

Loran Gen-1
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From: Commandant, U. S. Coast Guard
To : Hydrographer, U. S. Navy Department

U. S. COAST GUARD

MAR 20 1952

Subj: New Hawaiian Loran Chain; charting of

Refs: (a) Hydro ltr dtd 3-6-51, Code 30-mr (4.110), Serial 592
(b) Comdt USCG ltr dtd 2-6-50, OAN 601, 633

OPERATIONS-SHORE UNIT

1. This letter brings up to date the charting arrangements for the New Hawaiian Loran Chain. It will be recalled that the Coast Guard first asked the Hydrographic Office to chart the new Chain in February, 1950, and it was agreed that every effort would be made to distribute the new editions by 1 February, 1951, the expected date of operation. They were prepared by that date, but shortly thereafter the Hydrographic Office was asked not to distribute them until further notice, with the understanding that the new Chain might not begin operations until as late as March, 1952.

2. The delay in commissioning the new Chain has occurred because of the necessity of keeping the old station at French Frigate Shoals in operation to provide coverage in the direction of Midway Island for the military air movements in support of the Korean War. For over a year the Coast Guard has been waiting for an opportunity to discontinue that station and change to the new Chain and charts. However, it now appears that this plan cannot be carried out in the foreseeable future. Therefore, the Coast Guard plans to continue and improve the facilities at French Frigate Shoals, but to move the present station at East Island to Tern Island, about 7 miles away. The Tern Island Station will be ready for operation about 15 October, 1952, and at that time, it is planned to change over the new Hawaiian Chain.

3. When the new Hawaiian Chain is placed in operation, the following rate structure will be used, with coding delays of 1,000 microseconds at all slave stations:

- Ilio Point (Master) to Upolo Point 2L6
- Ilio Point (Master) to Makahuena Point 2L5
- Tern Island (Master) to Makahuena Point 2L4

4. It is requested that the Hydrographic Office undertake the computations and charting work incident to these changes. The antenna coordinates for the new stations at Makahuena Point, Kauai, Ilio Point,

2177/s

Commandant, USCG to
Hydrographer, USN

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Molokai, and Upolo Point, Hawaii, were forwarded in reference (b). The antenna at Tern Island will be located in Latitude $23^{\circ} 51' 59.02''$ N., Longitude $166^{\circ} 17' 17.14''$ W. This position was scaled from the plotted position of the proposed antenna on 14th Naval District drawing "Naval Air Facilities, French Frigate Shoals; condition as of 2 December, 1943 - #PNAB-N22-101, sheet 1/1, 26 January, 1944." On that drawing the proposed location can be determined from the locations of Triangle Tern No. 2, Latitude $23^{\circ} 51' 56.58''$ N., Longitude $166^{\circ} 17' 28.90''$ W and Triangle Badar Tower, Latitude $23^{\circ} 52' 05.24''$ N., Longitude $166^{\circ} 17' 12.68''$ W. The Coast Guard does not know how the coordinates of the two triangles were originally determined or how accurate they are.

R. J. MAUEFMAN
By direction

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