

anchorage, but proceed at once to the northward, along Bellingham Bay and through the group of islands, pass into Birch Bay and Fraser's river, still continuing the survey as far as the entrance to Johnston's Straits. You will then return to the southward, along the eastern shore of Quadra's and Vancouver's Islands, until you arrive again at the Straits of Juan de Fuca, which will be looked for about the first week in July, when you will anchor in New Dungeness Harbour. After reaching it, you will despatch my two boats, with sufficient provisions, to make for this anchorage, ordering them to keep a look-out on the different points for information from me, which I shall leave, in case I shall have passed down Admiralty Inlet.

The following instructions will be observed for carrying into effect the surveying duty, &c.

Whenever practicable, the bases will be measured by chain, and the true direction of the base-line formed.

Astronomical observations will be particularly attended to, for latitude and longitude, by circummeridian and equal altitudes, daily, if possible, and from those points or the hills or bluffs near by, observations will be made with the theodolite on all distant points or mountain ranges, with a view to ascertain the actual position of peaks, their extent and height, and to form a connexion with your work. For this purpose, I recommend large trees to be barked or whitewashed, which will be found the most convenient signal, and easily distinguished on each side of the straits. An old piece of canvass, whitewashed and placed against a dark ground, or cut into a triangular form, and tied between bushes or trees, forms a mark easily distinguished, and may be left standing.

It is extremely desirable that the points astronomically ascertained should be brought directly into connexion with each other, by triangulation, and no opportunity of getting the bearing of points in transit should be neglected.

The bays, harbours, &c., will be on the scale of four inches to the mile, but the general chart you will plot on the scale of two inches, which will include all distant points.

The officers will be particular in sketching in the shores and tracing the topography.

It is expected that the soundings will be full, and no part omitted, and that every part of the harbours that are surveyed will be attended to in this respect, as few things give so unsightly an appearance to a survey as an irregularity of soundings. In order, therefore, to have a full view of your work done, it is necessary that it should be plotted immediately, and the work kept up daily. The number of officers