole house is underground and the only ventilation is by the smoke hole in roof. With those rooms full of dirty greesy perspiring natives, the odor must be terrible. They have col.[lected] large quantities of berries which are molding and rotting--probably arriving at to ['at' written above 'to'] a condition which they consider eatable. The Natives here have a pleasant disposition and seem to be contented and happy. They consume large quantities of seal oil, and seem very fond of it, never eating a meal without a dish of it before them  
It is conveyed to the Mouth

on the thum[b] and two fingers,  
and the dextrous way in which  
this is done is something  
wonderful. They have a dish  
fore desert composed of berries, ['some' ?illegible and 'black' written above 'of']  
tallow and seal oil. The oil  
and tallow are beaten in some  
way to make it resemble cream  
and to the eye the dish looked very  
inviting, but the taste of one  
berry was all I could go.

PM. cloudy + windy. Biderar arrived  
from above, but don't think we can  
start till tomorrow. Native trader  
arrived from Ft. St. Michells + PM.  
Cutter hadn't arrived there when he left  
" Sat 29 Had intended to start this morning but  
too windy. Started at noon in the  
traders bidarar with 4 Indians  
besides our two. Natives very much  
frightened and wanted to turn back  
but we wouldn't let them. All hands  
sea sick. Sailed till 5 PM. then land-  
ed for supper. Cloudy--cold wind

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little rain. After supper cordelled till 9. PM. One year ago today I was on Chatain strait in a gale.

" Sun 30 Cloudy Am. Fair PM. Cold with little wind from S. Got an early start and reached Ft. St. Michells 9.30 PM. Here we found Robinson and were kindly received by Mr. Lawrence and Mr. Clark, the latter had lunch for us in his office. We read papers till past mid. night and slept on the floor. Didn't get up till late. I was much disapointed['a' added in] in not getting letters. Landed at two places on the coast where natives were living. They were very very poor. I got a pipe from an old woman.