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Ding. Cht. No. 1202

Treasury Department,
U. S. COAST AND GEODETIC SURVEY.

O. H. Johnson
Superintendent.

State: *Maine*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *1400a*

LOCALITY:

East Pembroke Bay

1905

CHIEF OF PARTY:

L. H. Washdahl, Asst.

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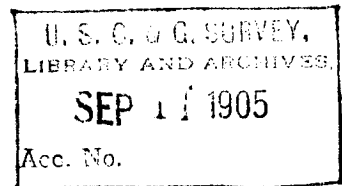
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Department of Commerce and Labor

COAST AND GEODETIC SURVEY Str. EXPLORER

Rockland, Me., Aug. 29th., 1905

The Superintendent,
C. & G. Survey,
Washington, D. C.



Sir:-

I have the honor to submit the following Descriptive Report to accompany the Hydrographic Sheet of the Ledges, Isle Au Haut Bay, Maine:

The position of the ledge reported by Mr. Arthur B. Denny as determined by party of this vessel is as follows:

Latitude $44^{\circ}05'$ - 378 meters

Longitude $68^{\circ}39'$ - 47 meters

The shoalest reduced depth found on this ledge was 10-1/2 ft. rock at mean low water, and this sounding was taken at a position S. $59^{\circ}10'$ E. true, 823 meters from Bay Ledge Spindle. The ledge has gradually sloping sides and covers an approximate area of 100 meters to the 4 fathom curve. 12 feet was found in several places within a radius of 15 meters from the shoalest sounding.

2. The survey in this locality developed a second ledge about one-quarter mile from the ledge reported by Mr. Denny at the following position as taken from the previously mentioned projection:

Latitude $44^{\circ}05'$ 393 meters,

Longitude $68^{\circ}39'$ 513 meters

(2)

The shoalest sounding found on this ledge was 13 feet rocky, which reduced to 13-1/2 feet at mean low water, and the sounding was taken at the above position or 472 meters in a S. 30 20' E. true direction from Bay Ledge Spindle. This ledge covers an area of about 30 meters and falls off abruptly to good water.

3. This second ledge was entirely unknown to Mr. Denny, who called at Isle Au Haut during my stay there, and to pilots of vessels in that vicinity. It is in a much more dangerous position than the first one, for vessels making the anchorage off the north-east end of Kimball's Island after coming up from the Southward. This locality is much traversed by yachts of every description and there is a large summer colony of yacht owners on Pt. Lookout.

4. The Captain of the Bay Steamer "Vinal Haven" reported in a vague way a shoal lying between Channel Rock and Scraggy Ledge, vicinity of Hardwood Island, on which he had struck, drawing 8 feet. I ran two lines of soundings over this locality but got no indications of any obstruction.

Respectfully submitted,



Assist. C. & G. Survey,

Commanding.

Plane Table Positions

Object and Description	Lat	:D.M.:	Long.	:D.P.:	Height above		Remarks
					M.L.W.	:Approx.	
Kim, Tripod Signal Northwest Head of Kimball's Island.	:44°04'	:	1391:68°40'	:	1326:	100 ft.	:Not marked
Spin, Bay Ledge Spindle.	:44°05'	:	799:68°39'	:	755:	30	:Permanent.
Chant, Tripod signal on Merchant's Island.	:44°06'	:	71:68°38'	:	553:	50	:Not marked

To accompany Hydrography of Ledges
in vicinity of Kimball's Island, Me.

A. Westdahl
Asst.

The use of ditto marks or other symbols to represent Arabic numerals in original records is not good practice and should be discontinued. The tide record for this sheet is an example of the improper use of such marks.

Where guide buoys are used in the development of dangers, it should be so stated in the record and the location of buoys given by angles. Whenever sounding boat passes buoy it should be noted in record, and bearing and distance entered. Such information is very useful in protracting positions and plotting soundings. It appears from the record that a buoy was used in this work; but it is mentioned only twice during the survey (three days work), and it is not at all a matter of certainty who placed it and for what purpose. The position 1270 was near the buoy and on the reported shoal, doubtless; but it does not plot there and places the 11 ft. sounding, rocky bottom in 40 ft. of water, over 100 m. S.S.E. from the shoal. No remark concerning it was entered.

Sextant determinations of positions are frequently in doubt, often involving the location or even the existence of important shoals, and no means of checking or supplementing them should be neglected.

The drag was not used on this work. It is not certain min. depth on rocks was obtained or that the several indications of other rocks do not require examination.

12/9/05.

J.T.Watkins. (Signed).