



**LOIS RACS(C) Core Programme**  
**Sea Vigil SV 26**  
**Cruise Report**  
**23rd-27th October 1995**

**Personnel:**

Duncan Plummer (PML/LOIS Hull)	Senior Scientist
Bek Bellerby (PML)	
Neil Hudson (PML)	
Pepe Alvarez-Salgado (PML)	
Helen Rouse (U of Hull)	
Jack Hardisty (U of Hull)	
Nick Hughes (U of Hull)	

**Monday 23rd:** The scientific party traveled to Hull and between 1645 and 1845 equipment was loaded on board the vessel and commissioned for the work on Tuesday and Wednesday

**Tuesday 24th:** Downstream survey

The party mustered at 0630 and the *Sea Vigil* locked out of Hull Marina at 0750. The downstream survey started at station 17 (0819) and continued seawards to station 30 (1116). The survey continued westwards passing station 17 (1405, Hull) and ended at station 6 (1529, Goole).

Stations sampled 17-36, 19-6. The survey measured nutrients (TON, phosphate, silicate and ammonium), conductivity, temperature, turbidity, pH and DO. Discrete samples were collected for gravimetric, C/N, chlorophyll and DOC analysis.

The *Sea Vigil* was off Goole at 1645 and locked into the Docks at 1730 and was along side the at 1745. The scientific party disembarked at 1815.

**Wednesday 25th:** Upstream survey

The party mustered on board at 0430 and *Sea Vigil* departed Goole Docks at 0510. The upstream survey commenced at station 5 (Goole Rail Bridge at 0545) and continued to station 40 (Selby at 0715) The transect returned downstream and ended off Brough at 1045. Stations sampled 5-1, 38-40, 40-38, 1-11. Between 1045 and 1620 when the *Sea Vigil* was aground standards and blanks were run on the autoanalyser.

The survey measurements were as the work on Tuesday.

At 1840 the *Sea Vigil* entered Hull Marina and all samples and equipment was unloaded by 1845. At 1905 the vessel left the Marina bound for Grimsby. The *Sea Vigil* entered Grimsby Fish Docks at 2040 and was made fast at the berth at 2100.

**Thursday 26th:** Humber Flux Curtain

Programme canceled due to inclement weather.

**Friday 27th:** Contingency Day. (Humber Flux Curtain)

Programme canceled due to inclement weather.

**Notes:** Inclement weather had a deleterious affect on the programme. The downstream survey on Tuesday had to be extended upstream to Goole (not Hull) to avoid the forecasted bad weather for the mid-estuary early Wednesday morning. The survey on Wednesday could thus begin upstream at Goole. At the end of the week the weather conditions were such that no work was possible at the mouth of the Humber. As a result the work at the flux curtain was canceled on Thursday and again on Friday (the contingency day).

The flexibility and understanding of all participants is acknowledged. We thank Peter Sarjeant, Tim Rhodes and Alistair Davis (NRA) for their help during a difficult week.