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INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION

UNITED KINGDOM RESEARCH VESSELS
CRUISE PROGRAMMES
1981

Compiled by the Natural Environment
Research Council with the assistance
of Government Departments and Uni-
versities owning programmed vessels

SC-81/IS/50

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INTRODUCTION

This booklet of the United Kingdom Research Vessel Cruise Programmes is produced annually for the information of the Inter-governmental Oceanographic Commission and the International Council for the Exploration of the Sea at their request. It might also be of interest and use to scientists wishing to know the nature of the research being carried out and the areas in which ships will be operating.

The cruise programmes are not only those of the research vessels of the Natural Environment Research Council, but also of vessels of a number of Government Departments and universities which provide the necessary information.

For further information about any of these cruises, please contact the organisation concerned.

**Sir Hermann Bondi KCB FRS
(Chairman to Council)**

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Swindon
SN2 1EU
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RESEARCH SHIPS AND CRUISE PROGRAMMES FINANCED BY THE NATURAL ENVIRONMENT RESEARCH COUNCIL

RRS Bransfield
RV Calanus
RRS Challenger
RRS Discovery
RV Frederick Russell
RL Gammarus
RRS John Biscoe

RRS John Murray
RV Sarsia
RV Seol Mara
RL Sepia
RRS Shackleton
RV Squilla

**ORGANISATIONS WHICH HAVE
PROVIDED CRUISE PROGRAMME
INFORMATION**

Natural Environment Research
Council
Polaris House
North Star Avenue
Swindon
Wiltshire SN2 1EU

* British Antarctic Survey
Madingley Road
Cambridge CB3 0ET

** Marine Biological Association of
the UK
The Laboratory
Citadel Hill
Plymouth PL1 2PB

** Scottish Marine Biological
Association
Dunstaffnage Marine Research
Laboratory
PO Box 3
Oban
Argyll
Scotland PA34 4AD

Ministry of Defence
The Hydrographer of the Navy
Old War Office Building
Whitehall
London SW1A 2EU

Ministry of Agriculture, Fisheries &
Food
Directorate of Fisheries Research
Fisheries Laboratory
Lowestoft
Suffolk NR33 0HT

Department of Agriculture &
Fisheries for Scotland
Marine Laboratory
PO Box 101
Victoria Road
Aberdeen AB9 8DB

Meteorological Office
Met 01a
Headquarters Annexe
Eastern Road
Bracknell
Berkshire RG12 2UR

The University College of Swansea
Department of Oceanography
Singleton Park
Swansea
West Glamorgan SA2 8PP

The University of Liverpool
Department of Marine Biology
Port Erin
Isle of Man
U.K.

The University College of North
Wales
Department of Marine Biology
Marine Science Laboratories
Menai Bridge
Gwynedd LL59 5EH

The University College of Wales
Department of Geology
Llandinam Building
Plenglais
Aberystwyth
Dyfed SY23 3DB

* An Institute of the Natural Environment Research Council

** Grant aided by the Natural Environment Research Council

CLASSIFICATION OF SCIENTIFIC PROGRAMMES

- (Ab)** Biological aphotic zone studies (biological studies in water deeper than several hundred metres)
- ASi** Air-Sea interaction
- (Bs)** Benthos sampling
- (Cm)** Current measurements (by direct methods, such as GEK, current meters, drogues, Swallow floats, etc.)
- (Do)** Descriptive oceanography (measurements of temperature, salinity and other dissolved substances, required for computation of geostrophic currents and description of water properties)
- (Fr)** Fisheries research (exploratory fishing, bionomics sampling, selectivity, gear experiments, tagging, etc.)
- (Gg)** Geology and geophysics (coring, dredging, seismic studies, heat flow, gravimetric, magnetic measurements, etc.)
- (Mars/Phys)** Marine Physiology and Biochemistry
- (Mt)** Meteorology (upper air observations, meteorological research - surface weather observations included under "Do")
- (Ps)** Planktonic studies (phyto- and zooplankton research, including fish eggs and larvae, standing crop and primary production, associated measurements or observations mainly in the biological euphotic zone)
- (Ra)** Radioactivity, radiochemistry
- (Si)** Sea level observations

DECLARED NATIONAL PROGRAMME: (DNP)

A DNP is "a list of oceanographic cruises or projects either planned or already completed, for which the contributing nation declares its intention to make resulting data internationally available. The publication of these lists implies an obligation to make the resulting DNP data available for exchange in accordance with the provisions of the IOC Manual on International Oceanographic Data Exchange".

ABBREVIATIONS AND ACRONYMS

BACO	British Aluminium Company
BAS	British Antarctic Survey
CSP	Continual Seismic Programme
ICES	International Council for the Exploration of the Sea
IGS	Institute of Geological Sciences
IMER	Institute for Marine Environmental Research
IOS	Institute of Oceanographic Sciences
MBA	Marine Biological Association of the United Kingdom
NERC	Natural Environment Research Council
OWS	Ocean Weather Ship
RL	Research Launch
RRS	Royal Research Ship
RV	Research Vessel
SMBA	Scottish Marine Biological Association

RRS BRANSFIELD (Natural Environment Research Council)

Diesel Electric Ice Strengthened: 4815 Gross Tons: Length O.A. 99.2m (325ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Oct '80-May '81	Antarctic	Support of Antarctic Research Programme, British Antarctic Survey
Oct '81-May '82	Antarctic	Support of Antarctic Research Programme, British Antarctic Survey

RRS CHALLENGER (Natural Environment Research Council)

Ocean Research Ship: 988.39 Gross Tons: Length O.A. 54.8m (180ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
23 Jan-4 Feb	Rockall Channel	Biology, SMBA Dr J Gordon (Ab,Fr)
12 Feb-26 Feb	Scottish Continental Margin	Geology, University College London Dr E J Jones (Gg)
3 Mar-18 Mar	Bay of Biscay	Sediment Transport, Bristol University Dr D Hamilton (Gg)
23 Mar-1 Apr	Celtic Sea	Geology, Aberystwyth University Dr R Whittington (Gg)
6 Apr-25 Apr	Rockall Channel	Physics, Benthic, SMBA Dr D J Ellett, Dr J Gage (Do,ds)
28 Apr-13 May	Rockall/Porcupine Sea Bight	Biology, SMBA Dr J Gordon (Ab,Fr)
18 May-1 Jun	Porcupine Sea Bight	Biology, IOS Wormley Dr A L Rice (Bs)
2 Jun-15 Jun	Maintenance	—
16 Jun-1 Jul	W & N Scottish Continental Shelf	Biology, IOS Wormley Dr J Wilson (Mars/Phys)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
4 Jul-16 Jul	W Scottish Continental Shelf	Physics, SMBA Dr D J Ellett (Cm, Do)
21 Jul-4 Aug	Porcupine Bank	Benthic, Grant Institute Edinburgh Dr T P Scoffin (Gg)
7 Aug-22 Aug	Rockall Trough	Biology, SMBA Dr P Barnett, Dr J Gage (Bs)
25 Aug-9 Sept	N Atlantic/ Celtic Sea	Biology, Chemistry, IMER Mr R Williams (Bs,Do,Mars/Phys)
14 Sept-2 Oct	Porcupine Sea Bight	Biology, IOS/Aberdeen University Dr A Rice, Dr A MacDonald (Bs)
6 Oct-21 Oct	Rockall Trough	Physics, IOS Wormley Dr W J Gould (Do)
25 Oct-9 Nov	Rockall/Scottish Continental Shelf	Physics, Benthic, SMBA Dr D J Ellett, Dr W J Gould Dr J Gage (Do,Cm)
10 Nov '81- Jan '82	Refit/Leave Period	—

RRS DISCOVERY (Natural Environment Research Council)

Ocean Research Ship: 2665 Gross Tons: Length O.A. 79.6m (261ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific programme and Classification</i>
6 Jan-16 Jan	N E Atlantic	Instrument Trials, IOS Dr B S McCartney (Cm,Gg)
19 Jan-12 Feb	N E Atlantic	Physics, IOS Dr P M Saunders (Do,Bs)
15 Feb-3 Apr	N E Atlantic	Geophysics, IOS Dr T J Francis (Gg)
7 Apr-5 May	N E Atlantic	Physics (Mesoscale Expt), IOS Dr J Gould (Do,Cm)
8 May-1 Jun	N E Atlantic	Biology (Mesoscale Expt), IOS Dr M Fasham (Mars/Phys.Ps)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
4 Jun-26 Jun	N E Atlantic	Physics (Mesoscale Expt), IOS Dr M Angel (Do,Cm)
30 Jun-27 Jul	N E Atlantic	Physics (Mesoscale Expt), IOS Dr J Gould (Do,Cm)
5 Aug-9 Sept	Norwegian Sea	Geology, IOS Dr J Wilson (Gg)
10 Sept-19 Nov	Refit	—
20 Nov- 3-10 Dec	N Atlantic	Instrument Trials, IOS Dr S Rusby (Gg,Cm)
4-11 Dec '81- 3 Jan '82	Refit	—

RRS JOHN BISCOE (Natural Environment Research Council)
 Diesel - Ice Strengthened: 1554 Gross Tons: Length O.A. 67m (220ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Sept '80- Apr '81	Antarctic	Support of Antarctic Research Programme, British Antarctic Survey
Sept '81- Apr '82	Antarctic	Support of Antarctic Research Programme, British Antarctic Survey

RRS JOHN MURRAY (Natural Environment Research Council)
 Continental Shelf Research Vessel: 441 Gross Tons: Length O.A. 40.6m
 (133ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
27 Nov '80- 25 Jan '81	Refit/Leave Period	—
26 Jan-6 Feb	Bristol Channel	Monitoring Programme, IMER Dr P Burkill (Cm,Do,Mars/Phys)
7 Feb-15 Mar	Lay up	—

Cruise Dates	Cruise Area	Scientific Programme and Classification
16 Mar-27 Mar	Celtic Sea/Bristol Channel	Physics, Chemistry, IMER Mr R Williams, Mr M Jordan (Cm, Do)
31 Mar-9 Apr	English Channel	Physics, Southampton University Dr I Robinson (Do)
14 Apr-27 Apr	Irish Sea	Physics, Liverpool University Prof K Bowden (Do, Cm)
1 May-23 May	North Sea	Physics, IOS Bidston Dr D Pugh (Do, Cm)
27 May-10 Jun	North Sea	Geology, City of London Poly Dr B D'Olier (Gg)
13 Jun-26 Jun	North Sea	Physics, IOS Bidston Dr D Pugh (Do, Cm)
29 Jun-11 Jul	North Sea	Geology, Cambridge University Dr D Matthews (Gg)
15 Jul-20 Jul	Celtic Sea/Bristol Channel	Physics, Chemistry, IMER Mr M Jordan (Cm, Do)
24 Jul-7 Aug	Irish Sea	Physics, Liverpool University Prof K Bowden (Do, Cm)
12 Aug-27 Aug	Hebridean Shelf	Geology, Aberystwyth University Dr M Dobson, Dr R Whittington (Gg)
2 Sept-14 Sept	Celtic Sea/Bristol Channel	Physics, Chemistry, IMER Mr M Jordan (Bs, Mars/Phys)
18 Sept-2 Oct	SW Approaches	Geology, Bristol University Dr D Hamilton (Gg)
8 Oct-28 Oct	SW Approaches	Geology, IGS Mr J Miller (Gg)
3 Nov-5 Nov	Bristol Channel	Physics, Chemistry, IMER Mr M Jordan (Bs, Mars/Phys)
10 Nov-'81 – 6 Jan '82	Lay up/Leave period	—

RRS SHACKLETON (Natural Environment Research Council)
 Ocean Research Ship: 1102 Gross Tons: Length O.A. 61m (200ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
15 Apr-20 May	Refit	—
22 May-1 Oct	North Sea	Geophysics, IGS Dr R McQuillin (Gg)
15 Oct-21 Oct	Passage to Tenerife	—
23 Oct-16 Nov	S of Canaries	Physics, Liverpool University Dr P Hughes (Cm,Do)
19 Nov-5 Dec	Mediterranean/ Balearic Basin	Geology, Cambridge University Dr K Loudon (Gg)
7 Dec-22 Dec	Tyrrhenian Sea	Geology, Cambridge University Dr K Loudon (Gg)
29 Dec '81- 22 Jan '82	N W Aegean Sea	Geology, University College of Wales Prof M Brooks, Dr M Collins

RL GAMMARUS (Marine Biological Association of the United Kingdom)
 Inshore Research Launch: 8 Gross Tons: Length O.A. 10.4m (34ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Day to Day research and trawling requirements throughout the year	English Channel within 20 miles of Plymouth and river estuaries	Dredging, Trawling, Water Samples, Plankton, Diving, Shore Collecting (Ps,Do,Gg)

RV SARSIA (Marine Biological Association of the United Kingdom)
General Purpose Biological Research Vessel: 319 Gross Tons: Length O.A. 39m (128ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
9 Mar-13 Mar	Start Bay	Current structure/Plankton Sampling, MBA Dr R D Pingree (Cm, Do, Ps)
16 Mar-20 Mar	—	To be determined
23 Mar-27 Mar	Channel Grid	Plankton/Chemical Sampling, MBA Dr G T Boalch (Do, Ps)
30 Mar-3 Apr	—	To be determined
6 Apr-10 Apr	English Channel	Current structure/Plankton Sampling, MBA Dr R D Pingree (Cm, Do, Ps)
13 Apr-16 Apr	Channel Island	Chemical Sampling, MBA Mr E I Butler (Do)
21 Apr-24 Apr	SW Ireland	Current structure, IOS/MBA Dr R D Pingree (Cm, Do, Ps)
27 Apr-8 May	English Channel	Benthos studies, MBA Dr N Holme (Bs)
11 May-22 May	W Approaches	Plankton/Chemical Sampling, MBA Dr P Holligan, Dr H P Hains (Do, Ps)
25 May-29 May	English Channel	Fish Sampling, MBA Mr G Forster (Ab, Fr)

RV FREDERICK RUSSELL (Marine Biological Association of the United Kingdom)

General Purpose Research Ship: Length O.A. 43.5m (143ft)
 At present undergoing conversion, delivery expected May 1981

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
6 Jul-17 Jul	Celtic Sea/ N Bay of Biscay	Benthic/Plankton Sampling, MBA Dr A Southward (Ab, Ps)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
20 Jul-31 Jul	W Approaches/ Celtic Sea	Plankton Sampling, MBA Dr P Holligan (Cm,Do,Ps)
1 Aug-16 Aug	Maintenance	—
17 Aug-4 Sept	North Sea and Kattegat	Current Structure, Plankton Sampling, MBA Dr R D Pingree (Cm,Do,Ps)
7 Sept-11 Sept	English Channel	Chemical Sampling, MBA/Liverpool University Mr E I Butler (Do)
14 Sept-25 Sept	English Channel	Cephalopod Sampling, Long Line Fishing, MBA Dr N Holme (Ab,Fr)
28 Sept-2 Oct	Channel Grid	Plankton/Chemical Sampling, MBA Dr G Boalch (Do,Ps)
6 Oct-22 Oct	Start Bay/Solent Area	Sediment Transfer, IOS Dr Soulsby (Gg)
26 Oct-6 Nov	Bay of Biscay	Current Structure, MBA Dr M Clarke (Ps)
9 Nov-18 Nov	Celtic Sea	Benthos Sampling, MBA Dr A Southward (Bs)
23 Nov-27 Nov	English Channel	Current Structure, MBA Dr R D Pingree (Ps)
30 Nov-18 Dec	English Channel	Squid Fishing Prof Denton (Fr)

RL SEPIA (Marine Biological Association of the United Kingdom)
Inshore Research launch: 20 Gross Tons: Length O.A. 12.5m (41ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Day to day trawling requirements throughout the year	English Channel within 50 miles of Plymouth	Dredging, Trawling, Water Samples, Plankton, (Ps,Do,Gg)

RV SQUILLA (Marine Biological Association of the United Kingdom)
 Inshore Biological Research Vessel: 73 Gross Tons: Length O.A. 19.6m (64ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Day to day trawling requirements. Short periods of instrument trials and current meter recovery and deployment	English Channel within 50 miles of Plymouth	Dredging, Trawling, Water Samples, Plankton, Current Structure (Ps,Do.Gg)

RV CALANUS (Scottish Marine Biological Association)
 Stern Trawler: 60 Gross Tons: Length O.A. 20m (65ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Flexible programme throughout the year	W Coast of Scotland and Clyde Sea Area	Bottom and Mid-water Trawling. Plankton Water Sampling. Dredging. Grab Work. Instrument Trials (Bs.Do.Fr.Ps)

RV SEOL MARA (Scottish Marine Biological Association)
 Inshore Research Vessel: 10.73 Gross Tons: Length O.A. 11.27m (37ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Day to day sampling	W Coast of Scotland	Dredging, Plankton. Water Sampling. Grab Work. Diving (Bs.Do.Ps)

Royal Navy, Hydrographic Department
 Ocean Surveying Ships: 2898 Gross Tons: Length O.A. 79.1m (260ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
HMS HYDRA Jan '81-July '81	NW Approaches to UK	Hydrographic Surveys

Cruise Dates *Cruise Area* *Scientific Programme and Classification*
Coastal Surveying Vessels: Displacement 1148 Tons: Length O.A. 58m (190ft)

HMS BEAGLE

All year Irish Sea Hydrographic Surveys

HMS BULLDOG

May '81-Dec '81 S North Sea Hydrographic Surveys

HMS FAWN

All year Irish Sea Hydrographic Surveys

HMS FOX

All year SW Approaches
to UK Hydrographic Surveys

Inshore Survey Craft: Displacement 160 Tons: Length O.A. 32.6m (107ft)

HMS ECHO, EGERIA, ENTERPRISE

Feb '81-Nov '81 Thames Estuary Hydrographic Surveys
Dover Straits/
East Anglian Coast

RV CIROLANA (Ministry of Agriculture, Fisheries and Food)

Fisheries Research Stern Trawler: 1731.5 Gross Tons: Length O.A. 72m (237ft)

Cruise Dates *Cruise Area* *Scientific Programme and Classification*

5 Jan-19 Jan North Sea Plaice Spawning
Dr F R Harden-Jones (Fr)

28 Jan-17 Feb North Sea 1-Group Fish Survey
Mr T Williams (Fr)

26 Feb-18 Mar W Ireland Mackerel, Genetic Tag Studies
Mr J P Bridger (Fr)

30 Mar-24 Apr E Atlantic Deep Sea Disposal
Mr J W Ramster (Ab,Gg)

6 May-26 May W Approaches Scad and Mackerel
Dr S J Lockwood (Fr)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
3 Jun-30 Jun	E Atlantic	Deep Sea Disposal Dr R R Dickson (Ab,Gg)
8 Jul-6 Aug	Barents Sea	Radioactivity Surveys Mr D F Jefferies (Ra)
10 Aug-23 Aug	Annual Leave	—
26 Aug-22 Sept	North Sea	Groundfish Survey, Radioactivity Surveys Mr L Birkett (Fr,Ra)
8 Oct-11 Nov	E Atlantic	Deep Sea Disposal Dr P A Gurbutt (Ab,Gg)
23 Nov-18 Dec	W Approaches	O-Group Scad and Mackerel Dr S J Lockwood (Fr)

RV CLIONE (Ministry of Agriculture, Fisheries and Food)
Fisheries Research Side Trawler: 495 Gross Tons: Length O.A. 17m (154ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
6 Jan-19 Jan	North Sea	Plaice Spawning Dr M Greer-Walker (Fr)
30 Jan-10 Feb	English Channel/ S Bight	Herring Larvae Mr R J Wood (Fr,Ps)
20 Feb-12 Mar	North Sea	Pre-recruit Gadoid Tagging Mr W G Parnell (Fr)
20 Mar-2 Apr	North Sea	Dumping Survey Dr M S Rolfe (Cm,Do,Mars/Phys)
10 Apr-23 Apr	North Sea	Hydrocarbons Mr R J Law (Do)
29 Apr-12 May	English Channel	Groundfish and Sole Egg Survey Mr R G Houghton (Fr,Ps)
20 May-31 May	North Sea (with RV Corella)	Plaice Summer Feeding Behaviour Dr F R Harden-Jones (Fr)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
9 Jun-26 Jun	North Sea/ Channel	Young Gadoid Pre-recruit Studies Mr J D Riley (Fr)
3 Jul-23 Jul	North Sea	PT1 Boomer-Scanner Experiment Dr M Greer-Walker (Fr) PT2 Salmon Tracking Dr M Greer-Walker (Fr)
27 Jul-9 Aug	Annual Leave	—
12 Aug-26 Aug	North Sea (with RV Corella)	Herring Distribution Mr R B Mitson (Fr)
3 Sept-21 Sept	Start Bay	Plaice Orientation Dr G P Arnold (Fr)
28 Sept-18 Oct	Irish Sea	Young Gadoid Survey Mr K M Brander (Fr)
26 Oct-8 Nov	Irish Sea	Dumping Survey Dr M S Rolfe (Cm.Do.Mars/Phys)
16 Nov-20 Nov	North Sea	Collection of Live Fish Mr P Scholes (Fr)
2 Dec-15 Dec	North Sea	Tyne-Tees Survey Mr A R Folkard

RV CORELLA (Ministry of Agriculture, Fisheries and Food)

Fisheries Research Stern Trawler: 459 Gross Tons: Length O.A. 40.4m (133ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
6 Jan-19 Jan	North Sea	Plaice Spawning Mr G P Arnold (Fr)
27 Jan-10 Feb	North Sea	ICES Sprat-Acoustic Survey Dr P O Johnson (Fr)
17 Feb-28 Feb	North Sea	Tyne-Tees Dumping Survey Mr A R Folkard (Do)
6 Mar-20 Mar	Irish Sea	Radioactivity Surveys Mr A K Steele (Ra)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
31 Mar-15 Apr	North Sea	Trawl Trials Mr J P Bridger (Fr)
23 Apr-13 May	Irish Sea	Nephrops Stock Survey Mr P J Warren (Fr)
20 May-31 May	North Sea (with RV Clione)	Plaice Summer Feeding Behaviour Mr P Scholes (Fr)
12 Jun-27 Jun	North Sea	ICES O-Group Gadoid Survey Mr W G Parnell (Fr)
7 Jul-22 Jul	North Sea	O-Group Gadoid Survey Mr D J Symonds (Fr)
27 Jul-9 Aug	Annual Leave	—
12 Aug-26 Aug	North Sea (with RV Clione)	Herring Distribution Mr R J Wood (Fr)
2 Sept-21 Sept	Channel/ Irish Sea	Scallop Survey Mr A Franklin (Fr)
28 Sept-14 Oct	North Sea	Herring Larvae Mr J P Bridger (Fr,Ps)
21 Oct-10 Nov	North Sea	Nephrops Dr E Edwards (Fr)
17 Nov-24 Nov	North Sea	Gear Testing Mr B J Robinson (Fr)
1 Dec-15 Dec	North Sea	ICES Sprat-Acoustic Survey Dr P O Johnson

RV NUCELLA (Ministry of Agriculture, Fisheries and Food)
Inshore Fisheries Research Vessel: 22 Gross Tons: Length O.A. 14m (46ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
October '81	North Sea	Herring Tagging Mr R J Wood (Fr)

RV G A REAY (Ministry of Agriculture, Fisheries and Food)
Fisheries Research Stern Trawler: 999 Gross Tons: Length O.A. 69m (227ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
6 Jan-19 Jan	North Sea/ Shetland	White Fish Processing Mr P Howgate (Fr)
26 Jan-16 Feb	W Scotland/ Ireland	Blue Whiting Processing Dr K J Whittle (Fr)
23 Feb-4 Mar	SW Channel	Scad Processing Mr J G M Smith (Fr)
11 Mar-30 Mar	N North Sea	Norway Pout Dr M G Pawson (Fr)
6 Apr-20 Apr	St Kilda	Blue Whiting Processing Mr K W Young (Fr)
27 Apr-6 May	English Channel/ SW Ireland	Scad Processing Mr J G M Smith (Fr)
14 May-27 May	North Sea/ Shetland	White Fish Processing Mr P Howgate (Fr)
3 Jun-17 Jun	W Scotland	Grenadiers, Blue Ling Processing Dr K J Whittle (Fr)
24 Jun-8 Jul	N North Sea	Norway Pout Mr C T Macer (Fr)
15 Jul-29 Jul	SW Ireland/ Biscay	Scad Processing Mr J G M Smith (Fr)
3 Aug-14 Aug	Refit	—
18 Aug-3 Sept	Rockall	Fish Survey Mr B W Jones (Fr)
9 Sept-23 Sept	North Sea/ Shetland	White Fish Processing Mr P Howgate (Fr)
1 Oct-20 Oct	Faeroes, Norwegian Sea	Blue Whiting Processing Dr K J Whittle (Fr)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
28 Oct-17 Nov	N North Sea	Norway Pout Dr M G Pawson (Fr)
25 Nov-7 Dec	English Channel	Scad Processing Mr J G M Smith (Fr)
14 Dec-18 Dec	North Sea	Station Supplies

RV TELLINA (Ministry of Agriculture, Fisheries and Food)
Inshore Fisheries Research Side Trawler: 46.4 Gross Tons: Length O.A. 16.7m (55ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
1 Apr-28 Apr	North Sea/ English Channel	Groundfish Survey PT.1 Mr P D Wallace PT.2 Mr I L Davies (Fr)
July '81	North Sea	O-Group Herring Survey Mr T W Boon (Fr)
1 Sept-28 Sept	North Sea	O-Group Flatfish PT.1 Mr R S Millner PT.2 Dr C Humphreys (Fr)

RV CLUPEA (Marine Laboratory, Department of Agriculture and Fisheries for Scotland)
Diesel Fisheries Research Vessel: 214.5 Gross Tons: Length O.A. 32m (106ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
9 Feb-13 Feb	Moray Firth	Environmental Studies Mr E W Henderson (Cm,Do)
16 Feb-26 Feb	Loch Ewe/ W Scotland	Loch Ewe Bag Experiment Mr J Dunn (Ps)
3 Mar-18 Mar	Firth of Clyde	Spawning Herring Sampling, Sewage Sludge Dumping Survey Mr D Seward, Mr D D Seaton (Ps,Bs)
23 Mar-10 Apr	W Scotland	Species-Selective Fishing-Feasibility Study Mr J Main (Fr)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
13 Apr-24 Apr	N North Sea	Pandalus and Nephrops Trawling Survey Mr F G Howard (Fr)
27 Apr-7 May	Moray Firth/ Sullom Voe	Environmental Studies Mr J H A Martin (Cm,Do)
18 May-5 Jun	E Scotland	Trials of Semi-Pelagic Trawls Mr J H B Robertson (Fr)
8 Jun-2 Jul	Shetland	Sandeel Tagging Dr K Warburton (Fr)
7 Jul-17 Jul	N North Sea	Pandalus and Nephrops Trawling Survey Mr F G Howard (Fr)
20 Jul-14 Aug	Moray Firth	Salmon Tracking Dr A D Hawkins (Fr)
17 Aug-28 Aug	Moray Firth/ Sullom Voe	Environmental Studies- Hydrocarbons Mr R Payne (Cm,Do,Bs)
8 Sept-18 Sept	Buchan Area	Herring Larval Survey Mr M Walsh (Ps) DNP
21 Sept-9 Oct	Orkney	Species-Selective Fishing-Feasibility Study Mr J Main (Fr)
12 Oct-23 Oct	North Sea	Pandalus and Nephrops Trawling Survey Mr F G Howard (Fr)
26 Oct-19 Nov	Firth of Clyde	Young Herring Survey Mr M Walsh (Fr)
24 Nov-18 Dec	Minch	Young Herring Survey Mr J A Morrison (Fr)

RV EXPLORER (Marine Laboratory, Department of Agriculture and Fisheries for Scotland)
Steam Fisheries Research Vessel: 830.7 Gross Tons: Length O.A. 62m (203ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
14 Jan-3 Feb	W North Sea	Sprats-Acoustic and Trawling Survey Mr J I Edwards (Fr) DNP
11 Feb-3 Mar	North Sea	International Young Fish Survey Mr A S Jermyn (Fr,Do) DNP
29 Apr-14 May	N North Sea	GOV and 3-Bridle Trawl-Trials Mr R D Galbraith (Fr)
20 May-29 May	N North Sea/ N W Scotland	Distribution of Fish Parasites Dr A H McVicar (Fr)
4 Jun-24 Jun	N North Sea	O-Group Gadoids-Pelagic Trawling Survey Dr J R G Hislop (Fr,Ps) DNP
2 Jul-22 Jul	N North Sea	Gear Efficiency Experiments Dr C S Wardle/Dr P A M Stewart (Fr)
30 Jul-19 Aug	N North Sea	Demersal Fish Trawling Survey Mr D W Armstrong (Fr) DNP
2 Sept-22 Sept	Orkney/Shetland	Herring Larval Survey Mr D W McKay (Ps) DNP
30 Sept-20 Oct	N & C North Sea	Demersal Fish Trawling Survey Mr A P Robb (Fr) DNP
28 Oct-17 Nov	North Sea	Sprats-Acoustic and Trawling Survey Dr R S Bailey (Fr) DNP
1 Dec-21 Dec	N W Scotland	Dogfish Population Studies Mr J A Gauld (Fr)

RV GOLDSEEKER (Marine Laboratory, Department of Agriculture and Fisheries for Scotland)

Diesel Fisheries Research Vessel: 38.6 Gross Tons: Length O.A. 15m (51ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
12 Jan-23 Jan	Moray Firth	Instrument Testing Mr A MacDonald (Fr)
26 Jan-30 Jan	Moray Firth	Studies of 3-Bridle Trawls Mr R D Galbraith (Fr)
2 Feb-2 Apr	Firth of Clyde/ S W Scotland	Scallops and Queens Mr J Drinkwater, Mr D I Fraser Dr J Mason (Fr)
13 Apr-24 Apr	Loch Ness	Remote Controlled TV Vehicle Development Trials Mr R Priestly (Fr)
27 Apr-21 May	Firth of Clyde/ Sound of Jura	Nephrops Density, Size, Composition and Mesh Selectivity Mr C J Chapman, Mr N Bailey (Fr)
26 May-18 Jun	Firth of Clyde/ Sound of Jura	Nephrops Tagging Mr J A Sinclair, Mr N Bailey (Fr)
23 Jun-16 Jul	W Scotland	Roundfish Behaviour to Gear Mr J Main (Fr)
27 Jul-7 Aug	Loch Ness	Netting Drag Measurements Mr R S T Ferro (Fr)
10 Aug-28 Aug	Moray Firth/ N Coast	Studies of 3-Bridle Trawls Mr R D Galbraith (Fr)
31 Aug-18 Sept	Moray Firth	Net Design Tests Mr J H B Robertson (Fr)
29 Sept-15 Oct	W Scotland	Nephrops Growth and Population Studies Mr N Bailey (Fr)
20 Oct-6 Nov	Loch Creran	Pectinid Spat Mr T R W Howell (Fr)

Cruise Dates	Cruise Area	Scientific Programme and Classification
9 Nov-20 Nov	Moray Firth	BACO Sludge Dumping Ground Survey Dr G Topping (Bs)

RV SCOTIA (Marine Laboratory, Department of Agriculture and Fisheries for Scotland
Diesel Electric Fisheries Research Vessel: 1521.2 Gross Tons: Length O.A. 68m (224ft)

Cruise Dates	Cruise Area	Scientific Programme and Classification
28 Jan-17 Feb	W Scotland/ Faroe	Trials of Pelagic Trawls Dr P A M Stewart (Fr)
25 Feb-17 Mar	W Scotland/ Rockall	Demersal Fish Trawling Survey Dr J R G Hislop (Fr) DNP
25 Mar-14 Apr	W Scotland	Blue Whiting-Acoustic and Trawling Survey Dr K Warburton (Fr) DNP
22 Apr-12 May	N and C North Sea	Demersal Fish Trawling Survey Mr A W Newton (Fr) DNP
20 May-9 Jun	N and C North Sea	Benthos Bottom Sampling, Edinburgh Sewage Sludge Dumping Grounds Dr A Eleftheriou (Bs)
17 Jun-7 Jul	Moray Firth & Orkney/Shetland	Summer Production Studies and Current Measurements Mr H D Dooley (Cm,Do,Ps) DNP
15 Jul-4 Aug	W Scotland	Mackerel-Acoustic and Trawling Survey Mr I G Baxter (Fr) DNP
12 Aug-1 Sept	N North Sea & Orkney/Shetland	Herring-Acoustic and Trawling Survey Dr R S Bailey (Fr) DNP
9 Sept-29 Sept	W Scotland	Herring Larval Survey Mr J A Gaud (Fr) DNP
9 Oct-29 Oct	W Scotland	Herring Larval Survey Mr D W McKay (Fr) DNP

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
6 Nov-26 Nov	North Sea & West Hebrides/ Shetland	Hydrocarbon and Current Measurements Dr J M Davies, Mr H D Dooley (Cm,Do) DNP

RV CUMA (University of Liverpool, Department of Marine Biology)
Wood Stern Trawler: 53 Gross Tons: Length O.A. 19.8m (65ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
All year (except for below:-)	Irish Sea	One or two day working on Biological and Oceanographic Sampling (for Research and Teaching) (Bs,Do,Fr,Ps)
May '81-Oct '81	Western Isles	Sampling for Research and Teaching (Bs,Do,Fr,Ps)
15 Jun-17 Jun	Liverpool Bay	Plankton Distribution Dr D I Williamson (Ps)

**RV KAY BB (University College of Wales, Department of Geology,
Aberystwyth)**
Stern Trawler: 21.9 Gross Tons: Length O.A. 14.6m (48ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Apr '81-May '81	S Cornwall	Seismic Survey Dr M Dobson, Dr R J Whittington (Gg)
Jun '81	Cardigan Bay W Wales	Test Programme for Bedford Rock Drill Dr M Dobson, Dr R J Whittington (Gg)
Jul '81-Aug '81	Inner Hebrides	Rock Drilling in Hebrides Basins Dr M Dobson, Dr R J Whittington (Gg)
Sept '81	Unallocated	—

RV LEWIS MORRIS (University College of North Wales, Marine Science Laboratories, Menai Bridge, Gwynedd)

Inshore Trawler/Workboat: 15 Gross Tons: Length O.A. 13.7m (45ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Day trips as required	N Wales Coast	Biological material collection and various coastal oceanographic programmes (Fr,Bs,Cm,Do,Gg)

RV PRINCE MADOG (University College of North Wales, Marine Science Laboratories, Menai Bridge, Gwynedd)

Stern Trawler Research Vessel: 182 Gross Tons: Length O.A. 28.6m (94ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
2 Mar-11 Mar	Conway Bay	Instrumented Buoy Trials Dr J Simpson (ASi,Cm,Do)
12 Mar-25 Mar	SW Scotland	Geothermal Mr D Taylor Smith (Gg,Do)
6 Apr-10 Apr	W Irish Sea	Buoy Lay, CTD, Plankton Dr J Simpson (Cm,Do,Ps)
27 Apr-8 May	W Irish Sea	Buoy Lay, CTD, Plankton Dr C Turley (Cm,Do,Ps)
18 May-29 May	E Irish Sea	Nutrient Chemistry Dr C P Spencer (Do,Ps)
1 Jun-5 Jun	W Irish Sea	Buoy Lay, CTD Dr J Simpson (Cm,Do,Ps)
8 Jun-18 Jun	E Irish Sea	Field Courses (Do,Ps,Bs,Gg)
22 Jun-1 Jul	W Irish Sea	Buoy Service, Front Biology Dr C Turley (Cm,Do,Ps)
27 Jul-7 Aug	W Irish Sea	Buoy Service, Front Biology Dr J Simpson (Cm,Do,Ps)
24 Aug-28 Aug	W Irish Sea	Buoy Service, Front Biology Dr J Simpson (Cm,Do,Ps)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
31 Aug-10 Sept	E Irish Sea/ Liverpool Bay	Benthos and Sludge, Young Fish Mr E I S Rees (Bs,Ps,Fr)
14 Sept-25 Sept	Irish Sea	Geophysics Mr D Taylor Smith (Gg)
28 Sept-2 Oct	Irish Sea	Wave Studies Prof J Darbyshiro (Do)
5 Oct-9 Oct	W Irish Sea	Plankton Dr K Richardson (Ps,Do)
12 Oct-29 Oct	Anglesey	Teaching (Cm,Do,Ps,Bs,Fr)
9 Nov-13 Nov	Irish Sea	Biology Collecting (Bs,Fr)

RV OCEAN CREST (University College of Swansea, Department of Oceanography)

Side Trawler: 130.5 Gross Tons: Length O.A. 30.5m (100ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Weekly	Bristol Channel	Undergraduate Training Dr S E Shackley, Mr S J Wakefield (Bs,Do,Gg,Ps)
Fortnightly	Oxwich Bay	Phytoplankton Planktonic Larvae Miss C Webb, Miss J Sexton (Ps)
Monthly	N Bristol Channel	Monthly Sampling at Sediment/Water Interface (Gg)
Monthly	Swansea Bay	Fisheries Research Dr S E Shackley (Fr)
Monthly	Oxwich Bay	Benthic Ecology Dr P A Tyler, Miss S Lancaster (Bs)
Monthly	Carmarthen Bay	Fisheries Prof J S Ryland, Mr D Clarke (Fr)
Occasionally	Scarweather Bank	CSP Mr G Rowlands (Gg)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
Occasionally	N Bristol Channel	Geophysics Dr P Styles (Gg)

OWS ADMIRAL BEAUFORT (Meteorological Office)

Ocean Weather Ship: 1405 Gross Tons: Length O.A. 76.3m (252ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
29 Jan-25 Feb	N Atlantic-Clyde to Ocean Station Lima 57°N 20°W	Meteorological observations at sea, surface and upper air (Mt) Deep oceanographic soundings for temperature and salinity (Ps) Seawater sampling for shore analysis (SI)
12 Mar-8 Apr		
30 Apr-3 Jun		
25 Jun-29 Jul		
20 Aug-23 Sept		
15 Oct-11 Nov		
26 Nov-22 Dec		

OWS ADMIRAL FITZROY (Meteorological Office)

Ocean Weather Ship: 1405 Gross Tons: Length O.A. 76.3m (252ft)

<i>Cruise Dates</i>	<i>Cruise Area</i>	<i>Scientific Programme and Classification</i>
9 Jan-4 Feb	N Atlantic-Clyde to Ocean Station Lima 57°N 20°W	Meteorological observations at sea, surface and upper air (Mt) Deep oceanographic soundings for temperature and salinity (Ps) Seawater sampling for shore analysis (SI)
19 Feb-18 Mar		
2 Apr-6 May		
28 May-1 Jul		
23 Jul-26 Aug		
17 Sept-21 Oct		
5 Nov-2 Dec		
16 Dec '81- 13 Jan '82		
