

# FE 115

FE 115

Diagram No. 8152-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT (HYDROGRAPHIC)

Type of Survey ..... Field Examination  
Field No. ....  
Office No. .... FE-115

### LOCALITY

State ..... Southeast Alaska  
General Locality ..... Ursua Channel  
Locality ..... Vicinity of San Bautista  
..... Island

19 53

CHIEF OF PARTY  
F.R. Gossett

### LIBRARY & ARCHIVES

DATE ..... September 21 1953

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as; FE No.5 1953

# FENo.5 1953

FE-115

Diag. Cht. No. 8152-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey ..... HYDROGRAPHIC

Field No. .... Office No. F.E. No. 5  
1953

### LOCALITY

State ..... SOUTHEAST ALASKA

General locality ..... URSUA CHANNEL

Locality ..... VICINITY OF SAN BAUTISTA ISLAND

194 53

CHIEF OF PARTY

F. R. Gossett

LIBRARY & ARCHIVES

DATE ..... September 21, 1953

B-1870-1 (1)

FENo.5  
1953

SPECIAL HYDROGRAPHIC INVESTIGATION

VICINITY SAN JHAN BAUTISTA ISLAND

SOUTHEAST ALASKA

1. In accordance with instructions 22/MEK, S-2-HO, dated 16 June 1953 an investigation was made of the reported submerged rock near the charted 8 fathom shoal west of the southwest end of San Juan Bautista Island.
2. Triangulation stations IGNACE 1907, LAT 1907, GURA 1907 and MOND 1907 were recovered and built to furnish control for this investigation. St. Ignace Rock Light was located by sextant cuts, which are recorded in the sounding volume, and was used in a few positions when other signals were obscured by rain. All sounding was controlled by three point sextant fixes on these stations.
3. Sounding was accomplished using Launch No. 134 and 808 type portable depth recorder No. 77 with reeds calibrated for a velocity of 800 fathoms per second. The transducers were placed inside the launch and bar checks at two fathoms gave an index and draft correction of zero fathoms.
4. The area investigated was between parallels 55° 24' and 55° 25' and between meridians 133° 20' and 133° 22'. A tracing of Chart 8155 was used for a boat sheet and a closely spaced system of east and west lines was run over the area investigated. This showed no indications of a submerged rock but did indicate that the charted 8 fathom and 10 fathom soundings were in error. A closely spaced system of north and south lines was then run over the same area where the depths were less than 50 fathoms. An indication of a shoal was found south and east of the charted 8 fathom sounding. A shadow was noted on the fathogram, between positions 101 and 102 <sup>day</sup> which appeared to be a side echo or kelp. This area was investigated by planting a marker buoy near the shoal, Position 4d, page 43 of the sounding volume and running slow speed lines in all directions around the buoy. This shadow would appear each time the launch was about 15 meters southwest of the buoy and would appear at no other place. A hand lead was put over and the bottom felt over throughout this area. A 9.5 fathom hand lead sounding at the buoy position was the shoalest hand lead sounding obtained. This is a small shoal about twenty five meters in diameter and approximately one hour was spent feeling over the area. The bottom is irregular, covered with boulders or boulder like projections projecting three to four feet above the general bottom. No indications of kelp could be found to account for the shadow on the fathogram. A fathometer sounding of 8.6 fathoms, position 2d was the shoalest sounding obtained in this area and it is believed there is nothing shoaler in the vicinity.

See  
Re:  
view

The same procedure was followed in the vicinity of the charted 8 fathom sounding where 35 minutes were spent running around the buoy and feeling over the bottom with the hand lead. A fathometer sounding of 4.7 fathoms, position 8d was the shoalest sounding obtained. A hand lead sounding of 4.9 fathoms in approximately the same position was the shoalest hand lead sounding obtained. This shoal is also covered with small boulders and it is believed that there is nothing shoaler in this vicinity.

The same procedure was followed in the vicinity of the charted 10 fathom sounding where 35 minutes was spent running and feeling over the area with a hand lead. The shoalest sounding obtained was 5.9 fathoms, position 11d. A 6.0 fathom hand lead sounding was obtained in the same area. This shoal is also covered with small boulders and it is believed that there is nothing shoaler in this vicinity.

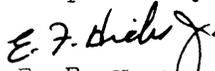
738

5. All soundings were reduced to plane of MLLW by means of half hourly readings on a tide staff at Craig, Alaska which was connected to three old bench marks by spirit levels. Plane of MLLW on the staff was determined to be 1.86 feet.

6. The Master of the Fish and Wild Life Motor Vessel AUKI was contacted while at Craig regarding this reported rock and he stated that he had been around that area at all stages of the tide and that he had never seen a bare rock and did not believe one existed.

7. In view of the findings of this party and the statement of the Master of the Motor Vessel AUKI, it is believed that further investigation of this area at this time is not warranted. It is recommended that the charted soundings be changed to agree with those obtained by this party and if further investigation is deemed necessary that the area be covered with wire drag when modern surveys are made in the area.

Respectfully submitted,



E. F. Hicks, Jr.

CDR, USC&GS

8/20/53

Approved and forwarded:



F. R. Gossett,

CDR, USC&GS

Comdg., Ship HODGSON

Data Forwarded:

- 3 Tracings Section of Chart 8155 with soundings plotted
- 1 sounding volume
- 1 vol. Tide staff readings
- 1 Tide station level record
- 2 Form 689 Report Tide Station
- 4 Triangulation Station Recovery Cards
- 4 Fathograms, a, b, c & d days

EH 5

TIDE NOTE FOR HYDROGRAPHIC SHEET

22 September 1953

~~Division of Coastal Surveys:~~

Division of Charts: R. H. Carstens

Plane of reference approved in  
1 volume of sounding records for

~~HYDROGRAPHIC SHEET~~ FE No. 5 1953

Locality Ursua Channel, Southeast Alaska

Chief of Party: F. R. Gossett in 1953  
Plane of reference is mean lower low water, reading  
1.9 ft. on tide staff at Craig  
17.6 ft. below B. M. 5 (1917)

Height of mean of high water above plane of reference is  
9.2 feet.

Condition of records satisfactory except as noted below:

*E. C. McKay*  
Section of Tides

Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No. F.E. No. 5, 1953

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
											1
											2
											3
											4
											5
											6
											7
											8
											9
											10
											11
											12
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											24
											25
											26
											27

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. F. E. No. 5, 1953  
 .....:.....

Records accompanying survey:

Boat sheets .....; sounding vols. 1....; wire drag vols. ....;  
 bomb vols. ....; graphic recorder rolls 1 Env;  
 special reports, etc. 3 Tracings.....  
 .....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....	231
Number of positions checked	.....	1
Number of positions revised	.....	0
Number of soundings revised (refers to-depth only)	.....	0
Number of soundings erroneously spaced	.....	0
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	.....0
Junctions	Time	.....0
Verification of soundings from graphic record	Time	.....2

Verification by *Lu Jaskind* ..... Total time 16 ..... Date 1-25-54

Reviewed by *Lu Jaskind* ..... Time 7 ..... Date 1-26-54

Review of Field Examination No. 5, 1953

This is a field examination of the reported submerged rock near the charted 8-fm. shoal west of the southwest end of San Juan Bautista Island. The examination covers an area approximately one mile square between parallels  $55^{\circ}24'$  and  $55^{\circ}25'$  and meridians  $133^{\circ}20'$  and  $133^{\circ}22'$ .

The field examination failed to reveal a submerged rock, but did show least depths on the shoal of 4.7 fms. in lat.  $55^{\circ}24.70'$ , long.  $133^{\circ}21.18'$ , and 5.9 fms. in lat.  $55^{\circ}24.53'$ , long.  $133^{\circ}21.35'$ .

A comparison between prior survey H-3818 (1915) and the field examination reveals differences in depths of as much as 6 fms. As for example in lat.  $55^{\circ}24.40'$ , long.  $133^{\circ}20.30'$ , where a present depth of 21 fms. falls in prior depths of 25 - 27 fms. Several soundings from the field examination have been carried forward to survey H-3818. The field examination supplements the prior survey.

The 4.1 fms. sounding noted in the second paragraph above has been applied to Chart 8155, dated 9-8-52. Although the charted soundings are adequate for navigational needs, the present survey shows some soundings in 20 - 30 fm. depths which are shoaler than the charted depths.

The Descriptive Report adequately covers all other matters pertaining to this examination. No further discussion is considered necessary.

I. M. Zeskind

Date: 1-26-53

Inspected by: R. H. Carstens

133° 24'

133° 22'

133° 20'

133° 18'

133° 16'

▲ GURA 1907

○ LIGHTHOUSE

55° 26'

▲ LAT 1907

▲ MOND 1907

55° 24'

▲ IGNACE 1907

SPECIAL INVESTIGATION  
REPORTED SHOAL  
NEAR CRAIG, S. E. ALASKA  
SHIP HODGSON  
F. R. GOSSETT, COMDG.  
14 - 20 AUGUST 1953  
Sheet 1 of 3

55° 24'

24'

22'

133° 20'

18'

133° 16'

△ GURA 1907

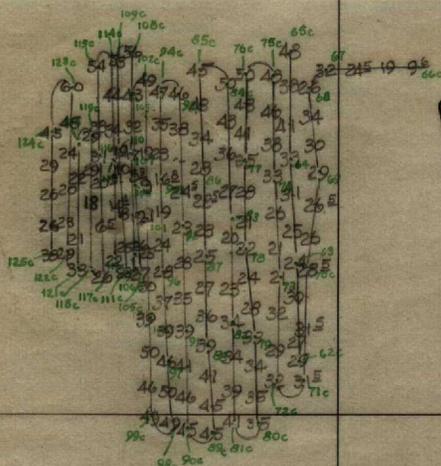
55° 26'

○ LIGHTHOUSE

△ LAT 1907

55° 24'

△ MOND 1907



△ GNACE 1907

SPECIAL INVESTIGATION  
REPORTED SHOAL  
NEAR CRAIG, S. E. ALASKA  
SHIP HODGSON  
F. R. GOSSETT, COMDG.  
14 - 20 AUGUST, 1953  
Sheet 2 of 3

55° 22'

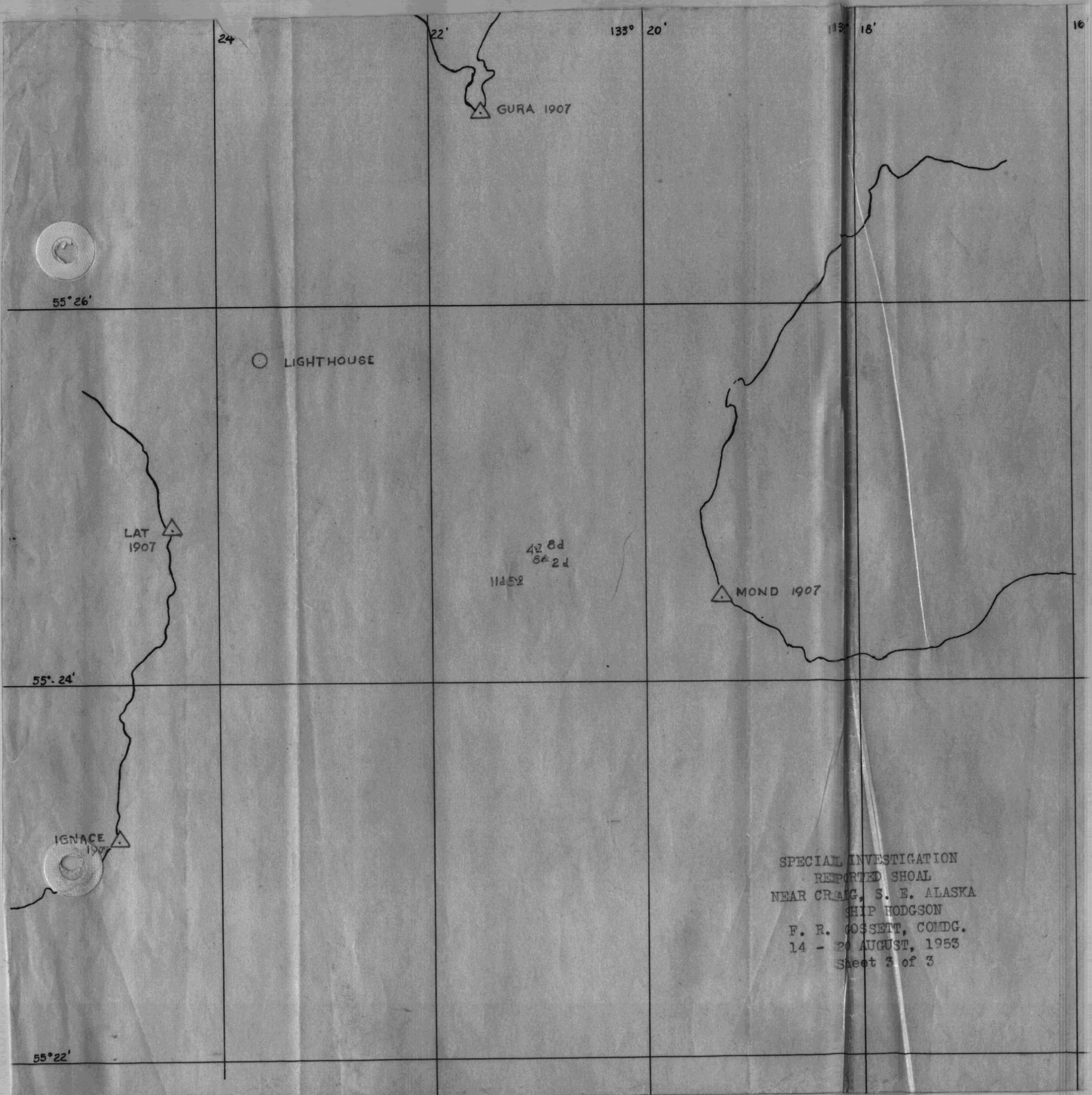
133° 24'

133° 22'

133° 20'

133° 18'

133° 16'



24

22'

133° 20'

131° 18'

16

GURA 1907

55° 26'

LIGHTHOUSE

LAT 1907

428d  
8x2d  
11d52

MOND 1907

55° 24'

IGNACE 1907

SPECIAL INVESTIGATION  
REPORTED SHOAL  
NEAR CRAIG, S. E. ALASKA  
SHIP HODGSON  
F. R. GOSSETT, COMDG.  
14 - 20 AUGUST, 1953  
Sheet 3 of 3

55° 22'

24'

22'

△ GURA, 1907

20'

133° 18'

16'

26'

○ LIGHTHOUSE

△ LAT  
1907

△ MOND, 1907

55° 24'

△ IGNACE, 1907

F.E.No.5, 1953  
INVESTIGATION OF SHOAL  
N.W. of DIAMOND PT., SAN JUAN BAUTISTA I.  
S. E. ALASKA

Scale: 1-40,000  
Ship HODGSON 14-20 Aug., 1953

22'

