

4451

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Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>Florida</u>
11-2613
DESCRIPTIVE REPORT.
Hydrographic Sheet No. <u>4451</u>
LOCALITY:
<u>Atlantic Ocean</u>
<u>Off St Augustine</u>
<u>1925</u>
CHIEF OF PARTY:
<u>F.G. Engle</u>

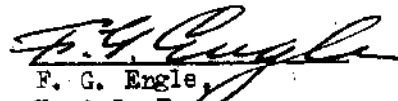
Descriptive Report to accompany Hydrographic sheet
of
Fathometer Test Run
East Coast of Florida, April 8 - 11, 1925.
U. S. S. Lydonia
F. G. Engle, H. & G. E. Comdg.

On the sheet (Mercator projection) is shown the line on which comparison was made between fathometer apparatus and up and down soundings.

The dead reckoning was adjusted on the sheet to positions fixed by St. John's Sea buoy inshore, and sights on celestial objects off shore. The dead reckoning, corrected for leeway and estimated current (the latter being taken from chart #1001 and indications from the lead of wire on deep soundings), is shown in red ink; the position numbers being assigned to changes of speed, course, stops for soundings etc. The adjustment was made on an elapsed time basis and is shown by red dotted lines.

Lines of position are shown in red ink with necessary notations, the corresponding lines after being shifted by the dead reckoning to a common log reading for combination for position are shown by black lines.

As the log was frequently fouled by seaweed, the dead reckoning is based in some places on the engine counter. Where this was done the notation "Counter" was made in column headed "True dist." on the Precise dead Reckoning form, otherwise, this amount is the log distance multiplied by the log factor.


F. G. Engle,
H. & G. E.
Comdg.

July 14, 1925
The work on 114451 was accepted and submitted by the
said party and no verification was made in the
office

June 4, 1925.

Field Records.

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in
1 volume of sounding records for

HYDROGRAPHIC SHEET 4451

Locality: Off St. Augustine, Fla.

Chief of Party: F. G. Eagle in 1925.

Plane of reference is mean low water.

~~Soundings were reduced at~~
all reducers less than one per cent of depth and so are not entered.

For reduction of soundings, condition of records satisfactory.
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks



Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON August 11, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4451

Off St. Augustine, Fla.

Chief of Party, F. G. Engle.

Surveyed by party of Steamer LYDONIA.

Protracted, soundings plotted and inked by F. G. Engle.

Inspected by F. M. Albert.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions.
3. No written instructions were issued for this work, but the Chief of Field Work Section was present and it was done under his observation for testing the new sonic sounding device known as the "Fathomer".
4. The usual field plotting was done by the field party. As the plotting was based upon astronomic fixes, with connections made by dead reckoning, the plotting by the field party was assumed to be correct.
5. No further surveying is required within the area covered by this sheet.
6. The character and scope of the surveying and field drafting are excellent.
7. Reviewed by E. P. Ellis, August, 1925.