

8. TIDE CORRECTORS

Predicted tide correctors were applied on-line by HDAPS to all soundings that were acquired with the DSF 6000N, except as noted in the Field Tide Note, Separate B. All echo sounding data plotted on the final field sheet were plotted with predicted tide correctors.

The tidal datum for the project was mean lower low water. The operating tide station at Sandy Hook, New Jersey (853-1680), served as control for datum determination. Third-order levels were run from the tide staff to five bench marks on 6 September, 1988. No secondary tide stations were established. Closing levels were run on November 28, 1988.

Predicted tides were calculated using Sandy Hook, New Jersey, as the reference station. The time and height correctors were given in the Project Instructions, section 5.9, for the project area (a -30 minute time correction, and a 0.94 range ratio, north of latitude 40-10.0 N). Because the transition line was in the middle of the sheet, only the north correctors were used. Correctors south of latitude 40-10.0 N should be applied at the Pacific Marine Center. The predicted tide tables have Mean Low Water, rather than Mean Lower Low Water, listed as the tidal datum in the 1988 edition.

Smooth tides were requested from Chief, Sea and Lake Levels Branch, N/OMA12, in a letter dated 16 December, 1988. A copy of the letter is included in Separate L. The Field Tide Note is also included in Separate B.

Predicted tides were misapplied on day 313 (tape 31310), tide table 7 was applied to positions 1403 through 1777 instead of tide table 6. This discrepancy should be corrected when smooth tides are applied.

Discrepancy corrected.