

NATURAL ENVIRONMENT RESEARCH COUNCIL

APPLICATION FOR CONSENT TO CONDUCT MARINE SCIENTIFIC RESEARCH IN AREAS UNDER NATIONAL JURISDICTION OF ICELAND

Date: 24th March 2006

1. General information

- 1.1 Cruise name and/or number:** RRS DISCOVERY (D312)
- 1.2 Sponsoring institution:**
Name: National Oceanography Centre
Address: Empress Dock, Southampton. Hampshire. SO14 3ZH.
Name of director: Professor Ed Hill
- 1.3 Scientist in charge of the project:**
Name: Dr. John Allen, NOCS
- 1.4 Scientist(s) from ICELAND informed of the planning of the project**
Name(s):
Address:
- 1.5 Submitting officer:**
Name and address: AR Louch, NERC Research Ship Unit, Southampton
Oceanography Centre, European Way, Empress Dock,
Southampton, S14 3ZH
Telephone: +44 2380 596800
Telex: 47121 Telefax: +44 2380 635130

2. Description of project (Attach additional pages as necessary)

Information is available on both the NOCS & SAMS websites.

- 2.1 Nature of objectives of the project:**
To conduct a hydrographic (Physical, Biological & chemical) survey along the Extended Ellett Line between Scotland and Iceland.
- 2.2 Relevant previous or future research cruises:**
RV Poseidon 2004.
Cruise report available on request.
- 2.3 Previously published research data relating to the project:**
Previous cruise data has been banked with The British Oceanographic Data Centre
(www.bodc.ac.uk)

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3. Methods and means to be used

3.1 Particulars of vessel

Name: RRS DISCOVERY
 Nationality: BRITISH
 Owner: NERC
 Operator: RSU
 Overall length: 90.25 metres
 Maximum draught: 5.3 metres
 Net tonnage: 902 Gross tonnage: 3008
 Propulsion: Diesel Electric
 Cruising speed: 11 knots Maximum speed: N/A
 Call sign: GLNE
 Method and capability of communication (including telex, frequencies):
 Inmarsat Voice: 323388210 Fax: 23388212 Telex: 323388314
 Name of master: To be advised
 Number of crew: 22
 Number of scientists on board: 28

3.2 Aircraft or other craft to be used in the project: None

3.3 Particulars of methods and scientific instruments

Types of samples and data	Methods to be used	Instruments to be used
Water Column Measurements	lowered profiling CTD package.	SBE CTD & water bottle rosette
	Small 200 micron plankton net deployed to a depth of 100 m at a small number of CTD stations	Plankton net
Underway Sampling	Meteorology, sea surface temperature, salinity, fluorescence and turbidity	Wind speed, pressure, air temperature etc. Thermosalinograph, Fluorometer, transmissometer
	Water currents	Vessel mounted ADCP
	Water depth	Echo-sounder
Moorings deployments at 60 degrees N, 20 degrees W	Four moorings in an ~ 30 km square, one sediment trap and one current meter on each at ~ 750 m above the sea-bed	Sediment traps, current meters

3.4 Indicate whether harmful substances will be used:

Small quantities of laboratory reagents will be used within the laboratories aboard the ship, these include formaldehyde and dilute acids. All waste products will be disposed of on return to the UK.

3.5 Indicate whether drilling will be carried out: No

3.6 Indicate whether explosives will be used: No

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4. Installations and equipment

Details of installations and equipment (dates of laying, servicing, recovery; exact locations and depth):

Four moorings at the corners of an ~ 30 km square centered on 60 degrees N, 20 degrees W (water depth ~2750 m). One sediment trap at ~ 2000 m depth and one current meter at ~ 2025 m depth, on each mooring.

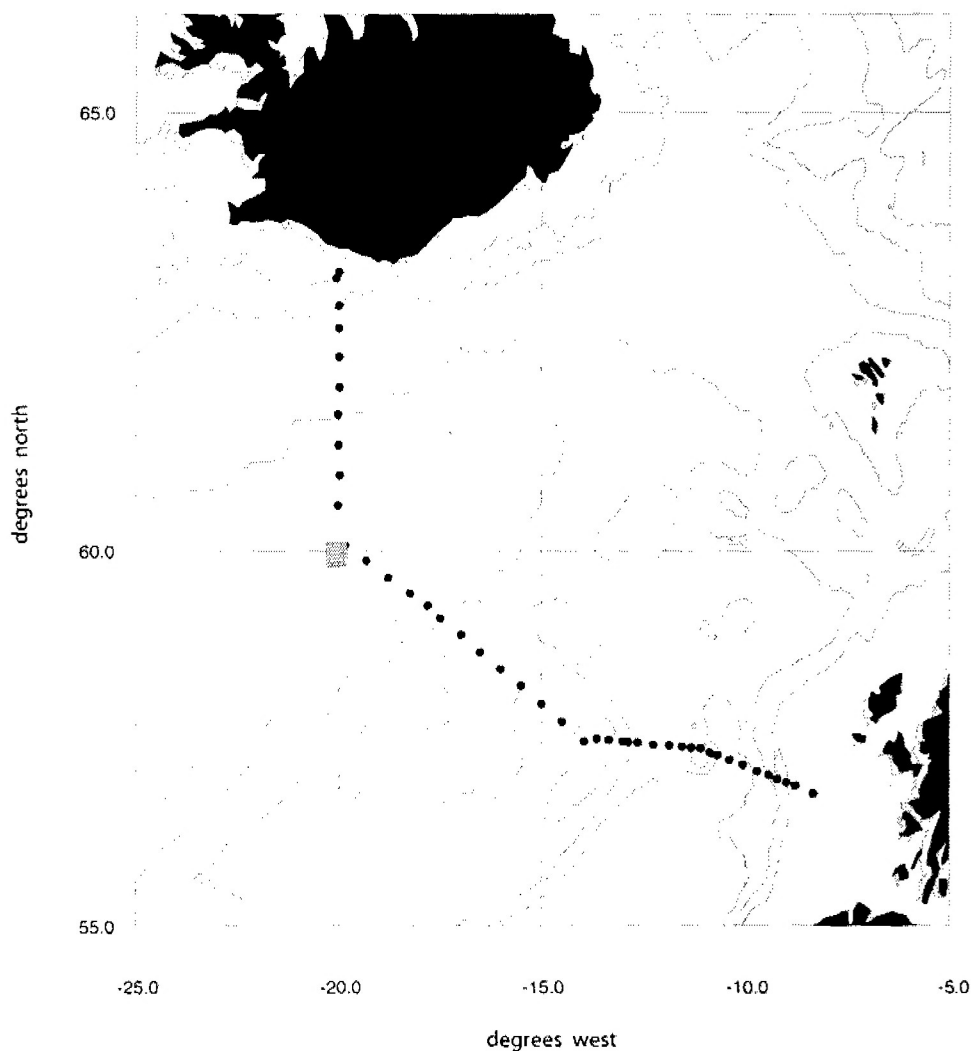
5. Geographical areas

5.1 Indicate geographical areas in which the project is to be conducted (with reference in latitude and longitude):

52°N > 66°N & 25°W > 5°W.

5.2 Attach chart (s) at an appropriate scale showing the geographical areas of the intended work and, as far as practicable, the positions of intended stations, the tracks of survey lines, and the locations of installations and equipment.

RRS Discovery cruise 312



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6. Dates

6.1 Expected dates of first entry into and final departure from research area of the research vessel:

Expected first entry 11th October 2006
Expected final departure 31st October 2006

6.2 Indicate if multiple entry is expected: Yes

7. Port calls

7.1 Dates and names of intended ports of call in ICELAND

Reykjavik 06 – 11 October 2006

7.2 Any special logistical requirements at ports of call:

None

7.3 Name/Address/Telephone of shipping agent (if available)

Nesskip H.F	Tel: (00 354) 5639900
Nesskip's House	Fax: (00 354) 5639919
Austurstrond 1	
172 Seltjarnarnes	Email: operations@nesskip.is
REYKJAVIK PC101	
Iceland	

8. Participation

8.1 Extent to which ICELAND will be enabled to participate or to be represented in the research project:

One berth for an observer from each coastal state is offered in accordance with UNCLOS Art 249 (1a).

8.2 Proposed dates and ports for embarkation/disembarkation:

Embark: Reykjavik 10 October 2006
Disembark: Glasgow 31 October 2006

9. Access to data, samples and research results

9.1 Expected dates of submission to ICELAND of preliminary reports which should include the expected dates of submission of the final results:

Six months after completion of Cruise.

9.2 Proposed means for access by ICELAND to data and samples:

Online Database c/o BODC & CD.

9.3 Proposed means to provide ICELAND with assessment of data, samples and research results or provide assistance in their assessment or interpretation:

Reports/CD/meetings

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9.4 Proposed means of making research results internationally available:

International Peer reviewed journals

10.

COASTAL STATE: ICELAND

PORT CALL: Embarkation in Reykjavik

DATES: 06 – 11 October 2006

SCIENTIFIC EQUIPMENT

INDICATE "YES" OR "NO"

List Scientific Work by Function eg: Magnetometry Gravity, Diving, Seismic, Bathymetry, Seabed Sampling, Trawling, Echo Sounding, Water Sampling U/W T.V.: Moored and Towed instrument	Water Column Incl. Sediment Sampling on the Seabed	Fisheries Research within Fishing Limits	Research Concerning the Natural Resources of the Continental Shelf or its Physical Characteristics	Distance from Coast Between	
				Within 12 NM	12 - 200 NM
Echo sounding, CTD & water sampling, underway water sampling & profiling, water current profiling using vessel mounted ADCP	Yes, only water column	No	No	Yes	Yes
Moored sediment traps and current meters	Yes	No	No	No	Yes

Principal Scientists

John T. Allen