

4. SURVEY METHODS AND PROCEDURES (Cont'd)4.3 Satellite-Acoustic Positioning System (Cont'd)4.3.2 Installation and Calibration (Cont'd)

The absolute calibration of the transponder array commenced at 1430 hours on 21st November, with the vessel again steaming throughout the array, but this time collecting simultaneous ranges from the acoustic transponders and the ARGO surface navigation system at 8 station points. A least squares computation was again carried out for each station and the geodetic coordinates for each transponder determined with relation to the ARGO. From this calibration the coordinates for the transponders were found to be as follows:

<u>S/No</u>	<u>Code</u>	<u>Easting</u>	<u>Northing</u> (A.M.G. co-ords)
540	12	403 682.51	5 534 684.76
650	15	404 877.03	5 533 068.03
551	9	402 887.03	5 534 086.46
587	4	404 081.12	5 532 464.59
552	14	402 077.98	5 533 486.58
530	1	403 269.40	5 531 870.98

A second calibration was carried out on 29th November 1985, following the completion of the rig move to Koorkah No. 1, using the Magnavox MX 1107 Satellite Receiver. Simultaneous satellite and acoustic data was recorded at a total of 51 stations with 19 stations being accepted for least squares processing. The results of the second calibration are as follows: