

**CENTRE FOR ENVIRONMENT, FISHERIES & AQUACULTURE SCIENCE  
LOWESTOFT LABORATORY, LOWESTOFT, SUFFOLK, ENGLAND**

**2007 RESEARCH VESSEL PROGRAMME**

PROGRAMME: RV CEFAS ENDEAVOUR: SURVEY 18/07

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DURATION: 27 September - 04 October

LOCALITY: North Sea (English NE Coast)

**AIMS:**

1. To conduct a standard underwater TV survey of *Nephrops* burrow densities on the Farn Deep grounds, 55° 35' - 54° 45' N and 1° 30' - 0° 40' W, and to evaluate *Nephrops* abundance for comparison with previous years.
2. To collect concurrent video data, using a second camera, which will be directly comparable with that collected from other *Nephrops* grounds.
3. To characterise sediment features at and between TV survey stations using a remote acoustic seabed discrimination system (swathe bathymetry and QTC).
4. To trial the deployment of a lander for the remote collection of static video observations and environmental data.

**PLAN:**

CEFAS ENDEAVOUR will sail on 27 September and will return to Lowestoft on 04 October. Video data will be collected from cameras mounted on a towed sledge. 105 stations will be visited (80 priority 1 stations; 8 priority 2 stations and 17 priority 3 stations) with the aim of recording a clear 10 minute continuous video transect of the sea bed at each (Figure 1). Provisional counts will be made of *Nephrops* burrow systems live at each station. The video will be reanalysed and the counts confirmed at sea.

JON ELSON  
(Scientist-in-Charge)  
10 August 2007

INITIALLED: JTA

**DISTRIBUTION:**

Basic list + J.M.ELSON                      A.R.LAWLER                      S.R.LOVEWELL  
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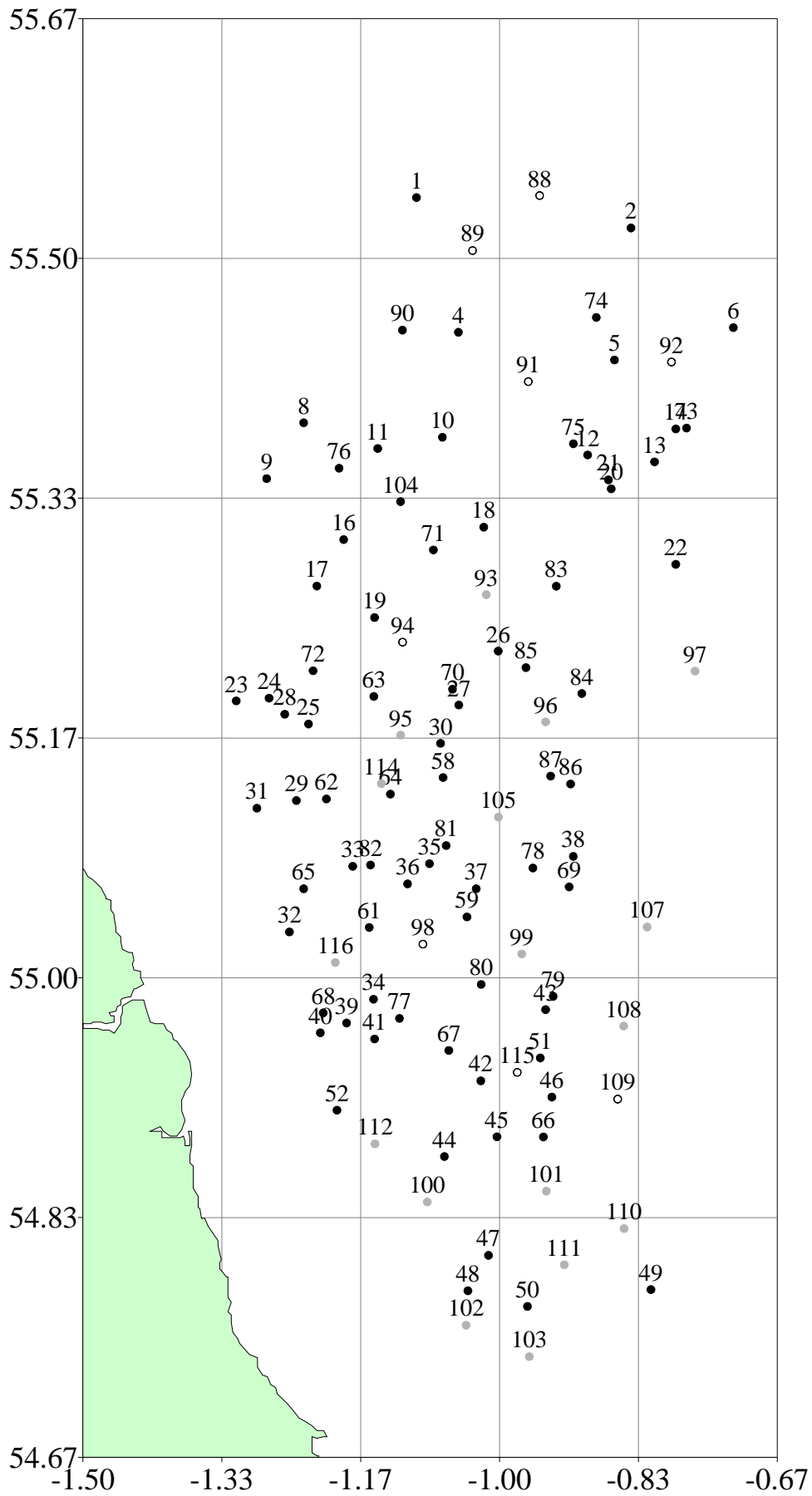


Figure 1. Station positions for sledge tows.