

Tidal datum for project OPR-K220-WH was mean lower low water. The operating tide stations at Corpus Christi, Texas, (877-5870) and Port Isabel, Texas, (877-9770) were used as control for datum determination. Verbal contact was made with Mr. Larry Nieson of the Atlantic Operations Group (N/OMA1213), and he confirmed that the stations were working properly during the period of survey operations. There were no leveling requirements for this project. The reference for predicted tides was Galveston, Texas. The

* DATA FILED WITH FIELD RECORDS.

following time and height correctors were entered into the HDAPS tide tables and applied during acquisition or post processing:

Time Correctors		Height
<u>High Water</u>	<u>Low Water</u>	<u>Corrector</u>
-1 hr 30 min	-1 hr 30 min	x1.28

Contours of the preliminary sounding plots revealed discrepancies in the depths between adjacent survey lines. In all cases where discrepancies occurred, adjacent lines were surveyed days and in some cases weeks apart. On some lines where rejected data had been rerun on a later date, the sounding overlap also revealed sounding discrepancies. One of these discrepancies, on B-north at latitude $27^{\circ}49'41''N$ longitude $96^{\circ}56'55''W$, equaled 0.8 meters. All the corrector tables were verified and no obvious problems were identified.

We suspect the long distance from the reference station and more significantly the steady winds typical for this area affected the near-shore tidal height. The contours should be smoother after application of real time tides. APPROVED TIDES APPLIED DURING OFFICE PROCESSING.

One possible problem may arise in the application of real time tides. The tide gauge at Corpus Christi is at the head of the bay. Corpus Christi Bay has a barrier island to break the wind and has restricted openings which retard the movement of water. The local weather may affect the tides at the head of the bay differently than it does the coastal tides.