

define the datum for the whole extent of Baynes Sound. It is of the more importance as tidal observations were secured at Union Wharf in this sound, for fifteen months in all, during the years 1898 to 1900. By comparison with these, this datum has been carried northward to Mitlenatch Island and to Quathiaski Cove near Seymour Narrows. The observations were taken with a registering tide gauge, and the record has been handed over to this Survey through the courtesy of the Admiralty. The tide levels thus secured will serve for the mining town of Union when the results are worked out.

The note on the general chart of Baynes Sound is as follows:—
 "The soundings are reduced to 23.9 feet below the level of the slab at Goose Spit Magnetic Observation Spot." This spot is marked by a triangle on the charts of Baynes Sound and Comox. We can give a description of it from personal inspection, which will enable it to be found and identified.

The Magnetic Observation spot is on the north-west shore of Goose Spit, in the second bay west of the Admiralty building and wharf. It is between the last two rifle butts towards the south-west end of the Spit, and ten feet back from the edge of a low bank running along the beach. It consists of a cement slab, about 16 inches square, in the sandy ground, level with the surface. It is marked "Mag. Obsy. Egeria. 1898," in letters of lead let into the cement. Its level is about ten feet above high water mark.

There is another observation spot for latitude and longitude, which is farther to the south-west and farther back from the shore. It is a similar slab of cement; but it is a few inches above the ground, and differently marked, and cannot be mistaken for this one.

Nanaimo.—The chart survey was made by Commander Smythe in 1899. The note on the chart regarding datum, is as follows:—
 "The datum to which the soundings are reduced is 18.6 feet below the summit of the masonry beacon on Beacon Rock, which corresponds to 10 feet below a mark (10) cut in the perpendicular rock surface close to the small landing stage on the north side of the peninsula fronting the town, and adjoining the Ballast Wharf."

The beacon referred to is a truncated cone of concrete and iron, and its surface is rough and somewhat rounded. The mark on the rock would give a more definite elevation, but after careful search it could not be found, owing to the vagueness of the description. The mark is within the range of the tide, and the rocks are grown over with barnacles.

Telegraph Harbour.—This harbour is on Kuper Island, on the same body of water as the new towns of Ladysmith and Chemainus; the three places being within seven miles and within sight of each