



iv. SYSTEM CALIBRATION

The delays inherent in the SYLEDIS chain were determined by operating the beacons and mobile units over a surveyed distance and comparing the SYLEDIS calculated values to the known length of the calibration range for each mobile/beacon combination.

For vessel positioning the SYLEDIS system delays for each base station were corrected for by the CMS III, however all data recorded on magnetic tape was uncorrected.

The navigation was proven by calculating three-way fixes in the survey area prior to the survey commencement. On the 19 November the base line between stations Charmouth Hill and Hardwicks Hill was crossed during a line change the results of which are tabled below.

Charmouth Hill / Hardwicks Hill SYLEDIS Baseline Crossing

Calculated distance	31335.25 m.
SYLEDIS observed distance	31331.35 m.
Delta	3.90 m.