

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

1. GENERAL INFORMATION

1.1 *CRUISE NAME AND/OR NUMBER:* CV 0301

1.2 *SPONSORING INSTITUTION:*

Name: Marine Institute
Address: Galway Technology Park,
Parkmore,
Galway.
Name of Chief Executive: Dr. Peter Heffernan

1.3 *SCIENTIST IN CHARGE OF THE PROJECT:*

Name: Dr. Evin McGovern
Address: Abbotstown,
Snugborough Road,
Castleknock,
Dublin 15.
Telephone: +353 18228215

1.4 *SCIENTIST(S) FROM UNITED KINGDOM INVOLVED IN THE PLANNING OF THE PROJECT:*

Name(s): none
Address: n/a

1.5 *SUBMITTING OFFICER:*

Name and address: Marine Institute,
Galway Technology Park,
Parkway,
Galway,
Ireland.
Telephone: +353 91730-400

2. DESCRIPTION OF PROJECT (Attach additional pages if necessary)

2.1 *NATURE AND OBJECTIVES OF THE PROJECT:*

The survey aims to fulfil Ireland's requirements under the Joint Assessment and Monitoring Programme (JAMP) of the 1992 "Oslo Paris Convention for the Protection of the North East Atlantic" (OSPAR). This requires the answering of 3 key questions:

1. What is the spatial distribution of nutrients?
2. Are nutrient concentrations changing over time (trends)?
3. Are nutrient concentrations significantly elevated (>50%) above salinity related and/or regionally specific background levels?

Question number 3 requires that we know that the “background levels” are. This is why we would like to extend the scope of our sampling to include more samples in the Celtic Sea and one transect across St. George’s Channel. This will allow us to make an assessment of the nutrient input to the Irish Sea.

2.2 RELEVANT PREVIOUS OR FUTURE RESEARCH CRUISES:

The Marine Institute has been carryout out a winter nutrients survey in the Irish Sea since 1990 and plans to continue the annual surveys for the foreseeable future.

2.3 PREVIOUSLY PUBLISHED RESEARCH DATA RELATING TO THE PROJECT:

McGavers, E., Monaghan, E., Morham, M., Rowe, A., Duffy, C., Quinlan, A., McHugh, B., McMahan, T., Smyth, M., Naughton, M., McManus, M., Nixon, E. Winter Nutrient Monitoring of the Western Irish Sea - 1990 to 2000. Marine Institute Marine Environment and Health Series, No. 4, 2002.

3. METHODS AND MEANS TO BE USED

3.1 PARTICULARS OF VESSEL:

<i>Name:</i>	RV Celtic Voyager
<i>Nationality:</i>	Irish
<i>Owner:</i>	Marine Institute
<i>Overall Length:</i>	31.4m
<i>Maximum draught:</i>	3.0m
<i>Net tonnage:</i>	340 tonnes
<i>Propulsion:</i>	Wartalla UD25M5 (626 KW)
<i>Cruising speed:</i>	10 knots
<i>Call sign:</i>	E I Q N
<i>Method and capability of communication:</i>	
<i>Telephone and fax:</i>	00 353 88 2789357
<i>(inc. telex, frequencies)</i>	
<i>Name of master:</i>	Philip Baugh
<i>Number of crew:</i>	8
<i>Number of scientists on board:</i>	Maximum of 5 at any one time

3.2 AIRCRAFT OR OTHER CRAFT TO BE USED IN THE PROJECT:

None

3.3 PARTICULARS OF METHODS AND SCIENTIFIC INSTRUMENTS:

For methods, see attached standard operating procedure (SOP). Scientific instruments utilized: ADCP, CTD (with transmissometer attached) and Salinometer.

3.4 *INDICATE WHETHER HARMFUL SUBSTANCES WILL BE USED:*

Ten water samples will be preserved with mercuric chloride (HgCl₂). A total of 30ml of the 10mg/ml HgCl₂ solution will be on board the ship for preservation and any resulting waste will be stored until disembarking.

3.5 *INDICATE WHETHER DRILLING WILL BE CARRIED OUT:*

No

3.6 *INDICATE WHETHER EXPLOSIVES WILL BE USED:*

No

4. **INSTALLATIONS AND EQUIPMENT**

DETAILS OF INSTALLATIONS AND EQUIPMENT (DATES OF LAYING, SERVICING, RECOVERY, EXACT LOCATIONS AND DEPTH):

No equipment to be installed

5. **GEOGRAPHICAL AREAS**

5.1 *INDICATE GEOGRAPHICAL AREAS IN WHICH THE PROJECT IS TO BE CONDUCTED (WITH REFERENCE IN LATITUDE AND LONGITUDE):*

Carlingford Lough (54.0500°N -6.1500°W), Irish and Celtic Seas as far south as (51.4000°N) and east as -5.4500°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:*

See attached map

6. **DATES**

6.1 *EXPECTED DATES OF FIRST ENTRY INTO FINAL DEPARTURE FROM RESEARCH AREA OF THE RESEARCH VESSEL:*

Cruise dates January 13th - January 28th. Approximate dates in UK waters: January 16th - January 18th.

6.2 *INDICATE IF MULTIPLE ENTRY IS EXPECTED:*

No

7. **PORT CALLS**

7.1 *DATES AND NAMES OF INTENDED PORTS OF CALL IN UNITED KINGDOM:*

None

7.2 *ANY SPECIAL LOGISTICAL AT PORTS OF CALL:*

N/A

7.3 *NAMES/ADDRESS/TELEPHONE OF SHIPPING AGENT (IF AVAILABLE):*

N/A

8. PARTICIPATION

8.1 *EXTENT TO WHICH UNITED KINGDOM WILL BE ENABLED TO PARTICIPATE OR TO BE REPRESENTED IN RESEARCH PROJECT:*

A member of DARDNI, Brian Stewart, will be joining us for part of the cruise.

8.2 *PROPOSED DATES AND PORTS FOR EMBARKATION/DISEMBARKATION:*

He will be joining the ship in Cork on the 13th of January and will be disembarking in Arklow around the 18th of January (depending on weather). He will be present during the sampling done in UK waters.

9. ACCESS TO DATA, SAMPLES AND RESEARCH RESULTS:

9.1 *EXPECTED DATES OF SUBMISSION TO UNITED KINGDOM OF PRELIMINARY REPORTS WHICH SHOULD INCLUDE THE EXPECTED DATES OF SUBMISSION OF THE FINAL RESULTS:*

A cruise report will be available upon request to the chief scientist from March 1st. Final results will be submitted to ICES at the end of 2003.

9.2 *PROPOSED MEANS FOR ACCESS BY UNITED KINGDOM TO DATA AND SAMPLES:*

All data will be submitted to ICES and can be accessed through the ICES database. Access to samples (if available) can be attained by contacting Evin McGovern at the Marine Institute (evin.mcgovern@marine.ie).

9.3 *PROPOSED MEANS TO PROVIDE UNITED KINGDOM WITH ASSESSMENT OF DATA, SAMPLES AND RESEARCH RESULTS OR PROVIDE ASSISTANCE IN THEIR ASSESSMENT OR INTERPRETATION:*

The Marine Institute plan to submit "National Comments" to OSPAR once every year to two years. This will include an assessment of the data. Further requirements for assistance can be accommodated through contact with Evin McGovern at the Marine Institute (evin.mcgovern@marine.ie).

9.4 *PROPOSED MEANS OF MAKING RESEARCH RESULTS INTERNATIONALLY AVAILABLE:*

Data to be submitted to ICES.

CO SUMMARY FORM

COASTAL STATE:
 PORT CALL:
 DATES:

COMPLETE THE FOLLOWING TABLE - SEPARATE PAGE FOR EACH COASTAL STATE
 (indicate "Yes" or "No")

				DISTANCE FROM COAST		
				WITHIN 12 NM	BETWEEN 12 AND 200 NM	(CONTINENTAL SHELF WORK ONLY) BEYOND 200 NM, BUT WITHIN CONTINENTAL MARGIN
LIST SCIENTIFIC WORK BY FUNCTION e.g. MAGNETOMETRY GRAVITY DIVING SEISMICS BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING WATER SAMPLING U/W TV MOORED INSTRUMENTS TOWED INSTRUMENTS	WATER COLUMN INCLUDING SEDIMENT SAMPLING OF THE SEABED	FISHERIES RESEARCH WITHIN FISHING LIMITS	RESEARCH CONCERNING THE NATURAL RESOURCES OF THE CONTINENTAL SHELF OR ITS PHYSICAL CHARACTERISTICS			
Echo sounding Water sampling Plankton sampling etc	Yes			Yes		

(On behalf of the Principal Scientist)

Dated: 09 December 2002

N.B. IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED, THE COASTAL STATE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY.

