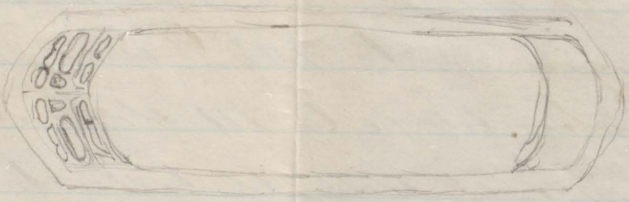
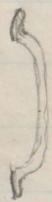
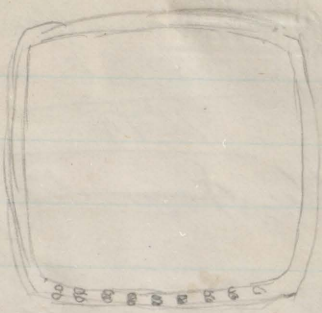
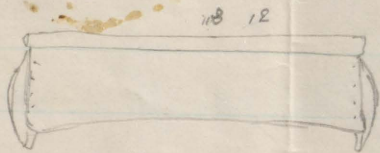


1878

MSS. COLL. B. H. DAWSON

Large dishes for food at feasts  
Seen in Edusson's old home  
Barry Passage.



5' 6" long



End to Edusson's old home

cut corners out neatly in clay & separate a point in spring  
any part get when back for water.

Indian Dikes  
 Edensaw's House  
 near N. Island  
 1878

Massett,

Aug. 22nd - 78

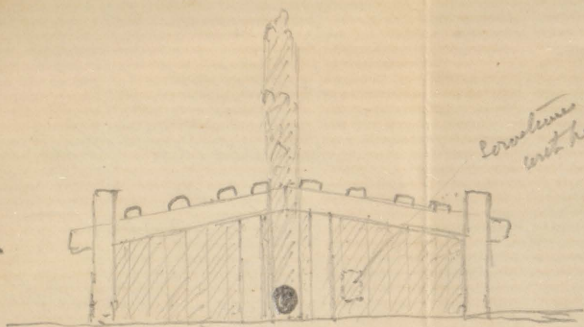
My Dear Sir,

As I am not certain that I will again have an opportunity of seeing you before you leave the Islands I take the precaution of writing you a line.

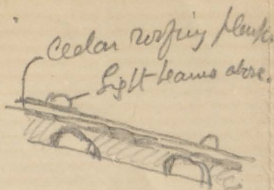
I beg to send you a small packet of letters which you will kindly give to either Mr. Hall, M.P.C. Fort Simpson or to Mr. Duncan if you should go to Metakatta.

I think it will be better to leave them thus at either of the two places mentioned above as they will reach Victoria by the Steamer "Otter" probably before you can.

I was anxious about your safety last night as it blew quite a gale but I trust you were in some sheltered harbour.

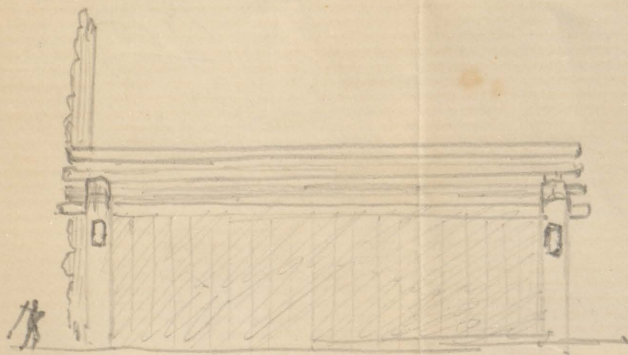


Corbelled a door box  
with hump.



Cedar roofing plank  
Left beams above.

07



Indian house, Masret.

White = beams. Shaded planks.



Sketch of  
Indian Home  
Massek  
Queen Charlotte Is  
1878

07-

*[Faint, illegible handwriting]*

*[Faint, illegible handwriting]*

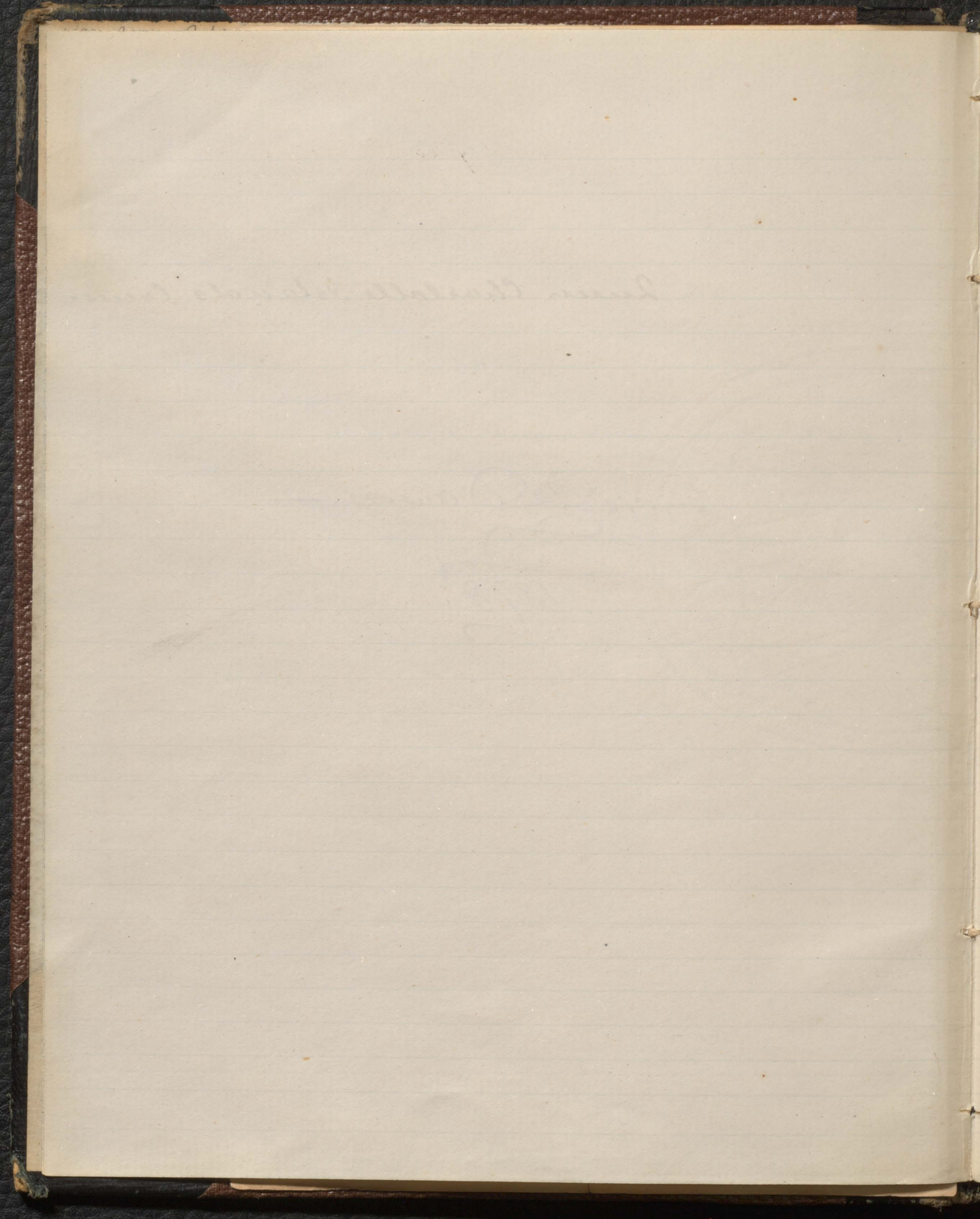
MSS. COLL. G. H. D.



Queen Charlotte Islands Cruise

George M. Dawson

1878



In Small Note book fr. Apr. 30 - May 25 & Oct 18 - Nov 9<sup>th</sup>

May 27. 1878. After two weeks of preparation & occasional delays, get off at 7 P.M. this evening on our Northern Cruise. Morning spent in packing up & stowing away things not again required till return to civilization & getting stuff put on board Schooner. The sails, which have been the chief part of the delay, ready at last - the main sail & jib put on in the morning, the foresail after securing its Coast Stitch brought down & put in the afternoon. Paid bells & said good bye for the second or third time to acquaintances in the streets & now almost myself surprised to find that we are really off.

Beat out of Victoria harbour as the light fades from the hills touching with a rosy tint the summits of the Olympian mountains long after the last glow has gone from the hills about Victoria itself. Pass outside of den Pt with a freshening South easterly breeze, & round Eschal Island with the last of daylight. Pile away the miscellaneous mass of baggage with which our little Cabin is filled & turn in, tired enough & ready for a good sleep.

May 28. Wind strong the night unsteady & light so that ~~cannot~~ on coming on deck about 7 A.M. find

*[Faint, illegible handwriting on lined paper]*

we are not much beyond Sydney Island.  
 About 9.15 while engaged stowing away stores  
 a shock, followed by a grating sound brought us  
 to the deck, to find that by trying to shore too close to  
 Portland Island we had got on the reefs running  
 off it. The tide fortunately making, so that  
 we got off again at 11 Am. Uninjured & only  
 sorry for the delay. Collected a few star fish  
 & shells while astore, the former with many rays  
 like the Solaster of the British Coast but larger.  
 The "tangle" now begins to reach a considerable  
 length, & floating out with the tide in dense masses  
 from all the reefs & shoal patches. Each stalk  
 tapering downward to its attachment, ending  
 on the surface of the water in a buoy form  
 which a tuft of brown streamers depend.  
 Some light, with showers of rain till evening,  
 when a fresh breeze, with occasional spitting rain  
 carried us against the tide through the False  
 Narrows a lub. remaining Harbour, where, though  
 without any important business of my own  
 I had promised to call to Antennae,  
 Saberson.

The kinks going out the wharves, with the occasional  
 rattle of a truck of coal descending into their  
 holds as they are loaded makes us realize that  
 we are in a coal-bearing region, where one of  
 nature's old store houses is being ransacked  
 for the benefit of the present generation.

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

2

1

4 . . . . .

The beautiful little islands among which we  
 have been sailing all day, are peculiar in the  
 wall like (vertical) cliffs which the outcropping  
 edges of the Coal bearing Sandstone present more  
 little, while the other slopes were gradually down to  
 the coast & is generally covered with an open growth of  
 pine ~~leaved~~ trees with scattered little patches of  
 prairie & grass-fern points. There is however,  
 with all very little soil on these islands & few of  
 them are suited for anything but the maintenance  
 of a few sheep or cattle. Here & there a settlers  
 house may be seen on some spot of good land,  
 also an occasional little establishment for the  
 drying of Dog-fish & may a little Steady &  
 potato patch of the Indian, whose canoe may be  
 seen with a little boy like sail starting before the  
 wind from one island to another.

The general outlines of these islands show singularly  
 well the dependence of physical features on geology  
 or rather on those arrangements of the rocks which  
 this is the province of geology to study. The Sandstone  
 & conglomerates may be traced in long chains of islands  
 following the strike while from the shales & softer  
 beds the channels have been followed, as has been  
 worked out in detail by Dr. Richardson. So what  
 extent the Strait of Georgia glacier may have existed  
 in the shaping of the surface & how far the action of  
 the other denuding agents may have been admitted  
 is impossible now to say.

*[Faint, illegible handwriting on lined paper]*



May 29. Obeyed much against my wish to remain at Manarino till Johnston had got through business &c. &c. this being his home. Got away at 12.30 P.M. Cruised round with a very gentle air by the Channel to Departure Bay, & getting outside ran more briskly up the open Gulf going east of the Ballina's. Sky overcast at sunset but a clear spot & bright glow in the North-west.

May 30. Fair wind heavy died away during the night, find ourselves at 7 A.M. off Cape Lago nearly becalmed. Get the tow net triced & catch a number of little Crustaceans &c. Fair wind gradually springing up carried us in good style past Middle watch Island & to Cape Mudge, but left us off the latter place again nearly becalmed. Formed by a light air & the tidal current drift past the village of the formerly piratical Beccas - There appear now to be about 16 houses in all & a large number of canoes - & on into Seymour narrow, Get through safely with the latter part of the tide but there being no wind find it difficult to get the vessel out of the stream into Plumper Bay where it was wished to anchor to wait for the next tide. Try to buy the Schooner Glory with sweeps & then more successful by the boat towing ahead. Get at last into a fair eddy & drift into the Bay, anchoring at 9.30 P.M.



Went ashore in the boat to a spring the sound of which could be heard from the shores as it trickled out from the roots of the Cedar trees on the beach. Water beautifully phosphorescent when touched by the oars.

May 31  
~~June 1~~. Having rather overslept ourselves did not get anchor up till 7 am. Weather quite calm & in endeavouring to get out of Plumpher Bay into the force of the ebb stream got involved in eddies & whorls which carried us back into the bay. Finally by aid of sweeps got out & continued slowly moving along main channel with the stream, being caught long now & then by an eddy & turned round & round several times. Got off in boat to Stone nearly opposite Deep Water Bay, for fresh water, having heard a stream running in there. Got at length a little wind & Creep on with fresh breeze just with the tide & stem against it. Finally, finding that no progress could be made against the current anchored in the lee of an island beyond the mouth of Rodales Channel, for an hour. Went ashore to examine rocks & collected a few plants. Off again but soon in a perfect calm & moving only with the tide

Scenery very fine in all directions, the mountains rocky & generally with scarce any soil yet supporting great trees, & in some instances thickly wooded

My dear Mother  
I received your letter  
of the 10th and was  
glad to hear from  
you and to hear  
that you were all  
well.

I am well and hope  
this finds you the same.  
I have not much news  
to write at present.  
The weather here is  
very pleasant now.  
I have been thinking  
of writing to you for  
some time but have  
not had time.  
I hope to hear from  
you soon.

Yours affectionately  
John

from base to Summit. Mountains of Vancouver  
Shore by foot & increasing in height, the Prince of  
Wales & Newcastle ranges with much snow.  
Other & still higher mountains of the mainland seen  
from time to time over the <sup>the</sup> islands & barest  
fields of ~~the~~ virgin snow, which in some cases is seen  
to form immense drifts behind Crags & Summits.  
Passed a couple of Indian Caves today, the  
first containing besides a number of Indians,  
women & men, a white man. The Indians from  
some one of the northern islets & would not even now  
dare to pass the rollers of Cape Mudge but for  
the presence of a white. One man paddling with a  
short pair of oars, the others men & women, paddling  
in the old style. Idus in heaps in bottom of canoe  
& faces daubed with ochre & other pigments giving them  
a peculiarly repulsive appearance. One woman  
with a broad mark in red ochre on her upper lip,  
in the place where a mustache ought to be, looked  
very comical & deficient.

As I write a breeze sprang up ahead giving us at  
least a chance to tack, which with the ebb tide will  
push us along - slowly.

At about 10 P.M. a steamer going north passed  
us - probably the Otter.

*[Faint, illegible handwriting on lined paper, likely bleed-through from the reverse side of the page.]*

June 1. Anchored early this morning in a cove N. of  
Helmsken Island to wait for the ebb tide, the wind  
having died away. Off again at 5 am. a heavy all  
day to windward, part of the time against the flood  
tide which scarcely allowed us to make anything.  
Wind strong westerly & cold, though cloudy no rain &  
high barometer. Little to do but read, eat, & walk  
the deck wishing we could get along a little faster.  
Remarkable absence of life, scarcely a gull or other  
water bird, no seals, porpoises or whales. The  
great depth of the water may in part account for this.  
The Vancouver Shore still steep & very mountainous  
tree-clad mountains rising in many places at  
once from the water's edge to a great elevation,  
& still bearing some snow. Extensive valleys or  
rather deep persistent valleys, but narrow run  
in from Salmon River, Adams River, & Robson  
Bay of the Chart. These appear to take a general  
south easterly direction, which is also that in all  
probability of the axes of the mountain ranges.

June 2. Fully calm early this morning & the  
tide turning against us, anchored in a little  
rocky light-fast cove of Beaver Cove. Set off again  
after a few hours, about 6 am. Almost a dead calm  
but floated on past Alert Bay, where ~~westward~~  
west Hudson are the well known traders of  
this coast line. It has a few houses, a wharf, & near  
him is a rancherie with a number of Indian houses

Handwritten text, likely bleed-through from the reverse side of the page. The text is extremely faint and illegible.

Handwritten text, likely bleed-through from the reverse side of the page. The text is extremely faint and illegible.



of the usual build. Most of the Eskimoes now up  
Knights Lute Eulachon fishing & pot-latching. The  
Nunpikish Indians here moved over to Hudson's place  
on Carwasant Island, from their old ~~place~~ ground  
near the mouth of the Nunpikish River.

Becalmed & tide setting against us just west of  
Carwasant Island. Followed out by a canoe  
from Alert Bay, which proves to contain a white  
man & an Indian, the former has just arrived  
at the bay from his place of abode some fifteen miles  
further eastward. Brings a letter left for me by the  
other at Alert Bay, one from G. Hamilton of  
Stuart Lake which has been to Montreal & back  
again. Two fine deer in the canoe, one of which I  
purchased at the moderate price of \$150. They are  
killed & clog on the small islands, being run  
off into the water & shot swimming.

Anchor for some hours in the afternoon off point  
west of Nunpikish, waiting for the tide. Land &  
take a couple of photographs & spend the rest of the  
time fretting at our slow progress. Off again at  
4:30 beating up against a strong head wind which  
has blown up since noon.

The Islands now generally low & the land  
along shores of Vancouver also much lower than  
before though not so regularly flat & even as that  
about Comox for instance. High mountain ranges  
seen up the Nunpikish Valley beyond the large lake  
slate bearing much snow & probably always carries  
some.

*[Faint, illegible handwriting on lined paper]*

Some fine Douglas firs on Carmonant Island  
a distance about here but prevalent trees the  
Weniger Spruce & Hewlock, with some Cedars etc.  
There obtain a fine growth but than the woods are  
by 20 years appropriated till they can be compared  
with some object of human construction, such as  
a house or vessel.

June 3. Off early & floated westward with the  
tide, there being no wind - beyond the end of Meladen  
Island. Sailing heeled at about 5 miles from  
the Vancouver shore - the nearly 1 Am. when a light  
air began to spring up. Had the large dredge over  
& brought up some sticky green sand & two or three  
little white stars. Tried the small dredge but did  
not get bottom owing to the Current. The light  
wind being up, stopped dredging & tried to get on  
our way. Wind freshened in the afternoon, but  
as always, dead ahead & hating against it  
port Fort Rupert & into Solitas Channel.  
When off Fort Rupert the wind was quite strong.  
Came an Indian Canoe Saundig before it  
with a little sail & though pitching her ends clear  
of the water, apparently making good weather.  
She occupied us high spirits, on down on us &  
took in then sail apparently just to have a  
look at the Craft, then hoisted & flew away  
again.



The country from Annapolis up to North End of Island is all moderate low along shore & for a considerable way back. The hills nowhere of great height. Cool rocks may not improbably occupy a considerable area. Feel almost tempted to stay our slow progress here & get to work studying them out. After the interruption of the masses of crystalline rocks about Thurgate Straits or, the Channel between Vancouver & the main appears to open at part or southward in the Gulf of Georgia. The islands are low & the whole appearance like a repetition of the Cool basin to the South-East.

Calms & head winds are our luck it would appear & the barometer rises to promise of a change.

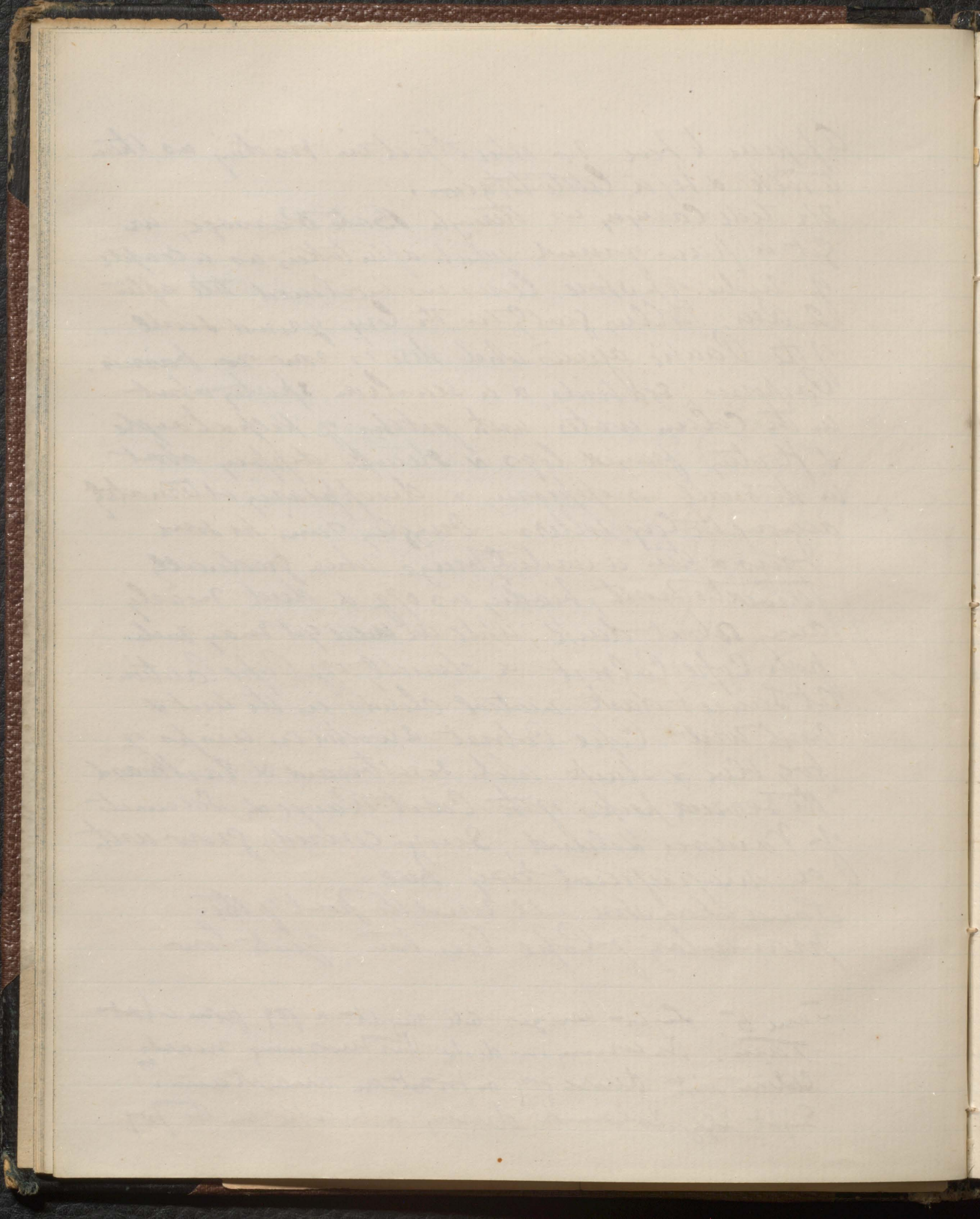
June 4. Beating up Giletas Channel all night with very light head winds. Stopped soon after daylight about 5 miles east of Stushartie Bay to get water. R. went ashore & got specimens of the rock. A fair wind of short duration carried us to mouth of Bate Passage. Boarded by a canoe with a couple of Indians, & a boy, which came off from a little cove, where an Indian House. One of the Indians a chief & calls himself Chip he is said to have saved the lives of several white men in a little vessel near Fitzroy Sound. The Indians were about to massacre the crew when he warned them. A number of Indians were killed in the fray which followed.

The first two chapters of the book are devoted to a general introduction to the subject of the history of the United States. The author discusses the various factors that have influenced the development of the country, including geography, climate, and the actions of its people. He also touches upon the role of the government and the impact of the American Revolution. The text is written in a clear, concise style, making it accessible to a wide range of readers. The author's perspective is that of a historian, providing a detailed and thoughtful analysis of the nation's past. The book is a valuable resource for anyone interested in the history of the United States.

Appear to have no other object in visiting us than  
to talk & beg a little tobacco.

The tide carrying us through Bate Passage, we  
got a new ground which after taking us a couple  
of miles off shore leaves us becalmed till after  
12 P.M. When gullies in the long ground swell  
of the Pacific again which there is now no barrier.  
Porpoises, sea birds, & a sea-lion sporting about  
in the calm water with patches of kelp & tangle  
& floating decayed logs & stumps dipping about  
in the swell & appearing & disappearing alternately  
among the long rollers. Drizzling rain for some  
hours & then a westerly breeze which gradually  
turned to north, heading us off & died nearly  
away about dusk, while we were yet many miles  
from Cape Colnett & directly off Cape Cautin.  
At sunset dark neutral clouds in the west &  
north west Cape Colnett swathed in wisps of  
fog blue & dark, while southward & eastward  
the serrated peaks of the Coast Range & Secumts  
of Vancouver Island, snow covered, grow with  
a magnificent rose hue  
Sand along shore all round the point of the  
promontory of Cape Cautin, quite low.

June 5. Light breezes all night & fog from about  
Tain. In evening in dark this morning nearly  
calm with dense fog & position uncertain.  
Sight Egg Island during a break in the fog





after a time, & also when the mist began finally  
to clear away about noon saw some of the  
dangerous rocks of the Sea Otter Group, breeding  
nearly. A long low swell setting in from the  
Open Pacific causes a perpetual roar along the  
exposed shore to leeward, & from the outlying rocks  
great sheets of foam may from time to time be seen  
to rise. Getting at last a good side wind, run  
into entrance of Fitzroy Sound where steam utterly  
reclaimed & remain so till about dark when  
a light head wind coming down the Sound enables us  
to get under way again. The long swell setting in  
rendered our position most uncomfortable during  
the delay. The little craft rolling & tossing so  
far with all her souls bottoms & rolling & hopping  
in a most irritating manner. The weather  
has been throughout most adverse to our purposes.

Saw a few seal today. R. had the line out  
at 60 fathoms for Holibut but unsuccessful.

The land near the shore about Cape Carter is  
low as also is that of the island between the  
two entrances to Rici's Gulch, & the southern  
end & west & western margin of Polveret I.  
The southern however pretty evidently Cryst.  
& all the rest may not improbably be the same.

A sea lion is said to have come up quite close to the  
vessel last night, & "bellowed".

Faint, illegible handwriting on lined paper, possibly bleed-through from the reverse side of the page.

June 6. Nearly becalmed all night, but early in the morning got a light breeze in the right direction. This soon dying away left us again becalmed, & drifting out of Fitz Hugh Sound with the tide, which at present seems to have a permanent set outward. Got the boat ahead towing toward Safety Cove, when a good breeze from the north coming on, ceased towing & began heaving in. Breeze died away about sundown to a light air, leaving us again drifting outward with the tide. Ran back with the last of the breeze, then lay to anchor along the shore, to Safety Cove & anchored at ten P.M., thus losing again nearly all our day's work - a couple of miles at so.

A very fine day, warm & bright. Two curious piece of Indians from Kitimat en route to Victoria passed us while the westerly breeze was blowing strong. Each canoe with one of the peculiar sails, carrying along before the wind in good style. Saw a number of holes in the distance this morning, breaking repeatedly.

June 7. Morning calm & cloudy. While waiting for wind got a supply of fresh water & had a glance at the Crystalline rocks of Safety Cove. The tide nearly low & the most beautiful natural aquarium formed by the sides of the Cove, which dip steeply down in



the clear water. Sea Anemones of remarkable size & beauty. One variety bright green, a second, with plumose tentacles milk white. Star fishes barnacles & shells of different kinds coating the rocks. A light South Easterly wind springing up got anchor up & beat out of port. Ran for a while with a light fair wind, & then met a strong head breeze, against which halting for some time, till it veered westward & made a good side wind for running up the passage kept on all the afternoon making excellent time, & to some extent making up for the terrible delays of the early part of the voyage.

Felzhugh Sound & its continuation northward in Sisters Channel, constitute a magnificent water way; wide & free from dangers & straight as an arrow. The land immediately bordering it though hilly, or even in places mountainous is low compared with that at the sides of the higher parts of the inlet penetrating the coast. Range. No high snowy mountains are in sight ~~at~~ except at a great distance. Well & really alpine are densely tree clad, with cedar, hemlock, spruce, spruce hemlock & cedar in one <sup>or more</sup> mountainous spread. The trees do not attain a very great size, & there are many dead trees in the woods, even where no fire has passed. No appearance of any land fit for agriculture, nor of any rocks except the old crystalline series.

Discript

June 8. Worked up a few miles during the night  
 & this morning in entrance of Tanna Passage  
 displaying with the tide, and by light-bell morning  
 but continued to progress slowly, aided by the tide.  
 At noon got a south easterly breeze with rain  
 which carried us into Bella Bella (Mr. Lochlin  
 Bay of Charts) Found Mr. M'Ka had gone on  
 to Fort Simpson so unable to present my letters  
 of introduction or see the local Col. M'Keay  
 was anxious I should visit. Schooner did not  
 anchor but after I had completed a short  
 visit to the H.B. Post, & given the gentleman in  
 charge a couple of letters for the other on her down  
 trip, filled & stood on with a light but fair  
 breeze, anchoring in Kyrnump Harbour  
 Mullbank Sound.

The H.B. post at Bella Bella prettily situated  
 on a sloping hillside. A small stream coming  
 from a lake behind the Post, falls into the  
 bay near it. A little sloping patch of garden  
 for which most of the soil was, I am told,  
 carried from some distance. A number of  
 Indian houses & shanties, & a little flotilla of  
 Canoes anchored off. A remarkable target  
 like white Indian on one side of the harbor  
 stated to be (on a painted board below it) to be in  
 memory of "Boston a Bella Bella Chief" Partly  
 the design on the target a couple of the curious  
 Coppers of the Fort Rupert or Indians.

*[Faint, illegible handwriting on lined paper]*



A very large canoe here, now being finished. Said to be 60 feet long & much better finished than that sent to the Centennial. Valued at from \$150 to 200 & the Indian who made it expects to be able to sell it to the Fort Rupert Indians for that sum. If little real use but imposing on State occasions.

Bought a basket of Clams from one of the Bella Bella Indians. Cleaned out some for specimens & had part of the rest in chowder for supper.

Visited by a canoe full of Haida Indians on their way to Bella Bella, a three days from Skidegate. They bore besides dried fish & fish oil for trade with the Tlichoos when they get to Victoria, some gulls eggs from rocks outside a young deer. Bought from one of them some fossils which he had been taking to Victoria on chance of seeing Mr Richardson there. He had looked for Mr R. when he was on the island.

There were canoe loads of Haidas on the way also on their way to Victoria very far behind.

Had the line over tonight in about 6 fms when anchored. On hauling up found a large sea urchin & star fish and dropped off at surface disclosing the head & shoulders of a silver dog fish - a parrot beaked little dasybranch of remarkable appearance. This fellow had taken the hook & then been snapped off behind by some larger fish, probably

The first thing I noticed when I stepped  
out of the boat was a cool breeze  
that felt like a warm blanket. I had  
heard that the weather was perfect  
and it was indeed true. The sun  
was just starting to set, painting  
the sky in shades of orange and  
pink. The water was calm, reflecting  
the colors of the sky. I took a  
deep breath and felt a sense of  
peace. It was exactly what I needed  
after a long day of work. I had  
heard that the weather was perfect  
and it was indeed true. The sun  
was just starting to set, painting  
the sky in shades of orange and  
pink. The water was calm, reflecting  
the colors of the sky. I took a  
deep breath and felt a sense of  
peace. It was exactly what I needed  
after a long day of work.

As the sun set, the sky turned  
a deep red. The water was still,  
and the air was so fresh. I had  
heard that the weather was perfect  
and it was indeed true. The sun  
was just starting to set, painting  
the sky in shades of orange and  
pink. The water was calm, reflecting  
the colors of the sky. I took a  
deep breath and felt a sense of  
peace. It was exactly what I needed  
after a long day of work.

a shark. The star fish promptly appropriated what was left. There would seem to be much activity in the struggle for existence down below.

June 9. Off from Kynmupst Harbour early, first with a very light breeze, which freshening carried us at last round the rocky islands off Cape Day, & out into the wide Pacific. The long swell breaking furiously on the rocks as we pass them. Six or eight miles off the land the wind going down left us rolling & making a little progress at intervals, westward during the night.

When inside Cape Day saw something worry on the surface of the water which at first I took for a shark's fin but proved to be a deer swimming from the south to the north shore of the sound. Willacious & R. jumping into the boat dashed after it & succeeded in turning it before it reached the south shore - to which it endeavored to return - drove it off the bearing down on it with the schooner, I shot it from the deck. A young doe not fully grown but in fair condition.

June 10 rolling miserably in the swell without wind for some time, wind then rising got off



westward & ~~made~~<sup>saw</sup> the land near Cape St  
James before night. Wind freshen west on  
the other tack to get to windward of the Cape.  
Blew hard all night rising to a gale with  
a very heavy sea before us. Found us  
about thirty miles northward. Up during wind  
of the night scary the Chard & trying to preserve  
thru the cabin from coming to grief as the floor  
from side to side.

Thurs 11. went round on the other tack ~~at~~  
at 8 AM this morning expecting to make Cape  
St James. Weather very heavy, but wind  
gradually freshened till land well in sight  
ahead it - left us. Rolling & tossing without  
any wind all the afternoon, in a heavy pitching  
sea. Had the Holibut live over but could  
get no bottom with 90 fms. Breeze from  
westward springing up about 8 PM got under  
way toward the land.

Faint, illegible handwriting, likely bleed-through from the reverse side of the page.

Faint, illegible handwriting, likely bleed-through from the reverse side of the page.

Descript

June 12. Up early this morning to see Cape St James  
& the Southern end of the Queen Charlotte Islands. Took  
a sketch with bearings. Wind fell very light before  
we made the point at the Southern side of the bay leading  
in to Houston Stuart Channel. Beating slowly in all  
morning. Afternoon about 3 P.M. Anchored in snug  
bay behind Ellen Is of the plan. Took a couple of  
photographs & made cursory examination of rocks of  
vicinity.

Weather remarkably fine, warm & summer-like but  
provingly little wind for sailing.

Where we are anchored in a snug little bay, rocky  
islets thickly lie clad down to the shore, with the  
wooded mountains of the N side of the Channel  
make a picturesque scene. An Indian house  
on the shore but has evidently been inhabited  
for some time. See no signs of Indians. Rowed  
round to bay in which village marked on the  
plan, in the evening, but found only the marks  
of some old houses.

The appearance of the land about Cape St James  
very remarkable. Mountains, fully southward  
toward the Cape, & often joining the sea in bold  
cliffs. The little chain of islets off the Cape are  
vertical land, with rounded tops, bare of trees &  
apparently the same variety. See part. Even the  
smaller rocks of this group bore the same remarkable  
part-like form. Noted a natural archway in





the rocks of a promontory a short distance  
south of Hauler's strand entrance. Another small  
group of bare white sea washed rocks lie four miles  
off shore west of the entrance - the Danger rocks  
of the Chart.

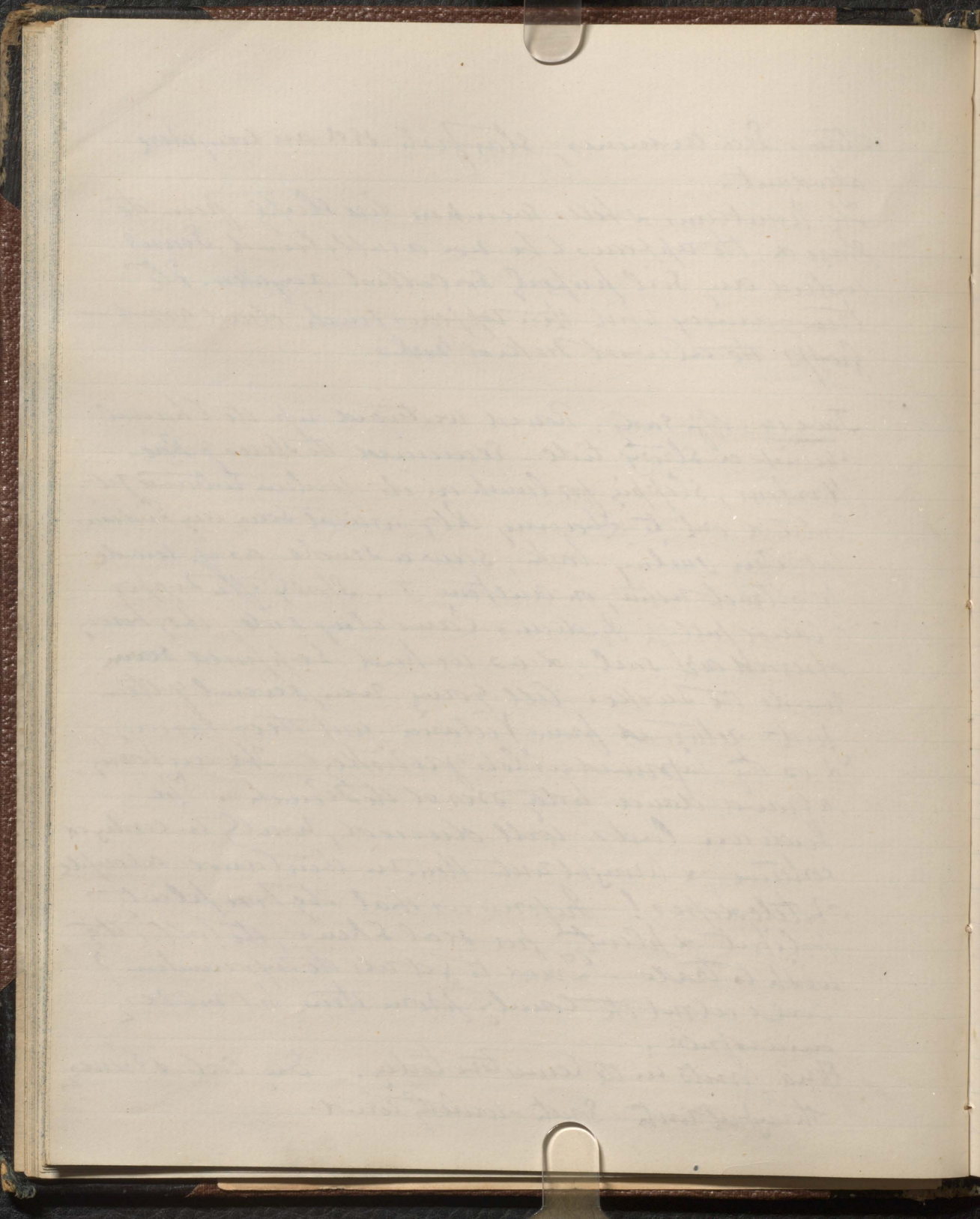
June 13. Breakfast at 6 am. & off with Williams  
Chailey & R. in the boat. Explored the Southern Shore of the  
Channel & Bay as far as Outer Pt. Rain set in shortly  
after we got away & continued with little intermission  
throughout the day, soaking us & making it disagreeable.  
Landed at a cove a short distance inside outer Pt.  
& returned in heavy rain. Stopped at several fall  
populated rocks & depend them of their eggs, which  
- those of them which were not half hatched - made  
an agreeable addition to our supper. Saw many  
Seals, a few porpoises, some Eagles & immemorable  
little Black & white Gullinettis (?) & a few  
pairs of a black bird with long bright red bill.  
No Indians appear, nor here we met with any  
recent signs of their habitation, which is at  
least odd. The very abundance of gulls eggs on  
rocks so easily accessible, would seem to argue  
their prolonged absence.  
The rocks everywhere about this passage are crusted  
with acorn shells & the large Mussels, between  
tide marks, with occasional patches of Lepas (?)  
&c. Below high water mark in some places  
the large urchins are very thickly strewn over the

Faint, illegible handwriting covering the page, possibly bleed-through from the reverse side.

bottom. Sea anemones, starfish etc are everywhere  
abundant.

The mountains & hills somewhere are steep from the  
shore & the appearance is no arable land. Scarcely  
indeed any soil properly so called anywhere. The  
trees - many which there appears much dead wood -  
grow the almost naked rocks.

June 14. Off early. Rowed westward up the Channel  
against a strong tide. Examined the shores of Rae  
Harbour, stopping for lunch on its western entrance pt.  
Continued out to James Pt, without seeing any Indians,  
but when sailing back, saw a sloop as if made  
to attract notice, on Anthony I. Shortly after supper  
a canoe full of Indians came along side, they having  
observed our sail, & as we had supposed ~~seen~~  
made the sloop. All young men, several of them  
just returned from Victoria with their families,  
& as they informed us "Cob-y-wiskee," they are having  
a grand dance today over at the Ranch. The  
Indian men had well dressed, with in civilized  
costume, & brought with them in their canoe a couple  
of telescopes! Informed us that they have plenty  
of blubber & plenty of seal skins, the latter they  
wish to trade. Tried to get all the information I  
could about the country from them but we were  
unsuccessful.  
Found frosts in the temperature today. Day cool & showery,  
throughout with south-westerly wind.



June 15. Off dredging all morning in the Strait opposite  
our Harbour. Dredged down with the tide which running  
strongly, with the drags rope over the bow. Bottom chiefly  
shelly & very clean. Got a number of interesting things though  
much dead stuff. Many beautiful bryozoans, some  
Corals, & one species of brachiopod. (*Ferobrorella?*)  
After lunch set out to look for fossils about two miles  
westward, opposite the mouth of Pine Harbour. Efforts  
Crowned with unexpected success, finding *bellianulites*  
*auriculatus* & *Sopfia* at least 6 feet to the west of  
the former fossils which have been examined as  
Durogore & smaller than the corals with those of  
other localities.

Windy & very fine, but becoming overcast & finally  
cloudy over with occasional showers & heavy fogs.  
Mr. Sestant ready to take latitude at noon but  
no chance, & must now leave without getting it.  
A canoe with two men a woman & a boy came in  
tonight. They are Eskimo from Iola Harbour. They  
offered to catch us some fish, but on returning the line  
which they had borrowed for the purpose brought out  
three *Skepinus*, & three other very small fish. They  
are going tonight to make a fire in some woods  
marked to by sea-birds & club them as they fly  
past, disturbed in their slumbers.

June 16. Got anchor up & schooner under way  
& then followed the Strait, examining it & making  
many soundings round the west inlet. The schooner

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

had come to an anchor in a snug cove on the south side before we caught up to her, shortly after noon. Being Sunday, decided not to do any work until today, this especially as I have a headache owing to loss of sleep from mosquitoes last night. Day for a the swell on the outer shore not too much to prevent easy landing.

June 17. Heavy rain in the night, & southerly wind. Warm still forecast & showers. Made a rather late start, & occupied till after 4 P.M. in making a daily survey & examination of the shores of this as yet to me nameless inlet. Rocks uninteresting, & the day on the whole not pleasant, a sea-poll in making landing on the outer points difficult. Saw great numbers of seals today playing in the water & com on the rocks. Some mothers carrying their young on their backs, the two heads coming up out of the water together in a most amusing way.

June 18. A dull threatening wary which soon fulfilled its promise by beginning to rain. Rain & wind in squalls, with low clouds & flying sand on the mountains all day, the monstrous fog still continuing, as we swung too & fro with the wind changing at anchor. Worked down the coast from last anchorage to Harriet Harbor of Peel, in Skincutle Inlet. Some difficulty in landing on the exposed outer points. The Schooner sailing land in the meantime met us at 1 P.M. & after being for

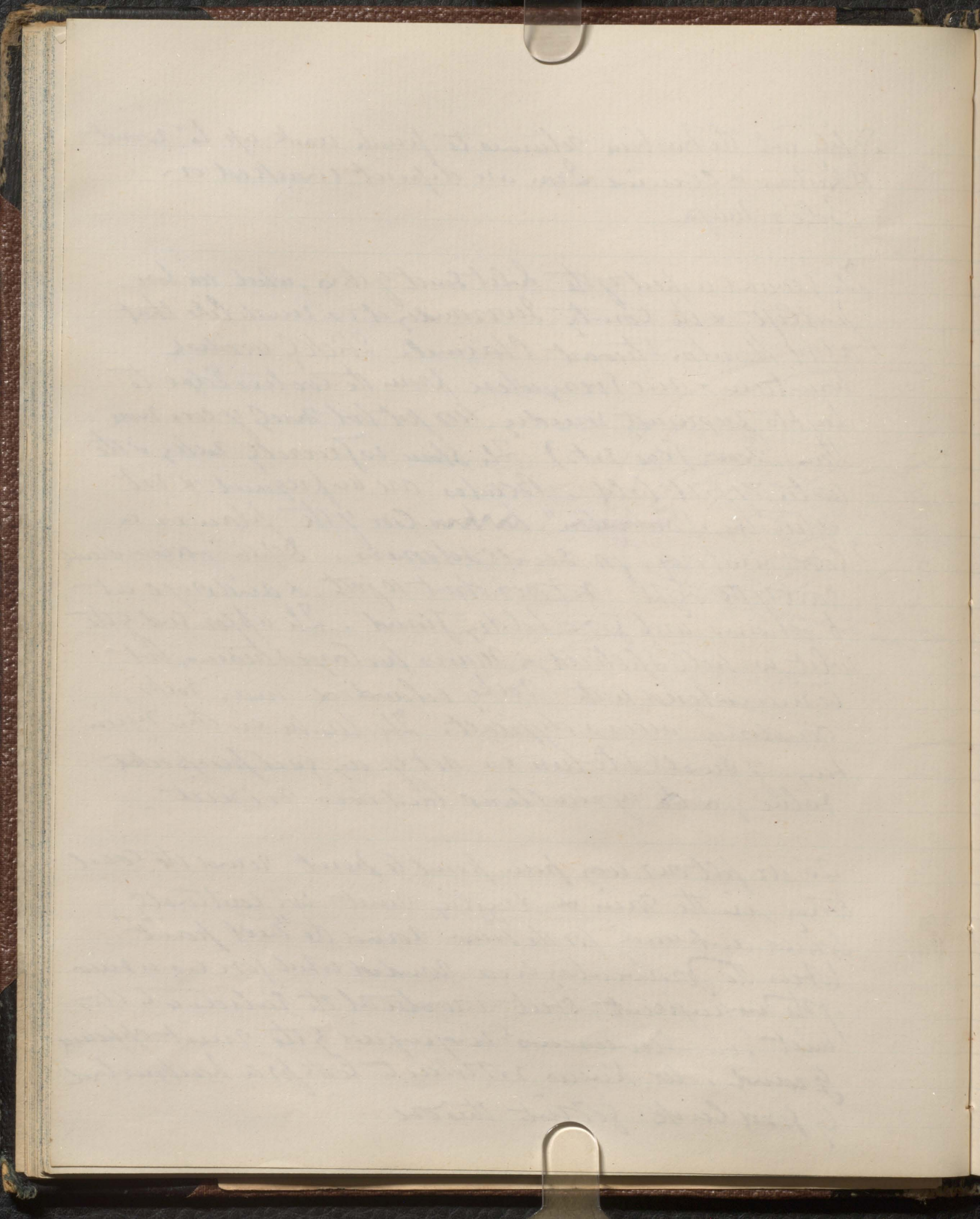
Descript



Safely into the harbor returned to search work up to coast  
of harbor & examine Inan are deposit marked on  
Boole's Map.

The general aspect of the inlet south of this, which we have  
just left, & the County Surrounding it is much like that  
about Hamilton Stewart Channel. Thick wooded  
Mountains rise everywhere from the western edge to  
east to frequently exceeding 1000 feet but rarely if ever more  
than 2000 (eye est.) The shore is generally rocky & the  
water of it bold. Beaches are infrequent & not  
extensive. "~~Saltwater~~" <sup>South</sup> ~~harbor~~ <sup>harbor</sup> ~~in~~ <sup>in</sup> the plan is a  
good anchorage for small Schooners. Depth of a considerable  
part of the right side does not start 10 feet, & a windrope at  
6 fathoms with good holding ground. The upper end of the  
inlet is well sheltered, & runs two large streams, but  
is unimproved with rocky islands & many rocks,  
rendering access difficult. The bottom in the region  
being of small stature is not of any great prospective  
value, & the agricultural land does not exist.

As we felt our way from point to point round the coast  
today, in the rain & drizzling mist we continually  
looked around for the new round the "best point".  
When the promontory was rounded which gave us a view  
of the magnificent sheet of water at the entrance to this  
inlet, the numerous inequalities of the coast appeared  
grand. We knew not where to look for a harbor but  
by good luck got into this one.



June 19. Heavy rain during the night, & morning  
opened with a steady downpour & light southerly wind.  
Delayed starting out for work, for some time, but  
at last tempted to go by an appearance of clearing  
up. Worked along a few miles of coast under  
great difficulties, the rain recommencing almost  
immediately after our departure & continuing very heavy,  
with waves of mist which prevented anything but  
the land in its immediate vicinity from being seen.  
Decided to give up survey for today, & go back to  
Stover. Chilled & wet through, for very little.  
Land which began to rise about noon soon inclined  
to a fall, which has since continued coming in  
very heavy squalls over the mountains which rise in  
our little harbour. Rain looking through the cabin  
ropes renders our abode far from comfortable.  
Reading & attending to other "house" work during  
afternoon.

The Schooner has gradually dropped from her first  
position, under the influence of the tide, to a place  
nearly in the throat of the harbour, & though both  
anchors are now out, with plenty of cable, she  
seems uneasy as the squalls strike her, & leaves us  
no without fear that ~~she~~ she may drag outside  
altogether & force us to take to the open. Some of the  
squalls actually carry the creels from the little wharves  
in this harbour & scatter them before in a cloud of spray.  
The holding ground cannot be good, & is probably a  
fine sandy floor of granitic fragments, like that composing  
the little beach near us.

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

June 20. Continued examination & running survey  
of coast westward up the inlet. Finding the entrance  
of a large bay, as it proved - though it looked at first  
a possible passage - obliged to go far enough to prove  
its character, which took up much time. Came upon  
a rock around which the tide was rising, quite covered  
with seals. Thus on our approach, to the number of 200 or 300  
straggled up rapidly into the water. Soon they appeared  
again, heads bobbing up in all directions to get a  
look at us & then sinking again.  
A stormy disagreeable day.

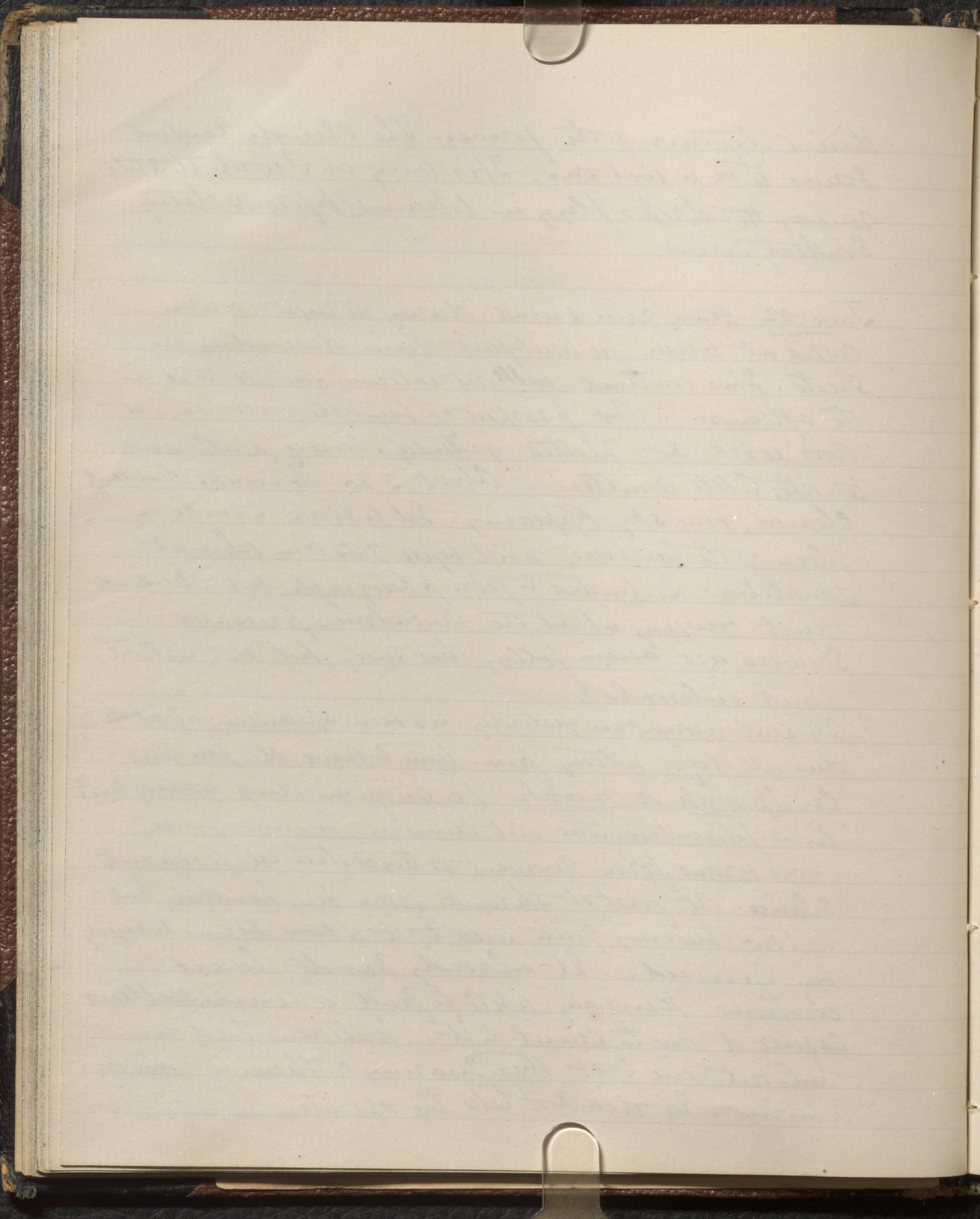
June 21. Ran west the wind to the outer Islands at  
the mouth of the inlet, & examined the group upwards.  
Then sailed across to point at N entrance of bay  
& continued examination of coast westward.  
Found the abandoned Copper mine which Poole  
Superintended years ago. Little sign of iron that  
human beings ever inhabited the spot.  
Fished a couple of rocks en route today from which  
a few gulls eggs - very acceptable at supper -  
were obtained. Wallicus caught on a rock a young  
seal put down, with the placenta still hanging from it.  
The little fellow is quite active & seems well  
able to take care of himself though I gave him  
no food sent out for him.  
Got back to Schooner after a long run against a  
head wind across the bay, at 6:15 P.M. A day of  
rain & cold wind, heavy snow burst being the



three categories of the former. The clewote indeed seems to be a wet one. This being as I recall it still rains, the drops plying in columns before a strong southerly wind.

June 22. Heavy rain & wind during the night, & when called at 6 am. for breakfast rain descending in sheets. This continued without intermission till 3.30 in the afternoon. No prospect of being able to do any outdoor work so plotted yesterday's survey & attached to other little matters. About 3.30 the weather suddenly cleared, blue sky appearing. Set to work to make a plan of the harbour, which before 7.30 was almost completed. Intended to get a photograph, but clouds & mist hanging about the mountains prevented. Showers are again falling this evening, but not without brief intervals.

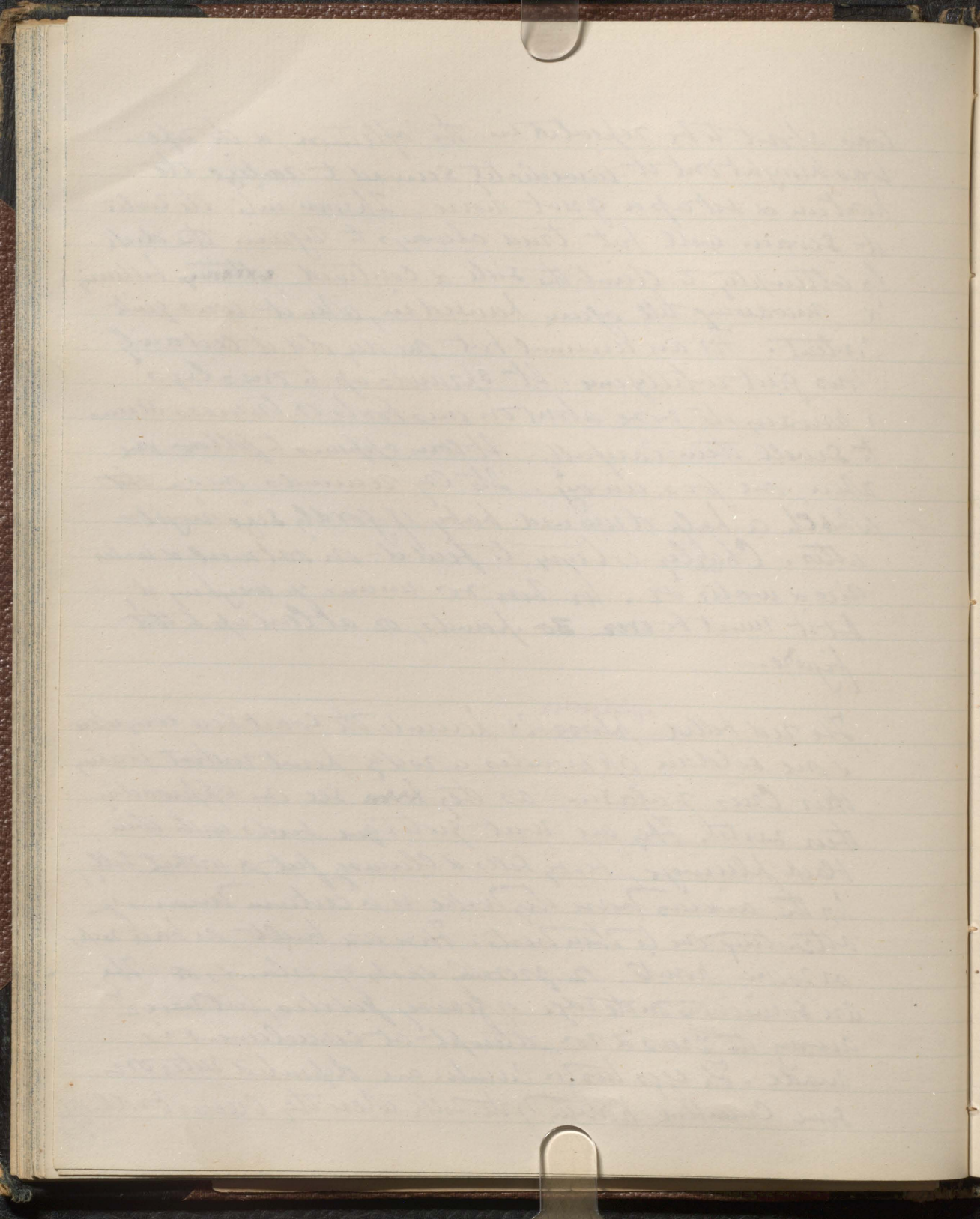
The seal brought in yesterday has been sprawling about the deck all day, uttering from time to time its peculiar cry of wah or muwah (a sort of gurgling watery na) in a plaintive tone. At times it becomes quite vociferous for a moment or two then relapses into silence. At first it shrank from being handled, but is now becoming quite used to it & even seems to enjoy being carried. It already has its lips & denticles, knowing when to find a warm sheltered corner & how to crawl to it. William tied a halibut line to it this morning & threw it over for a swim. It did not like the operation, & when it





was about to be repeated in the afternoon, & the rope  
was brought out it immediately seemed to realize the  
position & set up a great noise. Thrown into the water  
it swam well but tried always to regain the deck  
by attempting to climb the side & continued ~~extreme~~ bellowing  
& mewling till again hauled in, when it was quite  
content. For an animal but one day old it certainly  
shows great intelligence. It sprouts up to ones legs  
& paws its nose about on ones boots or trousers seems  
to smell them carefully. It soon appears to follow one  
when one goes away. Its cry reminds one of that  
which a half drowned baby of forlorn size might  
utter. Charley is trying to feed it on oatmeal & water  
rice & water &c. We have no means of weighing it,  
but it must be over 30 pounds, or at least up to that  
figure.

The red bellied <sup>or grey</sup> ~~plum~~ <sup>catcher</sup> (~~?)~~ haunts the coast here everywhere  
& one seldom approaches a rocky point without hearing  
their cries of alarm as they ~~hear~~ see one approaching  
their nests. They are not grotesque birds with their  
black plumage, heavy bills & clumsy feet & without bill,  
for the anxious voice they make is a certain means of  
attracting one to their nests. They are built on bare rocks  
or rocky points, or gravelly spots of islands &c. They  
are sometimes on the edge of grassy patches, but never  
among the grass & no attempt at concealment is  
made. The eggs laid in number are deposited rather on  
some crumbled portion of the rock when they cannot well do,



or in a hollow nest, if said it may be called, formed  
of some small rocky fragments collected together, or of  
broken & rounded pieces of shell from the beach. In some  
cases the nest is conspicuous from being entirely composed  
of shelly fragments. The birds themselves, though evidently  
found generally, go in little flocks feeding together on  
the shore at low tide. When disturbed they set up a  
sharp chattering which they continue as long as they are on the  
ground, but when on the wing. Even at night when near  
their abodes one can hear them near several together  
in conversation, as though they had been awakened by  
some disturbance. Their flight is rapid & undulating  
& when at rest on a rock they frequently sit closely  
down on the ledge, doubling their legs under them.

June 23. up at usual time & after breakfast got  
anchor up & schooner away for a little way about 6  
miles off near the entrance to Barnaby Strait. Set  
to work in boat pursuing plan of Harriet Harbour.  
Next went across to point of Bolinas Is. & made  
examination & wrote diary of there. Showers began  
in the morning continued to occur with greater frequency  
& the day soon became an unquittingly wet one  
drizzling showers with squalls blowing such a squall  
out of the south-west with scarcely any intermission  
soon became soaked, chilled, & disgusted & glad to  
reach the schooner, which we did about 1.30 P.M.  
Afternoon terrible wet & showers still frequent &  
very heavy. Mountains all shrouded in mist & the  
ground very wet & then rising in force, began to blow

*[Faint, illegible handwriting on lined paper, possibly bleed-through from the reverse side.]*

in the rigging. A good fire makes the cabin endurable,  
but even now difficult to get clothes dry or keep up  
a sufficient quantity of dry boots & socks. The  
continuation of this wet weather soon begins to hurry  
us home, unless we can do so much with  
our work.

July 24. Heavy clouds, as usual, but with high  
barometer & appearance of clearing, a promise of a  
better day. Set off without standing light-stowers, to  
explore Bernal's Strait, & found its opening through  
into a wide expanse with many deep bays & islands.  
Got out far enough before turning to satisfy ourselves  
that an opening probably exists through to the west, & another  
would to the east, & that it will be safe & desirable to  
bring the Schooner through tomorrow to some anchorage  
as a base for the exploration of the new region. About 1 P.M.  
the showers which for some time had been increasing in frequency  
& duration coalesced into steady rain which continued,  
giving however all the time with strong South westerly  
wind during the rest of the day. About ten miles from  
the Schooner when we turned & had a hard tussle  
against the wind & driving rain all the way back,  
getting in after 7 P.M. Cold & wet to the skin. Scarcely  
possible often to see one point from another in taking  
bearings & almost impossible to form any correct  
estimate of distance, or to examine the rocks properly  
with the telescope all day.

descript

In passing through Dolomite narrows afterward find the channel both narrow & crooked with only six to eight feet of water at low tide, probably less at Springs. Tidal Current not very strong.

July 25. Heavy rain continues nearly all night & on awaking this morning the gales still continues on the deck. Rain continues descending in an uninterrupted deluge all day with heavy squalls of wind, rendering out doors work impossible & rendering it advisable not to wear the Stormer from her parent shelter in "Jangle Cove"

Tried fishing, but with poor success, getting only a couple of *Silurus* & two Croaks the latter however of an edible size.

Jangle Cove. Is a good anchorage for a small schooner, well sheltered from winds & not too deep. The center of the channel between the islands is however occupied by a rock which dries at low water, & must be carefully avoided.

Harriet Harbour is good, even for large vessels, which should enter at the west entrance, keeping nearer to the west shore than to that of Harriet Island, from which shoal water & rocks run out some distance.

The narrows of Bernaby Strait of Porte may be called Dolomite Narrows. They are partly blocked by rocks but may probably be passed with safety by small schooners.

The openings running westward to the South & North sides of the narrows are probably both good harbours, though no soundings were made. The latter especially is very roomy & well sheltered, & might accommodate a large fleet.

All the waters about this end of Bernaby I. should however be navigated with great caution as there are many rocks scattered about, a large proportion of them covered at H.W.

my h surface

trus

flotland

weston back

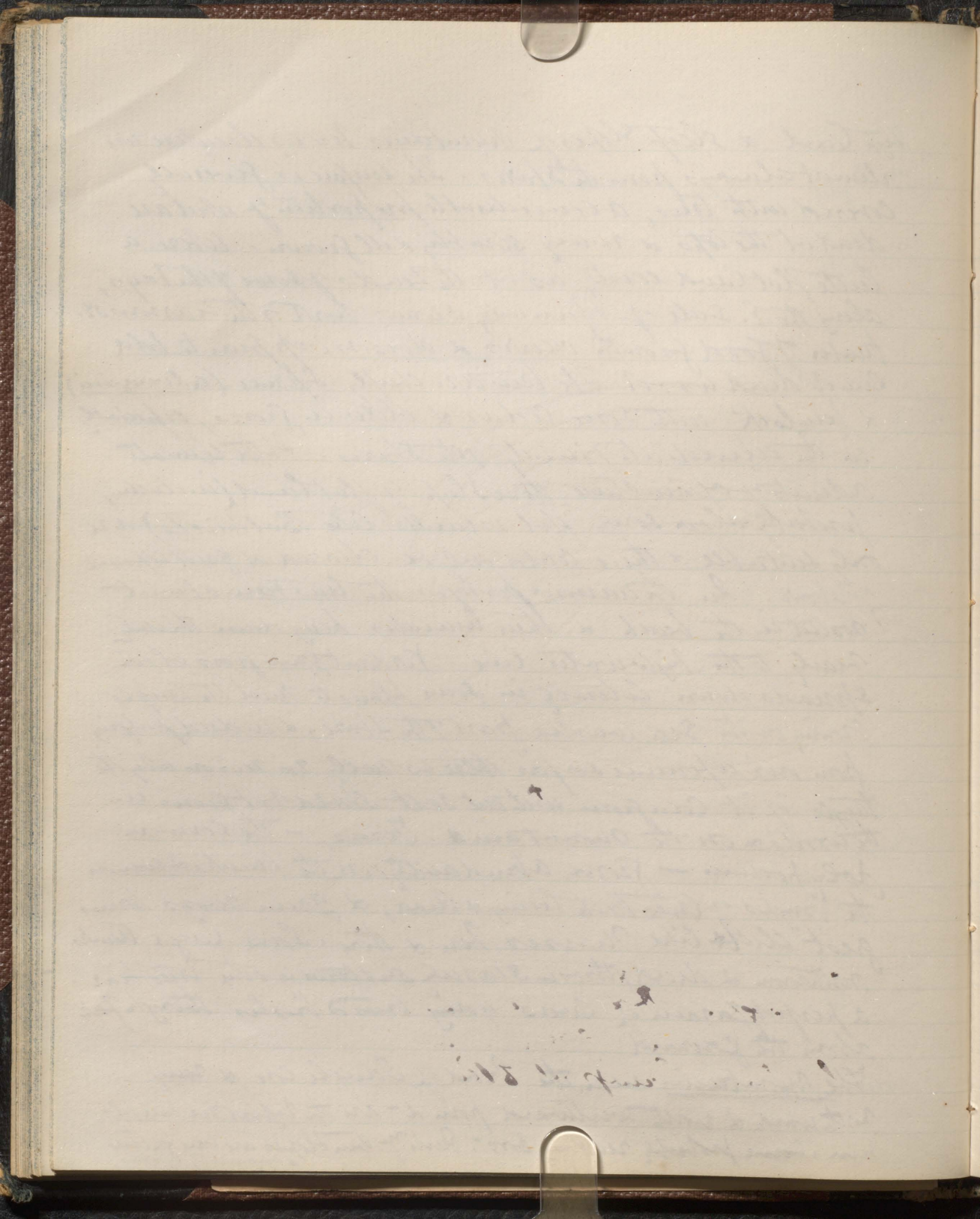
Hyphal myk  
with thicket

antennas



High land & steep slopes of mountains here as elsewhere are almost always from the shores. The surface is generally covered with trees, a considerable proportion of which are dead at the tops & many scrubby & ill grown. Where a little flat land exists, as at the heads of some of the bays, along the E. side of Bamatz Strait north of the narrows, timber of good growth occurs, & does not appear to hold much dead wood. The trees are chiefly Spruce (*A. Veitchii*) & Hemlock, with some Cedar & Alder in firs, especially in the immediate vicinity of the shores. If the climate admits of agriculture these slopes of flat land (including probably also some flat islands like Bolkhai I.) are only suitable & these could only be cleared at great expense of labour. In the narrow passages the trees here almost rooted in the beach & their branches hang down thickly nearly to the high-water line. Verdant ferns grow also spreads down laterally in some places to meet the tangle growing on the sea washed part of the shore, & indeed judging from our experience so far there is really no reason why the tangle if it can grow without salt should not grow in the woods & on the mountains. Ferns, - the common *Joly podium* - grow abundantly on the mountains & on the trunks of trees both living & dead, & Green moss forms great clumps like *Mares* here & there. Some large trunks overgrown & dead, though scarcely sheltered by other trees bear a perfect garden of moss young trees & bushes though far above the ground.

The mountains near the head of Jangle Cove, & many northward & north westward from it - are the highest in the island. Some probably reaching 3000'. Parts of their slopes are bare of trees, & apparently barren!



June 26. Heavy thundery with heavy showers & violent squalls. Got away with schooner after breakfast & sailed down the narrows, hoping to pass without any difficulty. Anchored just before the narrowest part & went ahead in the boat to examine it. Found loose rocks & many rocks & as tide falling & current against us was judged prudent to wait till the water deeper & on the rise. Afternoon did some dredging but did not find any very productive bottom. Caught a great number of crabs, with a hoop rigged with netting baited & put overboard. Got a photo. of the narrows between shores at about 5 P.M. Tried to take terrestrial at noon, but clouds interfered. Heavy & heavy showers with squalls all day but some patches of blue sky now & then & better appearance of clearing than for some time back.

June 27. Heavy rain in the night & early morning, rendering the character of the day so doubtful that headgear was not ready till 7 P.M. Showers still continue, but barometer rising, & appearance of clearing. Take provisions for two days & blankets, thinking it probable we may get so far from the schooner that it may be hard not to return. Measure a base with M.S. & carry survey & triangulation down the passage. Day broken with occasional heavy showers, but on the whole a great improvement on any for a long time. Camp at 5 P.M. on a contracted little, gravelly beach between rocks. Boat anchored out in front.

Descript  
Cleveland

Try to get skin on Idaris, but thought seen at  
first, by two instrument nearly concealed. Taken in  
at 11 am. a fair night but cloudy & with plenty  
mosquitoes about.

Passages & channels seem to open out in all directions  
with innumerable islands, forming a puzzling maze,  
especially when only half seen through misty clouds &  
rain.

June 28. Up early & off after breakfast. Spend much  
of morning concluding a great bag which unexpectedly  
opened out. Stopped at 11:30 & made arrangements to  
get skin on Sun, which fortunately successful. Got also  
two photographs looking up the Channel. Came back to  
schooner in the afternoon went up the log under sail  
making good time. Looked out to place for the schooner.  
Go to at next noon, with work for the boat along  
the west side of the inlet.

Day almost altogether fine, only a few stray drops  
falling on us at one time. Seen out for considerable  
intervals. The byter went almost the contrary state  
barometer continue rose or less shrouded & showers  
of rain are evidently falling away them from time to  
time. Looking out on the open sea to the east, the sky  
is evidently quite fine, with scattered Cirro Stratus  
clouds & not a drop of rain falling. The area of  
great precipitation appears to be pretty local & to center  
in the western range of hills of the islands.

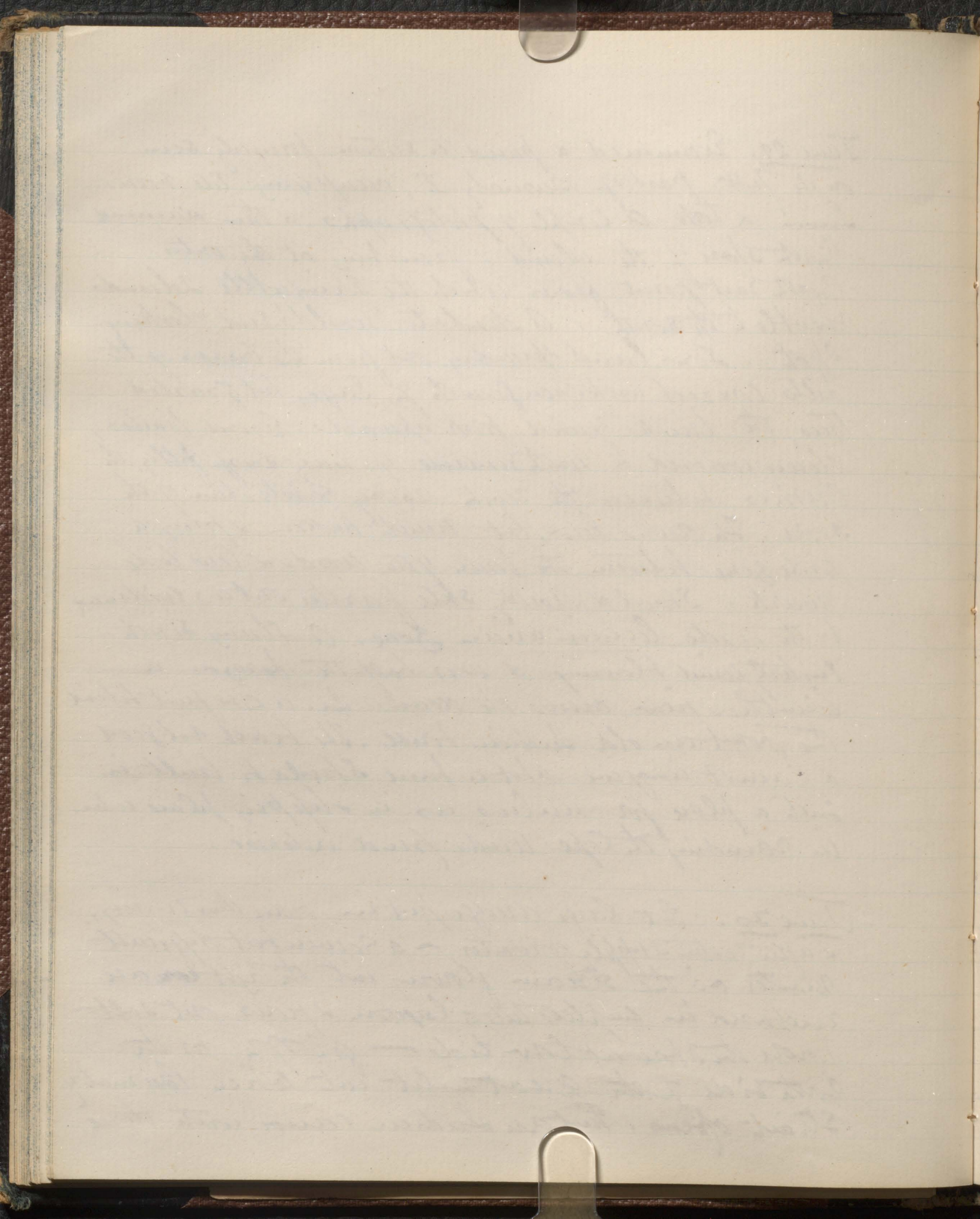
The first thing I noticed when I stepped  
out of the morning mist was a  
soft glow of light that seemed to  
illuminate the scene. The air was  
fresh and cool, a perfect  
contrast to the humidity of the  
city.

As I walked along the path, I  
felt a sense of peace and  
tranquility. The sound of the  
water flowing in the stream  
was soothing, and the  
scents of the flowers and  
leaves were intoxicating.

I had never before experienced  
such a sense of calm and  
well-being. It was as if the  
world had slowed down, and  
I was finally able to  
take a moment for myself.  
The beauty of the place was  
unbelievable, and I knew  
that I had found a special  
place.

June 29. Examined & paced a section formerly seen  
on the N.W. part of Burnaby I, occupying till room.  
Lunch, & took a couple of photographs, & then examined  
North Shore of the island, starting at the outer  
North East point, from which the Skinnutle Islands  
visible to the south. A desolate "World's End" looking  
spot. Low land spreading out from the bases of the  
hills covered with open growth of larch, but scattered  
trees, the trunks of which fork upwards. Gravel beaches,  
clean washed & with evidence of heavy surf filling the  
crevices between the rough rocky & stratum of the  
shore. The rocks low, but much broken & forming a  
wide zone between the border of the woods & low tide  
mark. Stood & rookly site further out as evidence  
by the wide lacustrine zone. A strong south-  
easterly wind blowing & over half the horizon a  
limitless view across the ocean. In a cove just behind  
the point an old Indian house. The beach not good  
& cannot imagine what a fine strait be built in  
such a place for vessels as a stopping place when  
in rounding the Cape Wards find a home.

June 30. Got large dredge put in order this morning,  
& after getting supply of water - a somewhat difficult  
matter as the stream flowing into the right one are  
anchored in cuplets but a canyon & flows out salt-  
upon the shore at low tide - got off for the  
North side of the great inlet into which Burnaby  
Strait opens. Put an Indian canoe with three





men, two women, & three dogs, the first we have seen  
since leaving Newton Stewart. They are going to gather  
eggs on some of the nesting rocks & have come from  
Clue's to the north. They had a dead seal on board,  
which was apparently supplying food for the Crowd.  
Got a cast of the dredge in 70 fathoms, bringing up a  
few good shells. Intended getting more dredging on  
the way across, but sounding in the middle got  
94 fathoms, no bottom. Having a bad headache  
I did not try specially but she postponed further  
dredging. Spent some time looking for an anchorage  
but finally found a good one between some islands,  
though reaching it with some difficulty with the  
sloops owing to adverse tide & wind.  
A beautiful little colt of a new kind brought  
up on the rock here, but minus its body, a  
voracious dog fish having bitten it off as it was  
drawn up through the water.  
No heavy rain today, though several showers, &  
weather in the whole cloudy.

Wanderer's Bight Anchorage for small craft in 8 fathoms  
pretty well sheltered. Wide tide flats which drop off  
suddenly at edge of low water make cut deep  
water. Either of the coves inside wander bight would probably  
be better anchorages for schooners though the inner  
one much less easily accessible.

Museum. Telescope. July 1. Reads by observation  
on Sun. 18" too little. This probably appropriate  
Court.

*Descript*

July 1. A fine day with much clear sky & scarcely a drop of rain. Off at usual hour & occupied till near 7 pm. in examining the shores & islands of the opening next north of that to which the name of Juan Perez applied. Got two photos. at noon stop. at work till midnight on plotting & notes.

July 2. Off at usual time, taking blankets & food for two days. Worked along coast of inlet to opposite "broken point" then crossed over & continued on west side of inlet. Turned off into a deep inlet which presented some appearance of running through to the coast but found it to terminate. Could find no place to camp but a little rough beach in the cove, a triangular patch of depression in a shore-line severely of soda rock plunging into deep water. Mountains rising well-like above it to a height of some 3000' as steep as crust can grow on, but well covered with vegetation. Looking across the inlet scarce half a mile wide bare granite mountains rise to a height of probably between 4000 & 5000 feet, with their upper slopes & shady hollows full of drifted snow fields. Found scarcely room to spread our blankets down among the first ledges of the shore, & stumps of snow above.

The main inlet which we have been following (Juan Perez) with a remarkably distinct gravel cause runs off a number of great bays & long arms to the west. These run up among the mountains of a range

Hot Spring

The rock of vicinity of hot spring shows no more than greenish  
volcanic origin than that of other neighboring islands. all there is part  
partly bedded igneous rocks, but old & dipping at high angles, associated  
with argillites. Near the hot spring the predominant rock is a whitish  
interior rock (see specimen) in which associated with and  
caught up in it blackish hard argillites. In some places argillites  
interbedded by dykes of the volcanic. In many other places among  
islands when few local circumstances occur. No reason to  
argue want volcanic action.

Whit follows nearly parallel to the coast. Snow at first  
gradually increases in height & appears to Culminates  
near the head of the inlet of thoughts occupy in fact  
massive mountains bare & rocky, or were with snow on  
their summits - by far the highest we have yet seen.  
This range is no doubt the axial one of this part of  
the D.C. Islands. A fine day.

July 3. Much perturbed by the mosquitoes in the  
night & breakfast & got off this morning in a  
perfect storm of black flies. Coasted out of the inlet  
on the north side & then continued northward to  
Island No 19, where landed & got ashore for lot.  
A long row here, part grey & part a strong wind.  
Got back to Schooner at 6:30 & found a canoe alongside  
with the Indians we had seen a day or two since on  
their way to collect eggs. They tell us that the hot spring  
of which we have heard for Orund is on the island  
near which we are anchored. Visit the locality, & find  
a number of sources all perhaps rising from one  
place, but flowing out among broken rocks at some  
distance probably from point of issue. Temperature very  
various according probably to distance from source or,  
but warmest we felt to bear comfortably with the hand.  
Altogether a considerable body of water. Slight swell  
of 2 ft & a band perceptible Pelin tort. Full of green  
confused growth. Large patches of waxy surface seen  
sources, but maximum with dol-lal & holes like run of.  
Heat prevents the growth. On steep part of it was the  
ground warm everywhere. Very slight white incrustation  
on stones. *Dedicus* bastian a natural, muddy stream.

Scho Hz

July 4. Went round to the hot spring & took photo. of the  
mossy patch beneath which it rises. Could not get near  
embracing the pool & this also. Got sand photo looking  
up the inlet. Returned to Stromer & set sail, proceeding  
up the inlet with a fair wind. Considered some of sketches  
hampers as went along. Took several soundings & had  
the dredge over in 43 fathoms but nearly let it on a rough  
rocky bottom in tide-way. Got jelly brought up to date.  
The inlet seems to open out in various directions or at  
advance then being more free opening to large bays or  
branch inlets or channels in light from near here.  
Anchored in a snug little harbour (Sdr #3) on the Star  
shore. Entrance narrow & bold, within expands. Grassy  
beach at head, a little passage way off to north which  
opens into a wonderfully secluded inner basin, and  
inner for the west part of hollow. This receives a large  
stream from the valley & a part from Cloud Mountains  
which are piled at the head of the harbour.  
Took photo of harbour after anchoring.

July 5. Off in good time, & vessel returned down one  
side of the inlet to connect with former full tide pt,  
then eastward back on the other. Landed out opening nearly  
opposite to the harbour, which at first supposed to be a  
large bay, but proved to open out in two directions,  
the main passage trending north & then eastward, & all  
clear to the open sea! A strong breeze blowing in &  
head tide made it difficult to get far. Towed & left  
opening the inlet well out & ran back under sail.

Receipt



Saw two Indians fishing at a distance today, & continue to show many signs present Chipping, & hesitation. We must now be near the Clue village.

Selo Harbour. Lead deposit near mouth about 11 fathoms at low water. Another everywhere about 13 fathoms, striding gradually near the head at first, & then rising steeply up to a flat nearly dry at low water. Well salted from all winds & good soft-holding ground.

The main passage outside Selo Harbour continues to carry the flood from the S.E., the ebb from the NW. The tides thus draw through & do not run out from both ends to the open. The current northward 2 knots at times.

A little fir timber on flats here & there, but very little flat ground. Spruce, Birch, & Cedar. Yellow Cedar fairly abundant in small trees.

July 6. Took breakfast this morning, intending to stay out two days. Rounded the point beyond Selo Harbour & the mountains & found a large bay, the inlet at its upper end a strait run up among the rocks & masses of high rugged & heavily snow clad mountains, probably the highest yet seen. The next opening beyond this large bay is that called Casement Inlet - as a provisional name. It is a fiord, some miles in length, but quite narrow & hemmed in by steep wall sided mountains something like that of the Inlet of July 2. At its head this

Faint, illegible handwriting at the top of the page, possibly a header or title.

First main paragraph of faint, illegible handwriting.

Second main paragraph of faint, illegible handwriting.

Third main paragraph of faint, illegible handwriting.

Fourth main paragraph of faint, illegible handwriting.

Fifth main paragraph of faint, illegible handwriting.

Final paragraph of faint, illegible handwriting at the bottom of the page.

times round toward the mountains of the bay just referred to, but without reaching them. The mountains on the north side are the highest. One of the highest peaks when viewed from the entrance seems to be a somewhat prolonged ridge very parallel to the inlet, with several peaks. A second & considerably higher has a triple summit, & slopes very steeply down to the water's edge. This & a portion of a colored patch on it was called formerly Red Top. In both standing the sharp sided character of the inlet there is a good deal of beach around its sides.

July 6. Arrived at Red Top at noon, & a few hrs to the Red Top Mountain.

On way to Camp, after being landed some miles west of mouth of inlet, could find no water, then across the channel, about 2 m. to a bay in a large island, where found a little spring, plenty wood, a good beach, no fish, & altogether a charming camping place. Put tents up under some fallen & half fallen trees of gigantic size, which form a complete screen around.

July 7. Looked along the west shore of the channel to the open sea, which when opened out displayed a perplexing lot of little islands, some by way of the coast. Set up marks & ran across a large bay seaward, but the sun by being behind the marks could not see them distinctly enough to read on them, could therefore not fix positions of outer islands. At present when marks to be read from, came on suddenly, & suddenly on the Dutchman village, called Kluis's village

Kline's village

Position of Indian village in Rocky were looked for.

There are about 32 upright totem poles in the village  
fall ages, heights, & styles. of houses about sixteen,  
including one unfinished, though evidently some time  
under way. Indian appearance very comfortable, & evidently  
clean. The Skidegate down to the a great gathering  
Some in progress, a number of little polished sticks lying  
strapped up in soft cedar bark. A grand dance in  
prospects in the evening.

Went ashore & had a talk with the Indians. Many saw  
improvement from them. Asks for the Chief, Clue.  
So called & taken up to his house & introduced him.  
The village consists of perhaps twelve or fourteen of the  
large houses usual on the coast, & built with steep poles  
carved into grotesque figures. Some of the houses entered  
through holes in the sides of the poles, but Clue by an  
ordinary door. Ascending some steps one is in a  
rectangular area depressed somewhat below the  
level of the ground outside, with several broad steps  
rising round it, on which the family goods, bedding &c  
placed. In the center a square area not bounded  
in which a bright fire of small logs burns, the  
smoke passing off through openings in the roof.  
Clue with some of his friends occupied positions  
on the further side of the fire from the door. Equally on  
Clue's mats, several women who were kept in  
the background. A couple of boys brought out on  
which a well educated Danish asked Sago & R in  
tolerable English, to sit down. These placed near  
Clue, & the Indian boy put asked who was to give  
a dinner to the next part of Clue to me. Had a  
short conversation & then pleading the late hour got up  
again on our way to the schooner. Our reception by Clue  
quite a ceremonial one, for which occasion appeared  
as he was evidently waiting in some state, & all in  
order to receive a large party of Skidegate Indians  
who are expected & are to form in a bee or pot lot of  
the occasion of which the erection of a new house

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

put a canoe on the way with fresh tobacco & got a  
few cups fresh for a dollar. Got back to the river of  
H. P. Long made a prodigious long row today,  
but without doing a bit of real work.

July 8. Got anchor up a schooner out of harbor, & then set  
out in boat with Williams & R for the S. Store of the Lubian  
to the Channel. At work all day & back at night to  
the Schooner at her new anchorage. Pretty work till  
late.

July 9. Cross the inlet & work returns along the shore of  
the large island opposite. Getting to the Indian village pay  
a rather long stowed coil with the object of getting such facts  
as I can about possible coal or. Near completion of the  
story of a spot on one of the islands outside that of the hot  
spring, from which bitumen, or something like it oozes.  
Present Chief Klee with a pound of tobacco, & finally to  
objection made late a photo. of the village. Would have  
taken several but the rain threatening all the way now  
began. Lunched near the village & then ran across to the  
Outer island on the outer part of which a very good section  
of great thickness of the dark argillites or flaggy limestone  
then a thin a fossiliferous argillite. Came back  
amid rain & wind with a heavy bucket tea, round the  
east end of the island & got on board Schooner at  
six pm. Heavy rain till sundown at H. P.  
at work pretty ~~work~~ notes as till late.

1870  
The first of the year  
was a very dry one  
and the crops were  
very poor.

The second of the year  
was a very wet one  
and the crops were  
very good.

The third of the year  
was a very dry one  
and the crops were  
very poor.

The fourth of the year  
was a very wet one  
and the crops were  
very good.

The fifth of the year  
was a very dry one  
and the crops were  
very poor.

The sixth of the year  
was a very wet one  
and the crops were  
very good.



July 10. A very wet night & heavy dew early this  
morning, rendering me uncertain whether to start  
along the open coast for Ceausawas, as had intended,  
or not. This expedient as barometer very low & not  
showing any inclination to rise. All appearances  
clearing ~~at~~ after breakfast got anchor up & away.  
Called at the Indian village to try to engage an  
Indian Koon to Charley, one of the Skidegates  
who are visiting here. Found that he left early this  
morning. Got some information from Indians who  
came off in canoe, by which it appeared that a  
large inlet between this & Ceausawas, with a large  
island in its entrance. Wind light did not  
get to land & former work late so near noon that  
thought it best to fore land on board. Set off  
shortly after noon instructing the Schooner to go  
round the other side of the island & find an anchorage.  
Rounded about 8 miles up a long inlet which proved  
to be very narrow, though still many miles, both land  
& wind that seemed very improbable it would turn  
seaward again. In much doubt what to do as  
getting late, but finally decided to sail back down the  
inlet & look for the Schooner on the other side of the  
supposed island. Did so, but on reaching the point  
found a second great inlet with the point again  
opening out. Caught sight of the sail far up the inlet  
& rowed laboriously down to a perchman in blue  
Schooner at anchor, a distance of probably eight miles  
arrived on board after 9 pm. Guided by fog horn &

Klu<sup>^</sup> village

Caution. R. prudent not rowing & self cold & tired  
also.

William's bucket attached by the boom near the  
point had a hot & cold run to the Schooner. Fortunately  
in Jolly caught side of boat, or might have been more  
serious.

Very heavy swell from seaward. Today & strong winds  
from the land. - violent winds

Passing the Indian vil. this morning in bright sunshine  
all alive like an ant hill with Indians in blue, red  
green & white blankets. Hard at work adding the  
"bee" for the Indian for new house for Chief Klue.  
Cedar planks of great size seen not long since  
in Antiochia, found ashore some days ago, now  
being dragged up the beach by the united efforts of the  
men, getting, having, etc. etc. in clusters to  
ropes as one seen in old Egyptian pictures of  
the workmen of Moses of stone though numbers  
engaged here seem few. Hearing & making a  
yell - bring in strange tones to encourage themselves  
as they strain at the drawing. The large Cedar  
beam lying on the beach is being elaborately carved as  
a door pillar for Klue's new house.

July 11. Of an usual though varying threatening to warm  
the breeze from the sea which has opened up between Soakook  
& Cumburus. Drizzly showers in the morning, followed  
in the afternoon by almost continuous rain with squalls  
of wind. The Sun concentrating out a beam from the  
South East

*[Faint, illegible handwriting on lined paper, possibly bleed-through from the reverse side.]*

On our return, after going with yesterday's work at bottom  
of just inlet, found a heavy wind & sea rolling in which  
gave us a hard tussle to weather the spare, with its numerous  
points & fit into our harbour. Capt slowly round away sharp  
chopping seas, & finally, having opened the sea, tilted out  
the mouth of the harbour or grand rollers to large to be  
dangerous to the boat, but with surprising on the rocks at the  
entrance surrounded them with a sucking mass of spray &  
foam.

Westerly gale set, however going down & the end of the  
beaches outside Cantant.

July 12. Raining nearly all night & this morning still  
driving with wind & heavy swell & low barometer.  
Judged it best not to attempt out door work  
& consequently devoted time to reading &c. Schooner  
beached at high tide & bottom scraped in afternoon.  
An only stowey took a short walk along the beach  
& went for an hour fishing, catching a few rock  
cod. Windy barometer rising & some appearance of  
clearing though light showers still continue.

July 13. Every appearance of clearing this morn with high  
barometer but showers began soon became almost continuous  
& continued with little intermission. Later cleared up partially  
& ceased raining. Let a rest to start the boat having  
grounded owing to the extreme low state of the tide. Did  
a good day's work however, getting right of the entrance of  
the three remaining branches of this great inlet. After completing

Kedans

Work got a ford bridge to carry us nearly all way back to  
Schooner, & row around early at the mouth of the Harbour  
put a line over to try for a fish. Found the fish very good & caught  
about 3 dozen good sized "rock cod" of at least four  
spines. Very fairly colored & spring to a degree. First sets  
taking favour. At work till late plotting & writing up  
notes. Got aboard the Schooner after 11 P.M.

July 14. A rather late start again rowing to Charley who  
overslept himself. Looked round the Shore in the boat  
nearly to the Indian village (Shedan) at the entrance  
to Cumshew's Harbour. Then boarded the Schooner  
which was far behind & ran on with very light wind and strong  
on N side of Fog at about 10 P.M. Tarry very bright  
& fine but often somewhat cloudy & very showery & calm.  
A couple of Canoes came out from the Indian village  
to visit us, brought with Indians who brought a  
quantity of wooden bowls etc to trade as curiosities.  
The Chief Shedan in the larger canoe, dressed in  
a good suit of black, a middle aged man of less  
power than blue apparently & commonplace mind.  
Presented his "papers" which simply said that he was  
a good sort of Indian or so, with the exception of one  
which written by one of a number of people who were  
shewn in 1852-53 on the coast, in the Schooner  
*Olympia*. The writer said he had no doubt their  
lives due to the man & writer who objected to the  
other Indians carrying out the intention of murdering  
them at once. Gave the Chief a small packet of tobacco

Faint, illegible handwriting at the top of the page, possibly bleed-through from the reverse side.

Main body of faint, illegible handwriting, likely bleed-through from the reverse side of the page.

Annals of 1821



I proceeded to bargain for some of the Indian Curries.  
Shedan says very few Indians hunt present, many all  
in "Vic-toi" The village occupies an exposed situation on  
a grassy neck at the point South of Amshewas Hk.  
It boasts some "posts" & mounds were carefully  
examined.

July 15. Rainy with thick mist & strong wind this  
morning, a state of affairs which continued with little  
abatement during day. A heavy sea running in the bay &  
breaking on the shore. Remained about Skowon all day,  
making only a short excursion to the shore to see the  
rocks, which diarites. The little cove on the North  
side of Amshewas Hk, in which we are anchored  
is that in which Mr Coy built a house some years  
since for trading purposes. Hoped to induce the Indians  
to catch dog-fish & make oil but find it did not  
pay, the Indians constantly going to Victoria a few without  
habits of steady industry. House still standing. The  
Amshewas Indian Village about 1/2 mile further  
up the bay on the same side. Clearly visible from  
here, with its row of "posts" & mounds. Very few  
Indians said to be there at present.

Chief Shedan finding it a profitable business yesterday  
came across today with a lot more walrus, rather  
to sell & succeeded in inducing me to take a  
good many at rather exorbitant rates.

Told by the Indians that only three kinds of mammals  
in the Haida illepis, viz. Black bears,

General character of *Curatras*  
Dependent. Below high slow lowtz  
Stool character of *horlmi*

now in the mountains but common along shore when  
the fork called Salween began to run; Marten (as far  
as I can make out) & Otter. There is also a mouse,  
Pomarine, or Small mouse-like animal but of which  
I have been seen by us along the banks, but of the existence of  
which my Indian informant did not seem to be aware.  
Says there are plenty frogs, but no snakes on the  
Islands.

July 16 Being unable to learn from the Indians exactly  
how far it was to the head of Amulewa's Harbour,  
or Foster inlet, took our Kajak out as this morning.  
Took three photographs of the Indian village en route,  
with special reference to the Curious totem poles.  
In examining the Shore found very interesting sections of the  
Coal bearing rocks, with abundant fossils. Did in  
consequence only a comparatively small sketch of  
Coast, camping in a little well sheltered cove with  
good water & plenty dry wood. Altogether a charming  
camp. Up till late getting Nov. of Polans for lat.  
Fine & very warm day.

July 17. Boat off round this morning but after a  
without much trouble & proceeded in our way,  
examining the head of the Inlet. Returned along south  
shore, fully back to shore at 7.30 after a long  
pull. Took one photo of snowy mountains near  
head of inlet. Tried to get Sun. (at. at noon but  
cloudy. - A few days though more or less a bit  
so warm as yesterday. On return on board

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

found three Indian women with little things for sale  
away which two large spears made from bones of  
the Mountain Sheep by Injennung. Bought one for \$1.00  
though \$2.00 at first asked for it.

July 18. Resigned by Indians with various things to sell  
this morning, Curisidun near Skedau about the size of  
Wollumbi & got away at last & pulling across the  
harbour carried work out to Skedau's village, arriving  
there about noon. Took five photographs of the village  
& tottem parts, which here appear very interesting. Had  
lunch & then examined the large bay S. of the village considering  
satisfactorily with the other work. Had hoped to have a  
fair wind back but this being away, a wind sprang up  
out of the inlet, giving us a long pull back against  
wind & tide. Arrived on board at 8 P.M. Soon after  
dark Capt. Kline & three of his people arrived, dis-  
puting that they had not been known enough to offer articles  
for sale when we were in their country, & very hard  
that Skedau was working a big thing out of us.  
Brought with them one remarkable work with a rose  
about 1/2 ft long, a dancing pole highly prized &  
fairly painted & a head ornament composed of  
cedar bark into a ring of what a great number of  
minuteman arrows, in wood & feathered, were stuck  
all the way round round & had evidently brought  
them for things to put out Skedau & his friends,  
mistaking our taste for novel illustrative  
articles for those found & good to the uneducated Sioux.

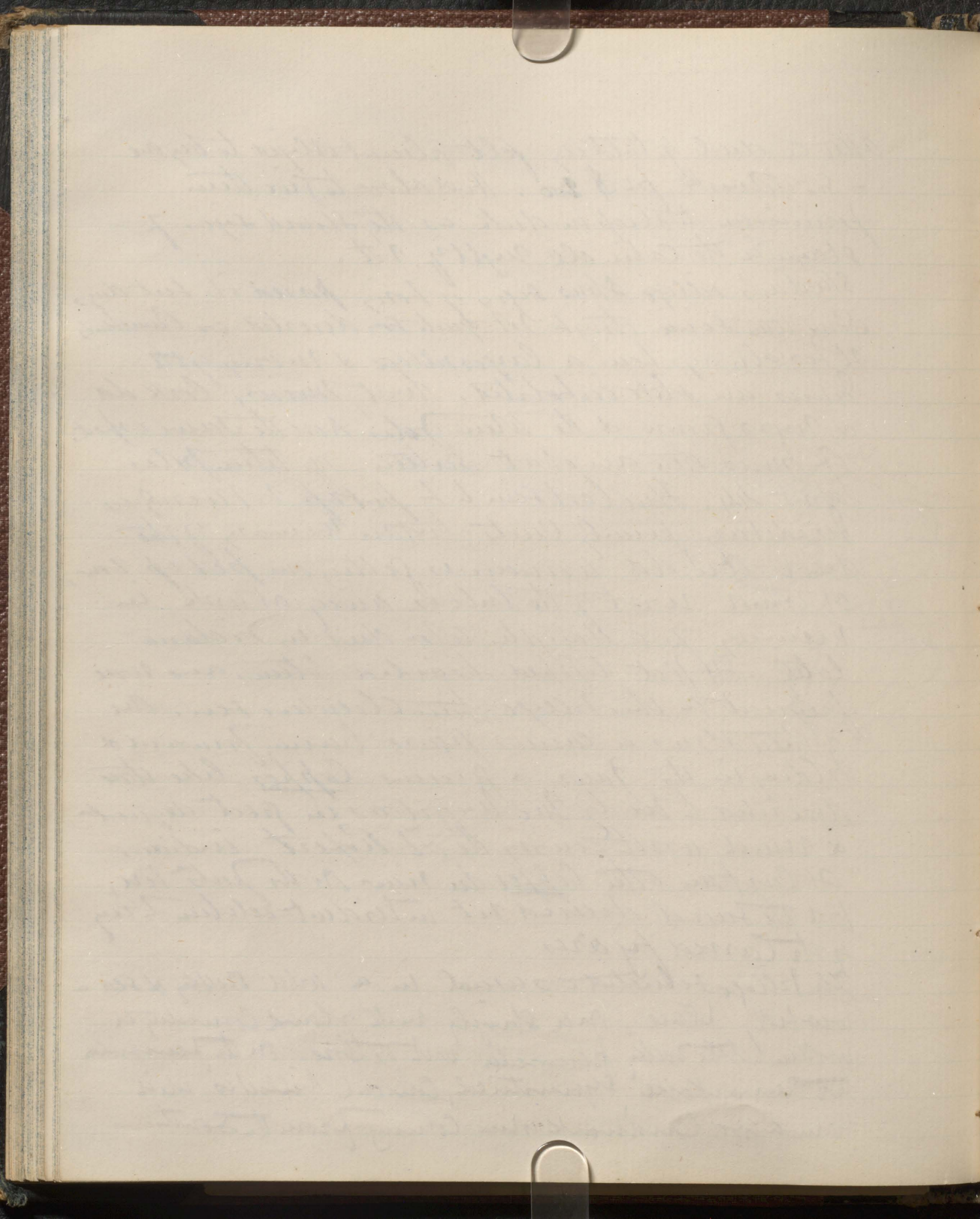
Stedans village

Describe

After a deal of talking felt almost obliged to buy one  
& get the best for \$200. Had also to give them  
permission to sleep on deck as the Howard says of  
staying in the cabin all night of it.

Skedau's village shows signs of being Jared's but days  
some time since though not quite so deserted as Amundsen's  
it has always been a larger village & many of the  
houses are still inhabited. Went, however, Cook da  
& was from & the other poles have the same aspect.  
Of houses there are about sixteen, of totum poles  
about 44. These last seem to be perhaps totum poles  
hereditary property, but in memory of the  
dead. An old woman is getting one put up now,  
at which went of the tube is away at work, in  
memory of a daughter who died in Victoria  
last. The flat topped, boarded totums are more  
frequent in this village than elsewhere seen. One  
of them shows a curious figure leaning forward &  
holding in its jaws a genuine Copper like those  
described to me by Mr. Moffet as in great request  
& much worth among the old Hoped Indians  
at least an other Copper in view on the point here,  
but the sand showed no interdict relation being  
of the same figures

The village situated as usual in a wild rocky & sea-  
washed place, on a strongly neck of land connecting a  
broken little rocky peninsula with the shore. On the peninsula  
two remarkable symmetrical, conical hillsides, which  
form a good landmark when coming from the south.





July 19. Examined rocks between anchorage & Indian village, including the metalliferous veins pointed out by the Indians. At the village found the old Chief Jumeel, Cucurtewa. He had heard that I wanted to see the reported tool & was ready to come with us & show it, on the understanding that he should be paid. This I promised & he would show us some coal. A rather pleasant & quiet old Indian, speaking very little Chinese but trying to make himself as useful & useful as possible. Found the coal in several fragments in several examined locality & collected specimens. After lunch paced several miles of beach for sections, & remained collecting fossils, which occur in great abundance in some places - so long that did not get back on board Shner again till 8 PM. At work till late in notes etc. Found a canoe alongside on return, with a number of Hottentot Indians appeared considerably disappointed that I should buy any one, which I did for half a dollar.

July 20. Anchor up early this morning, & spent greater part of day dredging outside the harbour. Could find only Shelly bottom, which though yielding no great variety gave some things of interest. Evening visited the Indian village, pretty work & notes till late. About sundown two large canoes with two men each, & the forward one with a large pot hoisted, were in sight round the point. Turn out to be Kit-Katta Chinsees, an Indians with loads of ooladen grease for sale. They have slept one two nights on the way from Kit-Katta

animal yellowy

They came here on a regular trading expedition, & expect  
to carry back chiefly blankets in place of their oil. Only a  
few of the Haida's seem to understand Chinook, so  
that from the curious spectacle of Indians communicating with  
each other by this medium. First a pictographic scene when  
the Canoes pointed & the Kit Kootans consisted of the  
Haida's carry off blankets and as beddy, musellains  
little things & the Cedar bark boxes which hold the precious  
oil.

Arrival of Chinookans to sell Otlaclen people to Haida's  
coming, they just losing glow of sunset. Two Canoes appear  
round point. Sails closed up to masts, guided each Canoe by  
two. A bright red piece of burlap flying from the Canoe ahead.  
Who are there. Haida looking attentively pronounced Chinookans  
& proved correct. Soon in good hum. Greeter party occupants  
women. All fairly well dressed & wearing clean blankets  
to make a good appearance on arrival. Faces of some painted  
black or dull red giving a wild appearance, which rendered  
comical by the tops pieces which encircle titles of various patterns  
but all intended for <sup>some children, several for poling & paddling</sup> the <sup>small</sup> <sup>trading</sup> <sup>trading</sup>  
mountains persisting after a long day's work. Tell us  
that here only slept two nights since leaving Kit-Kotla.  
Come in to beach at Haida village & received by its inhabitants  
who appear anxious to assist in every way. Bark boxes  
holding the grease set into the water beside the Canoes. Other  
things carried carefull ashore. Canoes hauled up, & then  
the grease boxes carried carefull up beyond high-water  
mark, the villagers assisting. A large lot an incense load

Descript

for one man. Regular system of merchandise. Expect to  
get blankets from the Haidas for the grease and for his worth  
from 6 to 10 blankets or say from \$12 to \$20. The grease  
worth stands its specific odour a very favourite article of  
diet with the Indians. Remember that also packed into the  
interior by the grease trail, & in fact radiates in all directions  
from the great blacken portions of the northern part of the  
Coast. Indians in Victoria value it, & use it, but there is, dear.

Cook's Harbour of West coast a long inlet & shoulder  
called Cook's Inlet. It differs in its general  
features with the low character of the land in its  
interior from the other inlets to the south, & in fact marks  
the junction of the mountains & flat country on the  
West coast of the island. There is low beach along its  
 shores from the southern inlet & wide tide flats. There  
 are indications of shallow water, which is not very in the  
 Inlet itself but now extends far off the coast, probably  
 marking the submarine extension of the soft Coast bearing  
 formation in an uncrumpled state. The heads of  
 some parts of the Inlet, however, appear deep & have bold  
 shores, this only on a smaller scale what find on grand  
 scale in many of larger fjords. The mountains to south  
 here shown in abundance which without doubt look all  
 summer. They are as high as any yet seen & the mountains  
 rarely does not therefore die away but suddenly breaks down in  
 this direction.

The southern head of the Inlet almost (quite?) meets  
 ~~that~~ an arm of that explored coast. From the southern

no such trail.

Descript.

or South Western extremity an Indian trail leads over to the head of Tasso or Tasso Harbour, which can be traversed in half a day, & is not infrequently used by the Indians, who do not permanently reside in Tasso. Tasso described as very steep sided. From the mouth of the stream near Mr. Coys's Home, & opposite our anchorage, another trail starts for Gold Harbour. This is further off, the journey occupying two ordinary days to reach. Trail said to go through a comparatively low country & to pass by one or more lakes. It is probably pretty rough, & traversed by Indians would probably be done by sleds or by water.

The two symmetrical little hills near Skedans village form good landmarks from South for western entrance of harbour. <sup>with long beams</sup> Cassin's Island on the north bristles like a porcupine with dead trees. Must be dangerous to run into harbour or Sulist in thick or dark weather for besides several shoal water shoals in the vicinity, an extensive rocky reef lies a little to north of center of opening well outside. Beyond this perhaps half a mile further East is a second reef bare only at low water. Others not seen may exist besides these, & the low Islands to the south are probably well fringed with reefs also.

At Southern side of mouth of harbour by regular depth soundings so bottoms with shells bottom everywhere. The bar at the entrance to the harbour is not a spit or shoal in Chart but a wide bank or flat stretching from the South shore. Comparatively little of it dries, but at this season all thickly covered with kelp, which they burn it well.

Travelers should be very cautious in approaching the shore anywhere in this vicinity rather preferable to avoid the cold as it runs

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



shoal a long way. The bay in which Mr. Roy's house is built  
offers fair anchorage for small schooners off the edge of  
the tide flat which wide. The anchorage marked, with  
soundings, inside Island on North Shore must be a mistake,  
for at high tide can see bottom nearly all way across  
the supposed anchorage & keep abundant of its worth.  
The best anchorage for large vessels probably on S Shore  
opposite the long lead which marks the low ground gateway  
of a large stream. This probably one of the places marked  
on the chart.

July 21. A fine day on the whole with several breezes, &  
Stoney in the evening, with mist. Got up in good time &  
Carpenter examined & paced the section along part of N.  
Shore of harbor. Chief object to get an approximate  
thickness in the shore opposite S. In this probably finding  
Kumukohu. In return called at Indian village & engaged  
a young Indian to whom I had spoken before, to go  
with us to ~~the~~ Skidegate & perhaps further. A rather  
heavy-looking fellow, whose chief peculiarities appear to  
be a long back & short legs. Speaks Chuvik of course,  
but also some English & is too profane in swearing  
a habit no doubt contracted on former cruises on schooners.  
Early writing up notes, sorting specimens &c. till late.

July 22. A dull morning with drizzling rain &  
thick fog. Barmulea high however, & is the Indian

Descript

From the mouth of Cumber's Inlet to Skidegate Inlet the coast is all low, rising in a few places at the shore to a height of 200' to 300' or more, & several feet much less than this, though facing some such elevation at no very great distance back. A series of wide open bays, separated by low spit-like points is found. The points are generally elevated about 20 feet above high water & are composed of gravel or, by evidence of rough spots proved by work in opposing directions where the sea struck somewhat higher than at present. In some places there now bear fine woods. In the low shore - so dependent to that we have been accustomed to further south - the beach becomes flat & the strand water retreats a great way off shore. Near Cumber's the beaches are almost altogether paved with boulders, but toward Skidegate they become finer, though still plentifully strewn with corals, which occasionally become by thick about the projecting points. Large boulders appear far from shore at low tide. The corals probably derived from the west of the interior of the Island. Spit Point at South Entrance to Skidegate particularly flat, & runs up into the long bay which stretches across mouth of Inlet. This by strand seaward, but falls off suddenly inward into deep water. The land

Level

erect

boy enjoyed yesterday, has turned up, & otherwise all  
ready. Decide to set out for Slidegate, leaving the Schooner  
to follow as soon as she can. The fog gradually cleared  
up, but heavy rain soon began & continued without  
intermission almost all the way, soaking us  
completely. After lunch became fair, though still clouded.  
Sea moderately calm, & so made good progress  
along the coast, camping at about 5.30 AM in  
a wide bay. Hauled up boat on slides.

July 23. Off early with fair weather & calm sea  
soon made Spit Point at entrance to Slidegate  
& then examined along South Shore of inlet for some  
distance, stopping at the point East of Callora Bay,  
in a pretty little cove with sandy beach. The Schooner  
did not yet appear, decide to stay here when we  
saw a good view of the entrance to the Harbour in  
preference to going across to the rendezvous near  
the Indian Village. Got a good fire going & soon  
very comfortable.

July 24. Raining in the morning, but caught sight of  
Schooner heading into the inlet soon after daylight.  
Got breakfast & then put things in boat & started across  
towards her. Got on board & soon anchored in bay opposite  
Woodcocks Fishery, where only a man called Smith &  
his partner "Munpilanah". Found a small sloop belonging to  
Collins lying at anchor, but just waiting for a wind to set off,  
& going down to Victoria. Wrote letters to forward &

about the entrance to the inlet on the north side is also quite low & flat, & from a little height can be seen stretching a great way, the range lying in the end broken only by scattered clumps of trees projecting above its surface. In the hills beyond to rise on both sides of the inlet, & towards its head ranges of snowy mountains appear, probably equaling in height any we have yet seen.

Indian dance

Indian Dance. Landing from our boat after dark at the south end of the fine sandy beach opposite Skidegate village, find the part of the town apparently quite deserted, but see some dim light at a distance & hear the rattles & sound of the drum at ~~some distance~~. Scrambling as best we may along the path which winds along the front of the row of houses, & narrowly escaping falls on the various obstructions in it, we reach the front of the house in which the dance is going on. The door is to one side of the middle & not through the bottom of the bottom part as in the older fashioned buildings. Pushing it open a glare of light flashes out, & listening, we find ourselves behind & among the dancers, who stand inside the house with their backs to the front wall. Pushing through them we cross the open space in which the fire - well supplied with numerous logs is burning, a seat surmounts on the floor. Along a crowd of onlookers at the further end, having just taken off our hats at the request of some Indians near by. The house oblong of the usual shape, but not elevated in the centre as is often the case. The floor boarded, with the exception of a square space of earth in the middle for the fire. The Chalk of the room filled here & there in heaps along the walls, being the greater part

the Chance, & after early lunch resumed the work  
westward for a considerable distance, collecting fossils &  
walking down a track of rocks, westward in the  
evening to the village to see the Indians' dance. Returned  
late & went to bed at once quite tired out.

July 25 - Heavy rain this morning, resumed as rather  
late in starting. Crossed the inlet & worked slowly  
and all day Bay & E. end of Maudslayi Island. Collecting  
a number of fossils. One place where particularly good  
near the Indian village (old harbor site) stopped some  
time & soon surrounded by nearly all the inhabitants of  
the place, men, women & children. The latter were specially  
troublesome as they set to work pouring out, or trying to  
pour out the fossils with stones or, I do not  
doubt, received many. Told them on leaving that if they would  
collect a number & bring to Schone tomorrow I would  
pay them. Back for supper a little before 7 P.M.

A long visit from Smith & his partner.

The climate is said to be exceedingly wet here in winter  
- only three fair days last winter - for two feet water  
or snow, but sometimes a good depth. This summer  
said to be more southerly, with clouds & rain than  
usual, indeed quite exceptionally so according to Smith.

July 26. Up in good time. A remarkable fire bright  
today. went round to Indian village & took some photos.  
Left. Then resumed work at west point outward, but  
found beyond village not said to be back, returned, collecting

of the interior clear. The audience as already denoted  
occupies the front end, the audience the sides & further in  
end of the house. The smoke from the fire, about the only light-  
escaping by wide openings in the roof. The audience  
nearly fill the building, squally in various attitudes on the  
floor & canvasing of men women & children of all ages.  
Their faces all turned toward & expression of various emotions

Skidegate  
re

Skidegate village about 25 houses & some 53 totem  
poles.

lit up by the fire. The persons in this interior about  
twenty in number, dressed according to no uniform plan  
but set up in their best clothes, not least - their best fancy  
ones, with the addition of certain ornaments or appurtenances  
to the occasion. All or nearly all wore head dresses, framed  
constructed of cedar bark rope ornamented with feathers &  
or as in the case with a hairy circle of the whiskers of the  
sea-lion. Shoulder paddles made of cedar-bark rope,  
usually ornamented & coloured, with torselets by common.  
The women wore garters covered with pieces of string  
puffin bills and rackets & the used. Many of the old  
fell skins of park spruce, & were covered about the  
head with shining feathers which slow filled the warm  
atmosphere of the house. Rattles were also in order.  
Several men the most known, five women who stood  
in front, dressed with some uniformity, several having  
the peculiarly beautiful mountain foot shawls  
which are purchased from the mainland Indians

at Base & Two Islands en route & moved on to where  
left off work yesterday. Went on round Grande & Two  
Islands &c. July 26th. Schooner out fair wind about  
6:30 P.M. Showers during day, but not steady; the fine  
appearance of the morning. After supper went with van Smith  
to see some fine & some times behind the fishing. There have  
been used to some extent for making barrels for oil, & a  
quantity of wood has been split up for that purpose. The  
timber is fine. Tall & straight, height of seed great  
diameters as occasionally obtained.

July 26 Away in good time, crossing to the gold harbour Indian  
village to find a man acquainted with the locality of the  
coal said to exist further up the inlet than the river, &  
who would go with me to the place when I was ready.  
Found the coast low or some canoes just leaving for Gold  
Harbour, which the whole tribe is now en route to make  
a fishery of Wackel for oil, as I understood it.  
Found two old men who explained as well as they  
could to Johnny when the coal was. Worked along  
coast front of Grande Island, with fine weather but a  
strong head wind, which delayed us much. Found one  
remarkable good locality for pearls on South Island &  
stayed a while to collect. Got back to Schooner, were  
moved up to anchor case - by 6:15 P.M.  
A fine day & evening with rain in the western hills but  
none inland.

The head-dresses of the women were also pretty nearly the same consisting of small warts of hair curved in wood & incised with holes in shell, these attached to Cedar bark & built round with fey feathers & stored about the forehead. The faces of the women as of all enjoyed in the dance - feely painted, resembling the favourite colour. Another important feature the women of the Ceremonies, who stood in the middle of the back row, slightly higher than the rest, not particularly feely dressed, but holding a long thin stick with which they kept time & lead of the singing. A second man in the dance also held a stick, somewhat different from the first, being white & with a split & twisted feather in the top. Do not know whether there was any part of the Ceremony. He however, had a promised place on one side in front of the row of dancers.

The performer on the drum - a flat tabourine-looking article framed of hide stretched on a hoop - sat opposite the dancers & near the fire so that they could mutually see each others movements. The drum beaten by regularly in "double knocks", thus - tum tum - tum tum - tum tum - &c. but that the dancers kept time in a sort of chant or song to which words appeared set, & which rose to the loud pitch & fell lower according to the wishes of the Master of the Ceremonies, who besides keeping up the time now & then slips in a few words of direction or exhortation. To the drum the dancing also keeps time following it closely. At every beat a sporadic torch passes through the crowd of dancers, who stare & were



July 28. Breakfast at 7 AM. Then sailed to Fairweather Islands  
past the rocks, & returned along shore clearing the distance from  
Sever Island. Got back to Schooner at 1:30. Duvr. Did  
not go out again in P.M. Windy, fog, over hills, etc.  
Snowy pine, gradually clearing & persistent heavy rain in  
the afternoon.

Indian grave  
Found an Indian grave on Reef Island, what my  
Indian informants tell me is that of a doctor, who died about ten  
years ago. A square box like structure about 5 feet high,  
made of cedar boards split out, & roofed with the  
same, but with the addition of a pile of stones to keep the  
whole in place. A board having fallen out, looked in to  
the last bone. The back of the bone curved upwards, a neat  
cedar bark mat. The body in a sitting posture, the knees  
bent, originally bent near the chin, but the whole now slipped  
down somewhat. A large red blanket wrapped round the  
shoulders. The hair, still in situ a black & glossy, done  
up in a knot on top of the head & secured by a couple of  
carved bone pins. A carved dancing stick leaning up in  
one corner, in front of the knees a square cedar box,  
no doubt containing other necessary properties for the next  
world. The tomb under some spreading spruce trees near  
the rocky edge of the island overlooking the water. Do not know  
why in this instance they have departed from the usual custom  
of putting the dead in Funerary little houses behind the houses  
of the living in the village.

double

their feet from the floor but wore by jerks, shuffling  
their feet a little at the same time. This was done but,  
especially the 5 women already alluded to turn  
about half round in three or four jerks, & then turn  
back again in the next three or four. The heads of these  
women also wove or throb loose & set on points,  
jerking idiotically as they wove. When the charas settle  
to work, the rattles are plied with temporary vigour & the  
noise becomes very great. After a performance of ten  
minutes or so the beating ceases for a sign & all  
stop, ending with a loud hugh! After a few minutes more  
the movement begins again, with the drum.

The crowd of scalp dressed, scalp, painted serapes by the  
kind light of the fire present a rather coarse & imposing  
appearance, & when in the heat of the dance I suppose  
the Indians may get about rejoice the old policy days  
when hundreds crowded the village & every head eclipsed  
the grandeur of their ceremonies & dances, to remain.  
The occasion of the dance as far as I could learn, was  
the passing of a young man one degree toward being a  
"chief," or head of a family. They gradually take dance  
forms a shape when they get a house erected, and bearing of  
some importance when the lottem post has been erected &  
Hotel of blankets occurs on such occasion.

Blankets

2 1/2 point blankets the recognized currency among the coast  
Indians, now equal to about \$1.50 exceptly so worth so many  
blankets, even a large blanket such as a 4 point, is  
said to be worth so many blankets per allowance. The U.S. Co  
& traders can take blankets from the Indians as money, when  
in good condition & sell them out again as required.

July 29. Examined the rocks along the shores of the Long Arm all day today, getting back about 6.30 after pushing with a couple of hours fortifying. Scrambled through the dense & dense woods of the country, in search of "No. 2. Coal Mines" - a search which proved unsuccessful. Day windy & hot. Shower succeeds shower in almost uninterrupted succession, the mountains being constantly veiled with mist. Found the Relinopanax abundant in the woods today for the first time.

July 30. Had boat put on track, & Vollicurus set to work to make some repairs on her, Anderson to cut wood for fire, & then set out with R. & Charles for the Coal Mines - tracked up the track, which broad & well laid, met two fine bridges, one of which has now fallen. Trees here also fallen across the track in many places, & thickets of bushes & weeds grow upon it. The bunkies secure of & all the arrangements for shipment have been so complete. The broad gauge line leads from the mines to the wharf, about a mile. The mines at foot of an incline, which worked by full open cut empty trucks, double track down with friction brake at top. From this tramway leads up a pretty steep incline to the Hoopers Creek Tunnel, & out it. Some roads above on line towards Hat Creek Tunnel, but rails probably never laid. A dark forest is typical every where, chiefly Salomon berry bushes, with pine wood etc. In many places it will scarcely be possible to trace anything. Tunnels begin to fall in, & some parts full of water from blockings at vent

Skidegate vil.

Near the Skidegate village on a piece of flat ground behind a gravel beach are two flag poles, which were erected last summer. This was done to signify the ~~franchise~~ conclusion of a perpetual peace between the Skidegate & Gola Harbour Indians, between whom, owing to some complicated intermarriage - there had been a dispute as to the ownership of the land, & at various times much blood shed. Flags hoisted on the poles blew away last winter, but the poles themselves "are there till this day"

Below this place & the village a log set in the ground, about twelve feet high, & conical like the Chum posts, marks the grave of a person Tyie Skidegate, who is said to have died very long ago - perhaps forty years - to have been a dehate was man, Skookumtyie, & to have had curly hair.

On Ban Island of the Chart, opposite the village, the Indians formerly had a fortified or palisaded camp to which they might retreat in time of danger. No trace appears now to remain.

Mr. Smith says he believes now about 250 Indians in all centre at Skidegate village, though the settlers number several in vicinity. About the same number probably live at the Gola Harbour village on Mauds Island though this looks much smaller, being quite new, & all the houses occupied. The land on which it stands was purchased by the Gola Harbour Indians from the Skidegate as being in a better place than that formerly occupied on the west coast. A great number of Indians must have lived about this coast at one time. Smith says 12,000?

Had a rainy day yet, scrambling through the woods & up  
the rocky tangles & crumpled stratum beds. Rain  
felling steady, holes & trees completely saturated, ground  
generally almost spongy & full of water. Returned about  
3 o'clock but to the skin, cold & tired. Plotted four of back  
work, wrote up notes etc.

Perhaps sufficient certainty may not be unreasonably  
looked for in the coal seams, but by means  
through knowledge of the horizon & tracing by pits from surface  
might have fully proved the area at comparatively small  
cost, & before erecting such elaborate arrangements for  
mining & shipment.

July 31. Start for exploration of Skidgate Straits.

Camp beyond the second narrows in a very bad place for  
wood, which unfortunately is all very wet from almost  
continuous rain. Few good camping places about here  
the present spring tides rising quite to the edge of the  
woods, in fact often covering the lower branches of the  
trees in elevated situations. All the dead wood wet &  
much of it rotten, & owing to the heavy & continuous rains  
a general ooze of water trickling out all day the banks  
just about high water mark.

Aug. 1. Continued exploration, turning southward by a  
channel used by the Indians when en route for Gold  
Harbour, but soon stopped by a dry beach about 1/4 m.  
across, which could have been more than 4 feet in it at low



Landed back & continued out to West Coast by passage to  
West, which wide & deep, with the small gate open  
passing from in at its mouth. Can the by Contingent  
Sound of the traps? How, estimated distance to outlet point,  
& assumed ourselves of the open character of the passage,  
Returned, getting on the Sound narrow part in time  
before the change of tide. Camped in a large bay on  
East side of inlet. Heavy & almost constant showers  
during day.

The trail worked on Chart as about 3 m. to the West  
Coast from the Long Arm across out to the head of the  
bay. This valley from the road looks quite low. Trail  
not used, perhaps never, now used.

Day 2. Continued track Sunday on opposite side of  
strait, getting to the E. end of the part or East  
narrow about 11 am. Found here two Indians  
whom had agreed to come to show us the coal. Thus they  
did, but to depart before promising one, &  
descended and scurried about through the wet woods  
to get at & examine it. How, landed & collected  
the Indians for their trouble continued same, getting  
back by way of channel S. of East Island, to Schomberg  
at 7:30 am. about 6:30 pm. got the clothes & ut-  
work on the 22.

Many showers today with strong E. winds but not  
continuous rain.

## Sea otters

Sea Otters. are said to have been abundant on both sides of the Islands, & almost everywhere. None are now got on the inside, the account here being completely exterminated. A few are still obtained on the West Coast, especially outside Hunter Stewart Channel, about the so called Ninistance illahie. It seems known that the Haidas do not themselves get the skins, but Chumchean Carves enjoying in the Hunt pay a tribute or toll to the Ninistance Indians for the privilege. So ~~fact~~<sup>doctrine</sup> is the idea of property, & certain kinds of Indians in certain parts of the Country, & their right to all the products thereof.

## Chiefs

Succession of Chiefs. a chief dies, his next eldest brother succeeds to the rank, or should he have no brothers his sisters eldest boy. Should neither of these relations exist, the Chieftain dies, & either the consensus of opinion creates another chief, or the most opulent of the ambitious Indians obtains the rank by making a bigger patch than any of the others. The chief takes a hereditary name on assuming office, known Skidegate, Cumstewa, Skedans or just as they call it <sup>the name of the place</sup> New potatoes. Well grown, nearly a nearly ripe on Aug. 2. Skidegate. The potatoes planted by the Indians are of late varieties, or they might be ready now before this. They are also planted in little irregular patches, the stalks crowded much to thickly together.



Aug 3. Rowed round the bay to Indian village to  
find an Indian to accompany us to Market.  
One named Mills, surrounded by Smith, found  
him at home, but the latter appearing uncommunicative  
asked him to come round to Schooner tenas politely  
a talk it out. Bought some Indian items & then  
setting sail crossed the inlet. Secured junction  
of aqueduct & appearance of rocks E. of Allford  
Bay, & then sailed across to Mandel I. Completed  
bread supply of S. side of Mandel I. & returned on  
board about 7 P.M. Found Mills waiting, with a  
number of other Indians, some wanting to sell  
curiosities & a few only, prompted by curiosity to  
look about the Schooner. Had an almost unbroken  
wa-wa with Mr Mills & finally consented to pay  
him one dollar & a half a day up to the trip,  
& give him a pocket of three dollars in  
consideration of his trouble in returning to the  
shore on foot. Glad to get the decks cleared  
at last, the cabin fumigated, & quilt restored.  
One very friendly Swede with a square peaked  
Cap, found you a little English, washed down into  
the cabin, copied a Chart, unfolded it, & began  
turning his head to one side, pointing plans with his  
finger, & pretending to look very knowing, but really  
appearing very unbusinesslike.  
Today almost quite fine, but occasional spells of  
admirable Sunshine & spots of blue sky among the  
clouds, giving everything a more cheerful appearance.

Describe

Skidegate passage, or Strait, all narrow beyond Maude Island, but has especially narrow places which may be called the first & second "narrows"

The first of these about three miles long, & occupying not over quarter of a mile wide. In one place probably not over 200 feet. At high tide appears deep open channel with only a few rocky islets & rocks, but at low water almost dry for long stretches, with a narrow & crooked channel winding between gravel banks. The second narrows much shorter, & probably not less than 0.2 of a mile where least, but very shoal, with several rocks near the channel in the middle. Through both these channels the tide runs with great violence, probably attaining 5 knots. Tides from W & E meet about the first narrows. A small schooner might be brought through the strait by passing the narrows at slack water, high tide, but probably could not get through both narrows at one tide as the slack water lasts scarcely any time.

One small steamer has passed through, but unless for some particular purpose probably not advisable to use the passage. Another "narrows" occurs on the channel turning S toward Sleda Harbor & the Ludlum towns. Probably not over 4 feet water on this at high tide, & dries for a width at least quarter of a mile. Passages for canoes or boats at low.

A wide valley runs through to the second narrows, the water only occupying a gutter in the bottom. Low land densely wooded thus fringes the strait on each side, slopes gradually up to the foot of the mountains, which then rise

Aug 4. Remained on board nearly all day, writing up notes, plotting etc. Our woodcock arrived from Jola Harbour this morn. having been delayed for nearly a week waiting for a fine beam to make the outside stretch between the two calets. Says he cannot remember a summer with so much broken weather in this region.

Rocks about Jola Harbour & adjacent calets around to him nearly all volcanic. Specimens show to be almost volcanic rocks of felsitic & dioritic like those seen elsewhere further south. In one place in Daylors Harbour "slaty" rocks. The quartz, lead worked purely occurred in a little property point, was quite thin, & ran out in all directions to a feather edge. The whole of the waste lead has been away. The gold obtained by the H.B. Co., & shipped to Daylavor, nearly free from quartz filled three shot kegs (each originally holding 112 lbs of shot) No. 11, did some perfectly in this old ledge, going down several feet into the vein of iron could be found. Formed favorable opinion of the deposit of Page Company to take up & by doing transverse but the ~~low~~ ~~the~~ ground thoroughly. Other calets hold gold elsewhere but all very small & not at all continuous.

Yellow Cedar a conspicuous fine wood tree over four feet through & runs up so far ~~west~~ as clear, occurs at the head of a lake above Jola Harbour.

Might pretty easily be brought out.

Indian name of Jola H<sub>2</sub>. Skai-to

Skatz-Sai, a very waters. Name of Jola H<sub>2</sub> tribe & of the chief, always as usual

Gold H<sub>2</sub>  
Rocks

Descent

Gold H<sub>2</sub>  
tribe

steeply. This is also the core with the arm projecting to  
the west, on which scarcely any rock exposures occur along  
the track. From this a low rocky ledge stretches to the  
Long arm, which is followed by the trail. Beyond the  
second narrows the Passage takes on the Character  
of the West Coast - Lulls generally, steep rocky sides  
with little or no track & bold water. The timber of the  
same two kinds extends Scrubby on the Mountains,  
with many dead trees in the woods. Scarcely any soil  
clothes some of the slopes, among the places in which much  
bare rock can be seen. The summits are also frequently  
bare, or show the plain but Characteristic of rocks  
or is distinguished from the more usual Conifers.  
These upper slopes look to be passed from a distance  
but are not really so. If originally so thickly covered  
with soil as the mountains elsewhere they would soon  
have lost their covering from the slides, which in this  
preeminently damp country seem to occur constantly,  
from water trickling along the surface of the rocks. The  
yellow Cedar begins to abound in good trees after  
entering the narrow part of the passage.  
The aerial mountains of the Islands, bearing snow etc  
in certain patches, cross the passage west of the  
Slate Chuck Creek & Coal Mine. The peaks of these  
are not here remarkably rugged. The mountains on the  
west coast were rounded & lower, without being from those  
E. of the axis of parallel longness in beds of the coal-bearing  
series in great part & show low slopes & abrupt escarpments,  
of the nature of mountains formed of tilted sedimentary rocks.  
The volcanic granitic or gneissic area seen in crossing the  
islands in the channel.

Aug. 5. Weather threatening & stormy with low barometer probably indicating wind. Captain decide not to leave, but appearance of clearing & light wind induce us to get off, notwithstanding the low barometer. Start about 9 am. Go round to the Indian Village & pick up Indian "Mills" who is to assist in the boat & act as guide. Find a head wind, pretty strong, but continue rowing on against it till after 2 P.M. Boat found to leak very badly, so Camp early, not far past Lamm Hill, to repair her.

Aug. 6. Weather this morning still rough & stormy, an easterly wind causing a heavy sea. Decide to get off. Not on getting outside the little harbour in which we have been, find the water so rough, that with the usual strong beach it is nearly impossible, or at least very risky, to land at points, steering cannot be got out of boat. Run on for a few miles under sail & then rounding a little forest land in the eve, & camp about 9 am. About Camp abundance of drift wood, so make large fires & sit down in shelter from wind & rain. In the afternoon, still no appearance of abatement, pitch tents. Sand in everything, eyes, blankets, food & boots.

Aug. 7. Similar S.E. wind with rain continues, heavy sea pelting on the beach, & the water outside covered with white-caps. Remain in Camp all day, for though might have probably run on safely under sail, could not land, or attend to Sarrig. Got Mills at

Perforation of nose

all the Indians, or nearly all about Ten bore a perforation through the septum of the nose. When asking "Hills" what the use of it he explained by saying Spole Lilo Comoway Sewash hi-you he-he. This like other worked words in life worked by a pottitch. The one is perforated at four two to five years old, according to my informant, the faster on the occasion hi-you mache ictus, - or goes away in a pottitch word properly.

Description

The Coast between Skidegate & Masset in some respects resembles that between Cumshewa & Skidegate, a bare open stretch with no harbors & scarcely even a creek or protected bay for canoes or boats, for long distances. The head is gravel & sometimes coarsely stony to a point near Woodhouse Camp & back S.W. Beyond this it becomes sandy & though without good outcrops generally of sand, all the way to Masset. Lawn Hill is evidently caused by the outcrop of volcanic rock described in field book, which is probably Tertiary. Beyond this for some distance, & including the region about Cape Ball, cliffs, a low bank of drift clay, & sands characterize. They are generally wearing away under the action of the waves, & less steeply may be seen in various stages of descent to the beach. In some places dense woods of fine upright clear trees, are thus exposed in section, & there must be much pine spruce lumber back from the sea everywhere. Very frequently the timber seen on the immediate top of the cliffs, & here is of an inferior quality, rather scrubby & full of knots.

Work giving words for Vocabulary, & explaining various  
Manners & Customs of the Indians.

Aug. 8. a fine morning at last. Off early, & almost immediately  
get good sailing breeze, from S.E., without a too heavy  
sea. Keep on all day under sail, landing only at  
one place for lunch, bearings, & to examine Clay Cliffs.  
On landing, obliged to haul the boat up & remove all  
the things from her, Lanching her out afterwards through  
the ~~small~~ breakers without some trouble. Stop at  
the mouth of a large lagoon, which must be near  
Cape Five of the Maps. Its entrance forms a good  
harbour for boats, & can be entered at high tide. A  
very strong current, like a rapid river, flows in &  
out, & at low the channel is crooked & shoal, to the  
sea, but good enough for Canoes.

Mull's three dogs, which have followed us till today  
along the beach - though facing rather scantily - have  
given up under the quick travelling & long distance  
of today. When last seen, about noon, were  
trodling on along the shore, the two larger ones  
apparently quite understanding the matter & taking  
the easiest way, the smaller keeping as near to the  
boat & edge of the sea as possible & looking  
wistfully toward us. They have probably gone back  
to Skidegate.

Mull tells me some strange stories of the supernatural  
actions of the Indians with regard to Rain & spit  
round the camp fire this evening. Though much above  
the average in intelligence he evidently quite believes them.

Stories of  
Rain & Spit

The soil is generally very sandy, when shown in the  
cliffs, or peaty in hollow places where water has  
collected. Sand hills or sandy elevations resembling  
such are seen in some places on the cliffs, in fact, &  
there is nothing to show that the soil away from the coast  
is universally sandy, but the fact that the upper  
deposits of the drift spread very uniformly & are of the  
character. Further west the shore is almost everywhere  
bordered by higher or lower sand hills, covered with  
rank coarse grass, head peas &c. Behind these  
are woods, generally very tough burnt in some places.  
The trees are of various degrees of excellence, but most  
generally rather under-sized & scrubby. This part of the  
coast is also characterized by lagoons, & is evidently  
marked under the ~~coast~~ frequent action of the  
Peggy South East sea.

here

More points of Spit is a most remarkably prominent,  
dependent apparently on no geological feature, but  
caused merely by the meeting of the sea from the S & SE,  
with that from the west, which comes in from the open  
ocean round the North end of the Island. The ~~coast~~  
natural part of the point, near Cape Fife of the  
map does not differ in any respect from the low  
wooded coast to the south, but back from the shore line  
are ~~various~~ ~~traces~~ but lagoons, & lakes, which appear  
from the Indian account to be very numerous, &  
rather more or less than ancient lagoons now  
filled with fresh water. Further on, the point being  
more exposed a narrow is clothed with stunted scrub  
woods, and in some few places a bare exposure of



Aug. 9. Off early, with very fine calm weather, & little sea. Row round the much shaded spit without any difficulty & find the sea on the west side not heavy. Continued on to west of river at Low Hill where lunched. Then went about a mile further to stilled bay where Indians are living making dog-poil oil & drying walrus. Mills says this is the best place to stop this side of Masset or might have gone further. Got some photos. got the hills etc. Examined rocks at west point, where Tertiary Scanditones, with fragments of lignite occur.

Aug. 10. A magnificent day, clear & warm, & almost perfectly calm. Continue on along shore for some miles when land to examine rocks. Find fossils abundant stop to collect them & get observation for lat. Determine index error of instrument. Arrive at Masset about 4 P.M. finding a heavy tide running out of the inlet. Find schooner at anchor. Land & take photos of Indian vil. to see up lost plate of set. Intention quarters in charge of H.B.C. post. Pay off Mills & Billy. Lugged all evening putting fossils to away, writing up notes etc. Take observation on Oklanis for lat, & another for time. To bed at 12:30. The "Otter" has been here. Left last Monday for Victoria. My mails are at Fort Simpson, as they did not know where I was, or what plans might be, did not like to bring them here.

Yellow Sand-hills, covered with dark thin forest of grass.  
Beyond these, the narrow sandy point is covered in  
logs and pieces of drifting wood, & great quantities of  
headed timber, logs & stumps, piled promiscuously  
together. When the point is covered at high tide, this  
beach, with the dunes on with a slightly pinnacled  
course as a narrow steep-sided sandy ridge. This  
slopes away under water & at the low water (tide  
about  $\frac{3}{4}$  in) there were two islands of coral lying off  
on the same general course. The sea from two directions  
rolling together on the shallow water of the spit with a heavy  
tidal current running across it, must indeed when  
wind is added make a very unpleasant surf for  
cavoc or boats. Two ferries have been built on the spit,  
one a H.D. vessel

? Am.

From here pt to Morret the minor indentations of the  
shore are so slight, that it may be described as forming  
one general crescentic bay of — miles in diameter.  
but the exception of one or two small rocky points the  
beach is smooth & regular, almost altogether sand in  
some of the bays, coarse sand, showing evidence in its  
steep slope of an ordinary heavy dry heavy sea at some  
times. Low sand-hills covered from a border to the  
woods which descend from the land & form thick &  
scrubby toward the shore, whatever they may do further  
in. The trees are chiefly *Alnus Menziesii*. The water  
for off the shore is by shoals, especially on approaching  
Morret, when kelp is found in great fields far out  
to sea.

Sunday Aug. 11. Writing up notes & attending to various house  
duties in morning. Went to Church at 11 Am. ~~service~~ commenced  
by the bell which first arrived for the mission here,  
under Mr Collinson, a fellow under with Ben Duncan.  
The Corporation besides ourselves consisted of the Indians  
Several Chiriquians, & an Offutt of the H.B. Company.  
Reached all the Indians of the place are now away, at  
at home raising & planting in Virago Sol.  
Dined with Mr Collinson. Got some newspapers in  
the afternoon & glanced over them & returned.  
Retained Mr Collinson for tea, at his invitation,  
& spent a pleasant evening chatting about things in  
general. Made preparations for tomorrow, wrote up  
notes, & turned in.

Aug 12. All prepared early this morning to set out for the  
exploration of the reported great sheets of water above here.  
waited some time for the tide to slacken, as it was  
running out like a mill race. Got away at slack water, & soon  
had a good current with us. Kept distance partly by time,  
& partly by eye estimate, though difficult to get it exactly  
owing to the unknown but varying strength of the current, &  
numerous eddies. Stopped for land at the mouth of a small  
river where portulacine shells were soon found, 700 yds from  
the water edge. Depart in many respects comparable with the  
Saxicora Sand of the East. Reached the head of the narrow  
passage just as the tide began to run out. Kept on a couple  
of miles, camping in little bay where a river stream &  
remnants of former Indian Camps. Night being clear, got a

Potlatch

Potlatch. Mr. Collier gives me some additional light on this custom.

When a man is about to make a potlatch, for any reason, such as raising a house or so. He first, however, wants before hand, gives out property, wampum, so much to each man, in proportion to their rank & standing. Some time before the potlatch, this is all returned, with interest. This a man receiving four dollars, gives back six, & so on. All the property & funds thus collected are then given away at the potlatch. The more times a man potlatches, the more important he becomes in the eyes of his tribe, & the more is owing to him when next some one distributes property & potlatches.

The Haukets, iclas or are not torn up & destroyed except on certain special occasions. If for instance a contest is to be carried on between two men or there is to be a chief, one may tear up ten Haukets, scattering the fragments the other must do the same, or retire & so on like one has mentioned the others. It really amounts to nothing in that case, for in such trial a man's personal property soon becomes exhausted but then an under-current of supply from his friends who would wish him to be chief & be in that popular form is likely to be the chosen one. At about last winter, a young ~~man~~ man made some improper advances to a young woman, whose father hearing of the matter, was very angry, & immediately tore up twenty Haukets. This was not enough to

good set of observations for latitude & time.

Saw great numbers of wild geese today, on the tide flats, & flocks of green geese & waders which run along the shore just above high water.

Aug. 13. Traveled on, starting the eastern shore of the great "lake" passing the mouth of a large river, which opens in an extensive bay with very wide flats dry at low tide, and several canoes full of Indians looking out for salmon. One of these contained the old "doctor" of the Masset village, with his assistant. The old man distinguished by an immense & dirty mass of grizzled hair rolled up behind his head. This is never cut, & in it his medicine is supposed to lie. On our approach he shouted "good day" which soon proved, however, to be all the English he knew. Inquired whether all "King George men" & on answer being given in affirmative said "very good" "Aukook Allaghe King George Allaghe, Aukooty Boston like Kapsowallow Je Mika Klossh-naanech." Then immediately wound up with the broad hint "Hilo tobacco?" The old man pointed upwards as that there were no salmon today, but would be very many tomorrow. Just as he spoke the ripple of one going on the flat was seen & he & his assistant took off like an arrow in the canoe, and was maneuvered with great dexterity & turned about in an incredibly short space. On overtaking the fish, the assistant hurled a spear, which however missed its mark, falling harmlessly into the water.

Stopped for lunch at the mouth of the great "lake" a narrow passage blocked by a large island, & through which the tide runs

Describe

Jim went to his feelings, for the day was had to follow suite, & in this case not being the requisite account of property, the others of his tribe had to subscribe & furnish it or incur a lasting disgrace in the tribe. Their feelings toward the young man were not natural, yet the Kuslat, strong as they did not turn him out of the tribe as they might have done after having blamed for his fault.

Totems

Totems are found among the Indians here as elsewhere. The chief ones about Puget are the Bears & the Eagle. There of one totem must marry in the other &

Indian Stories

Aug 17. The Indians for some stories of their simplicity when first brought in contact with the whites. "Jim" says the first white men they ever saw came to North Island, arriving at the season (Aug. or September.) When the Indians all away at their various rivers catching Salmon, One Man (?) in the village at North Island saw them & their vessel.

Childish stories of surprise on seeing various unknown articles, or as one of my Indians put it "Auklutty Siwash dam-fool" Indian from a biscuit, thinks it wood, encouraged to eat it. In water, finds it very dry. Molasses, tastes with finger, pronounces very bad & tells friends so. Axe, strikes fancy as being so bright like a beautiful salmon skin. Use unknown. Takes handle out & hangs it round his neck. Gun, similarly misunderstood. Takes flint off & hangs it round his neck.

with great velocity, especially at ebb. Started round part of  
Shore of upper Lake, & camped near the mouth of the Ma-min  
River, near an Indian Camp. Went some distance up the  
river, on which coal reported to occur, but could find nothing  
to equal than a few pieces of oblique. Got through cut  
struggling through the woods in heavy rain, & in coming back  
got mired among small creeks & lagoons of the delta.

Aug. 14. Had made arrangements last night with a  
brother of our Indian (Jim) to go up the river &  
St. R. the coal, while I went on with my Survey of upper  
Lake. Very heavy rain in the early morning. My Indian  
appeared, & breakfast also late. After some time, the  
Indian arriving, & assuring me that the State would go to  
coal & return before night, decided to carry out old plan.  
Day continued overcast, with heavy showers, rendering out-  
door work far from pleasant. Got back to camp about  
7 P.M. & procs R. & Indians back before we were extinguished  
at a pine fire, when we were glad to join them. R. had  
ascended the River in canoe some distance to a red log-jam,  
& then walked some miles. The "coal" proves lignite.

Aug. 15. Off early. Crossed the upper "Lake" making  
some soundings by the way, descended the rapid - for such  
the outflow now is, with a strong ebb tide. The water breaks  
white in several places & the speed must be nearly ten  
knots. Continued along S.W. Shore of Main Lake, camping  
at the head of a long Inlet with an unpromising Indian  
name. Tent pitched on a rather quaking sod of pine where

Describe

Tides at Maasset. Aug 12. Day of full moon.

Describe

H. water at 30 minutes past noon.

Aug 13. H. water at 1 hr 15 m. Am.

The current runs in up the channel  $2\frac{1}{2}$  hours after falling by the shore. Ebb runs about 3 hours after water begins rising on the beach.

Rise & fall about 14 feet springs. (Est. only)

Aug 13. Passage to inner, or upper lake. Tide turned to run in at 20 m. past noon.

The rise & fall of the tide in the first lake 8 to 10 feet in the second or upper, less, probably averaging about 6 feet.

---

Describe

The west shore of Graham Island about Maasset, generally low with shoal water extending far off. At Maasset <sup>instead of</sup> the wide open bays generally met with find a funnel shaped entrance, leading to a narrow passage. Entrance holds some shoal water, & two bars, but navigable passage. Where passage begins to narrow, find three Indian villages, one on E. shore not far in from outer pt. Here principal village at present. H. B. store & mission (the latter now established two years since next November) anchorage opposite here, but strong tide. The second village, about a mile south of this, on same shore, the third, on the west shore. Land all low, no hills, lagoons in places along shore. Generally densely timbered, but reports of "prairies" here & there in the interior.



intersected by numerous little creeks into which the tide flows  
Sot Mendon in latitude what road reached here, & then  
found in Day resort with Struers.

Came unexpectedly today on an old Indian & his wife  
Camped on a small Island on the Lake, the old man  
enjoyed in making a canoe, & a temporary bark house  
put up near a trickle of water. He actually presented  
me with a couple of small Solanum, in exchange for which  
I gave him a small piece of tobacco all I  
had. He was very polite, & gave a good example of the  
better class of old-time unimproved Indians, different  
as daylight from dark, from those who have been working  
on Schooners, or in Victoria & have learnt various  
"White" ways, including the use of oaths & slang.

Aug. 16. Harmed in leaving this morning by the tide, which being  
to run out, threatened to leave our boat dry. Made the round  
of one more great inlet & then worked along the coast  
Spore till nearly 6 P.M. Camping a few miles west of  
the main outlet. Day fine on the whole though with  
occasional showers & S.W. wind. Sky, however, continually  
overcast, as usual! Our Camp a little west of the  
mouth of the River called Ain, on a fine regular beach,  
with abundance of drift-wood at hand. A trail leads  
over from the beach, about 300 yards to the river, passing  
through woods in which some fine spruce trees. The stream  
a large one, navigable by Canoes, though said to be impeded by  
sticks. Said to flow at no great distance, out of a great-  
fresh water Lake, on which the Indians use a Canoe, on

*Descript*

The timber does not attain a very great growth along the shore, but no doubt is of good growth where sheltered inland. In proceeding up the Inlet, find near the entrance a lagoon whid. runs back on the E. side to nearly abreast the Indian villages, the land pretty suddenly attains a greater elevation, forming a flat or gently undulating surface at a height of about 100 feet above the water. This proved of drift deposits, Clays & sands below, hard bedded sands above. This in many extensive areas becomes broken down to lower country. Inlet slightly tortuous, with average width of 1 mile (?) (say  $1\frac{1}{2}$  to  $\frac{3}{4}$  mile) through the whole length (—miles) the tide runs with a rapid current, especially at ebb, & there is no harbour capable of sheltering vessels from the tide. Masset or Maast island (which has given its name to the region) appears to offer protection, but the water behind it all very shoal (mud spit not over 1 fm. at H.W.) & great area dry at low water. At the point just inside the island a fair anchorage might perhaps be found, sheltered completely from the sea, but exposed to westy force of current. The "Otter" said to have anchored here on one occasion.

At its south end, the passage upwards suddenly & a first sheet of inland water is seen, bordered by continuous low wooded land westward & eastward, by hills, rising to mountains in the distance on the west & south & studded with islands. The lake lies at the junction of the hills with the low country. Where bordered by low land the



Shores are flat, with wide boulder beaches, bare at low tide, or sandy flats, sloping far out. When the extensive humus tortuous, & the fiord like projections run up among the mountains, the shores become much bolder, with deep water close to them, & narrow rocky or boulder beaches dipping steeply away. At the head of the culet & about the mouth of some brooks, only are wide flats found. The water in these fiords does not appear, however, to be very deep, differing much in this respect from the culet of the mainland. On the west side of this "lake" near opposite its entrance, is a narrow passage, with several small wooded islands, leading into the second or upper lake, the Indian name of which means the "belly of the rapid". The tide runs through here with great velocity, especially at ebb, when it forms a genuine rapid, with much white water.

Keep fiords abundantly near across the channels on both sides of the island, showing that they cannot be very deep.

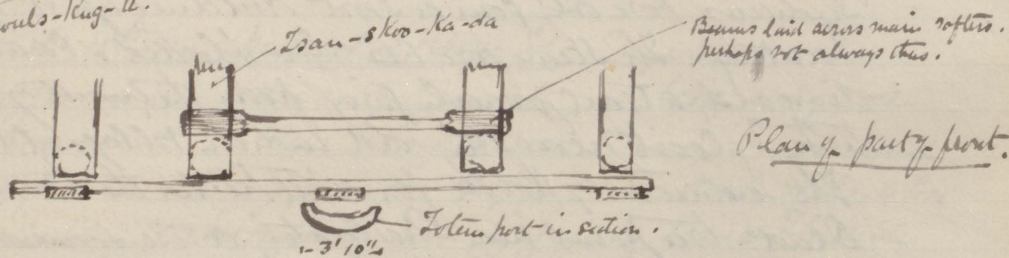
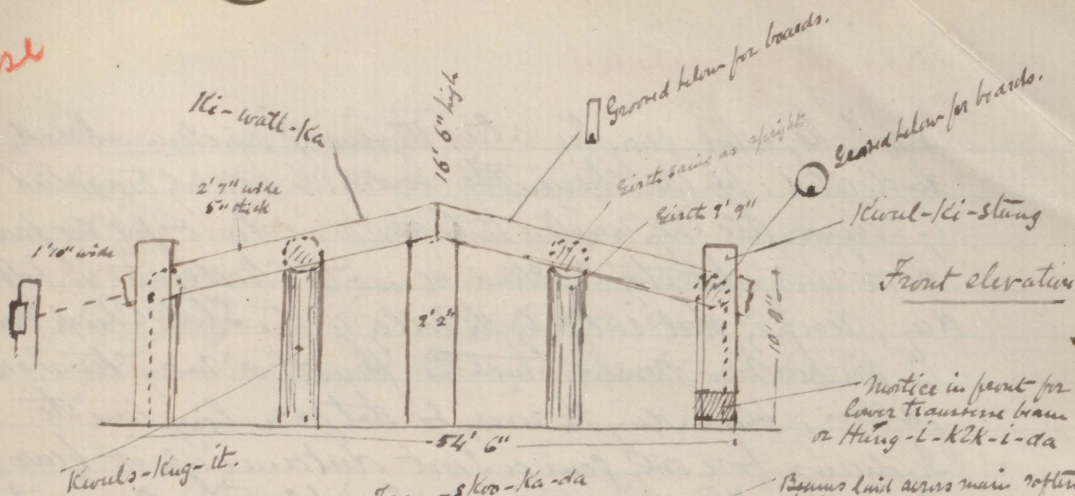
The second lake is much smaller than the first, & separated from it probably by a rocky barrier. Its western edge is formed as in the former case by low country, while its south western is long & fiord-like, with steep banks.

It lies in the same line of junction of hills & low country as the first lake.

Many streams enter the lakes, as might be expected from the local character of the country. Of these the largest are probably as follows & will be mentioned in the called series.

1. Stream flowing into the S.E. corner of the first lake, with large sandy flats about its mouth. This was formerly possible for carves a long way up, & is reported to lead in a

House



House 47' 8" from front to back

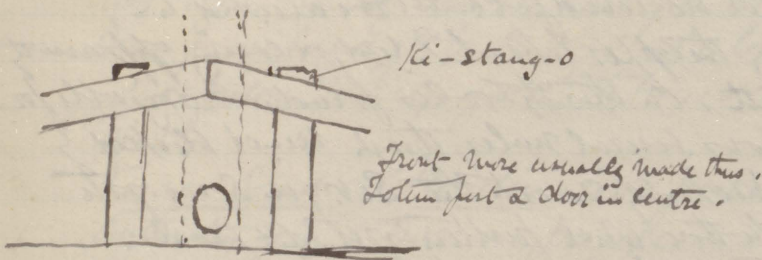


Diagram with measurements of Indian home at Virago Sound L.C.I. Type of rafter, but rather larger than now usual. The upright boarding of the ends & sides, with the roofing, is omitted for greater clearness.

Camp Lake, which may lie along the line of junction already  
indicated. By this stream the Indians formerly travelled  
by canoe till they reached the lake, or at least got so far  
on the river, that they walked across to Slidegate in half a  
day, reaching that inlet by the valley of the Slate Creek Creek.  
A fire has now passed through the forest, & many trees have  
fallen, blocking the river, so that for a long time the  
Indians have only gone a short distance up it bear  
hunting. The same fire has also blocked & caused the  
disuse of a trail formerly going from the mouth of the river  
to the 2. Coast near the old Indian village at Cape Bell.  
The Indians say that the fire which killed the trees at  
Dead-tree point near Slidegate, arose somewhere on  
the Marslet Lake & this fire it may probably have been  
which caused the windfall above alluded to.

2. River going the upper lake at S. end, & coming apparently  
from the South. On this the coal is found. No doubt for  
several centuries several miles, though much blocked  
logs. It probably rises to the S.W. in some of the  
valleys like those which furnish most of the firs.

3. A stream (river) going the lower lake not very much  
west of the outlet, on the north shore. This has its  
mouth on an extensive gravel flat, for the most  
part densely wooded, & presents a fine & very regular  
beach. Several Indian houses are at its mouth, & a  
couple at about half a mile up it. It is said to rise in  
a very large lake <sup>partly under</sup> flowing out at perhaps three miles  
from the shore. This lake probably lies between the present  
Cape Ann, & the Cape Sound & may occupy an analogous

## Names of Villages

### Names of Indian towns.

Kung village at Virago Id. (Rough 16)

Ya-tzä. New village beyond Virago Id. = Kuife.

Tt-te-was. Village near H.B. Co. or Market

Ka-yung. Village above last on same side.

Yän. Village on W. side Market harbour.

Coast between Market & Virago Id. Everywhere low & differs from that East of Market, in being rocky, or covered with boulders along the shore line. No wide sandy bays occur. The points are chiefly of low dark rocks, which probably all belong to the Tertiar. igneous series. The tundra seen along the shore, not of great size, but pretty interrupted with open grassy spaces, which often reaches the sea, but do not seem far inland. Water very shallow a long way off shore, & great fields of kelp filling the bays & extending far off the points.

Virago Sound or Ne-din. Wide funnel shaped mouth, contracting soon to narrow passage - only  $\frac{1}{2}$  m wide in one place, & then expanding again to large & magnificent land-locked harbour. Low land, densely wooded, borders the whole inlet - though hills & mountains are not far off to the South & west. Rocks seen along shore, only near bottom of harbour, & at anchorages were opposite Indian village. 2. Shore flat & long of flats with boulders at l. water. Water comparatively cold. Many small streams, & several of some size. The Ne-din River, probably the largest in the island enters at SE angle. Went up it about 2 m. in the

position to those just described.

Spurs & may, other streams are counted as "Selkirk rivers"  
the horse-hills in sections running up them all as  
far as they can.

The exposures of rock on the borders of the hills are strictly limited  
to their western & south-western sides, the opposite  
sides being composed of drift material. The drift of the  
Perthian Shores is much more mixed in origin than that  
of the narrower western coasts, when the rock fragments are  
abundant altogether local in origin. At several places a  
terrace, well marked, & apparently about the level of that  
previously mentioned at Skeddefote, seen.

It seems in some respects not improbable that the "cliffs" along  
the western borders of the hills mark the present position of the  
glaciers from the mountains, at the time the drift deposits,  
clays, boulder-clays, sands &c were being deposited.  
They may thus denote original hollows, produced partly by  
glacial erosion no doubt but more from the absence of  
drift material elsewhere than on them. No very evident  
moraines, & must therefore suppose that ice was sufficient  
to have any inclined of this kind as it was deposited.

The rocks appear to be all Tertiary volcanic, in many places  
& over great areas nearly flat, or feebly undulating, & seen  
in nearly horizontal beds far up in the mountains & slopes of  
the heads of some of the fiords. In other places the beds are  
greatly reworked & disturbed, as perhaps to be expected  
in a volcanic region. Much silicious infillation &  
may localities when Chalcedony & opals abundant.  
Considerable proportion of trachyte acidic rocks. A remarkable

level

level



boat, its course being undoubtedly straight, & tending a little  
west of true South. It flows out of a large lake, - probably  
ten miles or more in length diameter - at a considerable  
distance. The lake can be reached by canoe in about half a day  
from the mouth, but Indians say that many trees have fallen  
across the river last winter. The hollow occupies  
the lake can be clearly seen among the mountains, when  
the range viewed from a distance.

---

Aug 19. Did not get away very early, being to buy several  
little things at H.D. Company's store, & make other arrangements.  
Followed Court road from Thicket to Virago Sand,  
occupying the entrance of latter opposite the Indian village.  
Saw many Colons, which is a sort of animal, but not  
Kong slivers. A Kong sea settling in from the west,  
penetrated land as the part of the Court settling in that  
direction. Saw a very large Shark off the rock point.  
It followed the boat for a little while & frightened Indian  
"Jin", who said that that sort of fish often make Indian  
Canoes & bite the Indians.

Aug 20. Coasted round the S.W. part of Virago Sand, occupying  
near to Elk settlement. Boat about two miles up the  
Ne-din River, just at the S.W. extremity. This a large stream,  
filled with the usual brown water. The day windy, heavy  
clouds a fog from the boat outside, the Indians shaw  
many white caps. Entered in the river or wind, warm sun  
& apparently different climate altogether. Camped near

absence of exposures of ordinary bedded Tertiary deposits, which may be supposed to underlie the igneous, but seen only in the one locality, where "coal" is reported, about six miles up the Ma-mit River. Perhaps wherever exposed deeply followed away, & inlets now occupy the valleys. The hills do not form the boundary Southward of the Tertiary area, but are also, as above described, pieces of Tertiary volcanic rocks, which, for aught known may extend far in that direction. The centers of volcanic activity would appear probably to have been around these ranges.

gl. The drift deposits on the whole resemble those of the Coast about Cape Bellas, heavy clays below, with frequent gravel beds, sandy above, & all very hard. In true boulder clay recognized evidence that of *Salinus* point may be present. Many glacially derived boulders, especially towards heads of fjords. Glacial drift present in a few places. The *Salicorua* are probably true drift fossils, of those from the Ma-mit R. Some drift may obtain as to whether or not later. Bedding well marked in both clay & sand deposits, false-bedding common in latter. Differs from drift deposits near Victoria in greater regularity & prominence of bedding of clays, & comparative absence of large stones & boulders in there.

The smaller, frequent *Salinus* very abundant in all parts of both coasts, & the inlet below. Salmon the only fish caught in any numbers. Kelp in many places. The ordinary boulder used very abundant along shores, also all stars. Probable that oysters would succeed well if introduced, as water

Some Indians, who stop here while we were pitching the  
tents. Tried to ascertain from the Indians, particularly as to  
direction of lake or, with probable wish to see it. Indians speak  
of many fallen sticks across the upper part of the stream.  
Could I have got to lake in half a day from the mouth of  
the river.

Aug 21. Continued remainder of inlet, & getting road ready to  
the Indian village - now quite directed for the port which  
at the last (new) town. Schooner appeared in the  
afternoon & anchored about 5 P.M. in lake opposite  
Indian village. At work till late on 22.

Aug 22. Devoted day to dredging in Verago Sound &  
harbour, at same time ascertaining depths of the harbour  
in several places. No very striking specimens procured,  
& several feet paucity of life. Upper part of  
harbour all mud, with many dead & broken shells,  
fragments of twigs or a but few living specimens.  
On getting back to Schooner found several Indian canoes  
about, with various things for sale, Bought some  
Pine from one man, also some Salmon.  
Sunderly wind all day, falling to calm at times. Frequent  
showers of rain, & comparatively overcast.

Describe

Thinks pine spruce timber from a white way back from the  
shore, probably from where was this harbour. The Ne-din River  
probably large enough to allow logs to be floated down from the  
lake above.

probably warmer, & much fresh water, with Coide flots.

Tow

Tow & Tow's brother. A hill resembling that called Tow on the coast between Marret & Rose Spit, occurring on upper arm of upper lake, called Tow's brother. Says that on some occasion Tow's brother despoiled the whole of some dog-pink, which in dispute between them, & that Tow being much angered went away to the open coast where plenty dog-pink, leaving his greedy brother.

Indian food

Indian food. Indians eat the Cambium layer of Abies menziesii, & the resin & not that of pinus contorta which also occurs in some places. Many thickets of Crab apple growing the shores on the Marret Lakes & much fruit on them but not yet ripe. Says that next month ripen. Then collected, boiled, allowed to remain covered with water till mid winter when gone over, stalks & removed & the whole mixed with blacken grease Quantum say, forming a Melicanus potulum according to Indian notions.

Carvers

Carvers. The Haidas great Carve-makers. At this season many occupied carving them out in the woods on the Marret Lakes & Marston & there. Bring them down to Village Colin & work away by little little in winter. They frequently take Carvers over from Pen to St. Demphon for sale, getting the rotted blacken grease, & other things in exchange, together with an old Carve to return in. Afraid to venture across the stretch from Rose Spit, the Coast road & Sand of Alaska & run across Smith when pen weather

Aug 23. Leave Virago Sound in the boat, for North Island.

A fine morning, though fog banks hanging about. Did not see any heavy though sufficiently so to prevent landing, except in sheltered situations. Saw a very large shark, which followed the boat for some distance, occasionally showing its back fin above water. Length estimated at over 20 feet. Got round to the new Indian Village shortly after 10 am. Land & proceed to make arrangements about getting a new Indian who knows the coast west of this, & dispensing with Jim.

There is quite a collection of Indians at the new town at present, on the occasion of the erection of the first totam post, & a plotch consequent thereon. The Kainani Indians, from the S. end of Alaska are daily expected. It is intended to abandon the Village in Virago Sd. as it is found that this place is more in the way of traffic & better suited to the wants of the Indians.

Edensaw says Indians from the north are constantly coming over here, but not to Virago Sd.

This may be, as this is the furthest northern pt, & is besides marked by a low but conspicuous hill which may serve as a landmark to Pavo's making the traverse.

Edensaw, the Virago Sound Chief, & the Masset Chief are both here. The former a decent looking & well dressed old man - though suspected of complicity in the robbing of a schooner in former years - the latter a stout Indian, remarkable from his grey hair & beard. Took photo. of the two Chiefs, & gave many of the

Village.

a a westerly wind. Old Idlusaaw says that formerly  
when starting for Victoria he frequently had 40 men in  
a canoe, besides various articles of property.

Number  
of Indians

Number of Indians. Mr Colman estimates the population  
of the whole West Coast, Nareset, Verago Sound &c at  
about 700. No considerable percentage of these Indians  
are at Victoria, a few go to Wrangell &c. Villages on  
outer West Coast & near North Island now abandoned.  
A considerable population of Haidas on S. islands of  
Alaska. Not the case however that they are original stock  
from which islands peoples. Indians say that the Haidas  
there take comparatively lately (Mr Colman thinks about  
150 years ago) Intermixture comes then occurring down  
some of the western bays from the islands & find a  
home near Dixon's Passage, & there still retaining  
distinct in language from any Indians of Mainland,  
connected with those of the island, & speaking even the  
same dialect. More difference between those Nareset  
the Skidegate Indians than between them & those still  
further west.

Fur seals

Aug. 8  
(see next  
date)

Fur seals begin to appear in fair abundance about the  
first of April, & the season lasts for about six weeks.  
About 800 skins purchased here each year for the last  
two years, before that as many as 2600, 2300, 1800  
purchased in a single season. Some years may  
young fur seals shot in the inlet opposite the village.

rest of the people as would come. That, however, dulled  
the idea, & especially the women, none of whom  
appeared.

Edensaw's  
country

Edensaw's great village was formerly on the S. of  
North Island. It was abandoned finally about  
ten years ago for Kiriago Id, & now another one is  
to be made. Long ago Edensaw says his country was  
at Rose Point, & then his people as he says landed  
originally when the flood went down.

Got away from the Indian Village at last, & rowed  
round the long point against a heavy sea & westerly  
wind. Continued on for some miles in heavy breaking  
sea, & then ran into the mouth of a small river known  
to my new Indian pilot, & moored the boat in  
shallow water. Camped on a sandy point, with trees  
shading from the wood & plenty drift-wood. Night  
fine. Got good shewchas for lot of time, though had to  
readjust my sextant, the horizon glass being by some  
means got a little out.

Aug 24. Tide far out this morning, but managed to  
get boat down the narrow strait river, & out to sea.

A fine morning but frequent fog banks drifting past  
Coast along, landing without difficulty where wish, as  
was sheltered from force of westerly swell by North Island.  
Stopped to take photo. of very remarkable pillar like  
rock in a bay. Rock quite isolated, over 80 feet high  
sloping top covered with bushes. Found of course  
conglomerate. The Indians here seem to stay about the  
rock which I cannot exactly understand, but it

*Furs*

Sea Otters. Now very scarce. Greatest number purchased in any one season for last ten years about 24. Some of them coming from the Alaska side. Shot at all seasons. Hunters as follows. A number of Indians in canoes scattered over the water. After seen, shot at & one killed, but not with any intention of hitting, dives. All canoes circulate & wait. Otter keeps lay under water, but at last comes up. Shot at again, & so on till at last weak & breathless can keep down very short time. All canoes now in narrow space, & at last when the Otter can scarcely keep down at all, some man kills it. He & his fellows in the same canoe get the whole of the way, give for the skin. If any Indian shoots at & wounds the otter, & he is afterwards killed by another, the first has to pay to the second the name of the skin by his Clumsy shot, thus very careful when & how they fire, & so several & dangerous perils as might be expected.

Bear Skins 50 to 100 purchased annually. The Hudson got very good hunters. do not kill the bear at the best season. necessary to follow into woods to do so. In Spring attracted to shores by the abundance of succulent young grasses &c. Indians then kill many. In fall, when Salmon runny, come down on shores to get fish, again many killed.

Fifty to fifty - Sand Otter Skins purchased at Masset, & 100 to 150 Marlin Skins annually.



would seem that according to them it was small fresh,  
& that some Chiniseyan Indians wished to remove it, probably  
this account. In the hollow between the base on one side.  
Since then it has grown very much. The Indian name  
is Hla-tad-Bo-woh

Made party passage & stop at Indian Village on S. shore  
of North Island for lunch. See on land of Lucy Island  
of Map the decayed remains of a shark which has  
been 25' long. It came ashore dead, or nearly so,  
& much grease was tried out of it by the Indians.  
Afternoon coasted up E. shore of North Island to  
Northern point. A strong westerly or north westerly  
wind blowing but did not experience its force, or that  
of its waves till we reached the north point, when glad  
to turn back, & return under sail to the Indian  
Village, where camped.

Sky clouded during early part of evening, but got a  
couple of observations on the pole star later on.

Aug. 25. Left tent & most of things at Camp. Crossed  
the passage, examined rocks along the S. shore. Then  
rowed out to Lucy Island of the map, across a wide  
bay with a ~~20~~ high cliffy island in it. The swell  
raised by the prevalent westerly winds & intensified by the  
stray breezes of the past few days rolling in about  
a hundred feet from crest to crest & breaking  
very heavily on the beach, when it would be impossible  
to land in a boat. Got back to Camp against heavy  
tide about 2 P.M. Spent part of afternoon sitting Indian

Elk (scapite) are certainly known to exist about the north west part of the Island, but very seldom killed, as we followed inland.

Salmon, according to Mr. Offutt (Squire) of H.B.Co. two runs of salmon. First a small fish with bright red flesh very good. Begins to run about middle of July & lasts about a month. Not in very great numbers, & not much sought after by Indians as they are then occupied at other things. ~~It is~~ Here seem to run to the "Suckeyes" of the Drovers. About the middle of August the run of large "Silver Salmon" begins. They are red fleshed & good while yet in salt water. Caught about the mouth of inlet or, but have dark bellied, deep-tongued, lean, & pale-fleshed when up the rivers. They run into all the streams, even the small brooks, are large, & rarely caught & constitute the Great Indian Salmon harvest. The Indians follow them up the inlet. Run lasts till about January. These probably run to the dark bellied Salmon of the Drovers, but seem from all accounts to be a much better fish.

Trout. Speckled, good fish, to be found in some streams at all seasons.

Barley grows abundantly about Wessel in the sandy soil. Barclay has been tried experimentally, found to grow to great height & ripen well.

woods from "Harry". Schooner in sight beating up  
toward Passage. Thuyt her so close at about 6 P.M.  
that put things in boat & started out towards her.  
Got into a tide rip which threatened to carry us out  
to sea, a wind at same time dying away, came to  
an anchor that schooner would not get in this evening, &  
might be so far off as to interfere with tomorrow's work  
if we were on board. Put back & slept at old Camp.  
Rain in the night

Aug. 26. Found the schooner at anchor in Bruin Bay  
put things on board, & then set out for the abandoned  
Indian village from which trail to the west coast starts.  
Took Harry as guide & crossed the trail, which  
leads more than  $\frac{3}{4}$  mile to bay S. of Cape West.  
The trail a very serious one, over & under Quas from  
logs & through thickets, all soaking wet from the  
frequent showers. Came out at the mouth of a little  
creek on a fine sandy beach on which the waves  
are breaking with a regular steady roll, from end to  
end. Went along shore to west point South, from which  
got bearings & sketch of coast as far as in sight. The  
shore remarkably rugged, here & southward. Broken  
rocky cliffs & rocky, pinnacled islands, with reefs still  
further out. On all these a great ocean swell never  
breaking & the water foamy with foam & a mist-holding  
along the whole coast-line from the spray of the breakers.  
At our lunch in a shower of rain at the mouth of  
the creek, & then returned by the trail. Found in boat, &  
after waiting some time set out along the shore toward the

Trees

Trees. The Spruce often attains a good size, & is at times very large. Common everywhere, & well from away from coast. Yellow Cedar not, as far as I can learn, found anywhere in large quantities of great trees. Scotch Pine everywhere in hills district in small numbers. Alder attains fine growth frequently, growing the shore mixed with the more formal evergreens in many places. Crab apples abundant. Hawthorn abundant & well grown. Cedar, fine trees on the flats in some places.

First  
Whites

First White Men. Edensaw says the name of the first white man known to him, or handed down to the present time as having been communicated with by the Indians is Douglas Captain of a small vessel. This was at North Island. Edensaw thinks, however, that white men were seen before Douglas, & that to the very first, the story below relates. It was near winter when a ship under sail appeared near North Island. The Indians very much afraid. The chief also very much afraid, but thinking no doubt that the duty of finding out about the new apparition devolved on him, put on all his dancing clothes, & went out to sea in his canoe, danced. The Indians say the men dressed in dark clothes were supposed to be shags, (which look somewhat like men as they sit upon the rocks) & that the unintelligible character & general sound of their talk confirmed the idea. One man would say something & then all would go aloft. Say something else & all would come down. A feat the Indians thought almost like flying.

bay in which Schooner lies. Found the boat high & dry on the beach, having been carelessly allowed to become so by the men cutting wood. Got out on board the Schooner by an Indian Canoe which put me there. Boat brought back 5 men after 9 P.M. when the tide rose again.

An unpleasant anchorage, as so open that the swell from the Eastward & cleared by the tide rip keeps the Schooner in a state of perpetual roll.

Aug. 27. By time water tanks had been filled, no wind in harbor waited some time with sails up, then got off with light air, but carried away by the eddy. Had to get boat out to keep schooner off rocks. Getting out of eddy about main tide, which breeze not sufficient to enable us to stem. Made the Wind of Lucy I. & after an unexpected attempt to get out against the tide in the North Passage, came to anchor opposite La Camp, & near Indian Village. Got off at slack water after a few hours, though again nearly carried down on rocks by tide. Proceeded Eastward with light wind & strong tidal current. Got a couple of sandwigs in the evening.

Aug 28. About opposite Verapoa Id. this morning & continued on general Northward course with light Easterly winds all day. Got two Cabs of lead at 11 & 130 fathoms in places pretty well filled by banks though weather thick. Also led the dredge down for about half an hour at the former locality, & brought it up full

Fow <sup>12</sup>

Seen from a distance, the hill Fow does not look so abrupt as when seen from near the shore on either side. It appears to be separated by a small gap from a second low broad hill, which is probably that seen south of Rose Spit on the E. shore, but here appears in line with Fow on the spit, or nearly so. This appearance has caused that hill to be drawn as it is on the maps.

Coast between Niagashid & North Island. Generally low land, with occasional rocky cliffs of 10 feet high along shore, but generally alternating low broken rocks & gravelly beaches. Few sandy beaches occur. Some rocks seen at a little distance off shore, but no signs of wide shoal belt like that E. of Masset. Trees along shore of the usual character, generally scrubby, owing to the exposed situation. Green grassy patches along the edges of the forest, & on sandy & gravelly spits of old formation. The remarkable dark pillar occurring in one bay has been described elsewhere.

North Island is all composed of low land, probably in the plain rising over 300 feet. The country to the south similar, though higher hills appear about abreast of Frederic Island on the west coast.

of Sand & brittle shales, with a few shells. attributed to  
same dates about outfit. Had a white flinty or. *Amphibolite*  
Spring *Flint* *Carriage* colored *truly* nearly faceted in. *fully* rolling Swell.  
Thermometer thrust into mud of dredge went down to 47°

Aug 29. In sight of Laysan Island early this  
morning. Under sail all day, getting inside  
Port Simpson about 8 P.M. Light westerly winds  
& fair weather with occasional glimpses of the Sun.  
Views of the Southern promontory & islands of Alaska  
through mist & clouds which seem ever ready to  
envelop them. Passed pretty close to Laysan Island  
to the north, also to N. Shore of Dunder Island. The  
outer Islands, as before remarked further south, generally  
low & seem to show slope of surface of older erupt. rocks  
outward. Landed on an island of the "Garbled Group"  
& got specimens of the rock, also little vein with some  
Copper pyrites, & evidence of glaciation seaward.  
Rocks of all these islands appear to be granitic or at  
least to belong to crystalline.

*Descript*  
A very fine view looking up Pottland Lullit as we  
came up this evening the mountains on its E. side  
singularly bold & abrupt. A fine peaked snow-  
capped mountain seen behind Port Simpson, the same  
on which a bearing formerly obtained from near Rose  
Spit. Like the rest shrouded in fog clouds & seen only  
partially & occasionally.

The rock which note made on the Chart this morning off  
Laysan Island, is probably the "Devils ridge" of which  
the position is doubtfully indicated on the Chart.

Origin of  
Chiniquans

The Chiniquan Indians are closely related to the  
Tsimshian & are in fact come down from the interior  
onto the coast by the Skeena River. The Skeena is not  
the real Indian name of the river, which is differently  
pronounced, & the name Chiniquan means simply  
people from the Skeena. Mr. Hall here at the H.B.  
post, who speaks the Carrier language well finds  
many collateral or similar words between it & the  
Chiniquan. The migration did not take place within the  
traditional memory of any Indians now living,  
but may not have occurred more than about 100 years  
ago. The Chiniquans displaced the Tsimshian Indians  
who now occupy the coast from the W. side of  
Portland Inlet to the Skeena. Their country being  
part of that of the Kaijani or winged Haida  
Indians. The Haidas have always been in the  
habit of presenting to the Maske to fish the Haidas,  
the Chiniquans allowing them to do so, or rather  
fearing, or being unable to prevent them.

Haidas. Mr. Hall of H.B. Co. writes that a custom among  
them that when a girl arrives at puberty, she goes about for  
a time in a peculiar Cedar bark cloak, which conceals the  
face. Afterwards a sport or time of grieving occurs.

Level

Ptolas borings. North I. In the large bay near north of  
Perry passage on E. shore, on S. shore of Bay. Found  
distinct ptolas borings in Calcareous shales, above present  
H.W. mark, <sup>at least</sup> above the position in which these shells would  
now live.



at the time seen, breaking several occasionally, but not  
often. The sea moderate, & the tide nearly full.  
It would be a dangerous rock for vessels entering  
the Channel for Port Simpson, from Dixon's Strait.  
It is at close, for with the generally low character of  
Lays & other islands, the Wharves does not appear to  
deepen ~~from~~ far or regularly. Breakers extend  
far out from Lays Island in several directions  
& little rocky islets near shore.

Got a large mail here, the first we have received  
since leaving Victoria. Spent late evening letters  
& looking over papers.

Aug. 20. Spent most of day with Mr. McKay of the  
H.B. Company looking at his specimens, &  
getting news of interest about the coast. Got  
a photo. of the Village of Port Simpson, R. of the  
settlement, & the harbor from a hill. Visited  
Mr. McKay's "Chinseyan Lodge" The H.B. post or  
post house, well in the usual style, in good repair,  
Building painted white & red facing on a quadrangle,  
surrounded by a picket fence which once had bastions.  
One of these I take standing ~~now~~ used as a hay barn.  
A lot of Chelcat Indians from the country bordering  
on the Beringian in Alaska around the trade  
today all day claiming goods & bargaining over them.  
Brought down a valuable lot of furs which they have  
themselves bought from the interior Indians.

Solachans on the Masse. The first & first run occurs about the middle of March a second smaller run is said to occur in June.

Coal. An indistinct report of Coal on Wark's Canal, but appears unlikely to be true.

### Distribution of Caribou.

Moose. Are found to within about ten miles west of Ft. St. James, Stuart Lake down to Ft. George, & in the whole country north east of the chain of lakes of which Stuart L. is one. Caribou very abundant E. of Ft. George, also on hills west of the Pursuit & Blackwater trail. Extend to the 49th parallel near Okanagan in winter. Abundant about the head & N. side of Francois Lake. The Small red deer, formerly ~~was~~ found westward only to Ft. George & not common there, now abundant about Ft. Fraser, & found also on Stuart Lake near the fort (Ft. St. James).

Grizzly bear, said to be two distinct kinds, large & small, but with uncertainty about specific lines during years the note of much value.

Copper shown four specimens of copper pyrites & bornite by an Indian. Said to come from a place a little below the Forks of the Skuna, & to exist, of course, in great quantity. Indian believes the locality unknown to whites.

Aug. 31. Had intended leaving today, but a strong south-  
easterly gale, with squalls & rain in progress, & judged it  
better to remain. Went ashore & made arrangements  
about some additional supplies - Carried beef & butter -  
Afternoon went round harbour in boat examining rocks,  
though the strong squally wind, with rain, rendered  
it very unpleasant, & quite a disagreeable sea had  
got up towards the north, & water sud. Shot a few sand-  
plover on the way back. Wrote up some notes. Evg.  
paid a visit to Mr McKay of the H.B. Co, getting on  
board cutter late, & sitting up reading till nearly  
twelve.

Sept. 1. Weather appearing more moderate, got away  
this morning, but found a very strong head wind. Having  
beat southward slowly, arriving after dark opposite  
Metta Ketta. Weather thick & spraid to run in.  
Beating about outside all night, with lighter wind.

Sept. 2. Found ourselves early this morning back, about  
abreast of St Simpson. Gales were favourable  
wind & reached Metta-Ketta about 10 am. Visited  
Mr Duncan, who received us cordially. Afternoon  
went round the harbour examining the rocks & got  
photo. of part of the town. Evg. spent with Messrs  
Duncan & Foulinson. R. decides to stay here to  
catch first steamer which Mr Foulinson also  
waiting. Up late getting things packed & arranged.

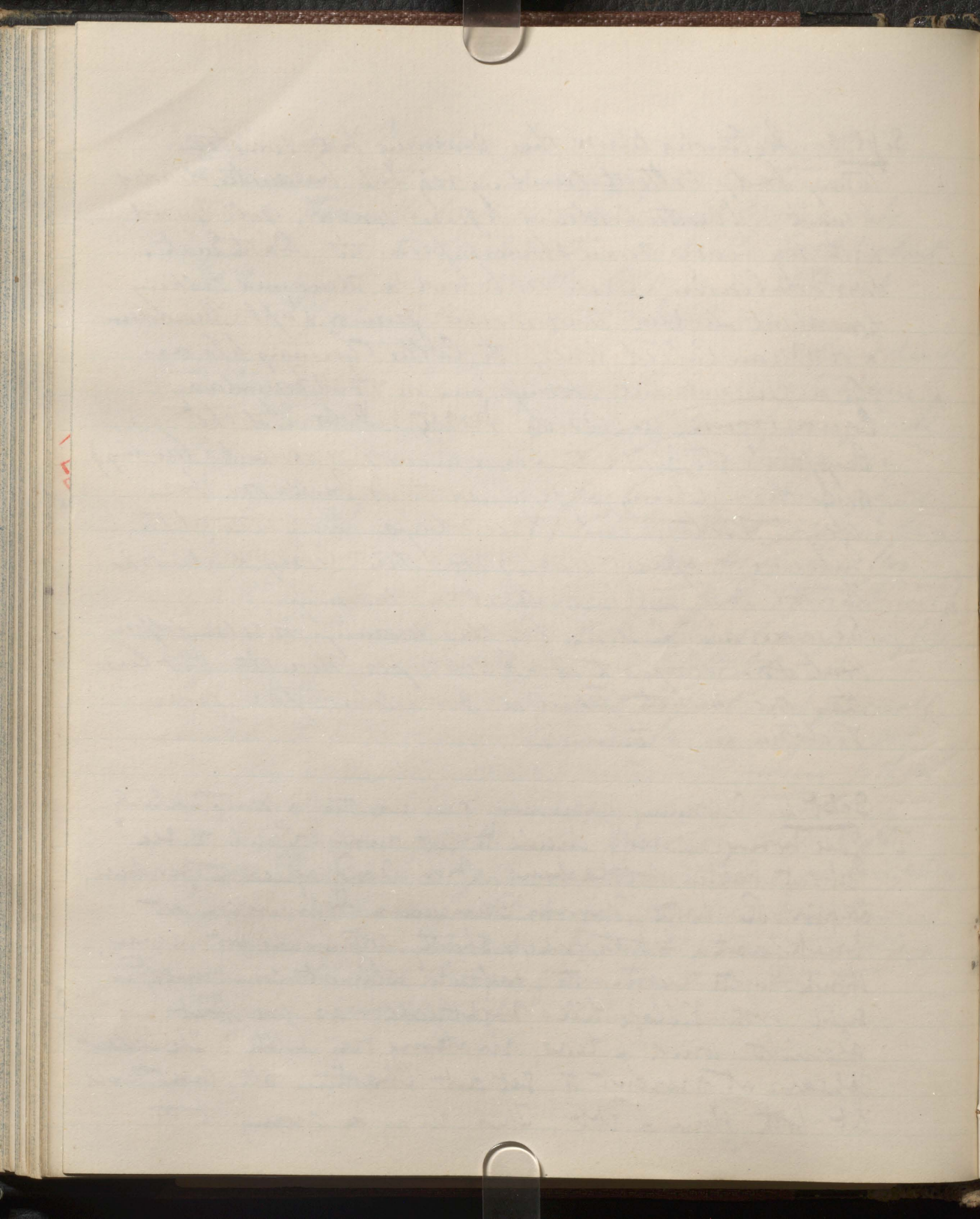
Gold Capt Madden has a few small quartz specimens with large pieces of gold scattered through them. He says the lodes are well defined, & he hopes to be able to do something with it. Locality about 60 m. up the Skeena on the left or south bank. The gold "free" & little pyrites visible.

*Describe* The several blocks of land separating the <sup>adjacent channels</sup> mounts of the Skeena with the exception (only?) of Digby Island are generally high & mountainous, rising steeply, or with a very narrow sloping foot from the water's edge. Kennedy Id. is also of this character, exceedingly bold land, sloping down into Arden passage at a very steep angle. On the face there are great bare "slides", showing solid rock <sup>(straps granite of parent)</sup> from face to summit, one of them connected with a bank. These slides precisely like those seen frequently in the Queen Charlotte Islands. Grenville Channel opens rather widely at first, but gradually contracts, the hills immediately bounding it are at first not very high, and densely wooded, further back, however, both on the mainland & Pitt Island mountains show bolding extension patches of last winter's snow, in deep drifts occur. The summits of these are bare & treeless, & even when they show no snow, whitish, from the almost continuous exposures of granitic rocks. The rivers & some of the valleys & glens which lead streams from these down into the Channel, singularly wild & beautiful.

Sept. 3. Intended to leave this morning but weather turning bad, notwithstanding very high barometer, decided to wait. Weather continued to grow worse, gale joined with very heavy rain showers from the South East. Mr Foulinson came on board, & remained talking till about 4 P.M. Had a visit from a Capt. Madden & a man called Jones, the latter claiming to be an old acquaintance, having been on the Boundary Commission in Ash's party. Told that the "Grappler" stopped at Suverens (Woodcock's landing) early this morning, & promised to be back on her way to Victoria in three days. Took tea at the Mission & spent part of Ev. then, leaving R. in hope that we may be able to start in morning.

Engaged an Indian boy this morning for extra helping boat &c. Wages to be \$20.00 per month, not less than one month paid, & \$10. return fare from Victoria in steamer.

Sept. 4. Morning promising fine weather, & South easterly gale having ceased, decide to get away. Land to see about barrel of blackens which I had agreed to purchase, & fire R. with Messrs Duncan & Foulinson at breakfast. Set the fish, & shortly afterwards get away, though after leaving the harbour almost constantly in sight of the Village till night fall, as we beat against wind & tide, making very little. The current appears at present to set out Chatham str. northward at both flow & ebb. This may be owing to the



Volume of water discharged by the Skeena, or to the present prevalent South-easterly winds.

Had the dredge over opposite Mulla Katta is about 50 fathoms, & brought it up full of slimy mud & stones, some several inches in diameter, mostly were a luscious water rounded, but with occasional angular fragments. In the mud found one living & several dead *Rhynchonellas*, a few *Sedas*, a brittle star, & one or two other shells. Life very scantily represented. Such a deposit as this might almost form a "boulder clay". Have not before struck similar bottom & judge it not improbable that the stones may be brought down by floe ice from the Skeena in Spring.

Wrote up notes, did some plotting & attended to several other little matters which have got behind.

Sept 5. Found ourselves this morning off the Skeena, with Luremers in full view, though at a considerable distance. Light baffling winds all day, with heavy tide running out against us most of time. Getting abreast of White Cliff Island, where some men are trying to open a marble quarry, went ashore for a few minutes to inspect it. Forward evening got a little puff of fair wind, with rain & distant thunder. This pushed us on nearly to South end of Kennedy Island where again becalmed. Did a little plotting, reading &c.

Sept 6. Drifted back last night with the tide, which appears to flow on by Ogden Channel at the flood, got into Chalmer's anchorage, abreast north end of

Describe

That of the land about Wright Sound, rises at once steeply, a without beach, from the water to mountains of considerable altitude. Some of these especially that on Gill Island, or on South End of ~~Selkirk~~ <sup>Harplesbury</sup> Island, are peculiarly picturesque in form. The latter range, called the ~~Unimble~~ <sup>Unimble</sup> Mts. on the Chart, slopes to the north west, breaking up in a series of abrupt steps like escarpments in the other direction, almost as though dependent on its form, on bedding of massive strata.

These mountains of the off lying Islands, are however pyramical to the serried & snow-burdened ranges which form the axial summits of the Coast Range. Looking up Douglas Arum, from Wright Sound tier upon tier of them, glowing in the pale rosy light of a rather cold sunset, appear. Fields of driven snow of great size, or widely in some places of immense depth, shroud their summits while here & there a long ridge, or sharp crag stands above the white surface. It would almost appear that some new snow has already fallen this autumn on these unnamed & unmeasured giants.

Mc Kay Reach, Francis Reach & Graham Reach.

The first named, wide, & transverse to the general course of the ice and waters about here. Some fine mountains, of which the peaks still hold a little snow, on S. side (see sketch) Mr Mc-Kay informed me that Schistose rocks occurred here, but that I have seen from the schooner for the most part



Kennedy Island. Morning calm, went ashore for water,  
& got additional supply of wood. Light breeze springing up  
from north or north west between 10 & 11 am, got away,  
& for had moderate to light fair wind light afternoon  
since, making a fair afternoon's run. Did some  
plotting, wrote up notes, read, & attempted to clear my  
sketch of Portland Channel. A very fine day, with much  
sunshine, & the moon & Jupiter were shining brightly ahead.

Sept. 7. Nearly out of South end of Greenville Channel  
this morning at breakfast time, having been forced during  
the night by breeze & tide. A light head wind springing up,  
however set us to beating & remained beating about  
mouth of channel most of day. Even when tide running out  
strong below a surface current, probably impelled by the  
wind & only a few yards deep, kept dragging us back  
into the strait. Sailed, & got a photo. of Channel from  
Yolk Point. Anchored for a time in a cove, as we  
continued to drift back, but finally in the afternoon, getting  
a fair wind, set off & now (8 am) have crossed Wright-  
Sound & are fairly in Lewis Channel. McKay Reach  
The "California" passed us close on the way up today. Still  
no news of the "Grappler" or "Otter".

Sept 8. Beating about, with light baffling winds, in  
McKay's Reach all night, & a considerable portion  
of this morning. Could see ahead of us all the time  
the fine breeze drawing into & down Fraser Reach.  
Finally, by aid of the sweeps, got into the wind, &

Evidence granite, gneiss, or diorite (= Diorite  
& White. Frier & Graffen reaches, are really parts of  
one long narrow passage, which in its character  
is more rugged than any other we have yet been  
in, in coming from the north. The mountains  
surrounding the channel, are not very high, but some still  
hold masses of snow or steady aspirars, but the  
exception of the less height of the mountains, the channel  
resembles the upper reaches of some of the fjords. Many  
of the mountains are almost bare massive blocks  
of grey granite. When they are covered with timber it  
is small (except occasionally along the water's edge) &  
scrubby. Cascades fall in on every side, & the roar  
of a large waterfall fills the quiet mountain-fenced  
passage opposite Wart Island. This waterfall is the  
overflow of a lake, which by the apparent size of the  
fall in the mountains must be large. A little  
further on a second stream of considerable size flows  
tumultuously out, (also on the W. side) & here a  
party of Indians were camped salmon fishing.  
They called to us, but did not come off.  
Rocks almost everywhere in higher parts, appear massive  
granitic. Along shore noted strat. rocks, gneisses or  
quartz schists, in several places, but did not think  
it worth while to stop to look at them from their mountainous  
character. On the west side of Wart Island, rocks  
apparently sandstone, & seem to include a bed of brown-  
weathering limestone.

Glaciation noted as rock rounding & distinct &

here ever since been making good progress Southward,  
being now, 8 P.M. not far from entrance of Folvie  
Channel. Did a little sketching & some reading today  
though generally lazily inclined. Weather remarkably  
fine, & the scenery wild & magnificent.  
"Grappler" passed us on the way down at 9 P.M.

Sept. 9. Floating slowly along without wind in  
Kleinton Passage this morning. Sea bright & perfectly  
calm. Went ashore on a small island & took a photo.

Looking north up the passage; which if it develops should  
show curious effect of kelp & reflection of trees in water.

Seems, however, rather an act of Faith to expect an  
"Extra Sensitive" plate ten or fifteen seconds & expect to  
carry away a picture! Getting a little wind, at  
length beat out, & now floating about, again  
becalmed, in the Centre of Milbank Sound. Ocean  
all open to the S.W. but scarcely any swell.

A lovely night, full moon & many stars, as last night  
left faded from sky, the clamorous din of sea-fowl  
on the water & distant rocks, with the occasional  
sharp snort of a whale blowing at the surface, or  
the distant sound of one breaching — Combined to give  
a peculiarly weird effect. ~~with~~ A distant unvisited  
haunt of the Creatures who congregate where man is not.  
Sketched out plan of report. Reading 92.

Sept. 10. Nearly becalmed all night, & calm continued with  
scarcely a break till noon. Bright sun & smooth water.  
Drifted a little this way with the tide & that way with the

heavy flooring in many places, in the Channels  
traversed today. This both at the water's edge, &  
a thousand feet or more up the mountain sides.  
Direction as might be expected always parallel to  
Channel, though frequently across slope up, or down, ~~and~~  
~~especially~~ on nearly vertical surfaces.

The point between McKay Reach & Jones Reach, is  
terrible fluviated as though by ice coming out of passage  
to North.

Bella Bella  
Indians

Bella Names of Stars &c. Stars To-toa  
Moon No-si. Sun Klik-si-roalla  
Orion's belt, Il-i-waha. Pleides Il-i-waha-so  
Great Bear Klak-tsoo-wis. North Star Paiice  
(They are unacquainted with the fact that the north star does  
not move) Kwa-Kum probably the Dog star. (Sirius)  
Milky Way Kum-e-e

When asked as to origin of Judicious Ham-chit gave me  
the following. Very long ago there was a great flood, the  
sea rose above everything, with the exception of three mountains.  
Two of these are very high, one near Bella Bella & the other  
apparently N.E. of it. The third is a low but prominent  
hill on Don Island called by the Indians Ko-Kous. This  
they say rose so as to remain above the water. Nearly all  
the Indians floated away on logs & trees to various  
places, thus the Kit-Katta's floated to Fort Rupert,  
& the Fort Rupert's to Kit-Katta. Some Indians  
however appear to have had small canoes, though the  
making of canoes W.N. will understood in these days

wind, but made no real progress. After noon a nice little wind rising, sailed into Seaforth Channel & just about Sundown anchored at the Nil-Kito Indian Village of the Chart, behind Grey Island. The Indian name of the village is Kā-Ja, according to Charley Ham-Chit (the latter being the Indian name). This man is the Chief, & came off to us on our arrival with a wreath wreath of red-stained Cedar bark about his head. He seems very intelligent & had a long conversation with me after supper.

Sent a couple of my Indians off to Bella Bella with a note to H.B. Sturt asking them to keep any letters which may come up in the "otter". Promised them a pound of tobacco for their trouble.

Got the boat on the beach to try to find out where she leaked, but could not succeed in discovering any large break. She begins to be rather frail & strained through, & much contact with rocks & hard usage.

Sept. 11. Made an early start in the boat, with the Indian above mentioned, & his wife, in a small canoe, the Indian to act as guide to Mr Mc Kay's "Hebrew" mine. Rowed up Ellerslie Channel of the Chart a long way getting to the mine about ten o'clock. Examined the little tunnel which has been driven, the ore at its mouth &c. Had lunch, & at noon, set out on return. Strong head wind, causing us to have a long & heavy row back, getting to the Schooner about 6 P.M. A fine day, with a good sailing wind in the afternoon, had we been travelling. Found the Indians who had carried my letter to Bella Bella last night waiting to be paid, also an Indian wishing to

Here accompanying their canoes, came down when the water subsided near Howe (He stays a little confused here & the precise use of the mountains is indistinct) At any rate, they remained at least of Bella Bella just three, two men, a young woman, & a dog. One of the men came down at the village where we are now anchored, another at a village site near Bella Bella & the young woman & dog at Bella Bella. The young woman slept & the dog married her, giving rise to a being half man half dog. Similar Creatures soon multiplied, & these eventually turned into the Bella Bella Indians.

Fire, first given to the Indians by the deer. This animal it would appear showed them how to use the fire drill.

When the flood went down, there was no fresh water, & the Indians did not know what to do. The Crow however showed them how, after rating to chew fragments of Cedar wood, when water came into the mouth. He also it would seem, by showing them where to get a little water by digging, & soon a great rain came on, very heavy & very long, which filled all the lakes & water courses, so that they have never been dry since. The water however is still in some way connected with the Cedar & the Indians say if no Cedar no water in the country. The reverse at least would certainly hold good.

Hem. Chit says the Indians are always talking away themselves about their decrease in number. Long ago he says they were like the trees, in great numbers everywhere. He faintly alludes themselves (as he says) the white river

Sell a deer - for what he got a dollar - another with same  
habitat &c. Our guide last night asked me for some  
old Illustrated News. Today he wants a Cup of flour  
to make paste & stick them up in his house! Probably  
Should we wait here tomorrow he will be along asking  
a bush.

Sept. 12. No wind in the early morning, & very light air for some time  
after it began to come in. Beat about the entrance to  
Ellerslie Channel, but did not get fairly out of it till noon.  
Then got a good breeze, which passed us up Seaforth Channel,  
bringing us to Bella Bella about 5 PM. Went ashore in  
boat to leave a few letters, & found a note from R. with  
a few papers & plate dials he had picked up. Looked at  
some specimens of ore Mr. Leyton had, & then set out  
after the schooner. Light variable winds during early night.  
A very fine day, quite summer like.

Sept. 13. Got a good fair wind after getting through Louisa  
passage, sailed down FitzRough Sound, finding mudrocks  
in the morning not far north of Safety Cove. Wind falling  
& then coming ahead, kept us heaving most of day.  
Went outside the point of Seundorn, & shortly afterwards  
a good breeze coming up, made five papers for a couple  
of hours, when again becalmed. A magnificent  
day. Saw at a distance six large Canoes of  
Neboutti & Ukaltaw Indians on their way to  
Bella Coola + Trade Blankets for potatoes. Wrote post post.

Sept. 14. <sup>2 notes on Haidas.</sup> Becalmed, & rolling about in the open  
~~water~~ off Cape Caution, most of day. Light air in the  
afternoon enabled us to make the land, but strong tide

men fight among themselves) Some were killed, but always war was born & the whole country teemed with them. Now he says the white men have come, & the Indians Chaco wamaloore, Chaco wamaloors, & soon there will be none. He pointed out to me the former extent of his village & contrasted its present shrunken size. Yet he says there is plenty food, plenty fish, & we have various things from the white man which we did not know before. The Indians do not fight among themselves or with the whites, only for a few years was whiskey introduced among them & they were enough to do much harm & get they die. The Indians he says do not know how to explain it, but as he says - Klunas Saphalic tye Mamook.

Nawitti Indian Village. The houses not built on the old ponderous style, whether that may ever have been in vogue before or not. No carving indulged in though rude painting of the flat fronts of the houses has been practiced, now very plain. The but marked design represents two 'heraldic' birds, in black &



red fighting, one on each side of the door. One small carved "totem post" in front of the Chief's (Cheaf) house. Also one other pole with a cross stick & two men upon it, intended apparently to represent a mast & yard with two sailors aloft.



running out obliged us to anchor in Shadowed Passage,  
A fine & warm day, enjoyable enough but for the  
sound of the horns & seals larking about as the rollers  
passed under us. Saw several sea lions & a couple of  
large whales playing about. Boarded the boat of some  
Nawitche Indians, made inquiries about coal reported  
by the Chief Chip, who is now off with the Bella Coola party.  
A magnificent night, bright moon & stars, nearly calm.

Sept 15. Interviewed a couple of Indians about the coal  
reported near Cape Commerell, but as the stars, indefinite  
& distance great, - at least twelve miles - & the locality  
on a very open coast where it might be difficult to effect a  
landing, decided not to visit it. Waited till about 11 am.  
for tide to turn, got some wood & water on board, & eventually  
got away, beating up the strait against a westerly wind.  
Now at 8 pm. Rolling about a little beyond Cape  
Commerell & some miles off shore. The wind has brought  
us so far but left us in the lurch.

We worked yesterday evening on the turning of the tide, from our  
anchored anchorage in Golias Channel to a snug cove  
at the Nawitche Indian Village. For several hours this  
evening the most doleful crying & wailing was kept  
up by some women in one of the houses. Learned that  
this is the ceremonial mourning for a little child who  
died a few days ago, & has been some days, buried  
- or housed - The women were relatives & went on  
with their work ~~while~~ more or less steadily while  
uttering their heard-rendering cries. A sort of wailing,  
mingled with interjections, & sentences probably referring  
to the deceased.

Kiskimno  
tools.

Sea-otter food. Said by the Indians to consist chiefly of sea urchins, clams, & fish. The sea-eggs - probably the large kind - are eaten without breaking the shell. The clams are broken, & our guide at Quabine told me a story, which I could not quite understand, about the otter carrying a "stone" under his shoulder - below the arm - with which he breaks the clams. This "stone" the otter does not loose when he dives, nor even when shot & killed. Some of the Indians he says bore many of these stones, & if I understood him aright, the "stone" sinks in fresh, but floats in salt-water.

Ko-ski-mo The name of the tribe & region, including the upper part of Quabine Lake of the chart. The name is the same as that of these Indians for the Sal-lal bush.

Tobacco the Kiskimno use the roasted leaves of the Sal-lal to mix with tobacco, but also know the *Arctostaphylos* & would probably use it by preference when it could be found.

Stone-hammer. Found one of the dumb-bell shaped ones in actual use among the Kiskimno Indians.

Yew wedges. Employed in splitting up dead wood for fire-wood, & apparently very effective, especially when applied to half-decayed dry cedar which is often used by Indians. The head of the wedge bound round with wires to prevent it splitting or breaking out when being driven.



Sept. 16. Rolling about all day, drifting a little one way & a little the other with the tide, but not enough wind to fill the sails. Dull gloomy weather. Begin to repent that I ever set out on this Quaternary expedition, which seems about to involve such loss of time, discomfort, & possibly bad weather. Friends evening a good breeze springing up got away again, but no certainty of its continuing. Decide if not much further advanced tomorrow morning to give up the Quaternary expedition.

Had the dredge over twice, in about 15 fathoms, but got little of interest. The water shelves away very gradually here, & the rapid tidal currents appear to keep it quite clean. Composed of gravel & rounded & smooth stones, with little bryozoa or incrustation. A few shells, mostly dead - & many small brown Littorinans, sea-eggs, & star fish of common beach varieties.

Sept 17. Got round Cape Scott at 2 Am. & at 7 Am. not far from entrance to Quaternary, though some distance off coast. Steered in on recognizing the opening, but wind dying away, & then coming ahead it occupied till 4:30 Am. beating up into North Harbour. When anchored, went ashore & examined rocks, delighted to find old friends in the "Laggy arpillites". Hope now to find out more about their relations with other series. One Indian canoe came up to us, with a man, woman & small boy, but quite unversed in English, & satisfactory communication impossible. A fine day, though probably blowing hard outside. A pretty glow of pink over the purple mountains at sunset.

Burial  
Cave

Sept. 23. Visited Cave which on W. side of Quatrics  
Narrows of Chart, was then Southern entrance, & only  
a short distance round point from Indian Village.  
Cave 40 or 50 feet up a steep, cliffy bank from water's edge.  
In limestone. A rather symmetrical broad low entrance as  
seen from a distance. On entering, the floor at first slopes  
steeply outwards, but soon becomes more nearly level, & runs  
back for 30- or 40 feet. The average ~~breadth~~ width of the cave,  
about 20 feet & the height 8 feet. The roof is hung with  
Stalactites, which are all however blunt, old-looking & dirty.  
Stalagmitic protuberances also appear in places on floor,  
but no signs of recent drips. The cave used as a  
burial vault by the Indians, but as I understood  
my guide, none has been put here for a long time, & only  
men of importance are accorded a place here. My guide  
had never seen into the cave, & would not come up to  
look at it. In the innermost recess a mass of rough  
boxes - Coffins - of various proportions, but all suited  
for doubling up the body in the usual Indian style.  
These made of split cedar planks, & tied together with  
cedar bark ropes. Some on the ground, some on top of others, &  
some sheltered on boards supported by a plank or two. On the  
left side - on entering - several Secular boxes piled together,  
& on the right, a few broad boards braced up against  
a rich, probably holding a single body. All the boxes  
look moderately <sup>Indian</sup> ~~fresh~~ <sup>fresh</sup> & strong, though in this dry place  
there is no reason why they might not remain so for  
an indefinite period. Noticed one small square  
box probably holding some property of the dead, & one

Sept. 18. Early breakfast, & off in boat up Forward Lulit,  
avoiding rocks. Found a locality rich in fossils, giving  
attractive appearance, but gathered a number. These belong  
to the coal measures, of unknown age, which appear toward  
head of Lulit. Found Indian Village & got an Indian  
as guide to the coal locality, who could speak a little  
Chinook, but very little. On landing at the village found  
all the people collected in front of one of the houses & as I  
came up all joined in repeated chorus of Chah-hoya tyee  
& Klooshe, the two Chinook terms they seemed to  
understand. Then they repeated over & over again together  
with much in their own language that I could not understand.  
They evidently very seldom see strangers & appeared in  
their manner quite as though apprehensive that I had  
all the power & might want to use it, by which they  
might be annihilated in a moment. The women all  
have their heads deformed in the manner peculiar to this  
tribe, being bent forward up in infancy so as to  
assume a comical shape. They appear all very poor,  
wretched, & dirty & are about the worst miserable &  
degraded looking Indians I have seen. Only the  
men appeared to be away, allowing for them in proportion  
to the females there should be 35 or 40 people in all  
belonging to this village. On way back stopped to take a  
photo. of the natives, but had endless difficulty in  
getting them to understand what was wanted, to go to the  
right place, & finally to sit still. The photo. if it turns  
out visible at all I fear will be a very poor one.  
Got some reason with them at last by offering them  
a biscuit - all round if they would sit. Two men came

Large wooden dish of peculiar shape. Somewhat like  
this, a model carried. At the  
mouth of the Core a few poles, to  
one of which is still attached a  
~~piece~~ piece of white cotton  
cloth. If the last mentioned



of same date with this, cannot be very ancient, but  
not improbable that ornaments erected in honor of dead  
here, long after death, as elsewhere practices.

The floor of the Core, besides the stalagmites already  
mentioned, is deeply covered with whitish dry earthy  
material, on which a few scattered bones apparently form  
evidence of burials still earlier than those above  
mentioned. The Core really a "rock shelter" & would be  
interesting to explore with pick & shovel, though this must  
wait for some future day, as at present the Indians  
would doubtless not only object, but possibly interfere  
with any such ~~excavation~~ process.

down to the Schooner afterwards for the biscuits.  
Found the coal cabinet deficient, thanks to our guide, had  
lunch on the spot, & examined it as careful as possible.  
Got back to schooner near night fall with plenty work  
to be attended to in the way of 'noted' specimens.

Sept. ~~19~~ 19 off in good time with Charley & Indian Johnny  
in the boat. Morning dull, overcast, calm & rather foggy.  
Examined north shore nearly to Heate Cove, when camped  
on a narrow & rocky gravelly beach, being overtaken by  
darkness. The schooner, which was to follow us as soon  
as possible, got out & having a fair wind got abreast of  
Camp about 9 P.M. Fearing the fog, under impression that  
fog might be ours, but did not answer, thinking that if  
schooner had wind that she should go on to Heate Cove.  
Soon, however wind dying away, schooner drifted back with  
tide & bearing then at work with the snugs, I called out to  
schooner soon anchored in sight opposite Camp. Struck  
tent packed up & went on board. Visited by a canoe  
full of Indians at Koprino Harbour. Most of the  
tribe were at mouth of river there Salmon fishing. The  
Indians a little forward, but appear good humoured  
& some of them can talk good Chilkoot.

Sept. 20. Awakened this morning by the sound of paddling,  
then the rubbing of harrows against the sides of the schooner,  
the clambering of Indians on deck, & the hub-bub of their talk  
as they coolly proceeded to examine everything, & look down into  
the cabin, quite blocking up the hatch with their heads. Men  
women & children. We are it seems only a short distance

8 Tribes of Indians speaking closely allied languages,  
 & which may be grouped together under the name of the  
Kiwā-Kuhl Nation.

<u>Name of tribe</u>	<u>Present chief</u>	<u>Country.</u>
Kō-ski-mo	Kwa-hi-za	Great part of Quatsino Is. of Chart.
Kwat-zi-no	Ow-it	Forward Sulut
Ni-wittai	Kow-mād-a-kwa (or "cheap")	Hope or Lalauds & certain part of Vancouver I.
Kiwā-Kuhl	ō-ut	Fort Rupert
Nim-Kish	Kla-sho-ti-awol-ish	Nimkish of Charts.
Li-Kwil-tah (= Ukulta)	Yai-ko-tl-is	Cape Mudge
Mam-il-i-li-a-ka	Ni-kē-dzi	at 200 miles into inner Quatsino Islets Kwā-kūh-kūh (or "inner sound")
Kla-wi-toah	Hum-tzi-ti-kum-a	Near about Hope or southern end of Lila Channel Hawanna I.

also these  
 belongs there

Nuk-wol-tuk. Mouth of Seymour Inlet  
 Jan-uh-tuk. Head of Knight's Inlet

Sea-wutti-ē-muh. King Walker's Id.  
 Met-ul-pai. Haranna Channel

Douglas fir. In coming from the north find this tree about  
 the extremity of Vancouver I., very not in great abundance.  
 About entrance to Quatsino Inlet, very few, but abundant,  
 forming extensive groves on upper reaches of the Inlet.  
 Similar distribution obtains, I believe, elsewhere along  
 west coast of Islands.

Rwi-ha or near Valdez.

Wē-wē-kum. Inlet of Rodolphe Channel.



from the main village, which situated on the E. side of Hudson to  
Heate Cove of Chart, a boats of about 15 hours. Not built in the  
same substantial style as those of the Naidas, but large & strong  
enough. The Indians here know very little Chinoise & are quite  
unrefined. Schooners seldom come into this inlet, probably  
never so far up as we now are. No trading is done is  
at Fort Rupert, the trail leading across in about half  
a day. Went back on work this morning & examined rocks  
piled over after dark. Then crossed to Smeaton's I.  
& on a small islet near it - found some fossil corals,  
siliceous, but in a poor state of preservation. Returned on  
board schooner, got specimens packed up & other preparations  
made, though much annoyed by the ingenious devices &  
many wants of the Indians, who seem to like nothing  
better than working all over the schooner. One old woman  
especially troublesome. Knowing a little Chinoise she  
persuaded me thus to come down into Cabin, had a great deal  
to say, & wanted to see everything.

Got off after lunch with Williams, Charley, & an Indian  
guide, who knows how to row pretty well. Called in at  
Indian Village to let our gentleman get his pipe. Then  
rowed up through the narrows & to Coal Harbour, where  
camped a little before dark, near a small camp of Indians.  
One of them offered to show we saw coal up a small  
stream at the head of the harbour. Took me in his canoe,  
the boat going on to Camp. - & showed me some drift  
coal in the brook, & some also packed into a muddy  
drift, but not in situ. Could speak very little Chinoise, but  
his wife, who sat in the bow of the canoe & was rather

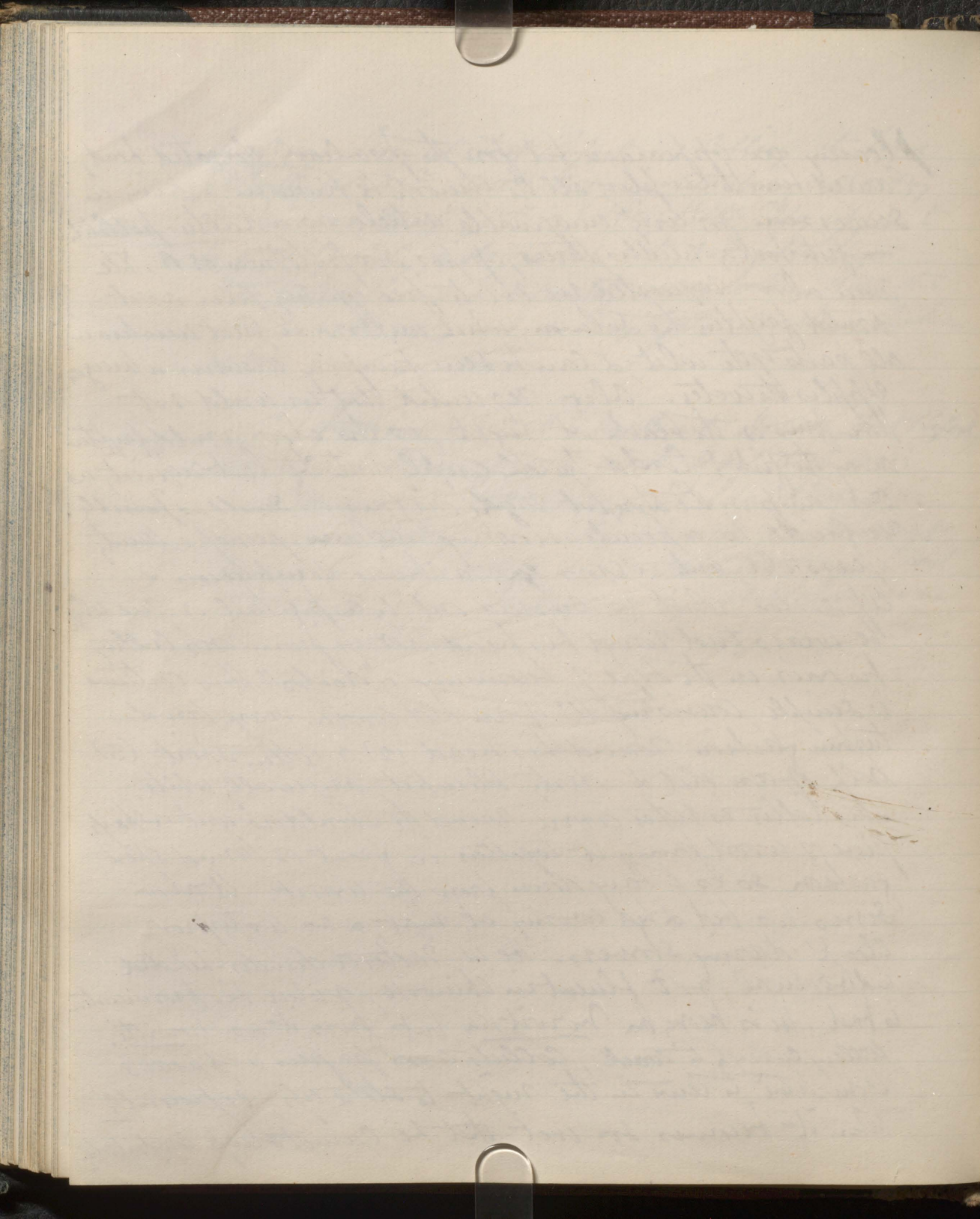
Fort Report  
Indians

Indians living at Fort Report, or Colley it have probably do not exceed 200 in number, according to Messrs Hunt (HBCo) & Per. Hall. They appear to be a dirty, ugly, & degraded lot, not better than those of Keskemo, & infinitely worse looking than the Haddas, Chusyans, or any of the northern Indians we have seen.

Coal

Coal. Indians reported to Mr Hunt. (HBCo. Fort Report) that he had seen a seam of coal about 2 feet thick on a river running into Hardy Bay. The locality can be reached in a day or two when the river is low, at present season (Oct.) would take two days travel to reach the place. Indians says about as near Keskemo as here.

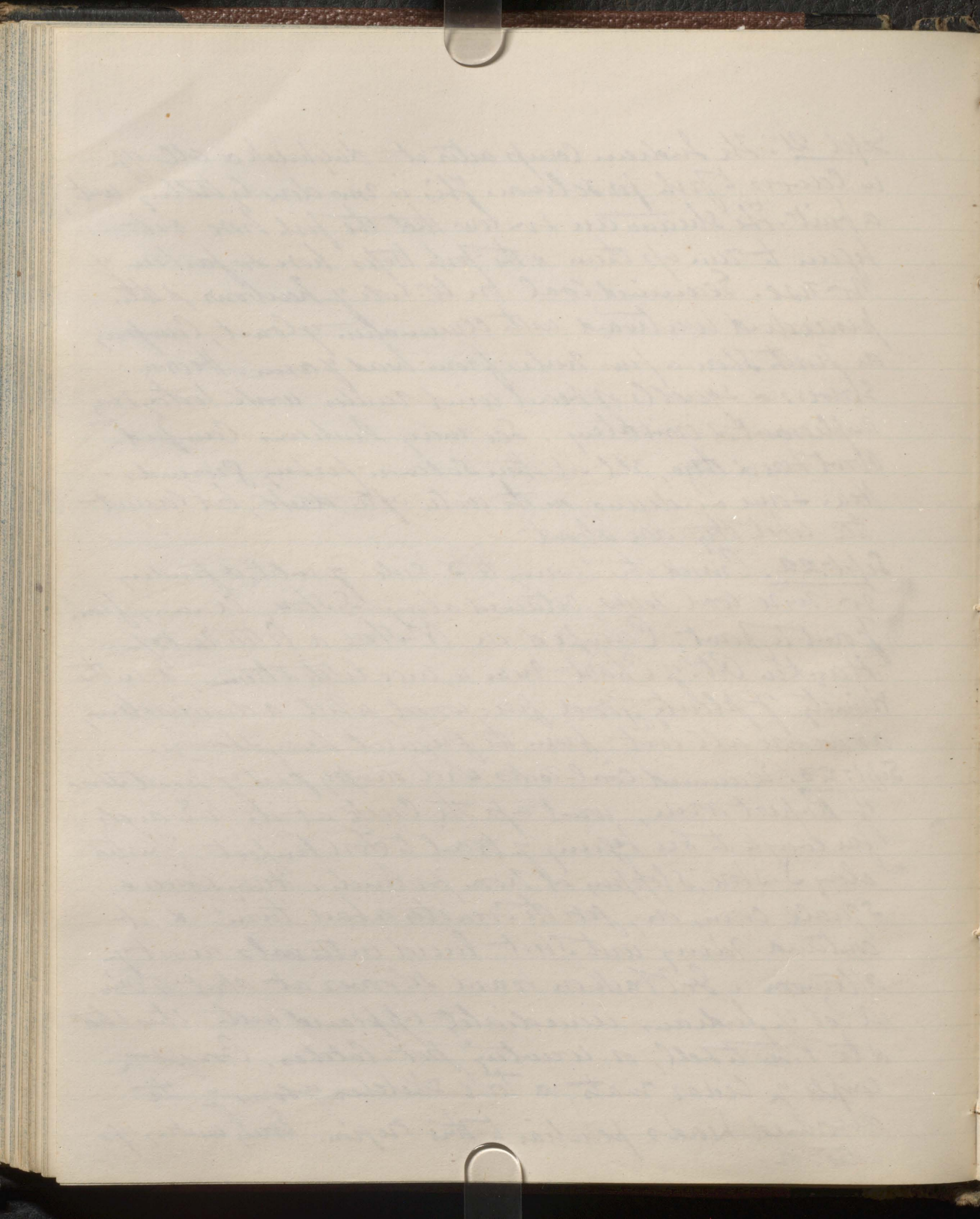
Pleasing in appearance but for the peculiarly elongated head,  
Caused him to supply all the things he knew in asking in  
succession for very imaginable articles, as a Kaltas pot (leak)  
- fish-hooks, needles, thread, pipes, Soap, Citrus or B. He  
was also requested we not to fire off my gun as it  
would frighten the Soliman, which are born in great numbers in  
all parts of the inlet & can be seen jumping about in huge  
swarms the water. Also requested that we would not  
have fires on the beach at night, as this also would frighten  
away the fish! Could hardly comply with the last request, as  
our Camp on the shore, but made our fires as small as possible.  
Our guide is a peculiar looking Indian, perhaps twenty  
years old, with a cross eye, a Chinese complexion &  
expression, which is carried out by a pig-tail or que which  
he wears tied round his head, rising from over cutting  
his hair in the hope of becoming a "doctor". His costume  
is simple, consisting (1) of an old wooden scarf bound  
turban fashion round his head (2) a cotton shirt (3)  
half of an old & dirty blanket, any small white.  
This latter is sutured round the shoulders with a sharp  
piece of wood joining it together in front or bound shirt  
fashion so as to hang down from the waist. It also  
serves as bed & hat covering at night & as waterproof  
cloak during showers. He is rather a dander-headed  
individual, not fluent in Chinook, & which his pronunciation  
is bad. He is heavy on Norwit-ka, but gives it as Norwitti.  
Willing enough to work, collects wood for fires & appears  
from time to time in the night to stoke up, especially  
when it becomes so wet that he cannot sleep comfortably.



Sept. 21. The Indian Camp starts at daybreak & all off in canoes to fish for salmon. This is now done by trolling with a bait. The streams are so low that the fish have not begun to run up them & the fish traps here so far from of no use. Examined coal on W. side of harbour, & then proceeded westward with accumulation of float, camping on north shore a few miles from head of arm. Heavy showers & squalls of head wind render work today very unpleasant & irritating. See many Indians camped about here & there, all at their salmon-fishing grounds. Hear some Indians on the water after dark, but cannot tell what they are about.

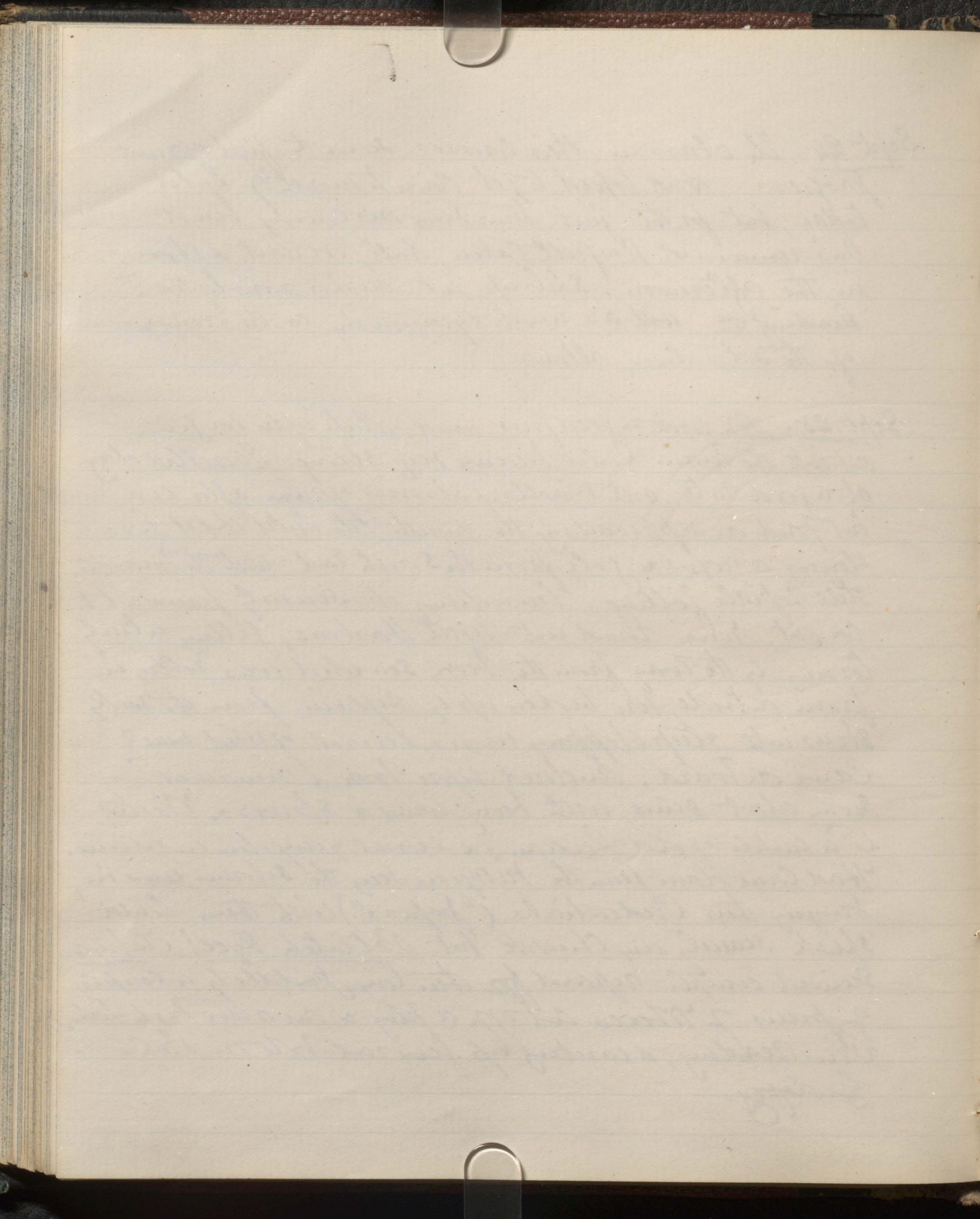
Sept. 22. Crossed the bay to S. side of inlet, & finding no more coal rocks, returned along S. shore, clearing from point to point. Camped on N. shore a little east of Hankin Pt. of Chart, near a nice little stream, & in the vicinity of plenty good fire-wood, which is decidedly necessary as we are all wet from the frequent heavy showers.

Sept. 23. Examined coal rocks which occupy part of north shore of Rupert arm, went up the Creek at its N.E. angle far enough to see beginning of trail to Fort Rupert. Skirted along S. shore, stopping at noon for lunch. Heavy showers & squall carry on, for the weather a bad 'turn' & it continued raining with short lull intervals most of afternoon. Got back on board schooner at about 4 P.M. A lot of Indians immediately appeared with their boats & the who to sell, or wanting pot-latches. Bought a couple of cedar mats, & took sketches of some of the deformed heads peculiar to this region. Every country up notes. etc.



Sept. 24. The stars in their courses seem to fight against  
propellers. Had hoped to get down to mouth of Gulit  
today, but for the first time since our coming here it  
has remained perfectly calm, dull, overcast, & stormy  
in the afternoon. Sails up, but anchor never lifted.  
Reading &c. with as much equanimity as the circumstances  
of the situation allows.

Sept. 25. Up with a good fair wind, which after we got  
out into the main Gulit became very strong. Traveled along  
at a good rate, with squalls & showers of rain after us,  
but found on approaching the mouth of the Gulit that it was  
blowing a regular gale from the South East with the barometer  
steadily falling. Considering it scarcely prudent to  
go out, ran down into North Harbour, getting a lively  
tossing by the way from the heavy sea which was rolling in  
from outside, here broken up by reflexion from the rocky  
shores into steep chopping waves, several of which waves  
came on board. Anchored before noon & remained  
long about since, with heavy wind & showers. Visited  
by a couple of old Indians & several youngsters in all. Had  
come down from the Kelloggs Bay, the Schomars were in  
bringing their Credentials ("papers") with them. Could  
speak scarcely any Chinese but Potlatch Lyee! Chabaya  
Secured couple of rapids for their bay paddles by a couple  
of pieces of tobacco cut up a plug & one or two fish-hooks.  
Plu. reading, & writing up several notes on B.C.  
Geology.

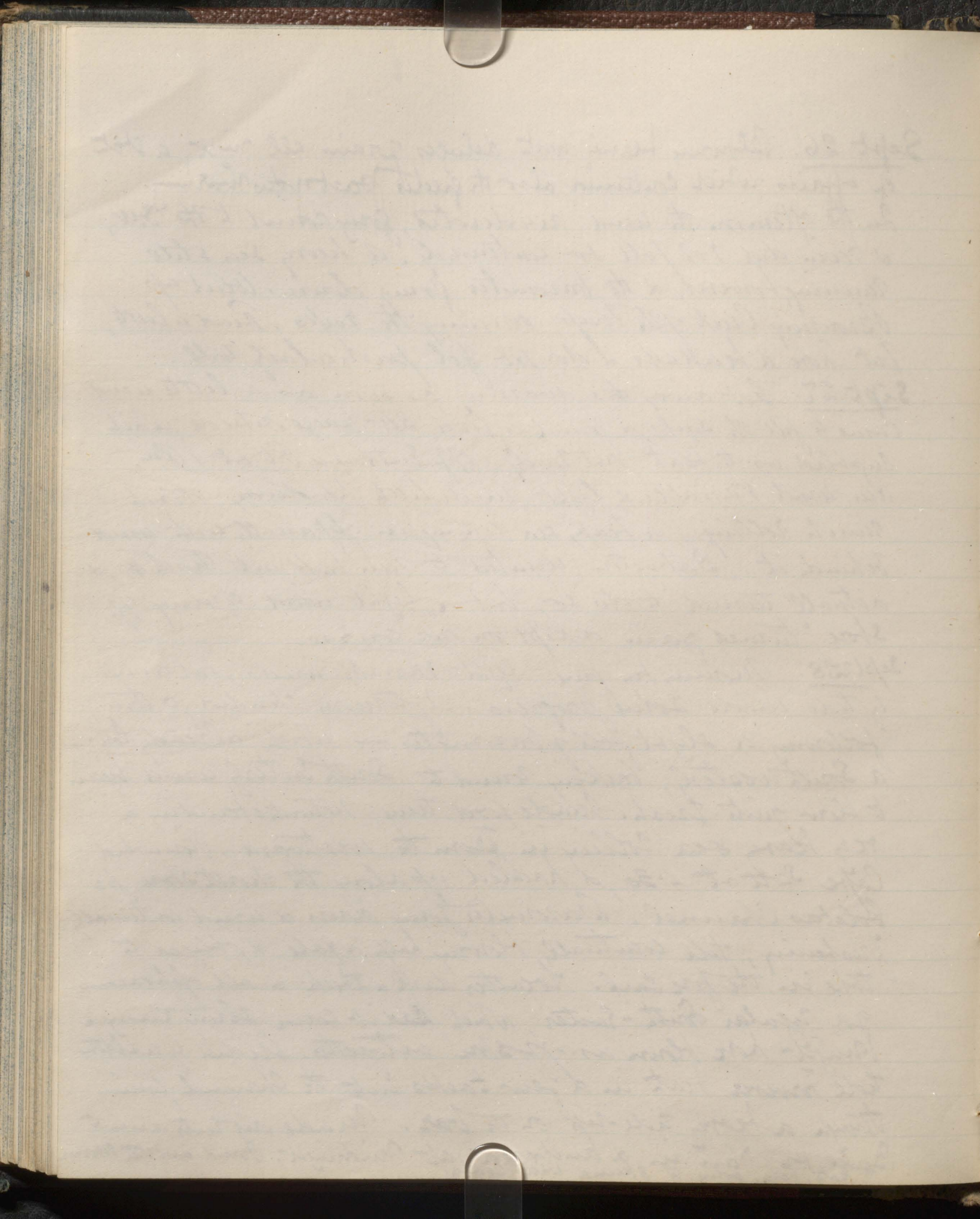




Sept. 26. Blowing heavily with deluges of rain all night - a state of affairs which continued also the greater part of this morning. In the afternoon the wind moderated, gony round to the S.W., & rain did not fall so continuously. A heavy sea still running, however, & the barometer going down. Went up Browning Creek of the map, clearing the rocks. Read a little, but have a headache & do not feel particularly well.

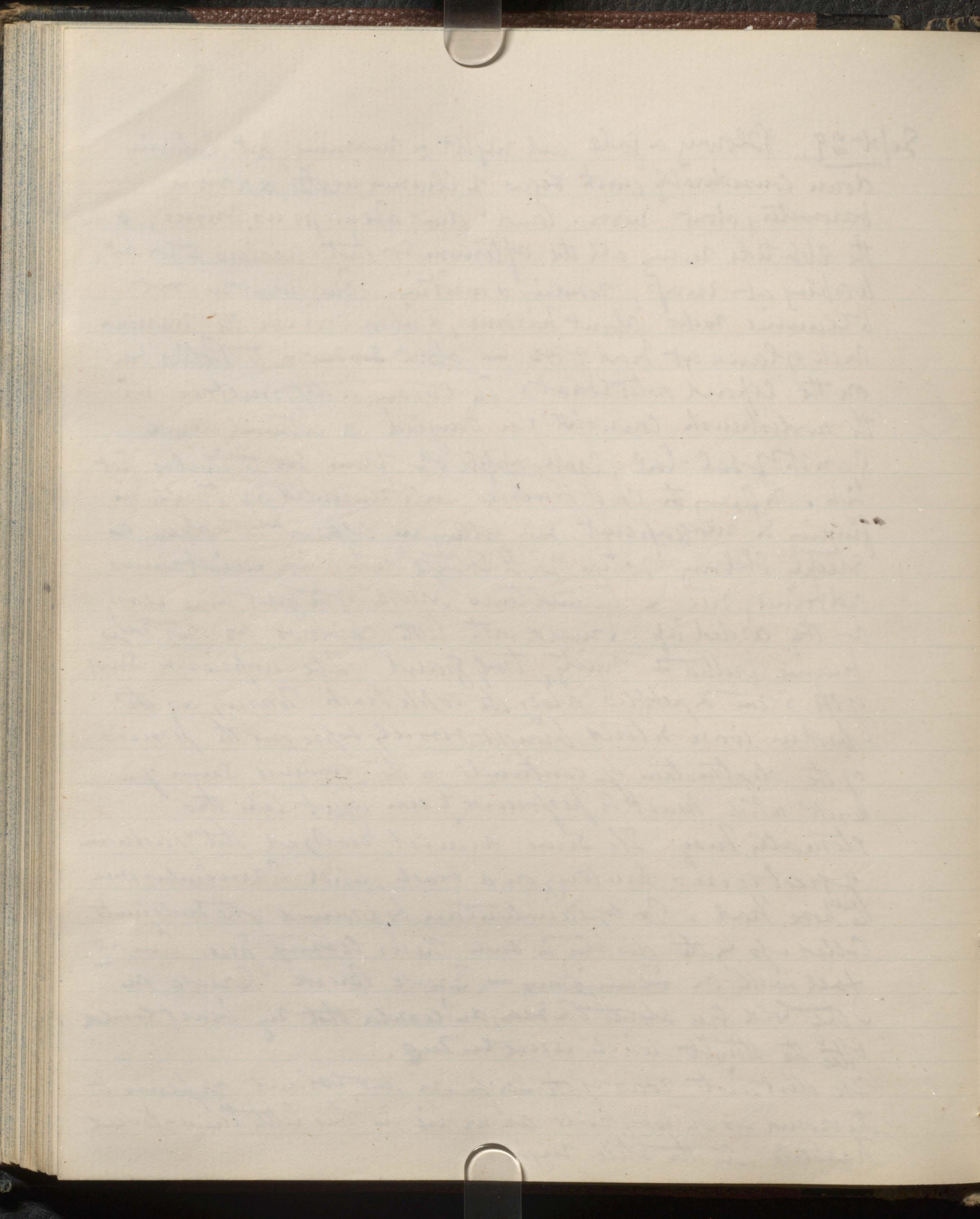
Sept. 27. Got away this morning as soon as a little wind came to fill the sails, & found a good S.W. breeze outside, which enabled us to beat out easily. Off Entrance Pt. at 1 P.M. Calm. Wind variable & light, made little headway, though much rolling, a heavy sea coming in apparently with wind behind it. Sabiston wanted to run back into North Pt., & actually turned to do so, but a light wind coming off shore turned again & kept on our course.

Sept. 28. Morning very fine, light variable winds, but aided by tide made some progress. Afternoon clouded, & then following a slight fall of barometer - which already being a South westerly, backing round to South easterly, wind began to blow quite fresh. Made good time, without standing a very heavy sea rolling in from the westward. Rounded Cape Scott at 4:30, & hauled up along the North Shore, for Golias Channel. Barometer fell down & wind continually freshening, till eventually blowing half a gale, & obliged to take in the fore sail. Weather dark & thick & all appearance of a regular South - Easter, which had it come strong enough might have blown us off shore altogether. Aided by a strong tide however beat in a few tacks into the Channel coming through a heavy tide-rip on the bar. Made out Entrance to ~~the~~ Bay in & anchored at midnight. Found another schooner ~~in the~~ <sup>at</sup> ~~the~~ <sup>in</sup> Bay, ~~with~~ <sup>bound</sup> ~~to~~ <sup>to</sup> Skuma with coals.



Sept-29. Blowing a gale all night & morning, but calming  
down considerably, with signs of clearing water, & a rising  
barometer, about noon. Wind dead ahead for us, however, &  
the ebb tide running all the afternoon so that useless to go out.  
Working at map, reading & writing. Am. went in boat  
to examine rocks about harbour, & also crossed the narrow  
neck of land at head of the — about 300 feet — to Roller bay  
on the exposed outer coast. The crossing a diffidence as  
the underbrush consisted of tangled & extremely dense  
growth of sal-lal, Crab-apple &c from six to twelve feet  
high. On gaining the coast however well rewarded for trouble in  
finding a magnificent sea falling in against the upper, or  
steeply shelving portion of a single beach. The tumultuous  
advance, rise & tumultuous retreat of the great blue seas,  
as they arched up, fringed with little sandbars as their edges  
became fretted & misty, truly grand. The impression drew  
of the stones & pebbles along the whole beach roaring as the  
broken wave retired brought vividly before me the process  
of the destruction of continents & the immense scale of  
work which must be performed by an agent like this  
eternally busy. The scene almost realized that grandeur  
of great waves breaking on a beach, which I remember once  
to have had. No explanation can be given of the sentiments  
called up by the display of such never ceasing force, cannot  
fall back on Fenimore's — Break Break Break on  
the old grey shores of sea, & I wonder that my heart could  
after the thoughts which were in me.

The distant roar of the surf on this island appears to  
surround us on every side as we lie in this little land-locked  
harbour in the still night.



Sept. 30. Ran out this morning intending to beat Eastward with the flood tide, but, though calm enough in harbor, found a fierce South Wester blowing outside. Obliged at once to take in foresail, & as we prospered by making anything buting against such a wind, ran back into harbor. Reading & writing most of day.


Oct. 1. Blow hard from SE. Last night - but this morning moderate. Got away & with fair wind, a fine though showery weather anchored in Beaver Hr, opposite Fort Rupert before dark. Mr Hunt, in charge here for H.B.C., came off in canoe with a box of mail matter, very welcome, containing besides many papers, some letters with good news.

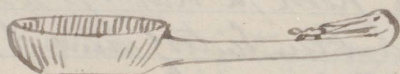
Oct. 2. Morning examined rocks about harbor, collected fossils. Afternoon took a couple of photos. Had a talk with Mr Hunt, & Mr Hall, the latter a Misscomay here, but we get well acquainted with the Indians of this locality. A fine day but some very heavy showers, coming from the Westward. The "Otter" departed on way South about noon, with note to Foster, being in charge of H.B.

Oct. 3. Up before daylight, breakfasted & off early with Charley a Chinaman Johnny, in boat. Schooner & follow going as far as possible in McNeil Harbour. Scanned coast, landing at many places. Landed at Lu-quash & finally, no sign of Schooner appearing camped in McNeil Hr. A very fine warm bright day with light airs only. Several Indian Canoes passed us during day. Saw also a couple of gubites in a boat, getting Salmon with seine for West-Beerton. They caught in one haul today about 100 fish. Got a good fire going & found our Camp a comfortable one, though weather chilly.

Oct. 4. Off in good time, intending to Coast the South Eastern  
part of Melville Island & then return to Alert  
Bay to meet schooner. Had a strong head wind blowing.  
Ran across to Haddington I. with sail. While crossing  
rocks there saw a young deer on beach, but before  
rifle obtained it had walked quietly into the woods.  
Followed it, & catching sight had a shot at it at  
some distance & in a rather dark place. Missed, as the  
deer ran away. Followed it again & saw it once  
more but "on the jump". Ran across from Haddington  
to Melville I. but had wind so strong that  
could not proceed along shore against it. Waited  
Remained of day behind a point, reading several  
"Witnesses" & dodging the very pungent smoke of  
a fire, which blew "Every-way". Seeing the schooner  
heaving up, made sail & ran down to her. But  
but Alert Bay in rain & squally wind, anchoring  
at 8:30 P.M.

Oct. 5. Morning calm. Went in boat to visit bluff at  
entrance to bay, which turned out to be, not sandstone, but  
grey well strat. clay. Went through the Indian houses,  
which built in the style sketched on a former page, not  
so elaborate as the old Haida style. Some of the ridge-  
poles, however, of great size, & the houses also large,  
several families (rotated) occupying the different corners.  
Saw some very large wooden dishes, not unlike those sketched  
in old Haida home at North Island, but deeper in  
proportion. Other wooden dishes of various shapes, but  
precisely like those of Haidas, but similar. The command

found here & at Quatsnoo appears to be this   
 cut from solid block. Saw two large dishes cut from solid &  
 including nearly 2 feet high, in this design, the figures represent  
 Indians clasping the vessel. Another about 4' long  
 was like a large spoon, the end of the handle



bent round, & forming  
 a bird's head, which

holds a frog (looking also  
 toward the bowl) in its beak. Seeing going on early this evening,  
 in connection with a job lot, given by one of the chiefs. Went  
 afterwards into the house, & saw the gentleman counting over  
 & arranging the distribution of blankets in the presence of several  
 of the elders of the tribe. A number of young women employed  
 kneading up dough for bread, which doubtless to form a  
 part of the going away, which was to be entered, with  
 dancing, in the evening. The song of these people almost  
 dead in time (?) - in imitation like that heard among the  
 Haidas during a dance.

Went out and spruce up at noon, got away & made  
 some progress before it died away toward sundown.

Oct. 6. A winter day. Floated about headland in the channel,  
 & eventually carried back beyond our way pointed. Anchored  
 in a small cove. Shot a couple of ducks as they swam round  
 the schooner. Heavy rain, which came down as snow not very far  
 up, as when the clouds lifted saw snow on the trees less than 2000  
 above us on the mountains.

Oct. 7. Got away with very tide, light wind till noon, then light  
 fair wind till sundown. Then nearly calm. Made some progress,  
 being now opposite entrance to Horomura Channel. Reading &  
 writing.

Oct. 8. Made with the flood, but against a stray head wind, as far as the west end of Thurlow Island. Got into a little bay there, & remained all night. Reading & writing, though with such slow progress almost too much annoyed to settle down to anything solid.

Oct. 9. Off with the flood, & beat up as far as Pender Islands, against an easterly wind. The ebb setting in, the wind fell, & after some trouble we managed to get to an anchorage nearly opposite the islands.

Oct. 10. Anchored this morning for a few hours, during the ebb, & got off again with the flood, & a strong south easterly wind blowing up the passage, & raising a tumbling sea. Beat down to Blumpee bay, anchoring about 2 P.M., then being too much wind & tide to go through the narrows. Sea cleared, & became fair & calm. Reading & writing.

Oct. 11. Off about 10 A.M. before the ebb had quite finished running, & got through the narrows almost at slack water. Beat down the passage to Cape Mudge against a S.E. wind, which left us off the Cape to be tumbled about some hours in a tide rip. Now (7 P.M.) a light N.W. wind pushing us along fairly. A fine bright night.

Arbutus seen the first of these trees on the rocks in the narrows. Saw a deer in the woods, at the narrows, but before the rifle could be got, it went off, quietly concealing itself.

Oct. 12. A head wind this morning, but beat down to Harwood Island, where I wished to visit in conformity with request from Mr. Spruce for information on it & neighboring islands. Went off in boat, coasting the west shore. Examined



beasts of fine stout. Sled, & procured sample of soil.  
Ran across to Comot. with a food bagge, lay up at the wharf  
about 4 P.M. Found no letters, but got hold of a couple of  
papers with news to Oct. 2., from Victoria. Reading &  
conting into an island for the Spirit.

Oct. 13. all day occupied in getting down to Baynes Sound mine  
wharf, in Fanny Bay, a distance of ten miles. A fine day, but  
light variable winds. Called in on a Mr Watt, who lives  
on Deummen I., opposite the mine, & is in charge of it, now  
that all work ~~is~~ suspended. Arranged with him to  
accompany me up to mine tomorrow, to show me the various  
localities. Glimpses of magnificent mountains, heavily snow clad  
through the lower range near the coast. Spire belong to a range  
measured as 6000 to 7000 feet on the chart, of which Mt Albert  
& Edward is the northern summit. The lower tan. clad mountains  
already covered with some new snow, Watt says now as far  
down as it came at any time last winter, which was a  
remarkably mild one

Oct. 14. Off early & occupied most of day, examining rocks  
along the railway & about the mines at Baynes Sd.  
On returning to the coast, took a couple of views of  
the wharf, & then, there being a strong fair wind  
got away. Had expected that two days might be  
required here, but found one sufficient to see  
everything essential. A fine clear day, but chilly, no rain!  
Where the railway to the mine follows parallel to the  
shore, a cutting has been made in the face of

Shell heaps

Narrow flat between it & the beach. Here for several hundred yards a great thickness of Indian shell heaps has been exposed. From 12 to 15 feet seen in some excavations, without bottom being shown. Clams, oysters, (small) mussels, sea eggs or form alternating layers or are mixed together. Some layers calcined, or many burnt stones scattered through the mass. Appears as though village must have been here, but very long ago, is found thus several hundred years old from on the upper layers. None or less than mixed with the shells in some layers, or occasionally layers of earth & gravel with few shells. At end nearest shore the shells deposits are interlocked or "spliced" with the more usual clayey gravels. The explanation given is that the soil has been gradually washing down the slope, in large quantities at certain times, & thus has given the spurious appearance of true Subaqueous stratification. The structure obliquely is below in front view, conjecturally as shown in cross section -



Front view

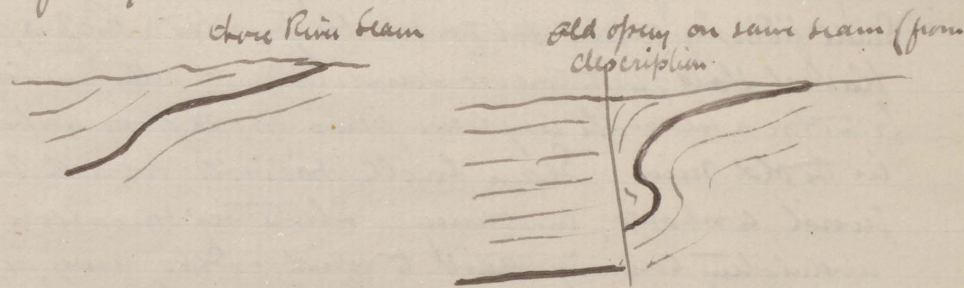


Cross section to ~~right~~ smaller scale.

Oct. 15. Got into Mansfield early this morning. Went about a  
little business in the town, & then up to find Mr Bryden, at the  
Coal mine. Waited long for Mr B, he being underground, but at last  
finding him, accompanied him to his home, & then walked out to  
Chase River mine & spent a couple of hours underground viewing  
it. Rode back on the engine & returned to Adams, to find our hands  
but Charley missing. By the time that they were again collected things  
were a very light, put off departure till morning. Went up to  
Hospital to call on Mr Lardale for information about Perkins,  
but found him able to give very little. Reading on in evening. Had  
a call from Mr Sutton, who lately carried on assaying in  
Victoria, & now running down mine at Corvichin.

Without counting extremes, Mr Bryden estimates the Doyle's Seam  
in Chase River Mine to range from 20' to 2' in thickness.  
Averages about 5' of good coal. Scarcely any shaly partings here,  
though not so infrequent in old workings which in same seam.  
Small films of calcite but no visible pyrites. Roof a floor of  
blackish shale, with coarse sandstone or rather fine conglomerate  
both above & below. The conglomer. forms roof a floor outside  
in the old mine. Seam locally variable, but with remarkable  
general workable continuity. Sluts very favorable & dips  
undulating causing adit to wind. Dips away part at  
moderate angle, (about 15 degrees say) then suddenly pitches  
down without break at ~~500~~ 30° or in places a little more  
then begins to flatten out again further down on dip. Slope  
now down over 400 yards. Very little water, that below the  
adit (over 300' below to bottom of mine) being pumped out  
by four pumps near bottom workings supplied with steam from

surface. Ventilation by furnace, at bottom of well shaft  
 kept over above by chimney. Very little gas. No safety  
 lamps used except on towers of inspection by firemen. Coal  
 broken out with powder. Several faults already determined in  
 workings, but of small amount and coal usually fairly recovered.  
 Hauling done by wire rope, drum, engine of 90 horse power  
 steam from 4 long round-ended boilers. Roof & floor firm,  
 & comparatively little timbering needed. Double drifts run in  
 along strike, passage & airway, openings between at intervals, but  
 all of them except a few filled up after passages for ahead of them.  
 Boards opened up to rise, & coal cut out in chambers. Pallets  
 for most part taken away before chambers abandoned. Coal brought  
 down to levels below by track below, pulls haulage up empties.  
 Mr. Bayden does not think any evidence of rocks in clay below coal, &  
 fossil plants not found in that strata. Believes coal did not grow where  
 now is, but under so, almost up north to account for its regularity  
 & purity.



Oct. 16. a wet disagreeable morning, with strong head wind. Off at 9.30, making Dodd narrow just in time to get through with last of Ebb. Beating down all rest of day making fair progress. Four (9 P.M.) abreast Narrow Island. Reading, packing Specimens, & writing.

Oct. 17. Made a considerable advance by steady beating during the night against a strong head wind, being this morning nearly abreast the entrance to Saanich Inlet. Continued beating all day, the wind falling in the afternoon, & leaving us practically becalmed near Trial Island about dark. Drifted on with the Ebb tide, however, & finally got a little air to push us into Victoria Harbour. Came up to the Wharf from Laurel Pt. with the boat towing ahead. Made fast at 11 P.M. Taking my sponge brush & comb I landed & went up to Diard Home, where find all awake, & put down for the present to conclude the Chapter of my

~~Marine experiences~~

Marine experiences, secure a good room & look with admiration on a bed with clean sheets!

To 2. for Racks,  $\$ \frac{1}{4}$  lb tobacco in payment of  
 Pruss. gun to Charly,  
 Charly, & Williams each 2 lbs tobacco  
 " " " " 2 " " July 8.  
 Self July 14  $\frac{1}{4}$  lb.  
 " " 15-  $\frac{1}{2}$  lb.  
 " " 18  $\frac{1}{2}$  lb.  
 Sabiston " 18  $\frac{1}{2}$  lb.  
 " " 25- 1 lb  
 Wherry " 25-  $\frac{1}{4}$   
 Self " 26  $\frac{1}{2}$   
 Sabiston Aug 3  $\frac{1}{4}$   
 Self Aug 3  $\frac{1}{4}$   
 Self Aug 3. Three Cotton shirts.  
 " " 4 1 " "  
 Sabiston Aug 4 2 lbs tobacco  
 Williams " " 2 " "  
 Charly " " 4 " "  
 Self 1 Cotton shirt.  
 Self tobacco  $\frac{1}{2}$  lb.  
 " "  $\frac{1}{4}$  lb.  
 " "  $\frac{1}{2}$

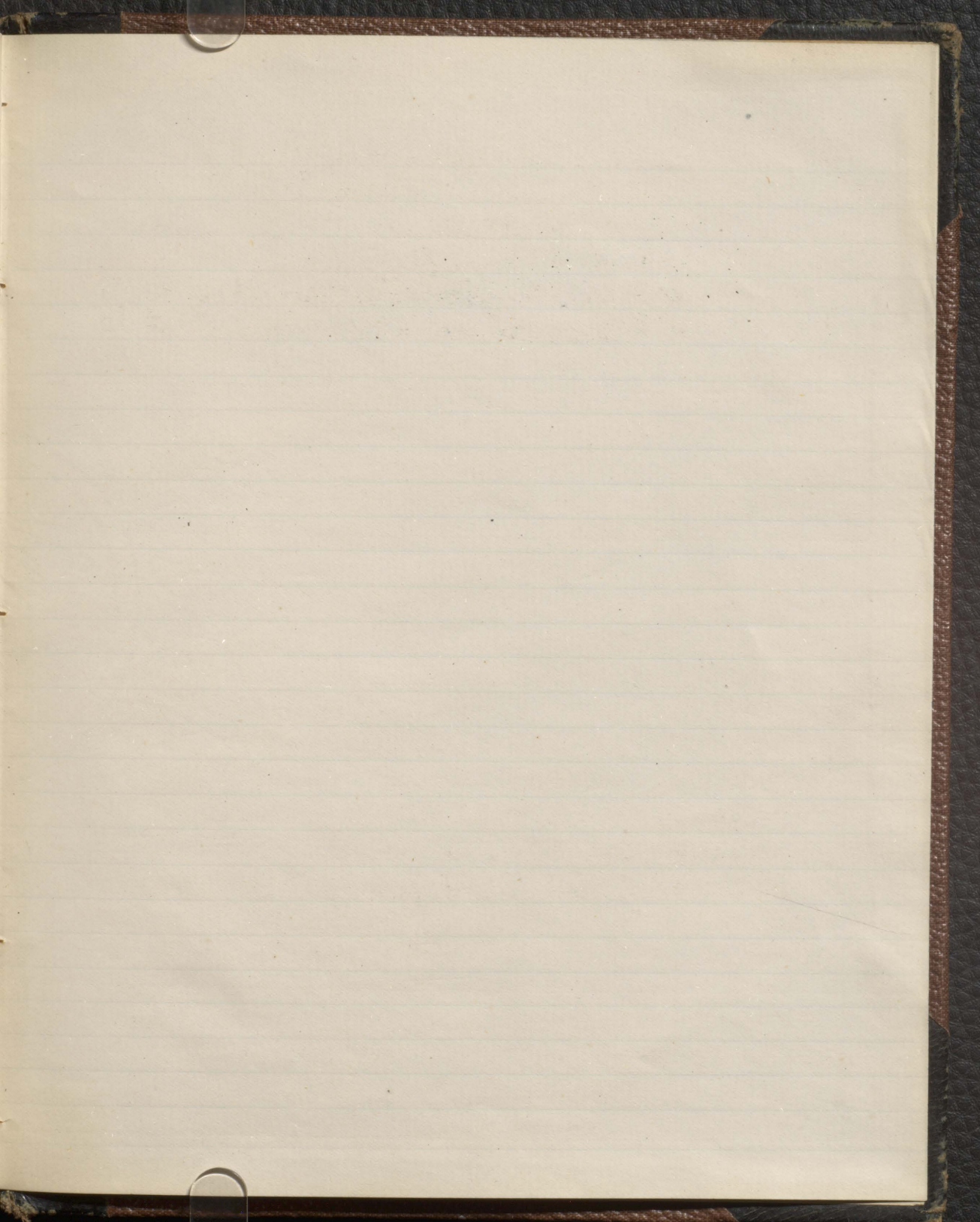
1 shirt given for wild meal  
 Sept 11. Tobacco given for Carver's letter 1 lb  
 " " " given for fish  $\frac{1}{4}$  lb.  
 " 14 given to Navarre Indian for services  $\frac{1}{4}$  lb.  
 " 17 Sabiston 1 lb.  
 " 17 Williams 1 lb.  
 " 17 Charly 1 lb.  
 " 23 Self  $\frac{1}{2}$  lb.  
 Oct 2 Sabiston 1 lb.

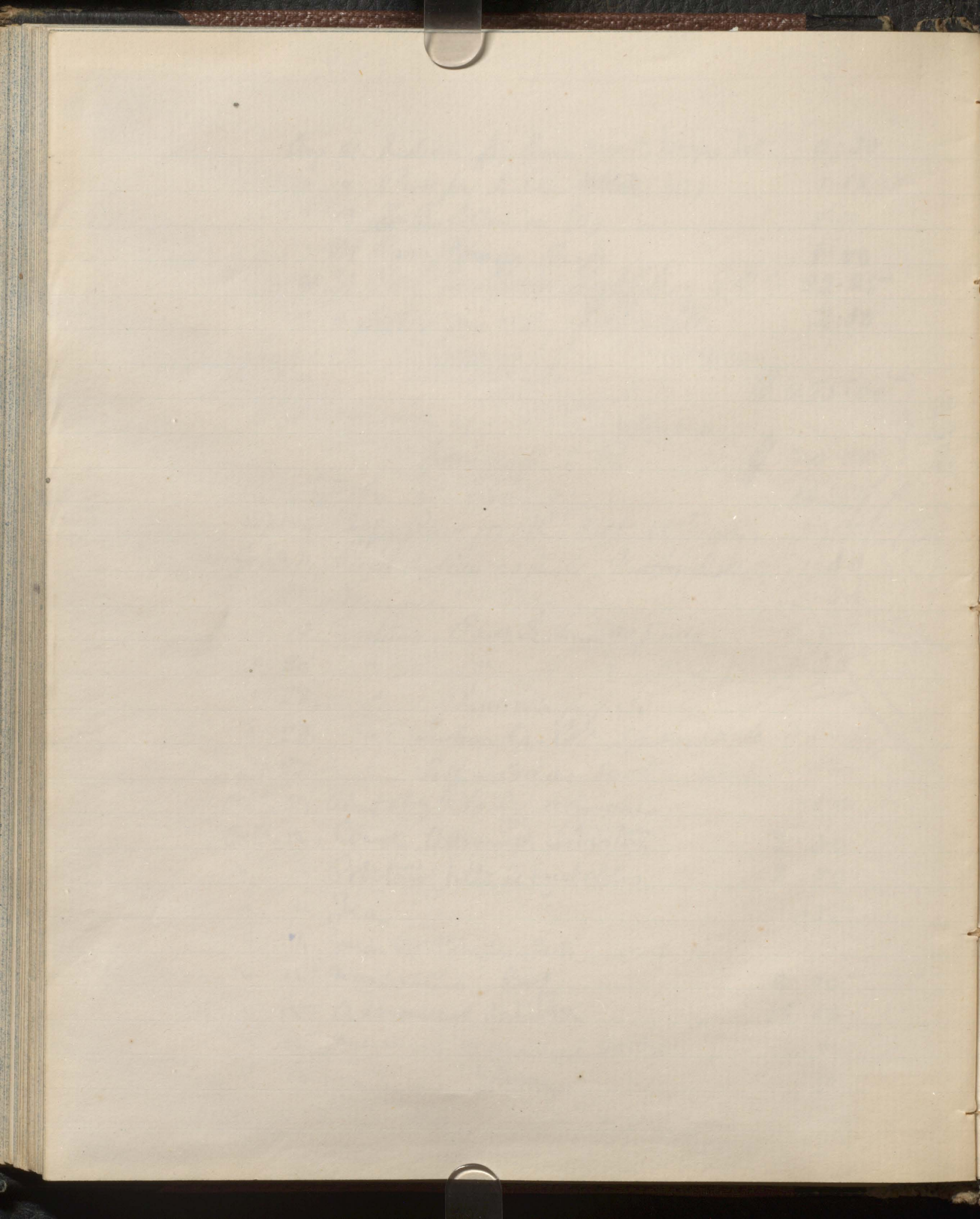
## Acct. of Expenditure

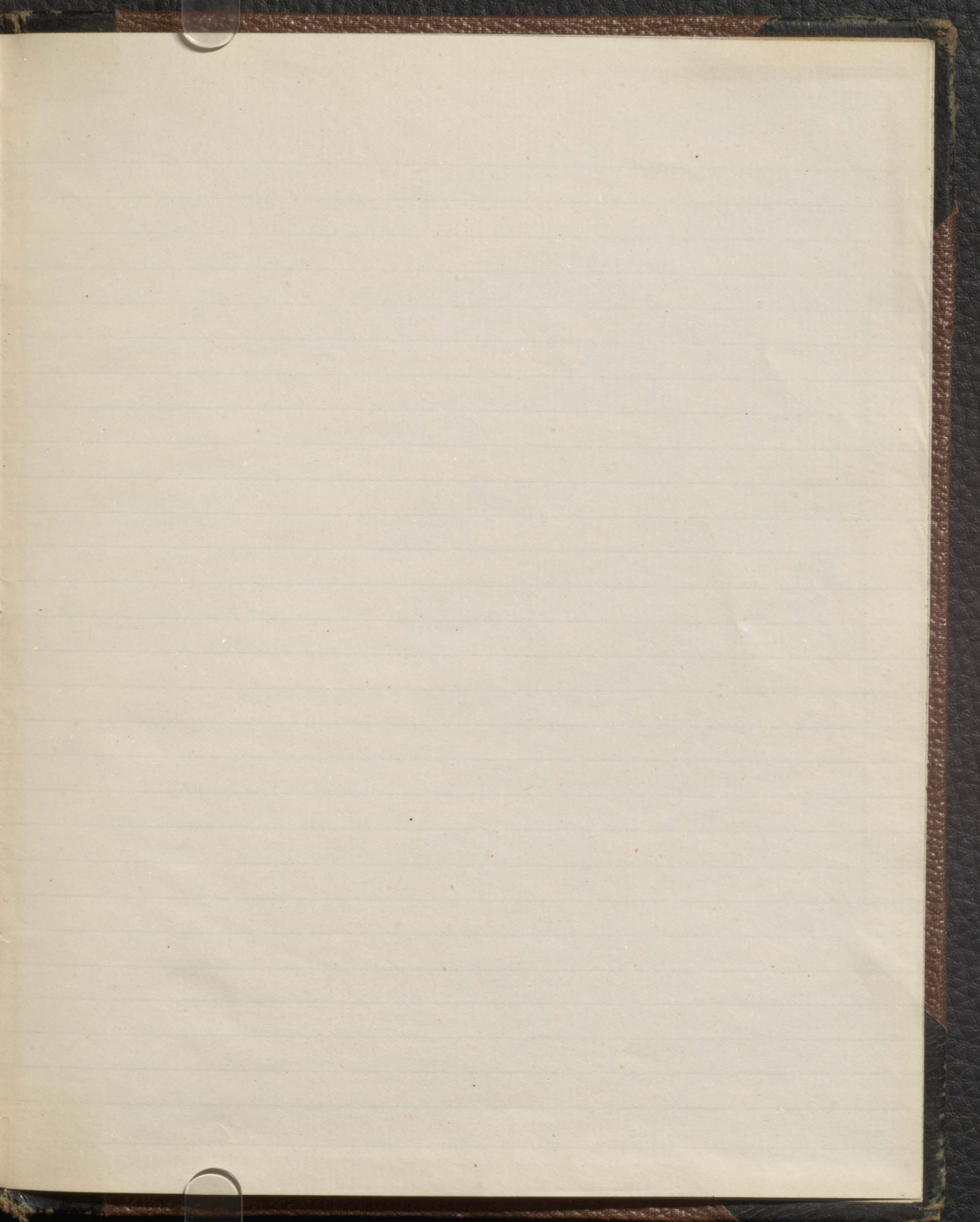
Advanced Williams at Victoria July 27.	\$ 10.00
" " Charley " " "	\$ 10.00
" " Sebastian " Nanaimo Aug 29	\$ 20.00
Aug 29. Nanaimo Beef 45 lbs.	\$ 3.00
" " " Stewall for ladder	\$ 0.25
July 2. Broughton Str. Perisore	\$ 1.50
July 8. Indian for Skidegate pencils	50
July 7. Fish	\$ 1.00
(a) July 14-15 - Exp. spent on Indian amos. & about	\$ 12.00
July 19 Paid Ceenstewa fuel for coal	1.00
July 19 Hibelot	0.50
Advanced Sebastian Aug 25.	5.00
Aug 26. advanced Charley	3.00
" " Paid for Store Cart (with 2 plops letters)	4.00
" " Spent on Indian Amos	2.50
Aug 28 Paid Indians fuel to coal local	1.50
" " advanced Sebastian to buy car	2.00
" 3 books (a)	.50
" " Indian Spoon	3.00
Aug. 4. Water tank for boat. Woodcock	2.00
Aug. 10. Paid Indian Billy	14.50
Aug. 10. Paid Indian Mills	12.00
Aug. 14. Indian fuel to coal on Don Min Riv.	1.00
" 17. Paid Indian Jim for 6 days services	4.50
" 19. Paid Indian for urey land as per to Schover. 1 week	2.00
" 19 Coal oil. H.B. Co.	3.00
" 19 advanced Williams to buy boots	4.00

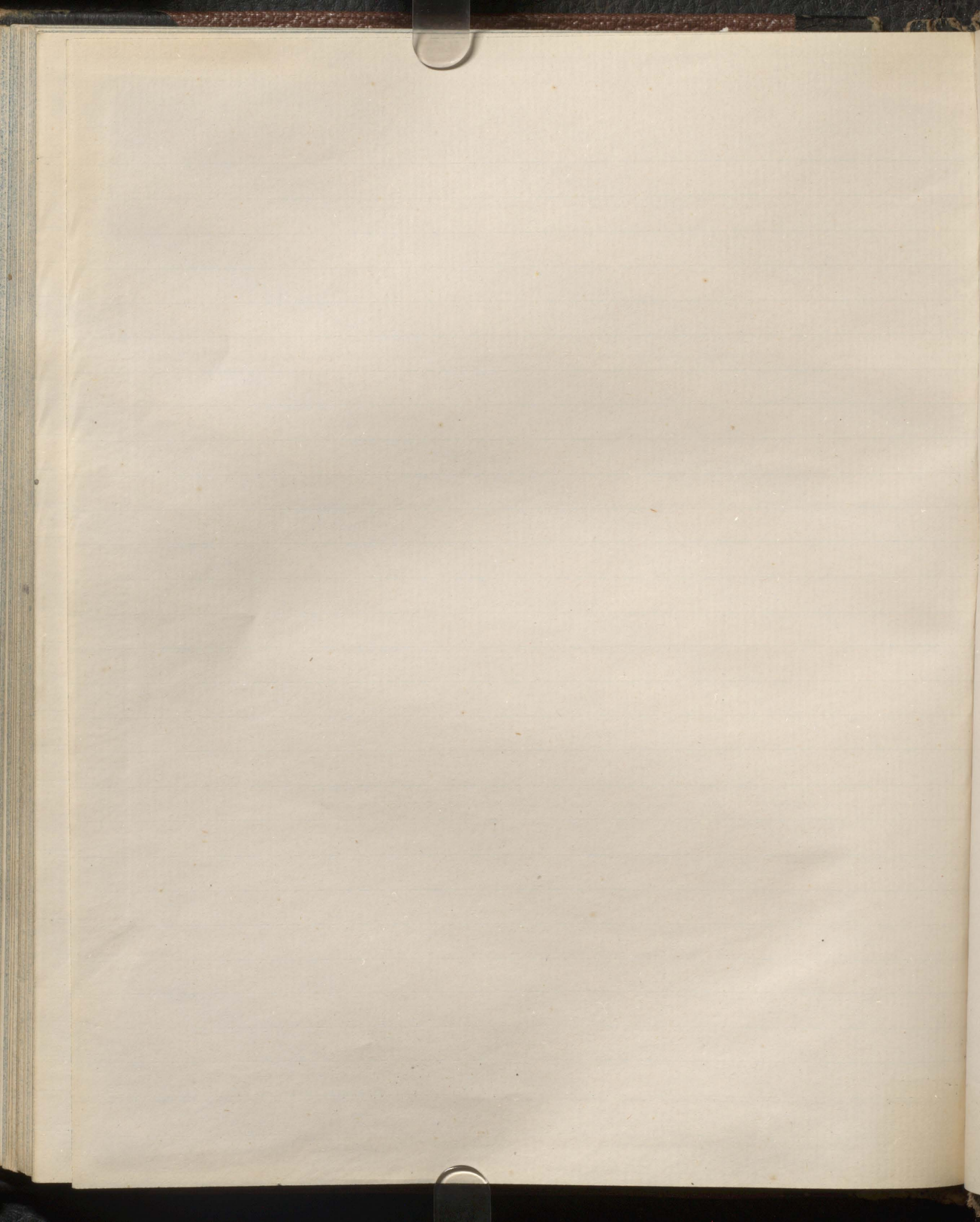
Aug 21.	Indian for Bear meat. Kierpo Sid.	0.50	
" "	Paid for Indian <del>Sid</del> . (a)	1.00	
" 19	To the Union (a)	5.00	
" 25	Pay George Fish	1.00	
" 31	Port Simpson. Supplies HBC	22.25-	
" "	advanced Sabiston	2.00	
Sept. 2.	Cheques for <sup>to R.</sup> <del>travelling</del> expenses	\$ 275.00	} \$305
" "	For incidental expenses from self to R	\$ 20.00	
	Cash to R	10.00	
Sept. 4.	Self. Paid for 1 R. Salt. Ot. Cakes	8.00	
Sept. 11.	Paid Indian as guide. Millbank Sid.	1.50	
" "	Yesson	1.00	
" 18	Quatens. Paid Indian as guide	0.50	
" 20	" " " "	0.50	
" 23.	" Indian for fish	0.50	
" 23.	" Indian ka. let 3 1/2 days work	3.50	
" 23.	" Self. Cedar meat (a)	.50	
Oct. 3.	Alut Bay. Charly advance	.50	
Oct. 12.	Comot Advanced Sabiston	3.00	
" "	Potatoes, butter & vegetables	2.00	
" "	Tea	.25-	
" 14	Guide at Baynes SA	1.50	
" 15	manumins Beef	2.00	
" 15	Advanced Sabiston	15.00	
" 15	manumins advanced Wellmann	2.00	
" 16	" Johnny	.30	

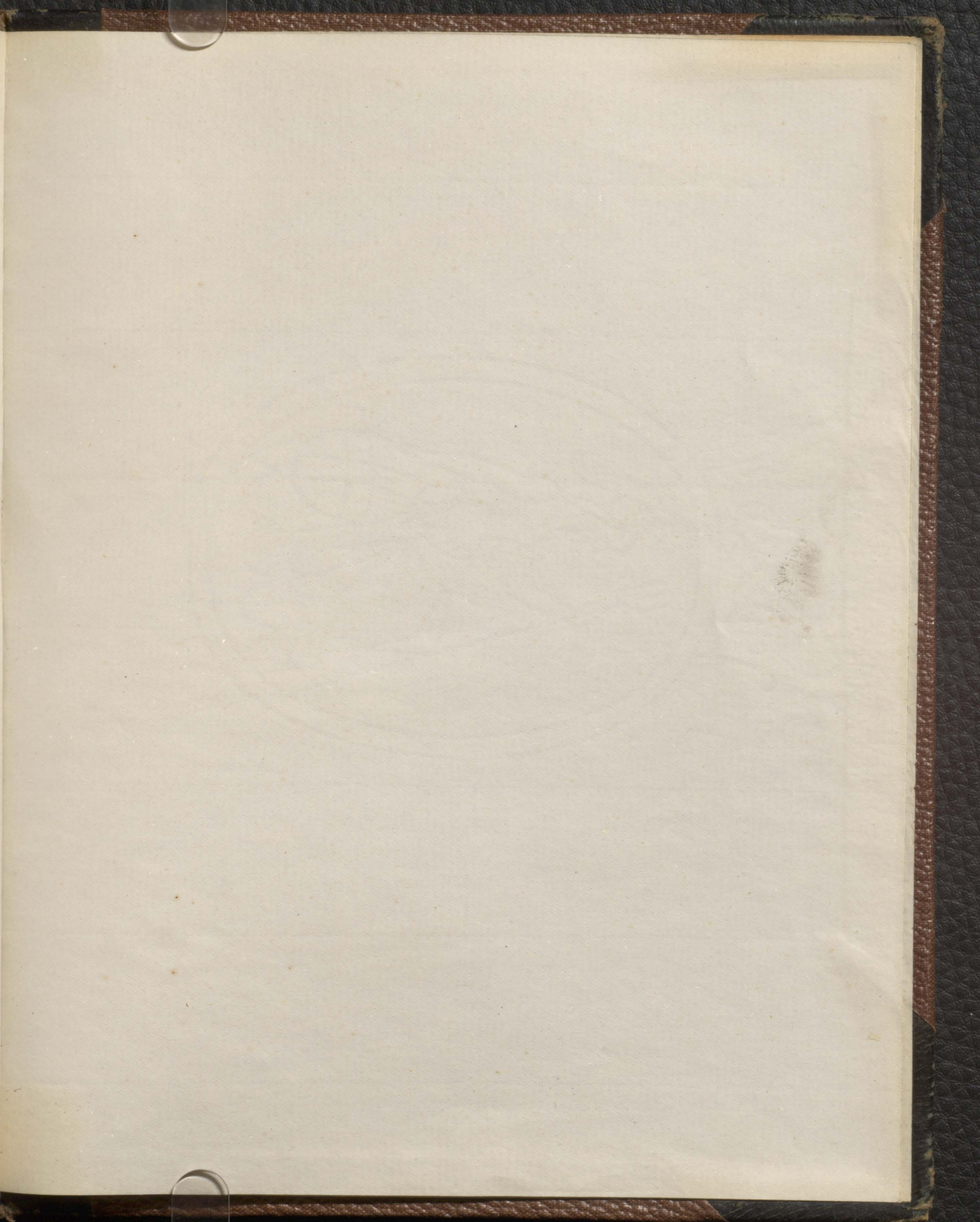


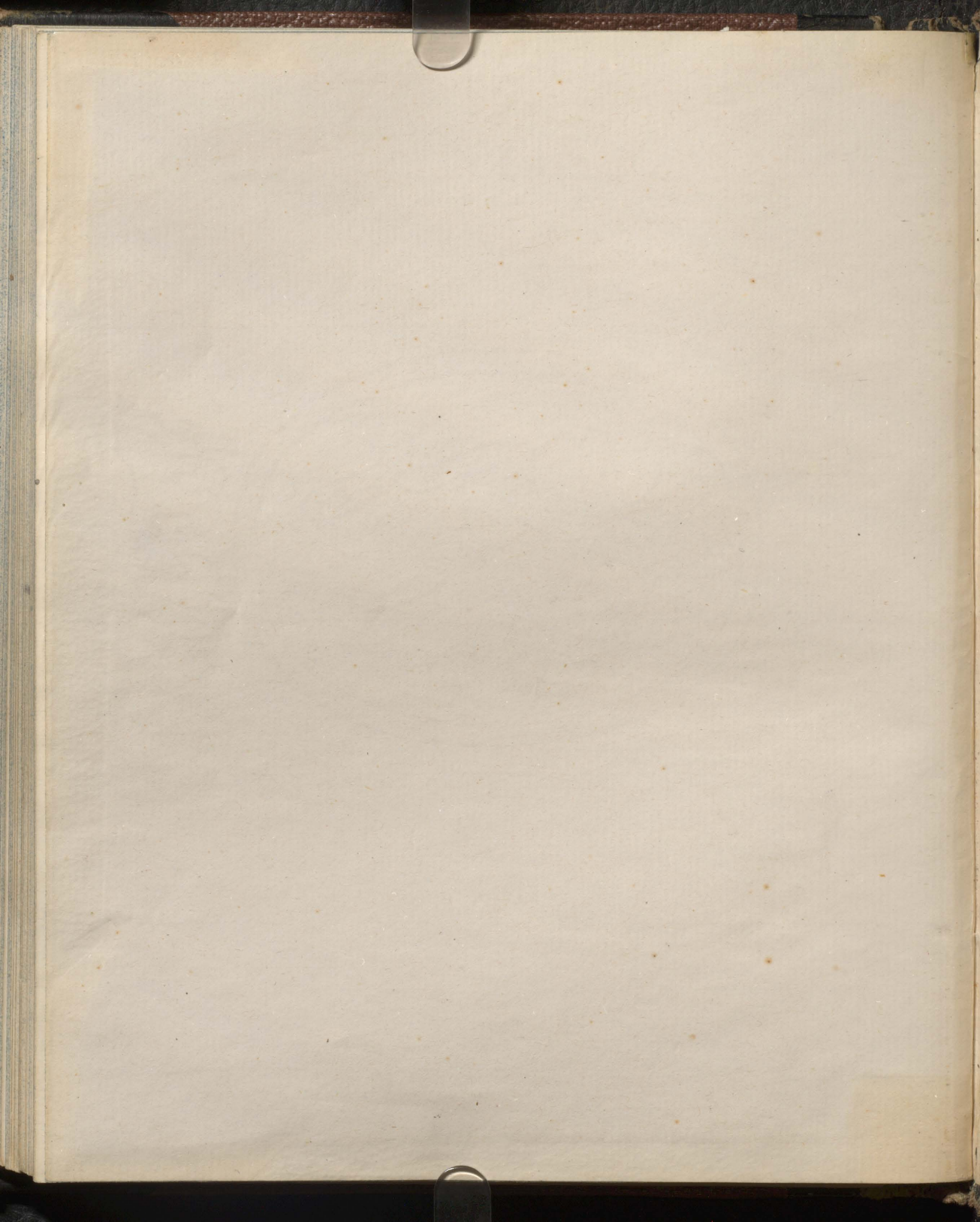












## Neutral

See Description of Limestone in Alaska & B.C. Dana p. 407  
& Am. Jour. Sci. & Arts III . V. 473

D.C. formations should not be referred to or closed under Shasta,  
which as Whitney compares means nothing. Preface to Geol. Cal. p. XIV.

See analyses of clays & sediments as to presence or absence of alkalis  
leading to production of feldspar in metamorphism. See Dana, p. 728.

See Davis's very sensible remarks on uncertain character of  
metamorphic rocks. p. 772.

See, "Ethnology of N.W. America" J.W. Powell's Surv.  
for Data on Alaska Shell Traps

See Hensley's report.

See Nature June 20. 78. Gardner on Age of Lyonic,  
Reverend Lesquereux.

On Geol. Time. See Physical Geology. Houghton. Nature  
p. 4. 268.

