

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS.  
 CEFAS LOWESTOFT LABORATORY, LOWESTOFT, SUFFOLK,  
 ENGLAND.**

**2009 RESEARCH VESSEL, PROGRAMME**

**PROGRAMME: RV ENDEAVOUR; CRUISE 10A AND C / 09**

**STAFF:**

<b>Part A</b>	<b>Part C</b>
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Andy Smith (Ecotoxicologist)	Verity Nye (Benthic ecologist)
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David Stephens (GIS)	
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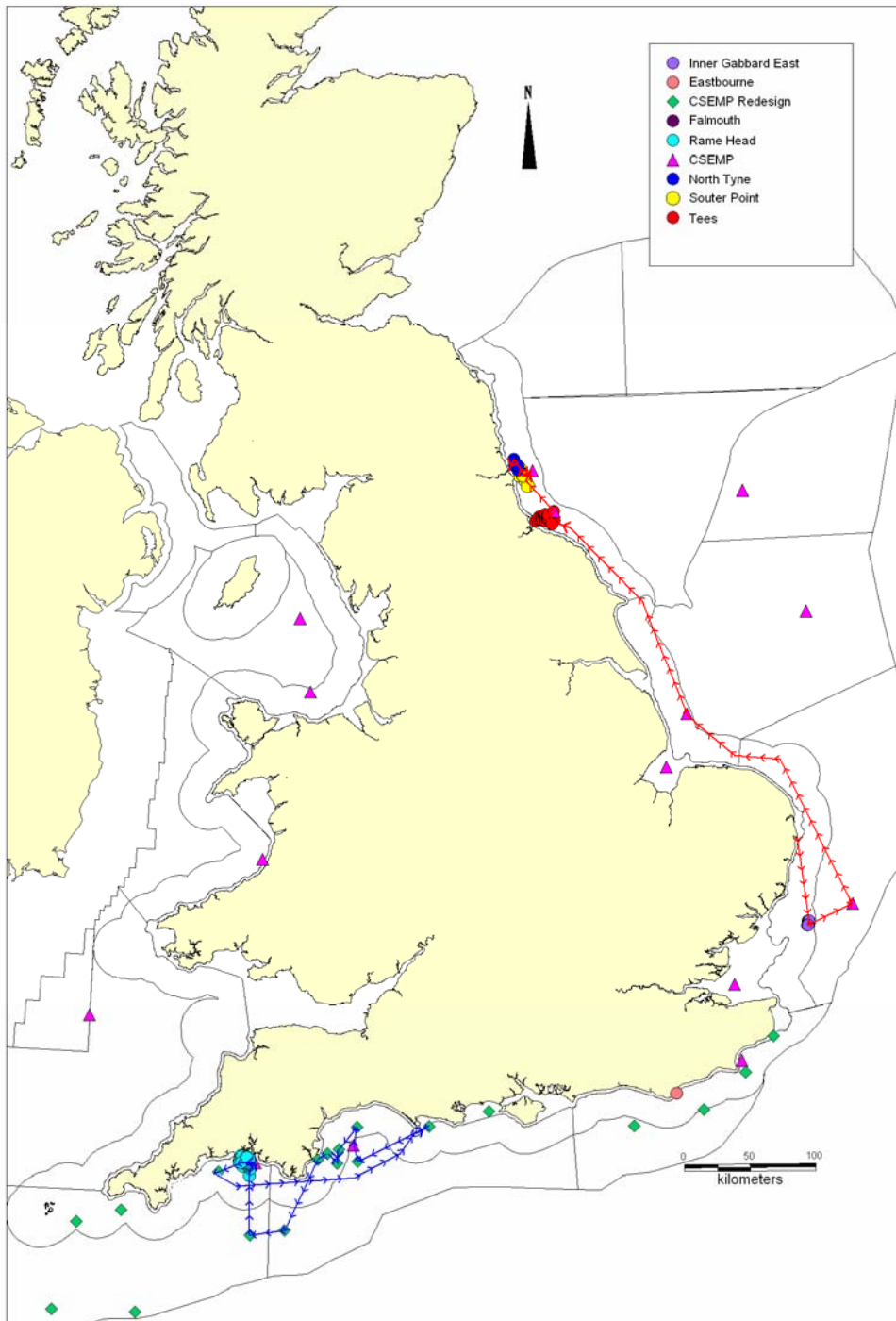
**DURATION:** Part A 16<sup>th</sup> June – 21<sup>st</sup> June  
 Part B 21<sup>st</sup> June – 10<sup>th</sup> July  
 Part C 11<sup>th</sup> July – 16<sup>th</sup> July

**LOCATION:** Part A North Sea.  
 Part C Western Channel

**AIMS:**

1. To survey dredged material disposal sites at Inner Gabbard, Tees, Souter Point, North Tyne and Rame Head (Plymouth) for benthos, trace metal and organic contaminants in sediments, using grabbing and coring. At a number of sites various acoustic methods will also be used.
2. To sample representative NMMP locations using grabbing, coring, and trawl methods. Samples will be later analysed for trace metal and organic contaminants, litter and epi-, macro- and meio- fauna.
3. To sample sediments and water at various stations in the Eastern and Western Channel regions for later analysis of macro- and meio- fauna, metals, chlorophyll a, porosity, organic contaminants, nutrients and salinity. This survey forms part of the NMMP redesign program (CSEMP).

# CRUISE PLAN



### **Part A**

After departing Lowestoft (03:00 16/06/09) *CEFAS Endeavour* will transit down to the Thames to carry out a multibeam/sidescan and Hamon grab survey at the Inner Gabbard East disposal site (Aim 1). On completion of this survey *CEFAS Endeavour* will transit north collecting samples from CSEMP stations 475 and 376 (Aim 2). *CEFAS Endeavour* will then proceed north where a number of surveys will be carried out in the Tyne area at which point a small boat transfer will be required to allow two German engineers to disembark at the most convenient port. The surveys in this area include dredge disposal sites at the Tees, Souter point and North Tyne (Aim 1) During these surveys NMMP stations (245 and 295) (Aim 2) will be collected. Following the completion of the surveys at the dredge disposal sites *CEFAS Endeavour* will dock in Hartlepool on the 21/06/09.

### **Part B**

During the fishing part of this cruise several benthic NMMP Stations (285, 345, 386, 466, 484, 655, 715, 805,) (Aim 2) will be collected during transit to and from fishing stations. Opportune sampling of CSEMP (Aim 3) stations within the vicinity of fishing stations in the Eastern and Western Channel will also be investigated. There is also the possibility of conducting a multibeam survey of *Modiolus* beds in the vicinity of Anglesey (To be confirmed).

### **Part C**

*CEFAS Endeavour* will leave Portland on the 11th July and begin work on the CSEMP redesign stations (Aim 3) on route to Rame Head (Plymouth) dredged material disposal site (Aim 1). During transits the remaining CSEMP redesign stations (Aim 3) will be collected. On completion the remaining CSEMP redesign stations *CEFAS Endeavour* will dock in Portland no later than 16/07/09.