

R17/15

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

FRV *Scotia*

Cruise 0608S

Programme

29 May-2 June 2008

Personnel

David Bruno (SIC)
Alistair McIntosh
Patricia Noguera
Anna Turnbull
Alison McIntosh
Campbell Pert
Stuart Wallace
Gillian Packer
Margaret McKenzie
Rocio Moreno

Fishing Gear

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

Objectives

To 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). To 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. To carry out an internal examination of >25cm dab for indication of liver neoplasia. Disease prevalence data will be prepared and data submitted to MERMAN on return to FRS.

To collect tissues from common dab for mixed function oxidase activity and PAH bile metabolites in line with current monitoring programme. An additional haul and grab samples (15) are planned at the East Buzzard control site.

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

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

To collect 10-15 whiting and dissect gall bladders into 100% ethanol.

To collect samples of *Lereonocera branchialis*. 10-20 specimens each from haddock, whiting and cod and store in 100% ethanol.

To collect and freeze a selection of squid, sprats, sand eels and prawns for aquarium fish feed.

Procedure

Scotia will work in the Moray Firth, east Orkney, Bell Rock, Buzzard field, Marr Bank, Wee Bankie, Montrose Bank 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.

Expected Out turn days per project: 3 days AE11a; 2 days AE08o

J A Morrison
2 May 2008