



**LOIS RACS(C) Core Programme
Sea Vigil SV 19
Cruise Report
13th-18th March 1995**

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Monday 13th: The scientific party was onboard at 0530 and passage was made from Hull Marina at 0600. At 0830 *Sea Vigil* anchored at the chosen site, West Hawke Lightfloat (53 34.4 N 00 05.3 E). The bed rig was deployed at 1100 profiling was undertaken until 1310. The rig measured conductivity, temperature, turbidity and depth with concomitant recordings of current velocities. The surface waters were monitored using the NRAs system. At 1325 the anchor was recovered and passage made to Hull. *Sea Vigil* entered Hull Marina at 1600 and the party from the University of Hull departed at 1630. Between 1630 and 1945 the nutrient analyser was commissioned for use the following day.

Tuesday 14th: The scientific party was on board at 0600 and until 0700 when the vessel departed Hull Marina standards and blanks were run on the nutrient analyser. The survey commenced at station 16 at 0749 and continued eastwards to station 30 (Spurn Head) at 1117. The westwards survey passed through all stations to Hull and finished at 1357 (station 17). (Stations sampled 17-37,19-17). *Sea Vigil* locked into Hull Marina at 1415 and was along side at 1430. The party departed at 1515.

The profile measured conductivity, temperature, turbidity, pH, dissolved oxygen *etc.* Discrete samples were collected for gravimetric, C/N and chlorophyll analysis.

Wednesday 15th: The scientific party was on board at 0200 and until 0310 when the vessel departed Hull Marina standards and blanks were run on the nutrient analyser The survey was from Hull at 0328 (station 16) to Selby (station 40) at 0703 passing stations 16-1 and 38-40. The survey was repeated downstream starting at station 40 at 0710 and completed at station 16 (Hull) at 1040. The *Sea Vigil* locked into Hull Marina at 1415 and was along side at 1430. (Stations sampled 16-1, 38-40, 40-38,1-5)

The profile measured conductivity, temperature, turbidity, pH, dissolved oxygen *etc.* Discrete samples were collected for gravimetric, C/N and chlorophyll analysis.

Between 1800 and 2000 PML equipment was loaded in for the work on Thursday and Friday.

Thursday 16th: The scientific party was onboard at 0500 and passage was made from Hull Marina at 0515. At 0610 *Sea Vigil* anchored at the chosen site, Barton Ness Sands. The Instruments were deployed at 0640 profiling was undertaken until 1855. The measurements were made of conductivity, temperature, turbidity and depth with concomitant recordings of current velocities. Particle size was determined *in situ*. Discrete samples were collected for gravimetric analysis The surface waters were monitored using the NRAs system. At 1925 the anchor was recovered and passage made to Hull. *Sea Vigil* entered Hull Marina at 2000.

Friday 17th: The scientific party was onboard at 0430 and passage was made from Hull Marina at 0445. At 0600 *Sea Vigil* anchored at Whitton High Sand but due to insufficient water depth repositioned off Whitton at 0700. The Instruments were deployed at 0716 profiling was undertaken until 1840. The measurements were made of conductivity, temperature, turbidity and depth with concomitant recordings of current velocities. Particle size was determined *in situ*. Discrete samples were collected for gravimetric analysis The surface waters were monitored using the NRAs system. At

1925 the anchor was recovered and passage made to Hull. *Sea Vigil* entered Hull Marina at 2030. The vessel was along side at 2055 and PML equipment was unloaded at 2200.

Notes: This, the fifteenth, LOIS RACS(C) week on the *Sea Vigil* was successful and all the objectives were met. Inclement weather however made the work uncomfortable on Friday. The help of Keith Warner, Tim Rhodes and Peter Sarjeant (NRA *Sea Vigil*) is gratefully acknowledged.

Duncan Plummer

21st March 1995