G5. Tide Corrections

The tidal datum for this field examination was Mean Lower Low Water. The tide station at New London was the reference station for the survey. No tide stations were established by the HECK in support of this survey.

All hydrographic depths have been corrected for predicted tides using the zoning correctors specified in the project instructions. Tidal correctors were applied online by entering the appropriate values into an HDAPS predicted tide table.

HECK personnel used zero correctors for the AWOIS item 7277 (DOY 123), the proper zone correctors should have been Zone X. Zone X was also used for item 7521. Zone II was used for items 1858, 7472, and 7475. Item 2627 was direct and all other items used Zone III. Approved tides and zoning correctors were applied during office processing.

H. CONTROL STATIONS

The horizontal datum for this project is the North American Datum of 1983 (NAD 83). All stations used were existing control recovered by HECK personnel. All coordinates were taken from NGS Geodetic Control Data. No new stations were established, however, two eccentrics (Montauk Point Lighthouse Ecc and Watch Hill Lighthouse Ecc) were computed using approved methods. A list of the horizontal control stations and the control work associated with calculating the eccentrics can be found in Appendix III, LIST OF HORIZONTAL CONTROL STATIONS.

I. HYDROGRAPHIC POSITION CONTROL

Vessel survey navigation was accomplished using multiple LOPs, utilizing Motorola MINI-RANGER Falcon 484 system shore stations. Control station positions were entered into the HDAPS Control Station Tables. (See APPENDIX III, LIST OF HORIZONTAL CONTROL STATIONS). The appropriate MINI-RANGER codes were attached to the station number on this table. Each time the survey navigation configuration was altered, the control station and C-O tables were modified to reflected the correct MINI-RANGER code placement/Baseline Corrector values.

The following control equipment was used during this survey:

<table>
<thead>
<tr>
<th>RPU</th>
<th>S/N - H-0375</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT</td>
<td>S/N - 2921</td>
</tr>
</tbody>
</table>

A baseline calibration was performed for this field examination. The baseline calibration was performed on February 21, 1990 (DOY 052).

No significant position control problems were encountered during this survey.