

DATE: 07/08/85

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Marine Center: Pacific

OPR: L100

Hydrographic Sheet: H-10171

Locality: Santa Barbara Channel, Vicinity of Point Conception, CA

Time Period: April 13 - May 14, 1985

Tide Station Used: 941-1270 Rincon Island, CA

Plane of Reference (Mean Lower Low Water): 4.10 ft.

Height of Mean High Water Above Plane of Reference: 4.7 ft.

Remarks: Recommended Zoning:

- 1) Apply +15 minute time correction and x0.94 range ratio to all heights


Chief, Tidal Datums Section

Field Tide Note
OPR-L100-FA-84,85
Southern California

Los Angeles (Outer Harbor) served as the reference station for the predicted tides used as correctors on the supplemental field work for survey H-10165 and survey H-10171 as stated in the project instructions, OPR-L100-FA-84,85. The following tidal zone correctors were applied to the predicted tides from Los Angeles (Outer Harbor), as required by Section 5.9 of the Project Instructions:

Time Correctors:

High Water: +0 Hours 38 Minutes
Low Water: +0 Hours 36 Minutes

Height Ratio:

0.94 x predicted tide from table = predicted tide for project area

These correctors were included in the tide package provided by N/OMS 121 at the beginning of the project. The controlling tide gauge was Rincon Island, California (station number 941-1270). Leveling and periodic maintenance of the primary gauge at Rincon Island are performed by Coast Survey Limited.

Predicted tide correctors were interpolated aboard FAIRWEATHER, using data from the 1985 West Coast Tide Tables and program AM 500 (Predicted Tide Generator), dated 10 November 1972.

All times of predicted and reported tides (from gauges) are expressed in Universal Coordinated Time (UTC). Predicted tides were acceptable for hydrography with no discrepancies in the data attributable to tide errors.

A back-up gauge (station number 941-1270B) was installed at the site of the primary gauge on Rincon Island (Lat. 32 20.9'N, Long. 119 26.6'W), for the purpose of providing controlling tidal data in case the primary gauge malfunctioned. This gauge was a Bristol Bubbler analog tide gauge (S/N 67A 40288) with a range of 0 to 20 feet. It was installed on April 8, 1985 (JD 98) and removed on May 5, 1985 (JD 121). The gauge was secured to the wooden dock across the road from the primary gauge, just above the existing tide staff. The orifice used was installed on October 4, 1984, and examined by divers on April 8, 1985 prior to it's being connected to the gauge. The orifice was secured to the bottom of the existing staff and, for this reason, no levels were run.