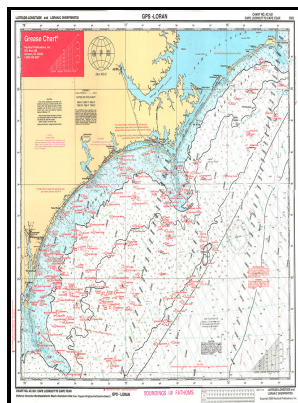


Loran-C table - North Atlantic

Dept. of Defense, Defense Mapping Agency, Hydrographic/Topographic Center : for sale by authorized sales agents of the Defense Mapping Agency, Office of Distribution Services - NOAA Catalog 3, Coastal Charts



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Navigation

Early Pacific Polynesians used the motion of stars, weather, the position of certain wildlife species, or the size of waves to find the path from one island to another. Validation tests are normally required when proposed operational situations require special equipment and a special operational authorization for each type of aircraft used.

Loran

All secondary stations radiate pulses in bursts of eight, whereas the Master signal, for identification purposes, has an additional ninth pulse burst Fig. Fortunately, ASFs vary little with time, and it is possible to calibrate the Loran-C service by measuring ASF values throughout the coverage area.

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Some techniques have been developed for special situations.

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Computed adjustments are returned to the individual transmitter sites where they are used for clock synchronization. It is generally accepted that only course and speed determine the DR position. BASELINES AND COVERAGE An imaginary line drawn between the Master and each secondary station is called the baseline.

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The basic element for time generation is a quartz crystal oscillator. The most commonly used method up to now is to measure the time difference between Loran-C signals received from a master and a secondary at a fixed location in the coverage area.

Navigation

More than two dozen GPS satellites are in , transmitting signals allowing GPS receivers to determine the receiver's , speed and direction.

Loran

All locations with a given latitude are collectively referred to as a.

Loran

Latitude is usually expressed in marked with ° ranging from 0° at the to 90° at the North and South poles. The ground wave range of LORAN C is about 1200 miles, and one hop sky wave range is about 2300 miles. These areas include:

- Remote and extensive land areas not served by reliable International Civil Aviation Organization ICAO surface-based Navigational Aids NAVAID , and
- Extensive overwater areas beyond the service volume of surface-based navigation facilities.

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