



The CTD survey then started at 15:26, going round stations 10, 35, 2 – 9, 12 – 27, 30-34 (see Figure 1, showing track and CTD locations) and Table 3. At station 10 the wireless network was tested (connection between the ship and Hilbre Island). Connection was made, however the signal strength was low. Water samples were obtained from near surface and near bed bottles for nutrient analysis by David Hydes at SOC (Note: Only 58 samples taken due to lack of plastic bottles) and for suspended sediment determination. The Temperatures ranged between 14.2 and 16.8°C and salinities between 31.4 to 33.8. Surface sampling and the ship mounted ADCP were switched off at 14:19 on 21 July, near Puffin Island and RV Prince Madog was alongside at Menai Bridge at 15:16.

All the cruise objectives were accomplished (except for two CTD's which were not carried out due to time constraints) since conditions were good and the sea was relatively calm throughout (winds ranged between 6-19 m s⁻¹, S, SW, SE).

4. Moorings (times in GMT)

4.1 The set up of the recovered instruments was as follows:

a) Mean ADCP 600 kHz RDI 2390; battery case 3036.

Mode 1: 100 pings every 10 minutes (velocity standard deviation 0.007 m s⁻¹).

35 x 1 m bins (2.65 – 36.65 m above the bed).

Beam co-ordinates - speeds, correlation, echo intensity, % good.

Sound velocity calculated from temperature, depth and salinity of 32.

Fitted with a pressure sensor and 1 Gbyte memory; hourly wave recording enabled.

Clock reset at 13:47:00 on 8 June 2004, delayed start 06:00:00 on 9 June.

The ADCP was stopped at 00:07:56 on 21 July 2004.