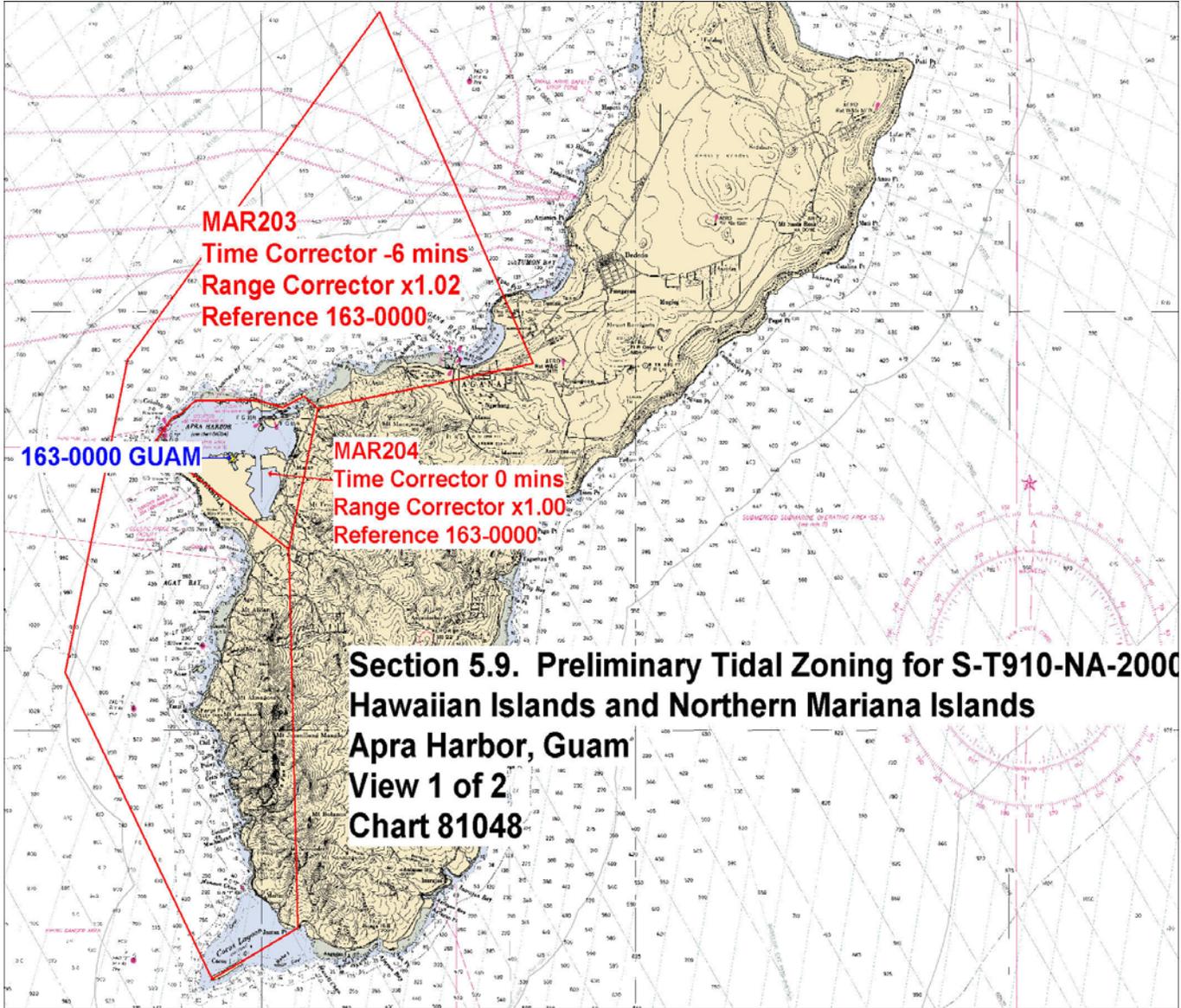
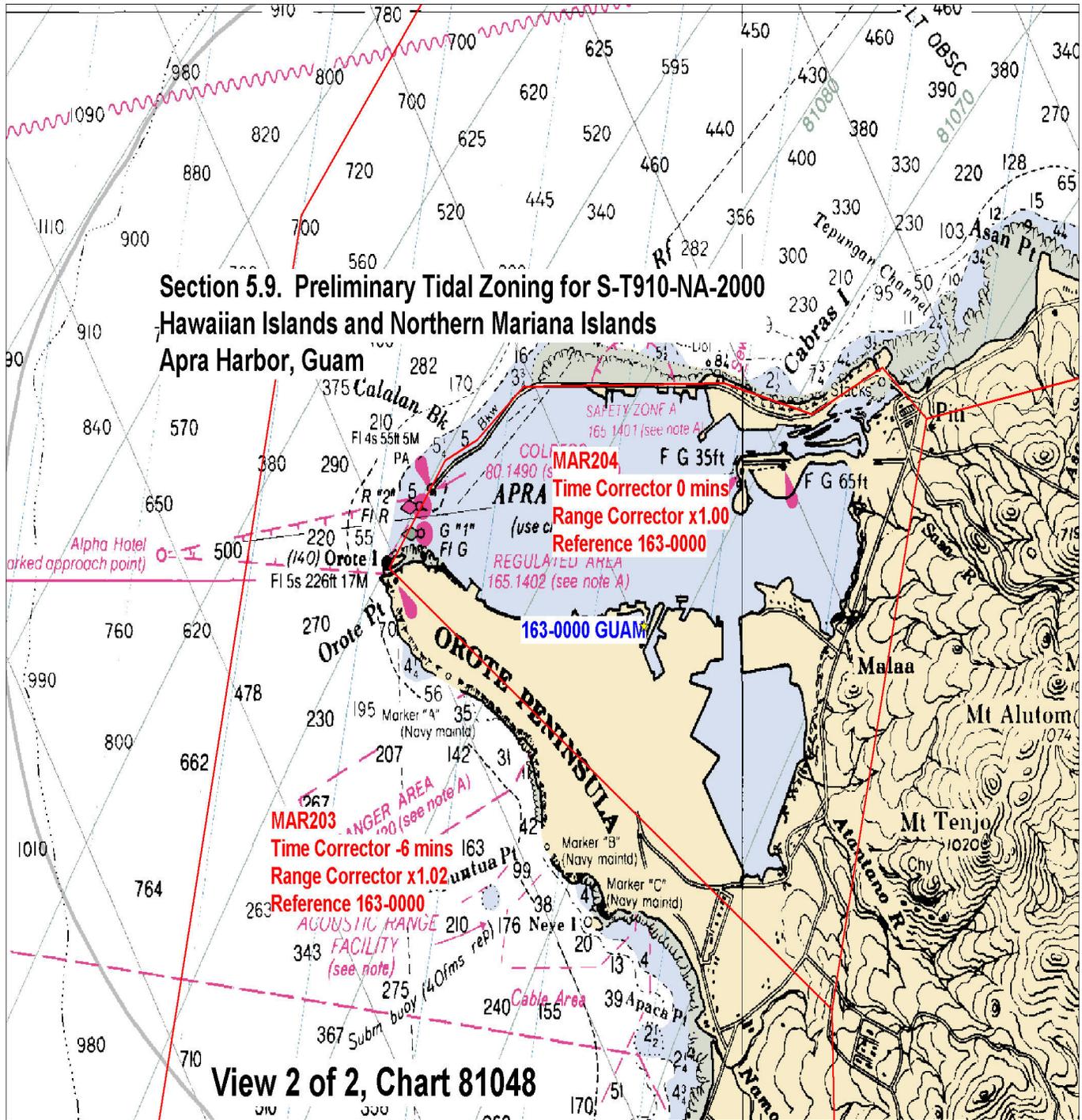


APPENXIX B

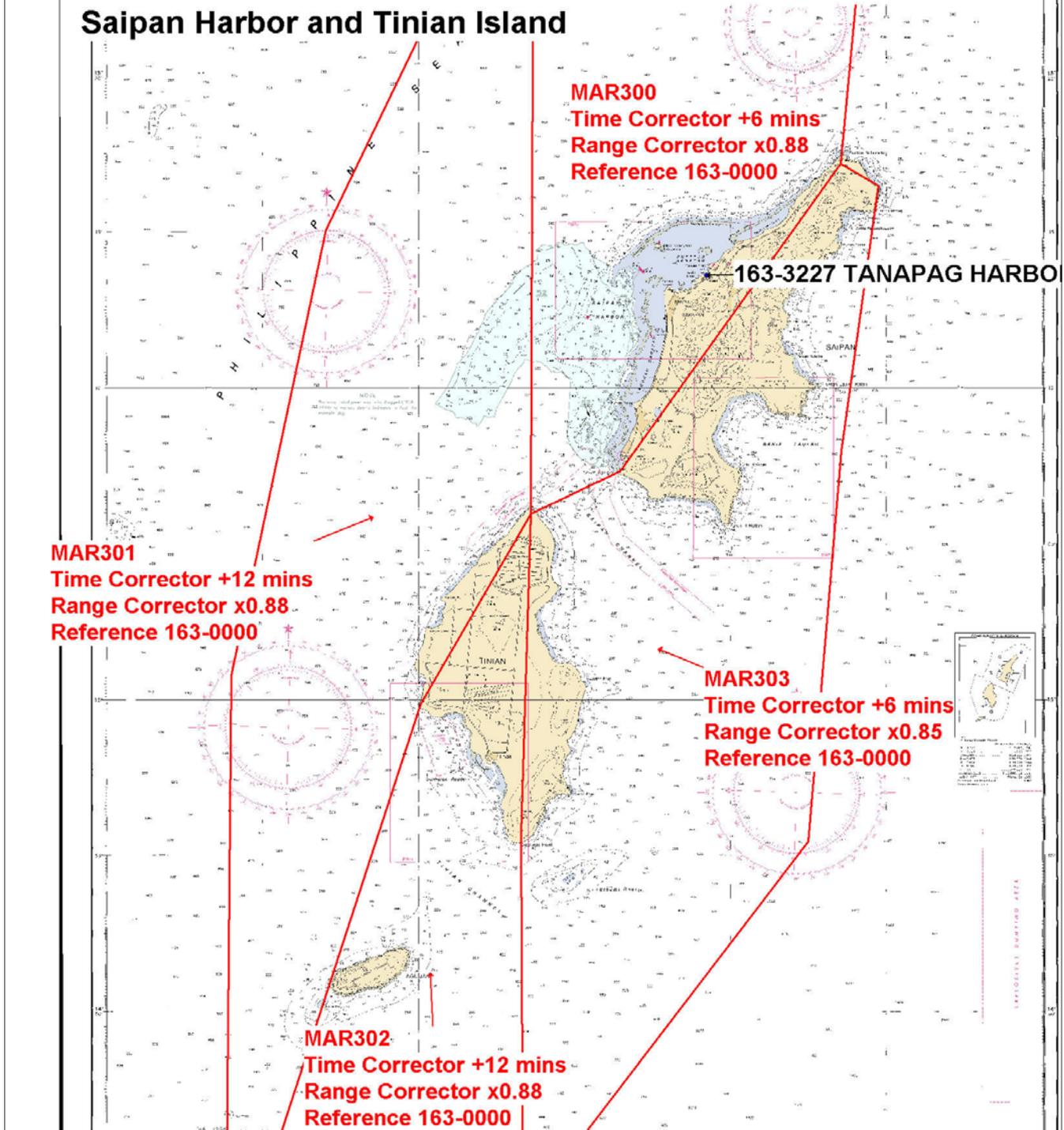
GUAM, SAIPAN, TINIAN, FDM TIDE ZONES



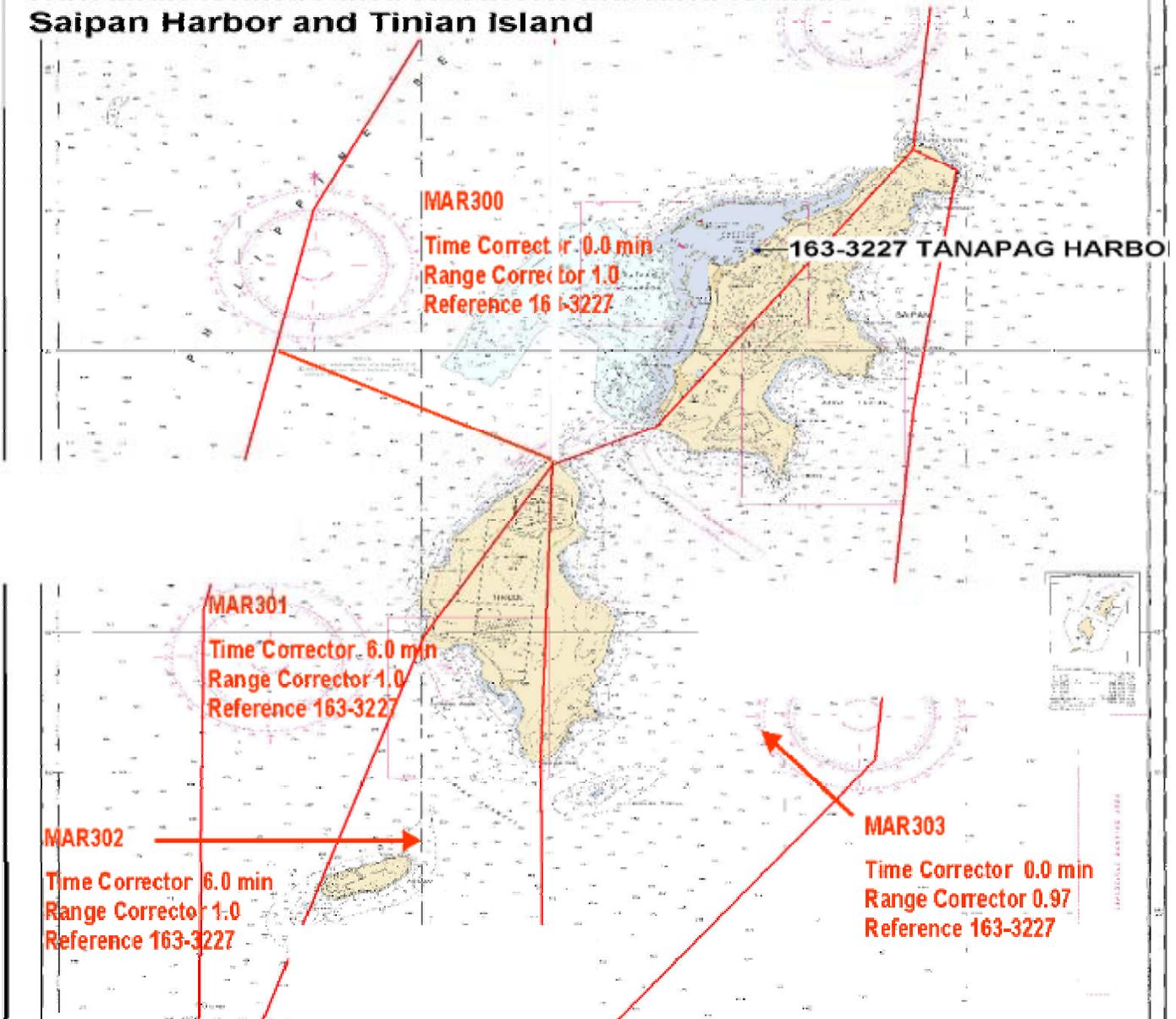
**Section 5.9. Preliminary Tidal Zoning for S-T910-NA-2000
Hawaiian Islands and Northern Mariana Islands
Apra Harbor, Guam**



Section 5.9. Preliminary Tidal Zoning for S-T910-NA-2000 Hawaiian Islands and Northern Mariana Islands Saipan Harbor and Tinian Island



**Section 5.9. Preliminary Tidal Zoning for S-T910-NA-2000
Hawaiian Islands and Northern Mariana Islands
Saipan Harbor and Tinian Island**



The tide zone around Saipan and Tinian were modified as shown here. It was felt that using the Saipan tide gauge (163-3227) would better represent the local tide regime than a reference gauge at Apra Harbor Guam (163-0000). Details can be found in the ROS text, section 6.4, Final Tide Zoning.

Section 5.9. Preliminary Tidal Zoning for S-T910-NA-2000
Hawaiian Islands and Northern Mariana Islands
Farallon de Medinilla

15 20.0 N

15 00.0 N

15 00.0 N

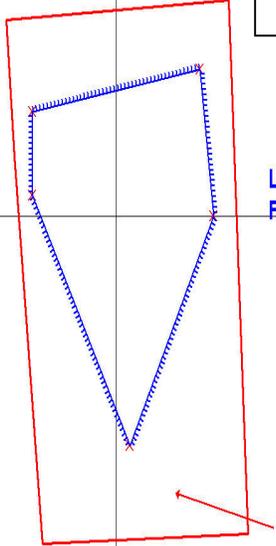
145 00.0 E

146 00.0 E

148 20.0 E

148 00.0 E

MAR400
Time Correction 0.0 min
Range Corrector x0.93
Reference 163-3227



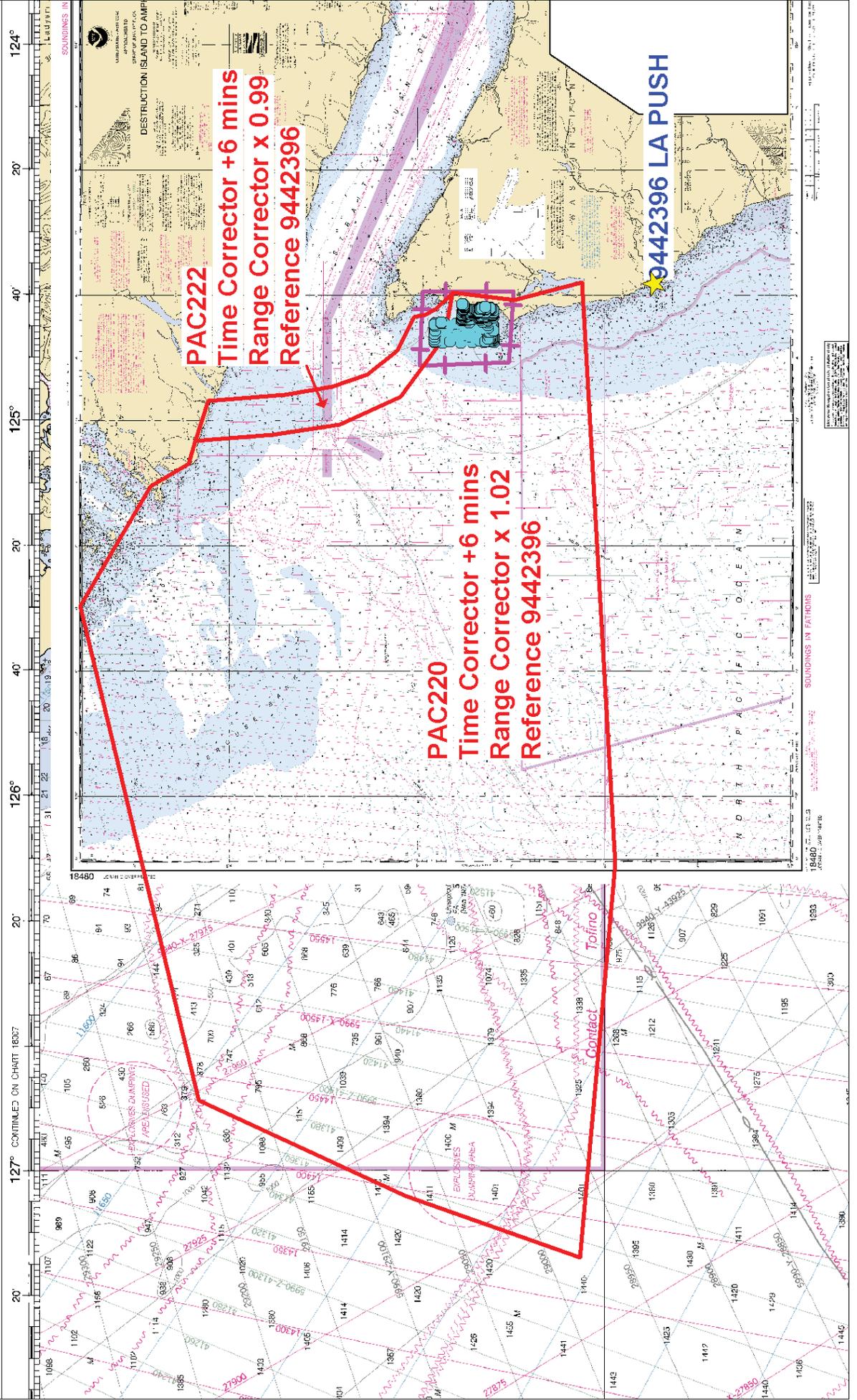
Limits for
Farallon De Medinilla

use chart 81005

Preliminary As Final Tidal Zoning for OPR-N324-FA-2010, H12219 Point of Arches, OCNMS, WA

Re-navigated on: The National
Admiral's Instruments for
(NCSB), National Ocean

Feature: CAGS 0022, Is. Et., May 0419, G 104E 729, KAPP-151



Tide corrections:

Tides were obtained from NOAA tide gauge, 1633227 (Tanapag Harbor, Saipan). Verified tides from the NOAA CO-OPS website were applied to all survey data. E-mail communication with Scott Ebrite of NAVO stated that all data were corrected for tidal zoning.¹³ The NOAA CO-OPS provided zoning was modified by NAVO personnel. See section **C.2** of this report for more specifics concerning the modification of tide zones. NAVO personnel assessed the error associated with tidal measurements to be 0.025, and the error for co-tidal corrections to be 0.35 meters. The NOS Hydrographic Survey Specifications and Deliverables Manual section 5.4.5 states that the maximum allowable error for Tide/water level error to be 0.45 meters. The Evaluator agrees with the NAVO assessment and the tidal data and zoning meet these requirements.