

Not to be cited without prior reference to the FRS Marine Laboratory, Aberdeen

FRV *Scotia*

Cruise 0807S

Programme

30 May - 3 June 2007

Personnel

David Bruno (SIC)
Alistair McIntosh
Patricia Noguera
Alison McIntosh
Campbell Pert
Stuart Wallace
Mhairi Smith
Gillian Packer
Margaret McKenzie
Linda Leith
Katy A Urquart
Sarah Barker (Visitor from Stirling University)

Fishing Gear

BT 101 (48' Aberdeen trawl) with tickler chain and small mesh cod end.

Objectives

Conduct an annual fish disease monitoring survey at Moray Firth, Fair Isle, Bell Rock, Marr Bank, Montrose Bank, Wee Bankie, St Abbs using standard ICES protocols for external fish diseases of haddock and dab (i.e. lymphocystis, ulcers, X cell, hyperpigmentation, fat cell necrosis and epidermal hyperplasia). Collect dab liver samples a fix for light microscopy (30 per station, 20-24cm group). A histological examination of the tissues will be carried out in the laboratory. Carry out an internal examination of >25cm dab for indication of liver neoplasia. Disease prevalence data will be prepared and a report submitted to ICES on return to FRS.

Collect tissues from common dab for mixed function oxidase activity and PAH bile metabolites in line with current monitoring programme. Additional hauls and grab samples are planned at the East Buzzard control site, subject to available time.

Sample tissue from dragonet, *Callionymus lyra* in connection with joint histopathology study with Cefas.

Conduct survey of external diseases of whiting (*Merlangius merlangus*) for potential monitoring including epidermal hyperplasia, *Lernaeocera branchialis*, *Diclidophora merlangi* and *Clavella adunca*.

Sample gills, liver and muscle from female control and hyperpigmented dab (stages 1-3; 20-24cm group) at all stations for laboratory analysis including virus culture, histopathology and bacteriology.

Carry out bacteriology sampling from cod to examine for presence of *Francisella*.

Prepare images of parasites from the examination and dissection of gadoids and other fish species.

Procedure

Scotia will work in the Moray Firth, east Orkney, Bell Rock, Buzzard field, Marr Bank, Wee Bankie and St Abbs areas obtaining fish samples by trawling. The cruise will start and terminate in Aberdeen. Permission to take a liquid nitrogen container on board will be submitted.

Normal contact will be maintained with the Laboratory.

Days per project: 3 days AE11a; 2 days AE08o

J A Morrison
23 May 2007