4183

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Diag. Cht. No. 5602-2

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: California

DESCRIPTIVE REPORT.

Hydro Sheet No. 4183

LOCALITY:

novemern Coast

Lolo Bank

1921

CHIEF OF PARTY:

E H. Pugunhart

4185

DESCRIPTIVE REPORT

To accompany Hydrographic sheet of Tolo Bank
USS LYDONIA, May, 1921.

The work shown on this sheet is generally split lines on the original work where lines were widely spaced.

It was done with trolley except one days work in November, which was with each alternate sounding up and down.

The signals were located by topographic party.

The soundings were reduced from readings on subsidiary staff at Shelter Cove, except that the work on November 4th was reduced from the tide tables, as no direct tidal data was available.

E.H. Pagenhart, Chief of Party.

HYDROGRAPHIC STATISTICS

BOAT U.S.S. Lydonia.

SHRET No. 1 Tolo Bank

DATE LETTER VOLUME	MILES	BOUNDINGS	Pos.	ANGLES	AREA	
May 2, 1921 A 1	20.5	168	90	179		
May 3, " B. 1	30,5	32/	121	244		
"J4" C 142	33.0	33/	154	308	١.	
" 5, " D 2	15.5	235	83	166		
6, 11 E 2	6.2	142	50	100		
May Totals	/05,7	1197	498	997	30.0	
Nov. 4, 1921 F 243	18.0	206	131	266	*	
	1237	1403	629	1263	30.0	
						X

Kenfination Report of Hya. 4183.

The records for This work were is a fair condition. In porme places they were good, Lack of definitions in Time was woliceable throughout. When the "stops" and "ahead" peptim was used this "ahead" time was never revorted. Other descripancies appear here and there.

Iwo pour ding machines were used. Whether they were used & sound simultaneously or attendity is not definite, stated though the soundings were plotted as if the latter system was used.

ear only be described as careless or intifficent There was little adherence to the corner paring; countings were plotted where where there were none puch taken and omitted in other cases.

The "courses" in the words are few and unreliable. The "bottoms" are morele pair on two or there payes.

All the lines words well.

Regalfilly pubruiltel, Colori Baca Frestama. ADDRESS THE DIRECTOR

AND REFER TO NO. 4-MEM

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

WASHINGTON

SECTION OF FIELD RECORDS.

REPORT ON HYDROGRAPHIC SHEET No. 4183

Surveyed in 1921.

Chief of Party: E. H. Pagenhart.

Soundings plotted by W. T. Chovan.

Jully + Up + Down ry

Surveyed by O. W. Swainson and R. P. Eyman.

Verified and inked by A. Baer.

Protracted by W. T. Carter.

1. The records do not conform to the requirements of the General Instructions in the following respects:

Complete information regarding the sounding machines was not given. The time when soundings were taken was not always stated.

Courses given in a number of instances were grossly in error, hence doubt was cast on all of them.

Changes in course often omitted.

Very few bottom characteristics were given.

- 2. The plan and character of development fulfill the requirements of the General Instructions.
- 3. The plan and extent of development satisfy the specific instructions.
- 4. The sounding line crossings are adequate.
- 5. The development is sufficient to permit the usual depth curves to be drawn.
- 6. The field plotting was completed to the extent prescribed in General Instructions. The protracting is good although the position numbers and day letters are too large and are carelessly done. Little attempt was made to space the soundings according to time intervals.
- 7. The junctions with adjacent sheets are satisfactory.
- 8. No further surveying is required within the limits of the sheet.
- 9. The character and scope of the surveying is good. The field protracting is good but the plotting of soundings by the field party was poor.
- 10. Reviewed by E. P. Ellis, February, 1922.

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 4183

Locality: Tolo Bank, Northern Coast of California.

Chief of Party: E. H. Pagenhart in 1921

Plane of reference is mean lower low water, reading

- 3.4 ft. on tide staff at Shelter Cove, California.
 *4.0 " " " " North Jetty Landing, Humboldt Bay.
- *Allowance made for difference in time at place of soundings Condition of records: Satisfactory.

Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4183

Remarks: