NOTIFICATION OF PROPOSED RESEARCH CRUISE

Part B – Details

1. Name of Research Ship: Scotia  Cruise no: 0905S

2. Date of Cruise
   From: 28/6/2005  To: 18/7/2005

3. a) Purpose of Research
    To conduct an acoustic survey to estimate the abundance and distribution of herring in
    the north western North Sea and north of Scotland

   b) General Operational Methods (including full description of any fish gear,
      trawl type, mesh size, etc).
      Collect acoustic survey data with 18, 38,120 200 kHz echosounders to estimate the
      abundance and distribution of herring in the north western North Sea and north of
      Scotland
      To obtain echosounder trace identification using pelagic trawl. PT 160 trawl with 20mm
      mesh codend.
      To obtain samples of herring for biological analysis, including age, length, weight, sex,
      maturity and ichthyophonous infection
      To obtain photographic records for fish maturity analysis.
      To obtain hydrographic data for comparison with the horizontal and vertical distribution
      of herring.
      To obtain plankton & micronekton samples for acoustic identification work.

4. Attach Chart showing (on an appropriate scale) the geographical area of
   intended work, positions of intended stations, tracks of survey lines, positions
   of moored/seabed equipment, areas to be fished.

   The shaded area will be surveyed with
   a systematic survey track and opportunistic
   trawling with no predefined stations
   Sampling will occur anywhere within the
   area navigation and safety permitting.
   The area is bounded by:-
   58N and 62N
   4W and 2E