SOUNDINGS IN FATHOMS

CAUTION - Loran-C rates 7980-W, 7980-X, and 7980-Y are scheduled to become operationally certified on July 1, 1978 and should not be used for navigation without consulting Local Coast Guard District Notice to Mariners for final operational date.

Formerly C&GS 1117, 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 — 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 S

Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices.

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 (298° 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.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

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

Lights (Lights are white unless otherwise indicated.)
F. fixed; Fl. flashing; Oc. occulting; Qk. quick; Gp. group; I. Qk. interrupted quick; E. Int. equal interval; Ms. (A) morse code; Alt. alternating; I. Oc. interrupted occulting; M. nautical miles; OBSC. obscured; WHIS. whistle; DIA. diaphone; Rot. rotating; SEC. sector; m. minutes; sec. seconds

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

Bottom characteristics:
Cl. clay; Co. coral; G. gravel; Grs. grass; M. mud; Rk. rock; S. sand; Sh. shells; hrd. hard; rky. rocky; sft. soft; stk. sticky; bk. black; br. brown; bu. blue; gn. green; gy. gray; rd. red; wh. white; 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; Bn. daybeacon; Bn. radiobeacon; TR. radio tower; C. G. Coast Guard station; 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°50.3'-97°03.5')
Port Isabel (26°04.4'-97°09.8')
For a complete list of storm warning stations, see large scale charts.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

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^{3H}

LORAN LINEAR INTERPOLATOR

MICROSECONDS 0 10 20 30 40 50 60 70 80 90 100

LORAN-C

GENERAL EXPLANATION

LORAN-C FREQUENCY ..... 100kHz.
PULSE REPETITION INTERVAL
7980 ..... 79,800 Microseconds
STATION TYPE DESIGNATORS: (Not individual station letter designators)
M ..... Master
W ..... Secondary
X ..... Secondary
Y ..... Secondary
Z ..... Secondary
EXAMPLE: 7980-X

RATES ON THIS CHART

7980-W 7980-X 7980-Y

The Loran-C lines of position overprinted on this chart have been prepared for use with ground wave signals and are presently compensated only for theoretical propagation delays which have not yet been verified by observed data. Mariners are cautioned not to rely entirely on the lattices in inshore waters. Skywave corrections are not provided.

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

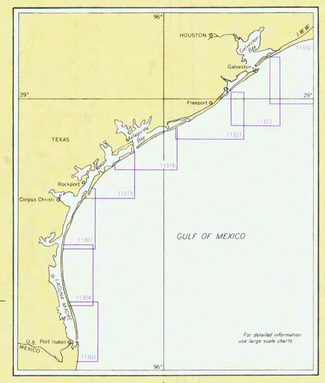
New System	Old System	New System	Old System
11301	1288	11315	891-SC
11302	898-SC	11316	1294
11303	897-SC	11319	889-SC
11304	1287	11321	1283
11305	896-SC	11322	887-SC
11306	895-SC	11323	1282
11307	1286	11324	518
11308	893-SC	11326	152-SC
11309	523	11327	519
11313	1285	11332	1280
11314	892-SC		

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)



(use chart 11326) (use chart 11327) (use chart 11316) (use chart 11313) (use chart 11309) (use chart 11308) (use chart 11307) (use chart 11306) (use chart 11305) (use chart 11303) (use chart 11302) (use chart 11301) (use chart 11316) (use chart 11321) (use chart 11323) (use chart 11324) (use chart 11332) (use chart 11316) (use chart 11315) (use chart 11314) (use chart 11319) (use chart 11322) (CONTINUED ON CHART 5-11) (formerly C&GS 1007)

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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	½	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

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