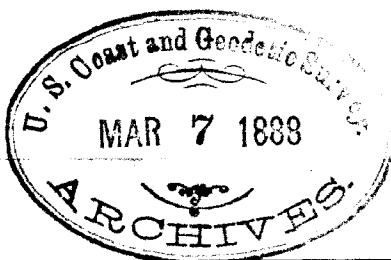


115.



U. S. COAST AND GEODETIC SURVEY.

*J. M. Thorn*, Superintendent.

State: Washington Territory.

DESCRIPTIVE REPORT.

Topographic Sheets Nos. 1781, 1782,  
1783, 1786, 1787, 1788, 1789, 1790.

LOCALITY:

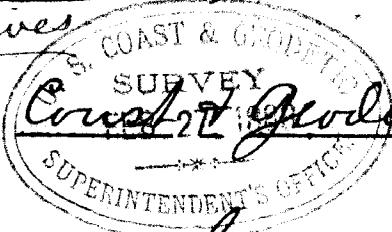
Gray's Harbor to  
Cape Flattery.

1887.

CHIEF OF PARTY:

*J. J. Pratt.*

act 22<sup>nd</sup> Assist. in Charge Descriptive Report  
for Archives 1416.  
Oct 16 U. S. COAST & GEOF. SURVEY  
Coast Geodetic Survey.



26 J. M. Thorn

27 Superintendent

28 Reconnaissance.

29 Grays Harbor to Cape Flattery

30 Washington Territory

31 Description

32 of

33 Eight Topographical  
sheets

34 on a

35 Scale of 20'000

36 301887.

37 By H. J. Pratt

38 Chief of party.

This work was commenced at the south end on May 2<sup>nd</sup> and closed on June 13<sup>th</sup> at Neek Bay.

From Damon's Point (Sheet N<sup>o</sup> 1 Post N<sup>o</sup> 2') to Point Goenville (Sheet N<sup>o</sup> 3 Post N<sup>o</sup> 24) the distance was measured with a 100 metre steel wire. the terminals of these wire bases being occupied with a theodolite. the Planetable was run over this portion very hurriedly.

At Point Goenville the value in distance of the Ocular Micrometer to the Plane Table Slidate was carefully determined, and from here on all the distances depend on this micrometer, a mean of several readings on the targets being used for the forward lines, much of the detail being sketched. this method was not, and cannot, be used where it was impossible to keep along the beach and detours

11/8.2

through the timber had to be made at which places positions had to be established by compass and resections on off shore rocks, when the beach had been regained).

At feasible points angles were measured with the theodolite on conspicuous objects. These objects in turn being occupied as closely as practicable, their distances depending on the plane-table determinations.

The projections on the sheets were constructed after the field work was executed and the position of the entire work depends upon the adopted positions of points at both ends as follows at the North end on the latitude of "Greah Bay" and the longitude of "Iattook Island", at the south end upon the assumed position of "Lone Fir" as measured from "Point Hanson" (Gray Harbor) Astronomical Station on a tracing of the topography of the entrance to

3  
11/19.

Gray Harbor by Assistant Gilbert in  
1886.

The Longitude of the entire coast  
line is controlled by a series of  
azimuth lines that are continuous  
from Post No 2' sheet No 1 to Gatoosh  
Light House sheet No 8.

The numbers in red on sheets No  
1, 2 and 3 indicate the terminals  
of the wire Buses.

The names of the Azimuth stations  
from Point Greenville to Gatoosh Island  
are in red.

The country between the entrance  
to Gray Harbor and Point Greenville  
is the hunting ground for Sea Otter.  
The method adopted by the hunters is  
to build "derricks" (scaffolds) about  
thirty feet high in favorable places  
overlooking the water where they lay  
in wait watching for the animals  
which are very wary and when they  
are within three or four hundred

yards of shore they are shot at with very heavy twiced rifles: It is said that the Otter seldom come nearer shore than the outer line of breakers. These animals are not abundant and the hunters realize from \$75<sup>00</sup> to \$100<sup>00</sup> per skin according to size and quality. If a hunter secures five or eight skins per year he is very fortunate; there are seldom more than six or eight of these, Lermits, hunters on the entire beach at a time.

Sheet No 1.

The stations "Done Fir" "Damons Tree" and "Sand" are determined by triangulation using bases "2" to "3" and "3" to "4".

The portion indicated in red is from the work of Assistant Gilbert in 1886.

The beach is of clean hard sand

with a large amount of drift piled up just above ordinary high water marks.

The conventional topographical signs explain the character of the country better than words.

Connor Creek is choked with drift as soon as the forest is reached. It can be forded at its mouth, in any kind of weather, at low tide except during freshets.

The transportation of camp provisions etc was by a wagon hauled along the beach, by three animals.

The first camp was in Mr Damon's barn at Damon's Point the next was at a point marked "C" on the N.W. bank of Connor Creek.

Sheet No 2.

The distance from "post N<sup>o</sup> 11 to 12" across the Choptank River is determined by triangulation from the base "12 to 13"

The stations "Chepalis" and "Chepalis Rock" are determined by triangulation using the bases "11" to "12" and "14" to "15" respectively. "Jo Creek Joe" is determined topographically.

The "Chepalis River" is navigable for small boats and canoes some distance above J. C. Benner's (Indian Trader) place and can be forded in the vicinity of "a" to "b" in smooth weather at extreme low tide, except when there is a freshet. Within the memory of man the mouth of this river was just south of and adjoining the mass of rocks under Chepalis Head.

Boone Creek is small and can be forded at ordinary half tide except when swollen with rains and melting snow.

"Jo Creek" is of about the same character as Boone Creek.

The Re-mo-to-lipse River joins the southern boundary of the Quinault Indian Reservation: it can be forded

at low tide by crossing from "a" to the opposite shore and then keeping along under the bluff to "b" where dry land can be again regained. The beach here is bold and even in moderate weather the breakers are large and quite heavy. in the entrance to this stream.

"Wreck Creek" is of about the same size and character as Boone and Jo creeks.

"Chesalis Head" is the first headland North from Grays Harbor entrance, along the beach both from the South and the North; it cannot be safely rounded with animals and wagon at extreme high tide in smooth weather and in rough weather it should only be ventured at low water. Off this headland are the first rocks that appear going North from Grays Harbor.

The Bluffs on this sheet are generally composed of a yellowish clay with the exception that at Chesalis

Here they are of a darker color.

Chepahis Rock is conical in appearance and very conspicuous. It projects about 35 feet above the water and has bolted to its apex a tiny hut belonging to a sea-otter hunter; this rock is in the breakers and can only be reached with a canoe in the very smoothest weather, this hunter often remains there for weeks without communication other than by sign language with his companion on shore.

Between Posts "16" and "18" is the scene of two or three gold mining excitements. Here in places the beach has a large proportion of ferruginous sand in which is found small quantities of very light flake gold.

Transportation of camp provisions etc was by wagon hauled along the beach by three animals.

Camps were made at "C" on the south bank of the "Chepahis River" and at "D"

abreast of Post '17.'

sheet N° 3.

Post "24" is the end of the beach measure.

"Grenville Tree" is determined by triangulation from the more bases Posts "21" to "22" and "22" to "23."

The Azimuth stations for continuing the work are "Grenville Tree" "Cape Elizabeth" "June Tree" "Promontory Tree" and "Stump on Beach."

"Quinault Astronomical Station" was not the success that was desired on account of cloudy weather.

The "Quinault (Qué-maïlt) River" could be navigated with river steamers for fifteen or twenty miles; it is a powerful stream and cannot be forded at any time: on the south side of its mouth is located the Quinault Indian Agency and Village.

Roff River is navigable for canoes

and small boats for quite a distance especially at high water. it can be forded only at low tide.

Grenville Bay should not be used as a harbor of refuge. apparently it has a rocky bottom. but can be used as an anchorage in northerly smooth weather for craft below medium size. the best anchorage would be about where the letters "r" and "e" are in the name "Grenville Bay" on this sheet or a little further inshore and more to the westward if the craft is quite small. as the extreme southerly Point and the two large rock break the sea considerably.

The headland "Point Grenville" and "Cape Elizabeth" are both prominent and very important land marks for the navigator. From the southward they appear as one. Cape Elizabeth extending to the westward of Pt. Grenville Judging from the low gap that the Anisacatic River makes, with the

abrupt hills on the North side of its valley. It is probable that from seaward Cape Elizabeth appears quite if not more prominent and is often mistaken for Pt. Grenville by mariners; this view is corroborated by old experienced shipmasters.

The Beach that has extended from Gray's Harbor slopes under the south side of Pt. Grenville and owing to rocks the last mile can only be traversed at low tide with a team. It is <sup>impossible</sup> to climb around Point Grenville at any stage of the tide: the Agent at the Quinapell Reservation has had a road built over it. The beach between Pt. Grenville and the Quinapell River is composed of very coarse shifting sand, is very bold, and impassable at high tide or at half-tide in very rough weather. There is very little beach between the Quinapell and Cape Elizabeth, which point cannot be passed except

at very low tide and only then, in smooth weather, with much climbing up and down over rocks and at the extreme point by going through a cave with the water at low tide nearly waist deep in it. From Cape Elizabeth the beach extends to the foot of the bluff just beyond the point marked "d". From here to the point marked "e" the <sup>slope line</sup> ~~beach~~ is again impossible at any stage of the tide and a detour through the timber has to be made. The timber all along this outside coast is so choked with underbrush, principally the salal bush that it is almost impassable but invariably denser close to the shore or bluff line than it is a mile or two further back. From the point marked "e" to the end of the sheet there is a broken beach which offers only a few minor obstacles.

The Bluffs at Pt. Grenville

and as far as the Quinault are of a dark appearance and composed principally of hard sandstone and conglomerate. The bluffs at and in the vicinity of Cape Elizabeth are lighter in color than at Pt. Grenville the upper portion being of yellowish clay and the lower portion of a sort of sandstone conglomerate: from Cape Elizabeth to the end of the sheet they have a yellowish appearance and are principally composed of clay with a rock foundation.

The first important rocks north from Grays Harbor appear on this sheet. Greenville Arch. Five eights of a mile SW from Pt. Grenville. Eight two feet high. is a very prominent rock it is white in summer. from bird lime; (which is usually washed off in winter from rains and heavy seas) it has a small arch extending through it in an easterly and westerly direction.

From Greenville northward the

are myriads of rocks and submerged reefs, many of which on account of smooth weather and carrying the work on rapidly as possible along from the low beach were undoubtedly not seen. There are some heavy breaks indicated on this sheet, off shore, about midway between Pt. Grenville and Cape Elizabeth. These are in the line of and are the heaviest part of what Capt. Willoughby the Agent of Greenwich informed me was in heavy weather a line of dangerous breakers continuing from abreast of Grenville Rock to abreast of cape Elizabeth in the shape of an arc of a circle with a few passages through.

Split Rock is black and conspicuous, about one and one fourth miles off shore and 85 feet high: was so named from the fact that it is cleft in two, in an easterly and westerly direction: from the fact that there is a small

rock about midway between it and Cape Elizabeth another one half of a mile south of it and a third about three fourths of a mile S.S.W. of it. I would infer that there are others, perhaps submerged, in its vicinity.

Willoughby Rock is large and rounded and 123 feet high: it is made of split rock and is named after Captain Willoughby at Quinaprilh.

Sea Lion Rock appears from shore, small and black. It is  $7\frac{1}{8}$  miles N.W.X.W. from Cape Elizabeth and is 3 miles off shore, being  $1\frac{1}{8}$  further off shore than split rock. It was moderate weather when we were abreast of this rock and no breakers could be seen from the beach in its vicinity.

Transportation by wagon ceased at Quinaprilh it being impossible to go farther with any kind of four legged beasts of burden.

and from here to the Quetz River the only possible means that could be utilized to carry the outfit was by a packtrain composed of eight "klootchmen" (Indian squaws): each carrying about 75<sup>lbs</sup> apiece on their backs supported from a strap across the forehead. (It is beneath the dignity of the "bucks" (males) to do manual labor of this character) When this unique train was rounding the southerly one of the two points of Cape Elizabeth one of the klootchmen fell off the ledge, around which we had to crawl, into the surf with about 80 lbs on her back, it being low tide we managed to climb down into the breakers and pull her and the pack out. if the tide had been two feet higher the sea would have beaten her to death against the rocks in a few minutes and it would have been impossible to reach her.

These creatures are practically beasts of burden, have no sense of honor, never expect to stick to their agreement and are very difficult to manage: as a rule every morning they convolt a strike for either more money or additional securities and sometimes for both: after they have several days wages due them they can be better controlled with the threat that they will not be paid unless they keep to their original agreement.

Camps were made at the following places, at "c" on Pt. Grenville, at Annaiell Village, on the sand beach at "d" and at "e"

sheet No 4

The Azimuth stations for continuing the work are "Greets Bee Flag" and "Outer of Four Trees Flag."

The lower portion of the Greets River could be navigated with

river steamers; it has a strong current and is a powerful stream. By referring to the sketch it will be seen that its mouth has, at some time, been about one and one third of a mile, then <sup>further North</sup> it is at present, it is now rapidly cutting into the cement bluff at Greets tree. The breakers off its mouth are very heavy. The Greets Indian Village is on the west bank of this stream about one half of a mile from its mouth.

The Beach south of the Greets River is smooth and composed of gravel and sand: between the Greets and "Outer of Four trees flag" it is very bold and precipitous and composed of very loose shifting shingle worn smooth and rounded: From here on, the intervening beaches are composed of coarse sand with scattering boulders. It is impossible to pass from "a" to "b" except at extreme

low tide and in smooth weather.

The Bluffs along the entire shore are of the same clayey character and are of a yellowish color with the exception that from "a" to "b" the base is of conglomerate and darker in color.

There are very few rocks on this shore and none of them of importance. the furthest being only about one third of a mile off shore.

The Klottzman pack train belonging to the Quinault tribe would not go beyond the south side of the Quets entrance and from here on to the Hoh River two Quets Indians one squaw and two "Kintan's." (ponies) were employed for transporting the outfit.

Camps were made on the beach under Quets tree and at the points marked "a"

Sheet No 5.

The Azimuth stations for continuing the work are "Cultus Tree" "Tree East End destruction Island" "Hoh River Topographical" and "Goleak Point".

The Hoh River could be navigated with river steamers at its lower end. It is a powerful stream and cannot be forded at any time: on the south side of its mouth is located the Hoh Indian Village composed of about six buildings. There is also a sunken rock directly off its mouth.

Chah-lut creek is small and can be forded.

The mouth of the Tek-chen-whit River is inaccessible from the beaches on either side, a short distance above its mouth it divides into two streams neither of which are navigable. On the westerly branch there is a beautiful waterfall.

In smooth weather the Indians go in and out of the Hoh River with

21  
16.

canoes: as the outer breakers are quite heavy there, they generally keep inside of them by wading their canoes in the surf until they are sheltered by the rocks that are about one mile N.W. of the entrance where they then put out to sea.

Close to the end of Toleak Point and on its south side the Indians land with their canoes in moderate weather, this place is full of sunken and awash rocks and is dangerous in rough weather.

Hoh Head is bold and conspicuous, the cliffs on its seaward face being vertical and impassable.

Toleak Point with its outlaying rocks is quite prominent but not ~~as~~ much so as the headland NW of it which come on the next sheet: at this place there is an Indian settlement composed of two buildings.

Beginning with the south end the beach can be traversed all the way to the Hoh River at low tide, there being but two places impassable at half tide viz at "Cultus Tree" and from "x" to "y" From the Hoh River the coast line can be walked and climbed along until the point "a" is reached where a detour through the timber and over the high-lain<sup>l</sup>s has to be made the beach being regained at "b" from "b" to "c" and from "d" to "e" it is impassable except at low water; from "f" to "g" is also another impassable place; from "h" to "i" a long circuitous detour through timber has to be made wading bolt branches of the Keh chenwhit River and from "j" to "k" another circuit inland has to be made:

The Bluffs generally speaking are clay of a yellowish appearance with the exception that at Hoh Head

in the vicinity of the Tch chenwhitt River and from "J" to "K" they are of a dark appearance and composed of conglomerate mainly.

The most important object off shore on this sheet is Destruction Island, which is about three and one half miles from the mainland, from which it appears perfectly flat and as if composed of a single terrace, the only landmarks on it are three trees, or small clumps of bushes, its shore line is deduced from the survey of Assistant Lawson in 1866.

There are numerous rocks, islets and submerged and awash reefs on this sheet, the outer ones of which average about one and one half of a mile off the shore: the more conspicuous being North Rock a column 100 feet high, Perkins' Reef large and jagged, Alexander Island smooth

and rounded one hundred and twenty feet high. Rounded Island dome shaped one hundred and thirty feet high and the Giants Graveyard composed of about a half dozen huge monoliths from eighty eight to two hundred and twelve feet high.

The pack train composed of Indians and ponies could not go beyond the Hoh River and from here a scaling canoe with a crew of three Indians was engaged to take the outfit to Toleak Point the nearest landing place. After reaching Toleak Point the weather became too rough to use the canoe and from here on to Quillahute an Indian pack train had to be resorted to again.

Camps were made at the Hoh Indian Village and at Toleak Point

Sheet N<sup>o</sup> 6

As some of the outlying rocks would not come on the sheet without having to be stopped on it as shown.

The Aspinwall stations for continuing the work are "James Island" and "Coke Rock".

The lower portion of the Quillibute River could be navigated with river steamers. It is a very powerful stream and cannot be forced under any conditions: within the memory of man its mouth has been between James Island and Quillibute village; the Dickodochedas River branches off to the Northward about one third of a mile from its mouth.

A Seattle firm has a trading post at Quillibute Village, their goods being brought by schooner which anchors in smooth weather in the cove inside (east) of James' Island, if much of a sea rises.

before she completes discharging  
she has to put out to sea and wait  
until smooth weather.

Teakwhit Head and the first point  
south of Quillibute are the only  
prominent headlands.

The Beach ceases at "a" Teakwhit  
Head cannot be climbed around at any  
stage of the tide, and a detour has  
to be made through the woods to "b"  
then there is about one and one fourth  
of a mile of beach and then another  
impassable head is met and has  
to be crossed over from "c" to "d". From  
d to a point about two miles north  
of the mouth of the Quillibute River  
there is a sand and gravel beach.  
the remaining distance consists of  
alternate strips of sand and "lubby" (stony)  
beach.

The Bluffs at Teakwhit Head, the  
first point south of Quillibute and  
the four islands off Quillibute are

17327

precipitous precipitous and are composed of a dark conglomerate. The bluffs in the vicinity of Cape Johnson are composed of clay and conglomerate.

There are numerous rocks, islets and submerged and awash reefs on this sheet: the more conspicuous ones being Quillhute Needle, which is pointed like a spire, eighty-five feet high. James' Island is high, bold and wooded, this island is connected with the mainland at low tide. Coke Rock which is one and three fourths of a mile off shore, it appears of the same shape from all directions and has a slight rise, or mound, in its centre like a loaf of coke. Hence its name. it is 116 feet high and from its peculiar shape () and location is one of the conspicuous land marks on this part of the coast and is familiar to all of the experienced coasters.

The Indian park train was,

discontinued at Quillihute, the weather being smooth a canoe with two Indians was employed to transport the outfit.

Camps were made at Quillihute village and at e.

Sheet N<sup>o</sup> 7.

The Azimuth stations for continuing the work are "Jagged Islet" "Carroll Islet" "Ham Rock" and "Wah-yoh" "Cape Head". "Flag" and "Wah-yoh" were occupied with the theodolite.

The Osett River is not navigable and can be forded at low tide it is the outlet of what is locally called Osett Lake, known on the coast as Lake of the Sun; there are a few settlers living on its shores, two of which I saw. They describe it as being irregular in shape with small bays, points, etc. It has never been called Lake of the Sun except by strangers.

who obtained the name from the maps. The name Osette Lake is well fixed in the mind of all who practically know anything about it, they seldom if ever see maps, and the chances are that locally it will always be called by that name. File this, etc.

The only important headland on the sheet, is the one back of Osette Indian Village which with the large, high, outlaying timbered island is very conspicuous and often mistaken for Cape Flattery.

The Beach with few minor interruptions can be traversed on foot: by referring to the sheet it will be seen that it is very much broken, being composed at intervals of sand and at other intervals of irregular stones ("hubbly") which are very tedious to walk and climb over.

None of the Bluffs are con-

spicuous. they being composed of clay or conglomerate, respectively at irregular intervals.

There are innumerable Rocks, Islets, and submerged and awash Reefs on this shore. the more conspicuous and important ones are as follows. Jagged Islet. two and one third miles off shore is a large irregular and jagged reef its highest point being about 70 feet. about one mile N.E from it is Carroll Islet which is high and wooded with a columnar rock, 125 feet high, one eighth of a mile to seaward from it.

Hund Rock from some directions resembles an index hand. it is small and 27 feet high. Yamhill Reef is low and practically awash. it is about two and one half miles off shore and the same distance further west than Latooth Island and is in the most <sup>southerm</sup> position of any rocks in this vicinity. The Steamships

31  
177.

umatilla struck one of these rocks  
hence its name.

Qestt and Bodelth Islets are high  
and timbered; from the fact that they  
are further to the westward than  
Cape Flattery they are very conspicu-  
ous landmarks to the mariner com-  
ing from the southward.

Transportation was by canoe  
with two Indians.

Camps were made at "a" and at  
Qestt Indian Village.

### Sheet N° 8 with supplement.

The only station on this sheet  
for controlling the azimuth is Latorush  
Astronomical Station.

The lower portion of the  
Soo-e-ez' River is navigable for  
small boats and canoes. it has  
quite a volume of water and can  
be forded about one mile above  
its mouth at exceedingly low tide:

about one and a half miles above its mouth and between it and the beach is an Indian settlement composed of two or three buildings, only one of which is used.

Watch Slough runs through the low valley to within a stones throw of the beach at Neekah Bay. It is simply a tidal slough and can be forded almost anywhere at low water.

The Headland south of the Point of the Arches and Portage Head are high and bold but from the southward they show against Cape Flattery which is the important headland and has a background of a mass of high wooded hills.

The water in Loveej Bay is not very deep and vessels can anchor there in northerly and easterly weather with safety provided that there is not too much sea.

Watch Indian Village is a

winter habitation while Arch-a-wuk  
is exclusively a summer abode.

Commencing with the south end there is a poor beach to "a". From "a" to "b" it is impossible to climb along the shore so a long detour has to be made to "b" at low tide and to "b" at high tide. There is a good sand beach from "b" to "c". From "c" to "d" it is impassable along the shore and a very long detour has to be made. This stretch was the most difficult of any to get across and around with the work. From "d" to Watch Slough there is a good sand beach with one break in it. From Watch to the N.W. corner of Cape Flattery there is no beach worth mentioning and from a half of a mile beyond Arch-a-wuk Indian Village to the end it is impossible to climb or walk along and the work had to be carried on by landing on the outlaying.

rocks with a canoe.

The Bluffs at Point of the Arches, Portage Head and from Watch to the end of the work are of a dark coarse conglomerate.

The more important "Rocks" are off the cliffs at Point of the Arches and off Cope Flattery: on account of vessels having to keep to the westward in order to safely round Umatilla Reef none of these are in their track.

In thick weather navigators can always determine when too close in shore in this locality by means of the lead.

Transportation on the outside was by means of a canoe and two Indians: an ox team was employed to haul the outfit from Watch to Neah Bay.

Canoes were made at "b". "d". Watch Village and at Neah Bay.

In conclusion I wish to state that this work was (as indicated in the title to each sheet) a reconnaissance and a very rapid one at that.

The work was, almost entirely carried on, from the water's edge: some of the time the weather was very smooth, in consequence of which there would naturally be very few if any "breaks"; undoubtedly some of the awash rocks could not be seen from the low beach and it should be distinctly understood that no pretention is made that all of the off shore rocks and breakers were determined but simply those that were visible at the time the work was executed regardless of the stage of the tide and roughness of the weather.

Between Grays Harbor and Cape Flattery there are three different and distinct tribes of

36  
1882

Indians viz. the Quinaults, the Hoh's and the Micaws, the latter compose the Quillahutes, Osolettes, Cape Flattery and Neah Bay; the languages of these three tribes are so dissimilar that it is impossible for one to understand the other. their only means of inter-tribal communication being the Chinook jargon.

Only a casual study of the Progress Sketch (on a scale of 16000 which accompanied my report dated August 17, 1887 on which the entire work reduced can be seen at once) will convince any fair minded person that, with its myriads of outlying reefs and rocks, this stretch of coast line is an exceedingly dangerous one. Strenuous efforts should be made to impress upon mariners that Laws occur along the necessity

of giving it a wide berth and also that in foggy weather, which extensively prevails during the summer months, that proximity to the shore can be determined with the lead and that it should be used frequently!

There is neither a Light, Beacon or Buoy along this stretch to assist the mariner in finding his way in thick weather to Cape Flattery. I understand that there has been an appropriation made to place a Light on Destruction Island, this will benefit the shipping, which is only a trifle between the Strait of Juan de Fuca and Columbia River. but of scarcely any practical value to the principal and important port which is between the tributaries to Juan de Fuca Strait and California, Sandwich Islands, Mexico and South America: the portion of these

vessels that are steamships take their departure from Cape Blanco for just outside Flattery Rocks; in thick weather they are liable to get too far inshore but not, as a rule, far enough to hear a fog-whistle on Destruction Island; they are much more liable to fetch up abreast of the Quillibute River or Flattery Rocks than further to the southward and eastward.

Sailing vessels, as a rule, stand farther out to sea than steamers but it is their aim to make Talloosah Light.

Masters of both sailing and steam vessels stand in great awe of the South West coast of Vancouver Island consequently they all try to make Cape Flattery as closely as possible in consequence of which they are liable in thick weather to get too close inshore before reaching there.

185.  
39

James Island abreast of Quillibute is accessible, being connected with the mainland at low tide, it is high and bold, a Light and Fog Signal placed there would serve as a "guide-board" to all bound for the Strait of Juan de Fuca: it is seven and one half miles further west than Destruction Island and vessels nearing Flattery Rocks would be liable to see either it or Tallosh Light. There is a moderate weather anchorage in the cove on the east side of this island for vessels bringing supplies and is now used by the N.W. Fur and Trading Co for that purpose.

Umatilla Reef is low, practically awash. It is two and one half miles further west than Tallosh Island and a very dangerous rock.

I would recommend that the most powerful kind of a whistling buoy be placed off it, which

would, probably, be in from twenty to twenty-five fathoms of water.

From what I can ascertain a majority of the vessels lost while bound for Fuxa Strait have been wrecked or disabled north of Toleak Point, between which and Talwosh Island there are two practical places for life saving stations: the southerly one is at Quillihute Indian Village; in southerly weather life saving appliances can be launched from the north side of the sand spit connecting James Island with the main land and in northerly weather from its south side. The other is at Osette Indian Village, the space between Osette Island and the shore is filled with a <sup>11</sup> patch of Kelp and rocks which break the sea: in northerly weather lifeboats can be launched from the south side of the kelp patch.

467

and in southerly weather they can  
be launched from the beach  
immediately north of the village.

Very respectfully

J. P. Drath

as  
chief of party.

To.

Mr. F. M. Thorn.

Superintendent,

U. S. Coast & Geodetic Survey

Washington, D.C.

Seattle W.S.

February 17<sup>th</sup> 1858

188.