SOUNDINGS IN FATHOMS

1st. Ed., Mar. 1919 C-1919-192

Nautical Chart Catalog No. 1, Panel B

11300 (formerly C&GS 1117) LORAN-A/C OVERPRINTED

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

UNITED STATES — GULF COAST

GALVESTON TO RIO GRANDE

SOUNDINGS IN FATHOMS
AT MEAN LOW WATER

(For offshore navigation only)
Floating Aids to Navigation inside the sea buoys are not shown on this chart.
See 1:80,000 scale series and large scale harbor charts for aids marking maintained channels.

Mercator Projection
Scale 1:460,732 at Lat. 28°
North American 1927 Datum

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 5, or weekly Notice to Mariners which include new or revised regulations. Information concerning the regulations may be obtained at the Office of the District Engineer, Corps of Engineers in Galveston, Texas.

Anchorage regulations may be obtained at the Office of the Commander, 8th Coast Guard District in New Orleans, La.

Refer to section numbers shown with area designation.

NOTE B

These are parallel shipping safety fairways and not a traffic separation scheme. However, in the interest of vessel traffic safety, use of the northeast lane for inbound (098° true) traffic and the southwest lane for outbound (118° true) traffic is recommended.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1)

Lights (Lights are white unless otherwise indicated.)

F. fixed	Mo. (A) morse code	OBSC. obscured	Rot. rotating
Fl. flashing	Occ. occulting	WHIS. whistle	SEC. sector
Qk. quick	Alt. alternating	DIA. diaphone	m. minutes
Gp. group	I. Qk. interrupted quick	M. nautical miles	sec. seconds
E. Int. equal interval			

Buoys: T.B. temporary buoy; N. nun; B. black; Or. orange; W. white; C. can; S. spar; R. red; G. green; Y. yellow

Bottom characteristics:

Cl. clay	M. mud	hrd. hard	bk. black	gy. gray
Co. coral	Rk. rock	rky. rocky	br. brown	rd. red
G. gravel	S. sand	sft. soft	bu. blue	wh. white
Grs. grass	Sh. shells	stk. sticky	gn. green	yl. yellow

21. Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

AERO. aeronautical; R. Bn. radiobeacon; C. G. Coast Guard station; Bn. daybeacon; R. TR. radio tower; D.F.S. distance finding station
AUTH. authorized; Obstr. obstruction; P.A. position approximate; E.D. existence doubtful.

HEIGHTS
Heights in feet above Mean High Water.

AUTHORITIES
Hydrography and topography by the National Ocean Survey (formerly the Coast and Geodetic Survey) with additional data from the Corps of Engineers and U.S. Coast Guard.

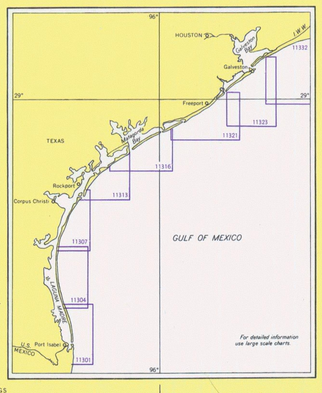
CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

CAUTION
Submerged Pipelines and Cables
Uncharted submerged pipelines and cables may exist in the vicinity of oil well structures, and between such structures and the shoreline Mariners should use caution when anchoring. Covered wells may be marked by lighted or unlighted buoys.

CAUTION
Oil well structures, some submerged and capped, and submerged cables are charted only where offshore of the indicated limits of the 1:80,000 scale series chart.

STORM WARNINGS
The National Weather Service displays storm warnings at the following approximate locations:
Galveston C.G. Station (29°20'-94°46')
Freeport C.G. Station (28°56.5'-95°18.1')
Port Aransas C.G. Station (27°50.5'-97°03.5')
Port Isabel (26°04.4'-97°09.8')
For a complete list of storm warning stations, see large scale charts.



NEW CHART NUMBERING SYSTEM

The National Ocean Survey, in cooperation with the Defense Mapping Agency Hydrographic Center, is in the process of adopting a new national chart numbering system. See Notice to Mariners No. 19, May 11, 1974, or Nautical Chart Catalog for cross references of old and new chart numbers.

Chart Number

New System	Old System	New System	Old System
11301	1288	11315	891-SC
11302	898-SC	11316	1284
11303	897-SC	11319	889-SC
11304	1287	11321	1283
11305	896-SC	11322	887-SC
11306	895-SC	11323	1282
11307	1286	11324	518
11308	893-SC	11326	152-SC
11309	523	11327	519
11313	1285	11332	1280
11314	892-SC		

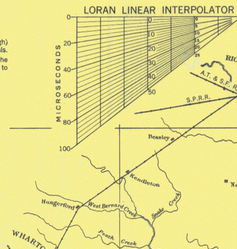
LORAN-A
GENERAL EXPLANATION

FREQUENCY CHANNELS (preceding H)
3 ..... 1900 kHz
BASIC PULSE RECURRENCE RATES
H (high) ..... 33⅓ pulses per second
SPECIFIC RECURRENCE RATES assigned for station identification (following H)
0, 1, 3
EXAMPLE: 3H3

RATES ON THIS CHART
3H0 3H2 3H3

Skywave corrections for all H (high) recurrence rates are indicated by *ITALIC* numerals.
The numerical exponent with the skywave correction indicates the recurrence rate to which it applies.
EXAMPLE: $+11^{0}$

LORAN LINEAR INTERPOLATOR



LORAN-C
GENERAL EXPLANATION

LORAN-C FREQUENCY ..... 100kHz.
PULSE REPETITION INTERVAL
9930 ..... 99,300 Microseconds
STATION TYPE DESIGNATORS: (Not individual station letter designators)
M ..... Master
W ..... Secondary
X ..... Secondary
Y ..... Secondary
Z ..... Secondary
EXAMPLE: 9930-X

RATES ON THIS CHART
* 9930-W 9930-Z

This chart has been prepared for use with ground wave signals. Sky wave corrections are not provided. The Loran-C lines of position on this chart are compensated for observed propagation delay.
*Group repetition interval 9930 was formerly designated SS7.

CAUTION
Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Hydrographic Center Publication 117 (A&B).
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:
○(Accurate location) ○(Approximate location)

(see chart 11326)
(see chart 11327)
(see chart 11309)
(see chart 11316)
(see chart 11315)
(see chart 11305)
(see chart 11306)
(see chart 11303)
(see chart 11302)
(see chart 11308)
Chart 11332
Chart 11323
Chart 11321
Chart 11316
Chart 11313
Chart 11307
Chart 11304
Chart 11301

LITIGATION/COPY

19th Ed., Oct. 23/76
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CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the print date shown in the lower left hand corner.

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

SOUNDINGS IN FATHOMS

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

18	19	20	21	22	23	24	25	26	27	28	29	30	31																
108	114	120	126	132	138	144	150	156	162	168	174	180	186																
18	19	20	21	22	23	24	25	26	27	28	29	30	31																

(Galveston to Rio Grande)
SOUNDING IN FATHOMS - SCALE 1:460,732

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(CONTINUED ON CHART 411) (formerly C&GS 1007)