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CHARTER VESSEL AORA

REPORT

3-7 August 1989

Personnel

A Baird SO
A Matthews (Mrs) ASO
E MacDonald (Miss) Student

Objectives

- 1. To investigate the metabolic rates of phytoplankton size classes, zooplankton and micronekton at predetermined sites in Loch Linnhe and the Firth of Lorne.
- 2. To obtain hydrographic data at sampling sites.
- 3. To obtain nutrient, CHN and photosynthetic pigment samples at sampling sites.

Narrative

Scientific staff travelled to Millport on 2 August. D Baird and A Matthews joined Aora on 3 August and set up equipment during passage to Dunstaffnage. E MacDonald drove the official car to Dunstaffnage, to enable the unloading of the vessel in Dunstaffnage/Oban at end of trip. The vessel operated an 11 hr working day except when making passage to and from Dunstaffnage and on 5 August when the vessel worked 15 hours. The vessel was unloaded and scientific staff disembarked by 0900 hr on 7 August in Oban.

Between 4-6 August one site was visited each day. At each a hydrographic study was made and samples taken for nutrient, CHN and pigment analysis; primary production measurements using the 14C uptake method (size fractionated after incubation) were also carried out and ammonia excretion rates were measured on replicate samples of at least 2 species of copepod. Copepod egg production was measured by 24 hour incubations at the sites visited on 4th and 5th (sites 1 and 2).

All sites visited had been sampled during the Calanus charter in June. Results will be used in conjunction with those obtained on Clupea during 1-11 August, and Calanus during 5-18 June.

D Baird

31 August 1989

Sites visited during "AORA" cruise August 1989.

