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## **EU Council Regulation 1543/2000**

*Establishing a Community framework for the  
Collection and Management of the Data  
needed to conduct the CFP*

**National Programme 2006**  
**IRELAND**  
*( Version 1)*

**31st May 2005**

The Irish response to EU Council Regulation 1543/2000 (*establishing a Community framework for the collection and Management of the data needed to conduct the CFP*), is co-ordinated by the Department of the Communications, Marine and Natural Resources (DCMNR).

This document represents the National Programme for Ireland 2006 (*Version 1 – May 2005*) and is submitted by the Marine Institute who are charged by DCMNR with the implementation of the *module on evaluation of inputs: fishing capacities and fishing effort and the module of evaluation of the catches and landings* as defined in the Application regulation of EU Council Regulation 1543/2000.

The DCMNR have charged An Bord Iascaigh Mhara (BIM) with the collection of data related to the Module for the evaluation of the economic situation of the sector (J - Collection of economic data by groups of vessels and K - collection of data concerning the processing industry).

This document has been compiled following the guidelines in EU Commission Regulation 1639/2001 (*establishing the minimum and extended Community programmes for the collection of data in the fisheries sector and laying down detailed rules for the application of EU Council Regulation (EC) 1543/2000*) and Commission Regulation (EC) No 1581/2004 (*amending Regulation (EC) No 1639/2001 establishing the minimum and extended Community programmes for the collection of data in the fisheries sector and laying down detailed rules for the application of Council Regulation (EC) No 1543/2000*).

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## Introduction and Background

This document describes the Irish National Programme (Revised Version 3) for the collection of data in the fisheries sector under EU Council Regulation 1543/2000 (*establishing a Community framework for the collection and Management of the data needed to conduct the CFP*) and Commission Regulation (EC) No 1581/2004 (*amending Regulation (EC) No 1639/2001 establishing the minimum and extended Community programmes for the collection of data in the fisheries sector and laying down detailed rules for the application of Council Regulation (EC) No 1543/2000*)

The Irish National Programme will be conducted in close co-operation between three organisations in Ireland;

- **Department of Communications Marine and Natural Resources (DCMNR)**  
DCMNR is the main governmental department with responsibility for sea fisheries policy, management, control and enforcement.
- **The Marine Institute (MI)**  
The MI is a semi state marine research organisation charged by DCMNR with the collection of scientific data on the fisheries sector.
- **An Board Iascaigh Mhara (BIM – The Irish Sea Fisheries Board)**  
BIM is a semi state sea fisheries development agency charged by DCMNR with the collection of economic data on the fisheries sector.

Primary data collected under the Irish Programme are stored in the following databases;

Vessel Register – DCMNR – Fleet details including Capacity (IFIS)  
Logbook Database – DCMNR and MI – Catches and Effort data (IFIS)  
Age and Length of Catches – MI – Landings and Discards data (Age and Length) (STOCKMAN)  
Surveys Database – MI – Catch Compositions (Various ACCESS Data Bases)  
Biological Databases – MI – Biological parameters (ACCESS Data Base)  
Economic Data – BIM – Economic Data (To Be Developed by BIM)

All data collected under the Data Collection Regulation are inputted to these various databases. Access to the data is limited to authorised staff and nobody outside the organisations listed above has access to the data.

At a meeting of European Fisheries Laboratories in Lisbon in May 1992, concern was expressed about the continuity of stock assessment programmes in member countries. As a result of reduced national funding, many fisheries laboratories had scaled down their sampling programmes or were planning reductions in the near future. The EU recognised that any reduction in the provision of data for stock assessment would have serious implications for the quality of the scientific and management advice needed to conduct the Common Fisheries Policy. In order to address this problem DGXIV prepared several ‘calls for proposals’ (Study Contracts) in this area and a number of projects were funded with the objective of achieving improvements in data collection for stock assessment.

Ireland is on the western edge of the EU and is surrounded by the most productive fishing grounds in EU waters. The Marine Institute's Fisheries Science Services (FSS) monitor, assess, research and advise on the marine fisheries resource in the waters around Ireland. FSS monitor some 35 demersal and pelagic stocks and provide data to and participate in the following ICES Groups;

- Northern Shelf Working Group
- Southern Shelf Working Group
- Hake monk and megrim Working Group
- Herring Working Group
- Mackerel, Horse Mackerel, Sardine and Anchovy Working Group
- Northern Pelagic and Blue Whiting Working Group
- International Bottom Trawl Survey Working Group
- Deep Water Working Group
- Cephalopod Working Group
- *Nephrops* Working Group
- Mackerel Egg Survey Working Group
- Mackerel Egg Survey Working Group
- Planning Group on North Atlantic Pelagic and Ecosystem Surveys
- Elasmobranch Study Group
- Discard Study Group
- Crab Study Group
- Planning Group on Commercial Catch, Discards and Biological Sampling
- Sea Bass Study Group

(\* *ICES Assessment Working Group are end users of data collected under the DCR. However, participation at these Working Groups is **not funded** under the Data Collection Regulation).*

FSS also participate annually at the STECF, ACFM, ICCAT and at various *ad-hoc* meetings called by the Commission (DG XIV). There are currently 3 recovery plans operating in the waters off Ireland and the provision of appropriate data to evaluate these recovery plans will have a high priority.

Since 1994, Ireland has allied itself with several strategic fisheries laboratories along the Atlantic coast and have successfully sourced DGXIV funding to supplement the collection and management of fisheries data. These partners are UK (Aberdeen and Lowestoft) France, Spain and Portugal. These partners now rely on EU funding to conduct annual sampling, data management and analysis programmes relating to the assessed and non assessed fish stocks in western EU waters.

A Study Contract 94-013 (Improvements of data collection for stock assessment in ICES Sub Areas VI, VII, VIII, IX and X) was funded by DGXIV over the period January 1995 to 1998. This was followed by EU Study Contract 97-059 (Providing a framework to Improve the assessment of the main demersal and pelagic species in western European waters, FIEFA). The FIEFA project finished in January 2000. A Study Contract 99-099 (Sampling of fish stocks in western EU waters SAMFISH) was funded in February 2000 and finished in January 2002.

Since 1994, FSS have participated in over 14 EU Study Contract proposals. FSS coordinated the FIEFA project (EU Study Contract 97-059). The Study Contract funding mechanism will now be replaced by the funding mechanism provided under the EU Regulation 1543/2000.

### **Special Note on Personnel Costs and Working Hours**

The personnel grades with associated average salaries (annual, monthly) are shown in Annex I. This gives the projected mean annual salary per grade in 2006. This includes social insurance contributions, special government increases in 2005 (BENCHMARKING and SUSTAINING PROGRESS) and normal annual incremental increases. No overheads are included in these costings. These figures are used in the budget estimates for 2006.

For the purposes of the budget calculations the number of days worked directly on DCR activities is 180 per year. The number of days worked per week is 5 and the number of days worked per month is 20.

Sea Allowances, daily allowances, overnight subsistence, mileage rates, foreign travel rates are those set out by the Irish Government under various Department of Finance Regulations and are used by the Marine Institute and An Bord Iascaigh Mhara.

In 2004, the Organisation of Working Time Act (OWT) came into force within the Marine Institute and BIM. Personnel engaged in the DCR work programme must not work in excess of an average of 48 hours over a 3 month period. The normal working week is 38 hours per week. These figures have been used in the estimation of man hours and costings in the 2006 National Programme for Ireland (see discussion in Module H).

## **Module of evaluation of inputs: fishing capacity and fishing effort**

### **C Collection of data concerning fishing capacities**

*No EU funding is sought for the collection of these data. Preliminary analyses of these data for submission to relevant Scientific Working Groups is included in Module E.*

#### **Minimum Programme**

In Ireland the collection of data concerning fishing capacity is the responsibility of the Department of Communications, Marine and Natural Resources (DCMNR). Irish vessels that undertake commercial fishing activities are registered with the DCMNR. The vessel register is a computerised database which includes details such as;

- Vessel type (e.g. trawler, beam trawler)
- Vessel Age
- GRT, Length, width and draught
- Engine Power

The information in the vessel is registered according to Regulation (EC) No. 2930 and No 2090/98. The vessel register is updated continuously and is held by the Department of Communications Marine and Natural Resources.

#### **Parameters**

For the minimum programme, data will be collected in order to assess the average value per vessel of ;

- the gross tonnage
- maximum continuous engine power actually developed by the main engine expressed in kW (as per Council Regulation 2930/86)
- the age of the vessel calculated on the basis of the age of the hull

#### **Disaggregation Levels**

The disaggregation level will comply with the segments as defined in Appendix III of Commission Regulation (EC) No 1639/2001.

- Mobile gears
  - Beam Trawl
  - Demersal Trawl and Demersal Seiner
  - Pelagic Trawl and Seinners
  - Dredges
  - Polyvalent
- Passive Gears
  - Hooks
  - Drift and fixed nets
  - Pots and traps
  - Polyvalent
- Polyvalent Gears
  - Combined mobile and passive gears

These data will be provided for vessels.

- <12m
- 12 to <24m
- 24 to <40m
- >40m

These data will be updated annually.

**Precision Levels**

Data on fishing capacity for all active Irish fishing vessels, on an aggregated level by segment, as described in Appendix III of Commission Regulation 1639/2001 will be collected exhaustively by DCMNR.

**Extended Programme**

No data collection will be carried out within the framework of the extended programme during 2006.

## **D Collection of data related to fishing effort**

*No EU funding is sought for the collection of these data. Preliminary analyses of these data for submission to relevant Scientific Working Groups is included in Module E.*

The EC regulation on logbooks and the implementation of control regulations concerning the Common Fisheries Policy (CFP) require all vessels greater than 10 meters, used for commercial fishing to carry and complete a logbook of fishing activity. The information contained in the logbook includes;

- Vessel name, number and skipper
- Departure and arrival date and times,
- Gear Type deployed
- Species and weight caught (kgs)
- Fishing grounds, ICES division and ICES rectangle
- Fishing days

The information in the logbooks is registered according to the provision of Commission Regulation (EC) No 2807/83 and No 2847/93.

The logbook data are collated by the Department of Communications Marine and Natural Resources and kept on a digital database at DCMNR.

### **Minimum Programme**

#### **Parameters**

(i) Information on fuel consumption will be collected as part of the minimum programme on the economic evaluation. Ireland will seek funding under the economic evaluation in 2006 (see Section JK).

(ii) The Marine Institute routinely conduct analyses of the DCMNR logbook data for use in the stock assessment process. The MI produce annual Irish quarterly fleet activity maps for each ICES statistical rectangle. Data on fishing effort (days or hours fished) on an aggregated level, by segment, as described in Appendix 1 and Appendix VIII of Commission Regulation 1639/2001.

Fishing effort data will be weighted by the measuring unit related to the nominal fishing power of each vessel (KW or GT) as defined in Appendix V.

(iii) Specific Fishing effort will be collected for those stocks of special interest where the catches kept on board exceed certain thresholds listed in Appendix VI of Commission Regulation (EC) No 1639/2001.

Ireland will ensure that that these effort indices are in line with those required by the ICES stock assessment working groups.

**Disaggregation Levels**

Fishing effort indices will be collected according to the fishing techniques defined in Appendix VIII of Commission Regulation 1639/2001, on a quarterly basis by ICES Division.

**Precision**

Catch and effort data from the EU logbooks are collected exhaustively by DCMNR (census). It is not necessary to carry out a sampling programme for fishing effort by technique for any Irish fleet segments > 10 m.

For vessels <10m using passive gears Ireland will continue to conduct pilot sampling programmes to collect effort data in these inshore fisheries. These programmes will involve a combination of data collection from sales slips in fish processors and fisheries co-operatives and onboard observer programmes in targeted inshore fisheries. Ireland will endeavour to attain the precision level of 2 but this is dependent on continued co-operation of the fishing industry. No EU funding is sought for these pilot programmes, which are nationally funded.

**Extended Programme**

Ireland will not undertake the extended programme in 2006.

## **Module of evaluation of the catches and landings**

### **E Collection of data related to catches and landings**

The Department of Communications Marine and Natural (DCMNR) resources collect statistics related to the landings of commercial fish species.

Ireland currently assesses the commercial catches, including discards, of the stocks from the north-east Atlantic listed in Annex XII of the Application of Regulation 1543/2000.

Landings are currently provided by species, by quarter, by gear, by ICES Division and by ICES rectangle, based on information supplied in the EU Logbooks (level 4 as per Appendix 1 of Commission Regulation 1639/2001). These data are collected exhaustively (census) by DCMNR. This information is highly confidential and only used in an aggregated format for stock assessment purposes.

Ireland will provide catch data on its only recreational fisheries, that for bluefin tuna. This fishery is still being developed and remains a small scale, short seasonal fishery of about 3 months in late summer.

Ireland has provided a table of the live/gutted weight conversion factors that are applied to gutted fish landings (see below).

Ireland has carried out a discard monitoring programme since 1994 under various EU Study contracts. Discards are monitored for the stocks in Annex XII of the Commission Regulation 1639/2001 and estimates of the average volume of annual catches (landings and discards) by weight, per three year period, by type of technique defined in Appendix III, will be provided with the aim to achieve the required precision.

Annual discard estimates will be produced for haddock, whiting, herring, hake, plaice (VIIa; VIIe-g), mackerel (VIId, IV). Annual discard data are also collected for many other stocks and data have been made available for inclusion in international stock assessments (e.g. ICES Discard Working Group).

In 2006, catch and landings data will also be collected for all fleets (fisheries) in order to comply with requests from STECF and ICES.

Recreational catches are required for cod (VI and VII) and blue fin tuna. The DCMNR collect catch statistics for blue fin tuna. However recreational catches for cod in Ireland are difficult to evaluate. The Marine Institute will commence a contract with the Central Fisheries Board (CFB), the agency that has responsibility for recreational fisheries development in Ireland. This contract will enable the CFB to digitise and collate cod catch statistics for recreational tournaments covered by the CFB. In addition, the Marine Institute will obtain catch data from the Cork Sea Angling Club that has collected catch data on recreational catches of cod since 1963.

## Minimum Programme

Ireland will meet the requirements of the Minimum Programme in 2006.

## Extended Programme

Ireland will not undertake further collection of data in 2006 to fulfil the Extended Programme for E.

<b>Species</b>	<b>Conversion Factor</b>
Pouting	1.12
Blue Ling	1.15
Brill	1.05
Catfish	1.18
Codling	1.18
Rabbit Fish	1.12
Cod	1.18
Conger Eel	1.125
Dabs	1.05
Flounder	1.05
Other Flatfish	1.05
Other Demersal	1.1
Greater Forkbeard	1.125
Haddock	1.16
Halibut	1.05
Hake	1.12
John Dory	1.125
Lemon Sole	1.04
Megrim	1.05
Ling	1.12
Monk/Angler	1.28
Plaice	1.05
Saithe	1.18
White Pollock	1.14
Redfish	1.1
Ray / Skate	1.15
Slip Sole	1.05
Common Sole	1.05
Sand Sole	1.125
Grenadier	1.12
Turbot	1.05
Tusk	1.13
Whiting	1.12
Witch	1.05

*Ireland - Conversion factors for fish species landed gutted*

<b>Species</b>	<b>Conversion Factor</b>
<i>Monk/Angler</i>	3.0
<i>Nephrops</i>	3.0

*Ireland - Conversion Factors for fish species landed tailed*

**All other species are landed whole**

## **F Collection of data concerning the catches per unit effort and/or effective effort of specific commercial fleets**

*No EU funding is sought for the collection of these data. Preliminary analyses of these data for submission to relevant Scientific Working Groups is funded nationally.*

### **Minimum Programme**

In 2006, Ireland continued to build an updated the various CPUE and /or specific effort of specific commercial fleets for use in stock assessment by various working groups. These data are collected by census from logbooks and sampling data are from those collected under Module I. The fleets to be updated for the MP are those specified by STECF (see SEC 2003 843).

### **Extended Programme**

Ireland will also complete the EP for this module in 2006. The fleets to be updated for the MP are those specified by STECF (see SEC 2003 843).

## **G Eligibility of the scientific evaluation surveys of stocks**

### **Minimum programme**

Ireland meets the criteria of the minimum programme for research surveys as defined in Appendix XIV of Commission Regulation No 1639/2001.

Ireland participates in several ICES expert groups that deal with the coordination and organisation of these surveys. These groups are as follows:

- IBTS Working Group (International bottom trawl surveys)
- SGSTS (Study Group on Survey Trawl Standardisation)
- WKSAD (Survey Design and Data Analysis Workshop)
- PHERS (Co-ordinates herring surveys)
- PGNAPES (Co-ordinates blue whiting and Atlanto-Scandian herring surveys)
- WGMEGS (Co-ordinates mackerel and horse mackerel egg surveys)
- PGTT Tuna Tagging Meeting.

In 2006, the Irish Marine Institute plans to conduct or participate in the following surveys:

- i) Western IBTS Fourth Quarter Groundfish Surveys
- ii) Spawning/Pre Spawning Herring Acoustic Surveys
- iii) EU Atlanto/Scandian Herring and Blue Whiting Acoustic Survey
- iv) International Blue Whiting Spawning Area Acoustic Survey
- v) Bluefin tuna tagging

The proposed grids (not definitive) for surveys i), ii) and iv) are shown in Figures 1 to 3.

#### **i) Western IBTS 4<sup>th</sup> Quarter**

Ireland remains actively involved in the IBTS quarter 4 groundfish survey of western waters. Since 1998 Ireland has been the international survey co-ordinators for western waters, co-ordinating surveys between UK(Scotland), UK (England and Wales), Ireland, Spain and France within the ICES IBTS umbrella. Areas previously covered by Ireland in this survey are VIa (south), VIIa, VIIb, VIIg, and VIIj.

The western IBTS 4<sup>th</sup> quarter groundfish surveys are designed to comply with the protocols set out in the ICES IBTS Protocols Manual. Irish survey data are held on a Microsoft Access database. The data collected are reported to the appropriate working groups.

The survey effort and sampling design will generally be in continuity with the previous survey design. In 2006 Ireland will maintain the modifications to gear configurations reported to the IBTSWG<sub>2005</sub> and proposed by ICES SGSTG (2004), (use of rockhopper ground gear (Type D) in Division VIa), and recommended by the ICES WGSSDS (2004), (tightening of the fishing line on the clean ground gear (Type A)). The establishment of several new surveys in Western waters and consequent improved co-ordination through IBTS has resulted in several recommendations and

actions from the IBTSWG (ICES 2005) of direct relevance to the 2006 western IBTS 4<sup>th</sup> quarter groundfish surveys:

1. "The only gear used in the IBTS North Eastern Atlantic area that has not been intercalibrated with a second gear is the Porcupine Baca, an inter-calibration experiment with the Irish survey in Western Ireland is thus recommended. There is an internal request within the relevant institutes to move survey dates to facilitate this intercalibration."
2. IBTS recommended that FRS (UK (Scotland)) and MI (Ireland) continue to build on preliminary intercalibration studies and strongly encouraged further intercalibration in the overlapping survey areas.
3. Survey strata were revised in the Celtic and Irish Seas. IBTS also proposed that the revised bathymetric strata be extended northwards off the western coasts of Ireland and Scotland.
4. IBTSWG recommends that the national fisheries laboratories take all necessary measures to ensure that appropriate levels of expertise in fish taxonomy and identification are maintained.

These issues are addressed in the western IBTS 4<sup>th</sup> quarter groundfish survey program proposed by Ireland for 2006 as follows:

1. Four additional days are included to allow for temporal and spatial overlap between the Porcupine and West of Ireland surveys for intercalibration,
2. Two additional days are included to allow for temporal and spatial overlap between the UK (Scottish) and Irish surveys for further intercalibration,
3. Spatial coverage of particular strata has been redistributed between Member States contributing to the western IBTS 4<sup>th</sup> quarter groundfish surveys. Ireland has withdrawn from much of the Irish Sea (to be more extensively covered by the UK), and will redistribute this effort to the west coast of Ireland (extending the depth range surveyed down to 600 m),
4. A minor increase in resources is budgeted for to improve the quality of fish taxonomy and identification aboard the Irish survey.

The stratified design of the survey and the calculation of abundance indices allows these modifications to be incorporated without impact on the existing short time-series of data. The inclusion of deeper slope stations off the west coast of Ireland will provide previously unavailable data on the distribution and abundance of important species such as hake, megrim and anglerfish in an area of particular commercial importance.

Reference:

ICES 2005. Report of the International Bottom Trawl Survey Working Group (IBTSWG), 29 March – 1 April 2005, Hamburg, Germany. ICES CM 2005/D:05. 123 pp.

## **ii) Spawning/Pre Spawning Herring Acoustic Surveys**

In previous years, the sub-contract that was generally awarded to SeaBed Surveys International (SSI). Marine Institute was concerned that the increasing costs and lack of transparency in the analysis process and endeavoured to arrange for in-house processing of the data from 2005 onwards.

Two such surveys are conducted annually by the Marine Institute viz. VIaS and Celtic Sea herring acoustic surveys. In the Celtic Sea the time series spans 1990 to 2004. This series is used as a relative abundance tuning series for the assessment of the VIIaS, VIIg and VIIj herring stock at the ICES HAWG. For VIaS, the series only was begun in 1999 and to date insufficient data were available for tuning. However, by 2006, 8 years of data will be available for tuning, and the data will be incorporated in the assessment for that herring stock.

In 2006 (as in 2005) the Marine Institute will establish a sub-contract with NIWA Ltd., New Zealand \*\*\*, to conduct the acoustic surveys with MI staff, carry out biomass estimates and conduct a review of every aspect of the acoustic survey design. Variance estimates will be produced with a view to improve the performance of the time series in the assessments.

\*\*\* In previous years the Marine Institute had established a contract with Sea Bed Surveys Ltd. (Ireland) to carry out the acoustic surveys with MI and work up biomass estimates from these surveys. This annual contract amounted to €140,000. MI have now established a contract with NIWA, in the form of a study visit, where a senior acoustic scientist will come to MI, carry out surveys with MI acoustic team, work up biomass estimates and review survey design with a view to improved efficiencies in surveys. This new contract amounts to €70,000 and represents a considerable cost saving.

#### ***VIaS and VIIb Herring Acoustic Survey***

This survey covers herring in VIaS and VIIb (Figure 2). In some previous years, two surveys were conducted annually, to cover autumn and winter spawning components of this stock. However after a review of the data a decision was made to proceed with a single survey annually, in January. The timing of this survey has been found to coincide with peak spawning of the main (winter) spawning component. Survey protocols are carried out in accordance with the procedures outlined in the ICES PHERS.

In 2006, it is planned to use the *Celtic Explorer*, for the third time. The survey will be over 21 days, beginning in early January. In order to support the ecosystem approach to fisheries management, the survey will incorporate seabed mapping, whale, dolphin and seabird counting and CTD measurements at no extra cost to the Commission.

#### ***Celtic Sea Herring Acoustic Survey***

This survey covers herring in VIIaS, VIIg and VIIj. The survey has been conducted in the fourth quarter in recent years, though timing has varied somewhat. The Marine Institute intends to conduct a single survey spanning 21 days in the fourth quarter of 2006. It is unclear whether the *Celtic Explorer* or a commercial charter will be used. Costings are presented for the *Celtic Explorer*, and if a commercial charter is used, significant savings will be possible. Survey protocols are in accordance with the procedures outlined in the ICES PHERS. Areas covered are Divisions VIIj.g and VIIa south (Figure 2).

### **iii) Atlanto/Scandian Herring and Blue Whiting Survey**

In 2006, the Marine Institute will once again participate in this survey of herring and blue whiting in the Norwegian Sea in the second quarter. The likely survey vessel will be the *Dana* and Ireland will send a single member of staff on one half of the survey, amounting to 14 days of sea time. Ireland will also make a contribution to the 50% of national funding needed to conduct this survey by the Danish Institute of Fisheries Research (DIFRES).

### **iv) International Blue Whiting Spawning Area Survey**

This survey is an internationally coordinated one, involving EU and third countries (Norway, Faroes and Russia). Two EU MS participate viz. the Netherlands and Ireland. This survey takes place in March/April to the west of Ireland and Scotland. It is the only survey currently used in tuning the blue whiting stock assessment. The survey planning will be dealt with by ICES PGNAPES, taking place in Galway, Ireland, in mid August 2005.

After initial confusion, the priority 1 status of this survey is now confirmed. The Marine Institute will participate in the survey in 2006, using the Celtic Explorer for 21 days. The survey design and areas to be covered by Ireland will be set out at the PGNAPES meeting in August 2005.

### **Bluefin Tuna Tagging**

In 2006 Marine Institute will take part in the joint EU bluefin tuna tagging programme funded by the Data Collection Regulation. The goals of this programme were agreed at the Tuna Tagging Planning Group Meeting held at Bari between the 4<sup>th</sup> and 6<sup>th</sup> of April 2005. The Marine Institute's role in this joint programme will be to tag adult fish that occur off the Irish coast between August and November. Tagging will take place throughout this period but principally in September and October using charter angling vessels and pop up satellite tags. The results of the tagging will be used to resolve uncertainties in the stock assessment of Atlantic bluefin tuna.

### **Extended programme**

Ireland will seek funding under the extended programme for the *Nephrops* Survey (Nephrops Ecology in Divisions VIIa) designated as "Priority 2" status in Annex XIV of EU Commission Regulation 1543/2000. The proposed grids for the survey is shown in Figure 4. It will also seek funding for a deep water trawl survey in Division VII.

### ***Nephrops* Surveys (Nephrops Ecology in Divisions VIIa )**

The Marine Laboratory in Aberdeen developed fishery independent tuning and biomass datasets using underwater television (UWTV) surveys to estimate stock size from burrow densities. These surveys provide important data on *Nephrops* ecology. The ICES Advisory Committee for Fisheries Management (ACFM) have recommended that UWTV surveys should be used to provide biomass estimates for non-assessed and poorly assessed stocks.

Ireland (Marine Institute) and UK Northern Ireland (DARDNI) have successfully conducted joint *Nephrops* ecology/UWTV survey in August-September, 2003 and 2004. The results of these surveys were presented to WGNSDS and were put forward as a basis for future management advice by that WG. Ireland and UK Northern Ireland will repeat this survey as part NP in August 2005. Funding is sought in the under the extended programme in 2006 for the Irish leg of this joint survey.

The survey is based on a randomised fixed grid design with stations approximately 3 nautical miles apart. The numbers of stations depends somewhat on the randomisation of the grid and the numbers of stations close to or near boundaries. Station numbers between 140-180 could be expected depending on the starting point of the grid an example is shown in Figure 4. Ireland has budgeted for 12 sea days in 2006 to complete the survey grid.

**v) Deep Water Trawl Surveys**

The main fishing grounds for EU deepwater fishing are in Sub-areas VI and VII, west of Ireland and the UK. Ireland intends to resume deepwater surveys in this area in the 2006 programme. This survey will be coordinated with the UK deepwater survey of Sub-area VI. The Irish survey will be carried out in Sub Area VII to cover the main range of the slope fishery in VI and VII. The proposed survey would take place on the continental slope over a 14 day period according to arrangements to be agreed with the UK in coordination.

## **H Biological sampling of the catches : Composition by age and by length**

*Irish sampling requirements, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme for demersal, pelagic, Nephrops, deepwater and inshore stocks and discard species are presented in Tables 1-6. Where Ireland seeks an exemption from sampling the justifications for the exemption are also given.*

The role of the Marine Institute's Fisheries Science Services is to assess, research and advise on marine fisheries resources. This is carried out to allow these resources to be rationally exploited and managed in a sustainable way. FSS conducts a comprehensive monitoring programme in the waters around the Irish Coast, part of which includes assessing discard rates at sea.

Marine Institute is cognisant of the revised Regulation and its requirement to calculate sampling intensities on average catches over the most recent three years. Marine Institute considers that this will imply increased funding requirements and this is reflected in the budget submitted under Module H.

### **Sampling Protocols**

Samples collected for length and age are stratified by ICES Area, Quarter, and Species. Fish are taken from either graded or un-graded samples. When fish are sampled for measured only purposes from graded categories, samples across all size categories are recorded, and measurements are taken proportionally across the number of grades present for the sampling event. Sampling will be carried out in all the main fishery harbour centres.

*Nephrops* sampling is also carried out according to standard operating procedures and is consistent with other countries sampling protocols that also exploit these stocks. The Irish protocols ensure that the samples are representative of fleet activity in a month, this is especially important if the fishery is affected by tides, weather or other factors.

For *Nephrops*, in FU 15, 17, 20-22 the following is collected during the normal course of sampling

- A random basket of "unsorted catch", from any haul which has not been a foul haul.
- A random basket full of "discards", from any haul which has not been a foul haul.
- The discard sample contains discarded small *Nephrops* and heads if tailing is occurring.

All *Nephrops* data is collected electronically using the NEMESYS system (i.e. electronic calipers) and up-loaded to the STOCKMAN database.

For each stock the intended sampling level can be found in Tables 1 – 6 of the Irish submission. For other EU member states landings in Ireland, the sampling levels are also outlined in Tables 1 – 6. The sampling levels are based on the average of landings for the years 1999 – 2001, and as outlined in the Data Collection Regulation.

All measured only data is sent to the MI laboratory where it is entered onto the relevant database.

### **Aged Only Samples**

Samples are taken from either graded or un-graded samples. Wherever possible at least 10 otoliths/illicia per size class will be taken for each size class measured. The number of samples will also reflect the fishing activity and if there is a major shift in effort from one area to another this will be reflected in the numbers of otoliths/illicia taken. For each stock the intended sampling level is outlined in Tables 1 – 6.

Data will either be recorded manually or entered directly onto electronic data sheets. All aged data is sent to the MI laboratory where it is logged, then entered or uploaded onto the relevant database.

### **Age Reading Protocols**

All age reading is carried out according to Standard Operating Procedures, resulting from the various international otolith/illicia exchanges and workshops, and as outlined in their respective reports. All new or difficult species, such as anglerfish are read by two age readers, and random samples are exchanged with other European laboratories with existing expertise, in order to ensure the precision of the Irish age readings.

All age readings are entered onto the relevant database ready for reporting for the various working groups.

### **Discard Programme**

Collection of the discard data is carried out by FATs (Fisheries Assessment Technicians) and contracted at-sea samplers. There are three FATs based in Killybegs, Howth and Castletownbere. As well as covering the major fishing ports, the FATs and contractors are responsible for collecting data from other ports such as Union Hall, Kilmore Quay, Clogherhead, Dingle and Greencastle.

### **Discard Sampling Targets**

On the basis of the Data Collection Regulation sampling requirements each discard sampler is obliged to target specific fisheries i.e. a fleet operating in a particular area and targeting specific species. Discard Sampling targets for 2006 are based on the analysis of "Optimum sampling levels in the Irish discard program" using historical discard data collected by FSS. The targets are based on achieving levels of precision needed for discard sampling, maintenance of time-series of data, and previous sampling effort.

### **Minimum Programme**

Ireland currently undertakes biological sampling of the commercial catches (length and age), including discards, of the stocks from the north-east Atlantic listed in Appendix XV of the EU Commission Regulation 1639/2001.

Ireland intends to exceed the minimum program targets for all stocks given in Tables 1-6 in 2006. Further details of sampling methodology and exemptions in the Ireland programme are given below by stock grouping.

### **Precision Levels and Sampling Intensities**

In accordance with Chapter 1 B of Regulation 1639/2001, quantitative targets for length, age and discard sampling are defined directly by sample sizes and sampling rates rather than by the definition of the levels of precision and confidence to be achieved.

The sampling proposed by Ireland in 2006 for length and age for certain species intentionally exceeds the levels required under the MP specification of the DCR. This is because Ireland is following STECF-SGRN recommendations in planning for sampling levels for these species, (i.e. based on levels achieved in the past for species where the DCR levels were believed to be too low). Specifically STECF-SGRN concluded “for the time being, it is prudent to maintain the present sampling levels until there is sufficient evidence that a reduction in sampling frequency or in sample size will not affect significantly the quality of the stock assessments” (STECF SGRN Report July 2003)

Ireland has tested the validity of this approach for a number of stocks (see Technical Report – Irish National Program, 2003). A comparison was made between the CV in numbers-at-age realised by actual levels of Irish sampling and the precision achievable by sampling at the intensities defined under the MP of the DCR. The analysis indicated that, when sampling to a level specified under the MP of the DCR:

- Sampling intensity can be grossly inadequate,
- Sampling levels are sometimes so low that the probability of sampling fish from the extremes of the length distribution is often zero.
- Highest CV's in the catch numbers are sometimes coincident with the most abundant age in the catch.

The sampling strategy proposed by Ireland in its 2006 National Programme is consistent with that used in the 2004-5 National Programmes:

The minimum quantitative sampling targets are calculated using the sampling intensities specified in Annex XV of Regulation 1639/2001. The Irish national program views these sampling targets as minimum thresholds. Sampling is stratified spatially and temporally by applying the distribution of landings by port and month over the last three years to the agreed sampling levels. Irish Department of Communications, Marine and Natural Resources (DCMNR) landings data were analysed by month and port to identify the important periods and places of landing for each stock. For some pelagic stocks and deepwater species the distribution of landings has changed markedly over the last few years. The most appropriate distribution of landings was therefore used.

It is expected that proposed revisions to the Data Collection Regulation will require precision to be estimated on data collected under Module H. In 2004 Ireland developed a methodology to meet these requirements and will be in a position to apply it to the data collected in 2005 and 2006 if required for the technical report.

### **Sampling of Foreign Landings**

“Sampling of foreign flag vessel landings for length and age is one of the requirements of the DCR. According to the current provisions of the DCR, this sampling should be done at the port of landing (section H.1.c. of EU Regulation 1639-2001). This may pose logistic problems, especially when the port of landing differs from the port of first sale, e.g. when the landings are transferred in the port of landing to refrigerated lorry, for transportation to an auction in the flag country of the vessel.

In its December 2003 report, SGRN noted that the issue of foreign flag vessel sampling is often very inadequately covered by the National Programme proposals and that it could be improved by better task sharing between the countries involved. SGRN also suggested that the problem be resolved by bilateral agreements between the flag country of the vessels concerned and the countries where the landings are taking place. These agreements could then be included as part of the National Programme submissions of the two parties, as proof of the action that is / will be undertaken”. (RCM – DCR North East Atlantic Area, September 2004)

Ireland will follow the recommendations of both SGRN and the North East Atlantic RCM which recommend that foreign landings be sampled in the country of first sale. As a first step Ireland has begun the process of agreeing and implementing Bi – lateral agreements with other EU countries to better co – ordinate this sampling effort. An example of one such agreement is included in Annex II.

### **Demersal Stocks**

Table 1 gives the demersal stocks that require sampling of length and age under the *minimum programme*. Historical sampling levels for most of the demersal stocks meet (and often exceed) the requirements of the minimum programme.

In some stocks the levels of Irish landings and TAC do not exceed the thresholds above which sampling is required. Calculation of commercial CPUE tuning indices for these stocks requires that they continue to be sampled at the levels of previous sampling to maintain historical consistency in the CPUE tuning series. The Irish National Programme has therefore not sought an exemption from sampling such stocks under the minimum programme.

At the PGCCDBS (Planning Group On Commercial Catch, Discards And Biological Sampling) meeting March 2005, it was agreed that Ireland would be tasked with the coordination of the 2005 International Cod otolith exchange. This is a wide reaching exchange to encompass all areas. Based on the results of this exchange a Cod Age Reading Workshop may be convened in 2006, which Ireland will host.

### **Pelagic Stocks**

Table 2 shows the minimum sampling programme for the pelagic stocks. In the case of all herring stocks the numbers of samples, and fish aged and measured exceed the minimum requirements. It is not the intention to decrease the sampling levels on these species as the current sampling programmes can be maintained without requiring additional funding. In the case of Atlanto-Scandian herring, Ireland is not obliged to

carry out a sampling programme because of the level of catches in relation to the total EU catch of these species. Ireland intends to meet the minimum sampling requirements for blue whiting. The Irish programme for mackerel and horse mackerel will meet the minimum requirements. The programme for albacore tuna will need to be increased considerably in order to meet the minimum requirements. This may require considerable time at sea.

In order to ensure precision of age estimates, Ireland will participate in one age reading workshops in 2006. This workshop is being organised, under recommendations from ICES - PGCCDBS. A Horse mackerel ageing workshop will take place in the Netherlands. Ireland will send two technicians to this workshop. Ireland proposes to host an ageing workshop

### ***Nephrops* Stocks**

The sampling requirements, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme *Nephrops* stocks around Ireland are presented in Table 3. Ireland intends to exceed the requirements of the minimum programme in 2006. The total target effort will be at least 148 samples (as defined below) of at least 200 individuals from the six FUs and two management areas outlined in Table 3.

### **Exemption Rules for *Nephrops***

In the Regulation there is mismatch between the geographical disaggregation levels for the collection of *Nephrops* data (viz. the Functional Units) and the geographical areas that are used in the exemption rules (viz. the TAC areas). EU Member States can now apply for a derogation and be exempt from the obligation to gather length composition data on their *Nephrops* catches, landings, etc., (a) when their share in an area TAC is less than 5 % or (b) when their landings from that area are less than 100 t on average during the past three years. Sampling these landings will be difficult given their insignificance compared to landings from other areas. Therefore, Ireland requests and exemption from the obligation to collect length composition data on catches and landings in Sub-area VI since Ireland's quota is 1.3% of the EU share of the TAC. Ireland is obliged to collect length composition data from all the FU in Sub-area VII and from landing taken outside current FUs.

### **Definition of a *Nephrops* sample in the Irish Programme**

*Nephrops* sampling for many stocks around Ireland is complicated by the fact that *Nephrops* maybe landed either graded whole or as graded tails. Proportions of the catch landed as tails varies considerably by landings depending on several factors. Therefore in the case of the Irish Sea West stock (FU 15) the following 'two part sampling methodology' has been in place for many years: An unsorted 'catch sample' and an unsorted 'discard sample' (which includes heads from *Nephrops* which are landed as tails) is obtained either at sea or from vessels as they land.

The small *Nephrops* discards and the heads in the 'discard sample' are then used to calculate a discarding ogive on a quarterly basis. The unsorted 'catch sample' and unsorted 'discard sample' contain elements of landings and discards in varying

proportions. In the Irish programme these are considered independent samples for the purposes of Appendix XV(a).

Sampling effort will determine cost of the Irish *Nephrops* sampling programme since the time and costs of measuring increased numbers of individual in a sample is negligible given the time and costs of obtaining and sorting 'catch' and 'discards samples'. In accordance with Section H.1.b of the Regulation Ireland intends measure in excess of the sampling levels defined in Appendix XV(b).

Ireland intends to implement the above 'two part sampling methodology' for *Nephrops* stocks in FUs 14, 15, 17 and 20-22 in the 2006 programme. For other stocks such as FU 16 or FU 19, where *Nephrops* are mainly landed whole, unsorted catch samples and landings samples will be obtained according to the effort and sampling levels outlined in Appendix XV.

### **Deep-water Stocks**

Table 4 gives the deep-water stocks that require sampling of length and age under the minimum programme.

Ireland implemented a comprehensive observer programme, carried out by the Marine Institute. This work is carried out in fulfilment of Council Regulation 2347/2002. However, due to the very low quotas available to Irish vessels fishing deepwater species, the Marine Institute has decided to discontinue its deepwater observer scheme in 2006.

### **Sampling of elasmobranchs**

The main elasmobranchs taken in Irish fisheries are rays and spurdog. At least six ray species are caught by Irish vessels, but at present landings data are not available at a species level because they are landed together. This presents difficulties for obtaining representative samples for length. Samples will be identified to species level and the proportions will be used as a key to disaggregate national landings data.

In sub-area VI Ireland takes 13% of international landings of rays and in sub-area VII 20% of international landings are Irish. In view of the difficulties in obtaining length samples of each of the species in the landings it is necessary to sample at a higher frequency than stipulated in the current regulation. Sampling for length of the ray species is the only way in which landings can be disaggregated to species level, as required in Annex XVI of the Commission Regulation. The sampling comprises 4 species in Division VIIa, 5 species in Division VIIg-h and Sub-area VI and 6 species in Division VIIb-k.

For spurdogs, length sampling will be carried out in Sub-area VII. Ireland takes only 3% of the catches in Sub-area VI but 17% in Sub-area VII. In order to obtain reasonable length frequencies for this species it is necessary to sample both sexes.

### **Other Stocks**

Table 5 gives sampling requirements for other (mainly inshore) stocks for which Ireland has a small catch. Brown crab, Lobster, Razor Shells and Whelk need to be sampled to meet the requirements of the *minimum programme*.

### **Eels**

The sampling of eels is included in (EC) No 1581/2004. However, the nature of the sampling is not well specified in the Regulation 1581/2004. The EU will hold a special Workshop on national data collection for the European eel in Stockholm, Sweden in September 2005. Ireland will participate at this Workshop and modify its national programme accordingly.

### **Discard Sampling of demersal fisheries**

Ireland samples discards using a fleet-based sampling approach. Because of the fishery-specific nature of discarding practices the Irish discard sampling effort is distributed within particular fisheries where discarding is considered to be a major problem. This sampling strategy is considered to be more efficient than simple random sampling as it yields more robust estimates of discarding rates in the high-discard fisheries. In 2006 the program includes increased sampling effort for species in pelagic fisheries.

Discards are currently monitored for most of the stocks in Annex XII of Regulations 1639/2001 and 1581/2004. The discard-sampling programme is designed to meet the criteria for the *minimum programme*. Due to the nature of the Irish discard sampling strategy the discard sampling effort required under the minimum programme is not calculated by applying the sampling intensities specified in Annex XV of Regulations 1639/2001 and 1581/2004 to the estimates of discarded catch. Instead, all discarded species are sampled randomly. Previous analyses of discard sampling intensities indicate that this sampling practice is in conformity with the intensities required under Annex XV.

Irish discard data have been made available international stock assessment working groups.

In 2006, Ireland will continue a self-sampling project in the Irish Sea *Nephrops* fishery. This project (ECONEPH – See Annex III) will be conducted with co-operation of the Irish Industry (Irish Fish Producers Organisation) and will involve several vessels providing samples of discarded catch on a monthly basis. This project is modelled on the discard sampling programme carried out by Belgium under the Data Collection Regulation. Reported discarding levels will be validated by dedicated discard observer trips on vessels in this fleet.

### **Discard sampling of pelagic fisheries**

Ireland has not conducted any recent studies of discarding in pelagic fisheries. No pilot studies of pelagic discarding were conducted in the first three years of the DCR either. This is because of lack of staff resources for sea time or ageing and processing the otoliths.

In 2006, Ireland intends to conduct 12 trips per year on fisheries for the following stocks:

- Mackerel combined stock
- Western horse mackerel
- VIaS herring
- Celtic Sea herring
- Blue whiting combined stock

In addition to these trips, it is hoped that some additional time will be spent collecting information from processors and fishermen to enable an estimation of discarding in these fisheries. In order to comply with recent EU legislation on observers for cetacean by-catch in pelagic fisheries, the Marine Institute intend to adapt the above discard sampling scheme to monitor cetacean by-catch also.

### **Recreational fisheries**

Ireland has a very small and developing recreational fishery for blue fin tuna (see Module E)

A pilot blue fin tuna fishery (rod and line – fish returned) has been established off the west coast in the late summer period. However, this fishery has only developed since 2001. Extensive cod recreational fisheries exist in Ireland and biological data from these fisheries will be collated as part of the work being conducted with the Central Fisheries Board and the Cork Sea Angling Club (see Module E).

### **SPECIAL COMMENT**

Overall projected personnel costs for the MP in this module in 2006 are 31 % higher (€1,162,371 in 2006; €811,784 in 2005). The 31 % increase is due to salary increases associated with national pay agreements (see introduction). It is also due to the real staff costs of delivering the national programme, which have only become apparent through the experience of delivery in 2003 to 2005. In order to deliver on the requirements of the programmes in those years, staff worked excessive hours (contrary to the EU Working Time Directive). This excessive work resulted in accrual of lieu leave, which could not be taken, if the programmes were to be delivered. During 2005, several meetings were held to evaluate the real staff costs associated with the DCR, drawing on the experience gained from the earlier work. These new estimates of real salary requirements explain the 29% increase.

### **Port Contract Samplers**

These are locally, part time employed personnel who are based in the fishing ports. They sample fish landings (length only) under the DCR. Sampling is co-ordinated by the Senior Laboratory Technicians at the Marine Institute.

### **Remote Age Sampling**

This relates to quarterly port visits by Marine Institute Staff to secure age samples of landings for age reading purposes.

## **I Other Biological Sampling**

### **Minimum Programme**

#### **Sampling Requirements**

The stocks that require sampling by Ireland during the period 2005-7 are listed in **Table II**. Biological parameters for all stocks that require tri-annual updating were provided for 2004 and do not need to be updated until 2007. However, with the current system of triennial and six-yearly updates, data may be collected throughout the whole period of three or six years, while the actual updates may be made once every three or six years. Biological parameters for *Nephrops* will be updated for the sampling-year 2006.

#### **Maturity sampling 2006**

Maturity sampling of gadoids and flatfish was concentrated off the west coast of Ireland in 2005. In 2006 sampling off the west coast will continue, in order to improve precision levels. Wherever practical, Ireland will endeavour to coordinate sampling and maturity data for stocks in the Celtic and Irish seas and west of Scotland with Northern Ireland, Scotland, England & Wales and France.

#### *Cod, Megrim, Sole*

These species mature in a size range that overlaps with the commercial catches. During the spawning season, fishermen will be requested to land samples of these ungutted (with the gonads intact). These samples will be bought at the market value and will be measured, weighed, aged, sexed and have their maturity stage determined. Such a sampling programme is dependent on goodwill and co-operation of the fishing industry and may be difficult to co-ordinate, nevertheless Ireland will pilot this sampling programme in 2006.

#### *Haddock, whiting, plaice*

These species start maturing at small sizes, at which they are not caught in significant numbers by commercial gear. These species are locally quite abundant and sufficient sample numbers might be obtained relatively quickly. In 2006 Ireland, through a sub-contract, will purchase maturity fish samples, which will be ungutted of the required size and species, taken from specified areas in Q1

#### *Saithe*

Ireland requests derogation for the maturity sampling of saithe, as this species is rare on surveys and difficult to obtain in market sampling in Sub-area VII making sampling for maturity and growth parameters impossible.

#### *Rays*

The maturity stages of rays caught during the Q4 IBTS groundfish survey (covering VIaS, VIIbgj) will be recorded. Additional sampling will take place during maturity sampling for gadoids and flatfish.

### *Anglerfishes*

Ireland will continue to collect maturity and growth data for anglerfish but mature females and larger individuals in particular are rare in surveys and commercial landings, making sampling to achieve specified precision levels problematic and excessively expensive. Ireland will opportunistically sample anglerfish for maturity on ongoing and new survey programmes in 2006.

### *Orange roughy*

Should the TAC or landings fall below the threshold where sampling is required then Ireland will apply for derogation from sampling this species in 2006.

### *Herring*

Herring will be sampled as part of the North-West and Celtic Sea Herring Acoustic Surveys. Random samples will be taken from trawls for determination of length, weight, age, sex, and maturity stage. Herring will also be sampled during groundfish surveys. The groundfish gear tends to catch a larger proportion of the immature component of the stock than the pelagic gear used on the acoustic surveys.

### *Mackerel and Horse mackerel*

Biological parameters of Mackerel and Horse mackerel are assessed on a tri-annual basis as part of the internationally coordinated Mackerel and Horse Mackerel Egg Survey Programme. Random samples of both species are taken from trawls for determination of length, weight, age, sex and maturity stage and ovary samples will be selected for fecundity determination. The next survey programme is planned for 2007. During 2006, maturity will be recorded for mackerel and horse mackerel caught on groundfish surveys.

### *Blue whiting*

Biological sampling of blue whiting will take place during the internationally coordinated Blue Whiting Acoustic Survey Programme. Random samples will be taken from trawls for determination of length, weight, age, sex and maturity stage. Additional sampling will take place during maturity sampling for gadoids and flatfish.

### *Edible crab*

Sampling of edible crab will take place during the spawning season in August and September. Female crabs will be examined externally for presence of eggs and sperm plugs; cheliped width will be recorded for males. Both sexes will be examined for the development of the gonads.

### *Nephrops*

A biological sampling programme for *Nephrops* has been coordinated by members of the Working Group on Nephrops Stocks, WGNEPH. Ireland will conduct sampling for maturity in Functional Units 17 and possibly 18-19, depending on sample availability. These samples will be augmented in 2006. The maturity stage of the ovaries will be examined and the presence of spermatophores will be recorded. For males the *appendix masculana* will be measured.

### Sex ratio sampling in 2006

Sampling for sex ratio will be done as part of the maturity sampling, additional information will become available from the autumn groundfish survey, herring acoustic surveys, blue whiting survey, orange roughy survey and *Nephrops* routine catch sampling. The sex ratio of edible crab cannot effectively be determined, as the sexes are not equally vulnerable to the fisheries.

### Growth sampling in 2006

Growth parameters will become available from the sources mentioned above and from sampling of landings and discards.

### Extended Programme

With the current system of triennial and six-yearly updates, data may be collected throughout the whole period of three or six years, while the actual updates may be made once every three or six years. Therefore all the planned sampling falls under the MP.

**Table II.** Stocks for which Ireland reported landings over the period 2002-4 which are mentioned in Appendix XVI of the DCR. For species that have no TAC, landings data were used to evaluate the sampling requirements. Stocks for which the average TAC over the last three years was less than 200 tonnes or less than 10% of the EU share do not require sampling.

Species	Area	TAC/ Land	Stock	>200 tonnes	>10% EU share	sampling required
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#### ICES area I, II

Herring	IIa, V	TAC	I, II	Yes	No	No
Cod	I, II	TAC	I, II	Yes	No	No

#### North Sea and Eastern Channel ICES areas IV, VIIId

Mackerel	IV, VIIId	TAC	NEA	Yes	Yes	No <sup>1</sup>
Horse Mackerel	IV, VIIId	TAC	IIa,IV	Yes	No	No

#### North-east Atlantic and Western Channel ICES areas II, V, VI, VII (excl d), VIII, IX, XII, XIV

Scabbardfish	IXa, X	Land	IXa, X	No		No
Edible crab	All areas	Land	All areas	Yes		Yes
Herring	VIa, VIIabcj	TAC	VIaS,VIIbc	Yes	Yes	Yes
		TAC	VIIghjk	Yes	Yes	Yes
		TAC	VIIa	Yes	Yes	Yes
Roundnose grenadier	All areas	TAC	Vb, VI, VII	Yes	No	No
Cod	VIa, VIb, VIIa, VIIb-k, VIII, XII, XIV	TAC	Vb,VI,XII,XIV	Yes	Yes	Yes
		TAC	VIIa	Yes	Yes	Yes
		TAC	VIIb-k,VIII,IX,X	Yes	Yes	Yes
Lobster	All areas	Land	All areas	Yes	N/A	Maybe
Orange roughy	All areas	TAC	VII	Yes	Yes	Yes
Four-spot megrim	Vb, VI, XII, XIV, VII, VIIa-e, IX, X	TAC	VII	No		No <sup>2</sup>
		TAC	Vb,VI,XII,XIV	No		No <sup>2</sup>
Megrim	Vb, VI, XII, XIV,	TAC	VII	Yes	Yes	Yes <sup>2</sup>

<sup>1</sup> This is part of the NEA population that migrates into the North Sea

<sup>2</sup> TAC / Landings not specified, species composition from surveys was applied

	VII, VIIIa-e, IX, X	TAC	Vb,VI,XII,XIV	Yes	Yes	Yes <sup>2</sup>
Anglerfish	Vb, VI, XII, XIV, VII, VIIIabde	TAC	Vb, VI, XII, XIV	Yes	Yes	Yes <sup>2</sup>
		TAC	VII	Yes	No	No <sup>2</sup>
Black-bellied angler	Vb, VI, XII, XIV, VII, VIIIabde	TAC	Vb, VI, XII, XIV	Yes	Yes	No <sup>2</sup>
Black-bellied angler	VIIIc, IX	TAC	VII	Yes	No	No <sup>2</sup>
Haddock	Vb, VI, XII, XIV	TAC	Vb,VI,XII,XIV or Vb VIa	Yes	Yes	Yes
Haddock	VIa, Vb, VIIa, VII, VIII, XII, XIV	TAC	ad hoc VIIa or VII,VIII,IX,X	Yes	Yes	Yes
		TAC	VII,VIII,IX,X	Yes	Yes	Yes
Whiting	Vb, VI, XII, XIV, VIIa, VIIIb-k, VIII	TAC	Vb,VI,XII,XIV	Yes	Yes	Yes
		TAC	VIIa	Yes	Yes	Yes
		TAC	VIIIb-k	Yes	Yes	Yes
Hake	IIIa, IV, VI, VII, VIIIab, VIIIc, IXa	TAC	Vb,VI,VII,XII,XIV	Yes	No	No
Blue whiting	I-IX, XII, XIV	TAC	Vb,VI,VII,XII,XIV	Yes	Yes	Yes
Ling	All areas	Land	All areas	Yes	No	No
Norway lobster	Functional unit	TAC	Vb,VI	No	No	No
		TAC	VII	Yes	Yes	Yes
Common scallop	VIIId	Land	VIIId	No		No
Plaice	VIIa, VIIe-g	TAC	VIIa	Yes	Yes	Yes
		TAC	VIIIfg	No	Yes	No
Saithe	Vb, VI, XII, XIV	TAC	Vb,VI,XII,XIV	Yes	No	No
Saithe	VII, VIII	TAC	VII,VIII,IX,X	Yes	Yes	No <sup>3</sup>
Blonde ray	All areas	Land	All areas	No		No <sup>2</sup>
Thornback ray	All areas	Land	All areas	Yes		Yes <sup>2</sup>
Spotted ray	All areas	Land	All areas	Yes		Yes <sup>2</sup>
Cuckoo ray	All areas	Land	All areas	Yes		Yes <sup>2</sup>
Other rays and skates	All areas	Land	All areas	No		No <sup>2</sup>
Mackerel	II, IIIa, IV, V, VI, VII, VIII, IX	TAC	NEA	Yes	Yes	Yes
Redfishes	Va, XII, XIV	TAC	V, XII, XIV	No	No	No
Cuttlefish	VIIIc, IXa	Land	VIIIc, IXa	No		No
Sole	VIIaefg, VIIIab	TAC	VIIa	No	Yes	No
		TAC	VIIIfg	No	No	No
Sole	VIIbc, VIIhjk, IXa	TAC	VIIbc	No	Yes	No
		TAC	VIIhjk	Yes	Yes	Yes
		TAC	Vb,VI,VII,XII,XIV	No	Yes	No
Horse mackerel	IIa, IVa, V, VI, VII, VIII, IX	TAC	NEA	Yes	Yes	Yes
<b>Highly migratory species, Atlantic, Indian, Pacific Ocean</b>						
Albacore	Atlantic, N of 5°N	TAC	Atlantic, N of 5°N	Yes	No	No

<sup>3</sup> Landings figures are inaccurate, derogation requested

## **Module of evaluation of the economic situation of the sector**

*The collection of economic data in relation to EU Commission Regulation 1639/2001 was postponed until 2004. Ireland did not seek funding for 2002 and 2003 under EU Commission Regulation 1639/2001 to collect data for basic economic evaluation.*

*Ireland has been collecting some economic data between 2002 and 2005 under various pilot projects (nationally funded) and these pilot programmes will continue in 2006. These data sets will be evaluated for the 2005 Technical Report (quality and coverage).*

### **J Collection of economic data by groups of vessels**

Bord Iascaigh Mhara (BIM) – the Irish Sea Fisheries Board – is responsible for the collection of economic data from the Irish fishing fleet as defined in article 6 and appendices XVII and XVIII of Commission Regulation 1543/2000.

With reference to this pilot project and EC Regulation 1543/2000 the programme for the collection of economic data proposed for 2006 is similar to 2005 and is set out below.

#### **2006 Sampling strategy**

Building on the experience gained in 2003 to 2005, in particular the shortcomings that arose when the provision of data is voluntary, participation in the 2006 programme will be ‘obligatory’. That is, each vessel identified for the survey will be required to make a return under the terms of the Data Collection Regulation, by a pre-assigned date. In addition, the details of each return are to be verified by a competent professional, i.e. the individual owner’s or company accountant.

#### **General Sampling strategy**

The national programme for collection of economic data will be based on the following data sources:

- Fleet register information from the Department of Communications, Marine and Natural Resources (DCMNR)
- Log sheet information from the DCMNR.
- Questionnaire information returned from vessel owners on a voluntary basis.

To ensure the highest possible standard of survey results whilst recognising the time & cost associated with a complete census of all vessels, the fleet will be divided into two distinct populations; the offshore fleet (vessels with an overall length of 12 metres or greater), and the inshore fleet (less than 12 metres). A different sampling strategy will be employed for each. The offshore fleet will be divided into subpopulations based on overall length and former MAGP sector as shown in Table J1.

*Table J1: stratified sample by vessel group according to vessel overall length and MAGP segment (vessels over 12m).*

<b>Size</b>	<b>Sample Frame</b>	<b>Sample size</b>	<b>Percentage</b>
Polyvalent	380	380	100%
Beamers	6	6	100%
Pelagic	22	22	100%
-----			
Total	408	408	100%

The inshore fleet sample selection will be based on data collected from the pilot project 2003 and an earlier survey carried out by Bord Iascaigh Mhara in 2001, where the fleet was sampled on the basis of fishing techniques. The main fishing technique of the vast majority of these inshore vessels is potting. Rather than subdivide this group on vessel length - which is a poor economic indicator for inshore potters - this section will be stratified based on the number of pots fished. The sample will also be stratified regionally, based on the 2001 Bord Iascaigh Mhara inshore survey (see Table J2).

*Table J2: Stratified sampling of inshore fishing vessels based on region and number of pots fished.*

<b>Region</b>	<b>Pots fished</b>	<b>Sample Frame</b>	<b>Sample size</b>	<b>Percentage</b>
<i>North / Northeast</i>	<30	101	20	20%
	30 – 299	244	37	15%
	300 – 599	109	22	20%
	> 600	39	16	40%
<i>West</i>	<30	11	6	50%
	30 – 299	217	33	15%
	300 – 599	84	25	30%
	> 600	37	11	30%
<i>South / Southwest</i>	<30	18	13	70%
	30 – 299	48	20	42%
	300 – 599	93	20	22%
	> 600	70	21	30%
<i>Southeast</i>	<30	136	20	15%
	30 – 299	67	20	30%
	300 – 599	32	19	60%
	> 600	9	5	50%
<i>East</i>	<30	13	7	50%
	30 – 299	70	21	30%
	300 – 599	39	20	50%
	> 600	10	5	50%
-----				
Total		1558	414	27%

### **Data collection practice**

While the survey questionnaire has been developed during the pilot project to comply fully with the extended programme of data collection as defined in Appendix XVIII, the success of the survey depends ultimately on the cooperation of the fishermen.

Bord Iascaigh Mhara will ensure the best possible outcome by consulting the relevant fisheries organisations and by advertising the survey in the national fisheries trade press.

The majority of the survey information will be collected by face-to-face interviews with vessel owners. All offshore survey interviews will be complete by the end of July, with the inshore survey being completed by end of September.

## **Database Development**

- *System Overview*

The National Database for Economic Data will be designed to permit users to store and analyse all relevant data currently available (ie fleet register, logbook data etc) along with the data to be collected in the survey. The system will be designed to ensure that when accessing information or exporting information to outside parties all data imported/exported will comply with current data regulations.

To comply with Articles 9 to 11 of the regulation, a stand-alone application will be developed that allows staff conducting the interviews on the coast to submit all data via a Visual Basic front end to a temporary Microsoft Access database residing on their local computer. This information can subsequently be uploaded to a centrally located MS SQL Server database that mirrors the temporary Access databases. All error checking and data validation is done via the application front end.

In addition work will be conducted over the course of 2006 to enable efficient data exchange between the databases developed by BIM and the Marine Institute to move towards an integrated bio-economic database. This commencement of this development project was delayed in 2004 due to it becoming evident that there was a requirement to have a Fisheries Economist in place to direct and manage this process. The economist is scheduled to be recruited towards the end of 2005 and it is expected that the project will then get underway in earnest in 2006

## **Summary of functions of the Database**

- Maintain details of all the vessels in the system  
Details such as Vessel Code, Length, Depth, Tonnage etc
- Import records from other data sources  
Ensure that the system is developed in such a way that it can import information provided by other data sources, Fleet register, log-book
- Export information  
The functionality to provide information that is correct and compliant with data collection regulations
- Functionality to produce relevant reports for analysing data  
A list of reports will be designed that may be automatically generated after data collection in any given year is complete
- Record details of vessel crews  
Add details of crew's status (e.g. Skipper, Deckhand etc), age, nationality etc.
- Record Vessel Expense details  
Food, Boxes, Ice, etc.

- Record Revenue details (Gross Earnings)  
Gross earnings for the year, both from fishing and other non-fishing revenue
- Record Dues and Levies Information  
Landing dues, Auctioneer's commission, PO levy etc
- User friendly system  
Provide an uncomplicated user friendly front end for the system to allow the users to easily perform the required tasks. The front end of the system should be as straight forward as possible ensuring that the user doesn't get confused.
- Flexibility  
Ensure that the system can accept several datasets from the regional databases. The system should be easily modified to allow other information to be easily added to the system e.g. Logbook Information, various surveys carried out by the vessels.

### **Data Storage and Reporting**

When the survey is complete and all information has being entered to the central database, it will be possible to extract any data requested by the Commission within 20 working days as stipulated in Article 10(2) of the regulation. The data will be stored in aggregate format only and it will not be possible to identify individual vessels. At present there is no proposed plan to make this information available remotely via the internet or any other medium but the feasibility of this will be assessed over 2006.

Data output from the database will be used to formulate the following reports:

- An economic assessment of each individual fishing boat
- A fishermen's handbook, which will summarise all the information collected on all sectors of the fleet
- A report for the Commission.

## **Module K Collection of data concerning the processing industry**

Pilot programmes (Nationally Funded) are in place to collect data in line with information set out in Appendix III and XVII of EU Commission Regulation 1639/2001.

### **Minimum Programme**

Ireland will continue to conduct pilot surveys (Nationally Funded) in 2006, to assess the annual value per sector of the parameters listed in Annex XIX of EU Commission Regulation 1639/2000.

These will be reported in the Technical Report for 2005.

### **Extended Programme**

No further economic data collection programmes will be started until the criteria for the Minimum Programme can be met.

## **Co-ordination – Meetings and Workshops**

### **Scientific Planning and Co-ordination meetings**

During 2006, Ireland will participate fully in the following ICES planning and co-ordination meetings and ageing exchanges which are directly related to data collection requirements under Commission Regulation (EC) 1639/2001.

Table 7 lists the meetings which are eligible for funding under the DCR. (It should be noted that this Table is provisional and will change as the meetings for 2006 are finalised later in 2005).

### **IBTS**

Ireland has been actively involved in the IBTS quarter four groundfish survey and are co-ordinating surveys between UK, Ireland, Spain and France within the ICES International Bottom Trawl Survey Working Group IBTS (see Module G). In 2006 Ireland will send one participant to the IBTS meeting.

### **Study Group on Survey Trawl Standardisation (SGSTS)**

This Study Group is focused on minimizing survey variability in order to develop accurate and reliable time series of survey abundance indices. It follows the ICES mandate that all users of survey gears within ICES should develop a programme of standardization. Ireland will send one participant to this Study Group. A date and venue for this meeting has yet to be agreed.

### **Workshop on Survey Analysis and Design (WGSAD)**

Two Irish participants will attend this working group which informs scientists in designing surveys and analysis of abundance estimates. A date and venue for this meeting has yet to be agreed.

### **PGHERS**

Ireland will send one participant (STO) to the Planning Group On Herring Surveys (PGHERS) at a venue not yet decided. This working group will take 6 days between participation and travelling.

### **PGCCDBS**

Ireland will send two participants the ICES Planning Group on Commercial Catch, Discards and Biological Sampling which will take place in 2006.

EU Member States were requested by PGCCDBS to include in their 2005 National Program Submissions (under International Co-ordination) attendance at the following workshops:

### **WGMEGS**

In 2006 there will be a WGMEGS meeting in Vigo to plan the 2007 International Mackerel and Horse Mackerel Egg Survey. One scientist from Ireland will participate in order to plan the Irish participation in the Survey Programme.

## **WGNEPH**

In 2006 Ireland will send one scientist to the newly formed sub-meeting to work on TV survey methods, coordination, count comparisons, developments etc. The meeting will be held in Crete.

## **PGNAPES**

In 2006 Ireland will host this planning group

### **Ageing exchanges**

Ireland supports the recommendation of the STECF Subgroup on Research Needs, in its evaluation of the all national programs for age reading, "strongly recommends that work related to the age reading quality, such as the estimation of precision and accuracy of the age readings from age structure exchanges and reading workshops be encouraged in future NP submissions".

Ireland will participate in the following ageing exchanges and workshops in 2006:

### **Horse Mackerel**

In 2006 Ireland will send 2 technicians to participate in the horse mackerel, *Trachurus trachurus* Age Reading Workshop proposed for the Netherlands.

### **International Cod Exchange**

At the PGCCDBS (Planning Group On Commercial Catch, Discards And Biological Sampling) meeting March 2005, it was agreed that Ireland would be tasked with the coordination of the 2005 International Cod otolith exchange. This is a wide reaching exchange to encompass all areas. Based on the results of this exchange a Cod Age Reading Workshop may be convened in 2006, which Ireland will host.

### **Bilateral Agreements**

To maximise the efficient use of resources, bilateral agreements between Member States have been encouraged in respect of sampling of foreign landings. Ireland has signed a bilateral agreement with Scotland (See Annex II)

***Please Note that there may be more meetings to be held in 2006 under the DCR***

## Database Development

In 2006, under the Data Collection Regulation, Ireland will continue to develop its databases to establish multi-annual aggregated and science based datasets, which incorporate biological and economic information.

Ireland will provide data to the relevant international organisations engaged in stock assessment, namely, ICES, ICCAT, STECF and the EU in accordance with the specific rules and regulatory provisions of these organisations. The EU will be informed by Ireland on the transmission of any data and will be provided with a digital copy upon request.

In accordance with articles 9, Ireland shall ensure that all data collected under the Data Collection Regulation are dealt with in a confidential way and that all primary and aggregated data are housed and managed on computerised databases accessible by electronic means to the Commission and National Correspondents. .

### Data Base Development for 2006

Data from FSS port sampling is currently warehoused in STOCKMAN, which is a client-server relational database designed in SQL2000 with a VB6 graphical user interface (GUI). Other data, such as survey, discard and so on is presently housed in a number of Access 97 database on the Marine Institute's network.

The planned priorities for 2006 are as follows;

#### Stockman

- Complete incorporation of *Nephrops* data extraction module into STOCKMAN database.
- Complete incorporation of the new relational model to hold research survey data and associated queries. Modify the current Access97 and translate to SQL2000.
- Complete the new relational model to hold deep water survey data and associated queries. Modify the current Access97 and translate to SQL2000
- Address minor bugs encountered with the current GUI of STOCKMAN database
- Complete the current morphology module for entry of biological data to facilitate the extra requirements of the Data Collection Regulation. (fecundity is not currently included as an entry field. There is also a requirement for queries that will extract sampling precision, growth rate, maturity ogives and so forth).
- Complete work on remote/dial-up access to STOCKMAN, either for data entry from the regional or port based staff, or for interrogation of the data for

scientists working remotely at working groups or meetings commenced in 2005 will be further enhanced and completed in 2006.

### **Logbook Data Management System.**

- Further enhancements will take place in achieving a simple query interface.

### **DCR Control Exercise.**

- Collation of data from a variety of systems and the application of Codification Standards to achieve the delivery of output files in a standard format in XML format will be ongoing in 2006.

### **Discard Database**

- Work will continue on the discard database with plans to enhance the current system in relation to Skipper Reports Queries, Database Security, Data Entry validation and GIS export .

### **Survey Databases**

- A new survey database is to be established. Work will commence on agreeing the structure of the database, which will be informed by PGNAPES. It is expected that the database will be built in Q4 2005 and Q1 2006. Initially demersal load routines and extract queries will be put in place followed by testing. In the latter part of 2-006 plans to roll out the system to other areas will be drawn up.

Ireland will also continue work on an integrated bio-economic database. In light of work conducted by the Marine Institute on collection of biological data and by BIM on the collection of economic data, work will continue in 2006 to enable efficient data exchange between the databases developed by BIM and the Marine Institute to move towards an integrated bio-economic database.

## General Comments on the Data Collection Regulation

Council Regulation 1543/2000 established a community framework for the **collection and management of the data** needed to conduct the common fisheries policy. These comments are made with a view to stimulating debate on the new Data Collection Regulation and in the light of the revisions planned during 2005.

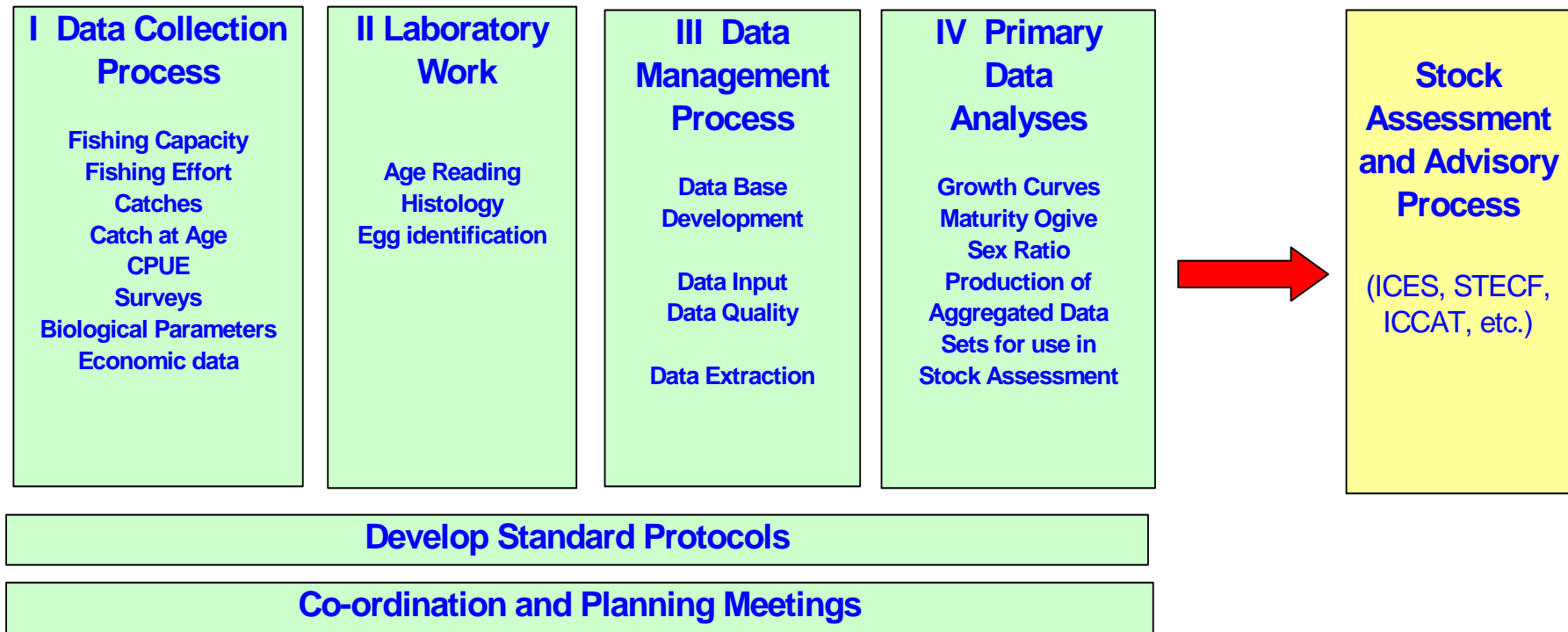
- (1) In May each year MS must submit a Technical Reports for the previous year, a cost statement of the previous year and their National Programme for the following year. This creates great pressure on MS at this time as the same people are generally involved in producing the three reports. National Programmes and Technical Reports should be submitted as three year programmes by 31<sup>st</sup> January. Cost Statements should be submitted annually 31<sup>st</sup> May.
- (2) This year eels and salmon were included in the DCR National Programmes. There was great confusion about whether this related to marine sampling only or whether freshwater sampling should be included in programmes.
- (3) There is a clear need for further work and guidelines on precision methodology.
- (4) There needs to be a review of Priority 1 Surveys. There needs to better co-ordination of surveys. As this is the largest cost to the Data Collection Regulation, perhaps MS should be given responsibility for surveys in specific areas and should take responsibility for co-ordination of the surveys within this area.
- (5) The annual meeting of National Correspondents established in 2005 is a very good idea and should be continued to discuss issues aimed at improving co-ordination of National Programmes.
- (6) The Regional Co-ordination Meetings established in 2005 should be continued. **This meeting should not get too technical or too detailed.** It should agree on an approach or set of principles that would be followed up in the implementation of National Programmes.
- (7) There is also an issue with the relationship between a regional co-ordination group and ICES Planning Group on Commercial Catch, Discards and Biological Sampling (PGCCDBS). Perhaps PGCCDBS could be the Technical/Scientific forum where issues identified by the regional co-ordination meetings are addressed.
- (8) Age reading exchange schemes need to be co-ordinated and standard methods need to be established and accepted. The present system needs to be evaluated
- (9) Sampling level targets need to be revisited. Specifically stocks which are subject to recovery plan have had very much reduced landings in recent

years. The level of sampling required has therefore fallen and the data for stock assessment are lacking. A special annex for the sampling of recovery plan stocks needs to be established.

- (10) Port sampling should be conducted by fleet and not by stock.
- (11) Effort should be considered by metier as well as gear type.
- (12) Discard sampling should be conducted by fleet and not by stock.
- (13) Biological sampling needs to be co-ordinated. The present situation where MS are doing their own sampling is not an efficient use of resources. MS need to be given specific responsibility for stocks/species to avoid duplication and resource wastage. There could be up to 3 MS providing cod maturity data for the Celtic Sea area.
- (14) The species/stocks list for sampling is too extensive and needs to be revised. Why are we collecting large data sets for species that are not currently assessed? The data collected for such species should be evaluated for use in 'quick and dirty' assessment methods before more data are collected.
- (15) When reports (e.g. pilot studies) are to be compiled by MS, clear guidelines should be given to National Correspondents by the Commission well in advance of the submission dates. This will avoid confusion and ensure that the Commission received the desired type of report on time and in a standard format.
- (16) There is an inconsistency in Article 10 of 1639/2001 with the 20 days provided for request/submission of data. Interpreted and implemented literally by a Member State the Article would currently allow Member States to delay the provision of data until such a time that the Commission is required to delete the data immediately upon receiving it.
- (17) The question of who are the custodians of aggregated biological and economic data needs to be clarified. Disaggregated data are currently housed in National Institutes.
- (18) The sampling of foreign landings needs improved co-ordination. The use of bilateral sampling agreements should be encouraged.
- (19) There is a need for a comprehensive web site devoted to the DCR.
- (20) There needs to be discussion and clear guidelines on what are eligible costs particularly in relation to staff employed for data collection duties.

The Data Collection Regulation  
EU Council Regulation 1543/2000  
Establishing a Community Framework for the collection and Management of the Data Needed to conduct the CFP

*Qualifying Funding Under DCR in Green*



## Comments on the budget for 2006

The total budget for the Ireland National Programme for 2006 relating to the Minimum Programme amounts to €4,437,047. Ireland is seeking 50% funding from the Commission which amounts to €2,218,52 (Table 8).

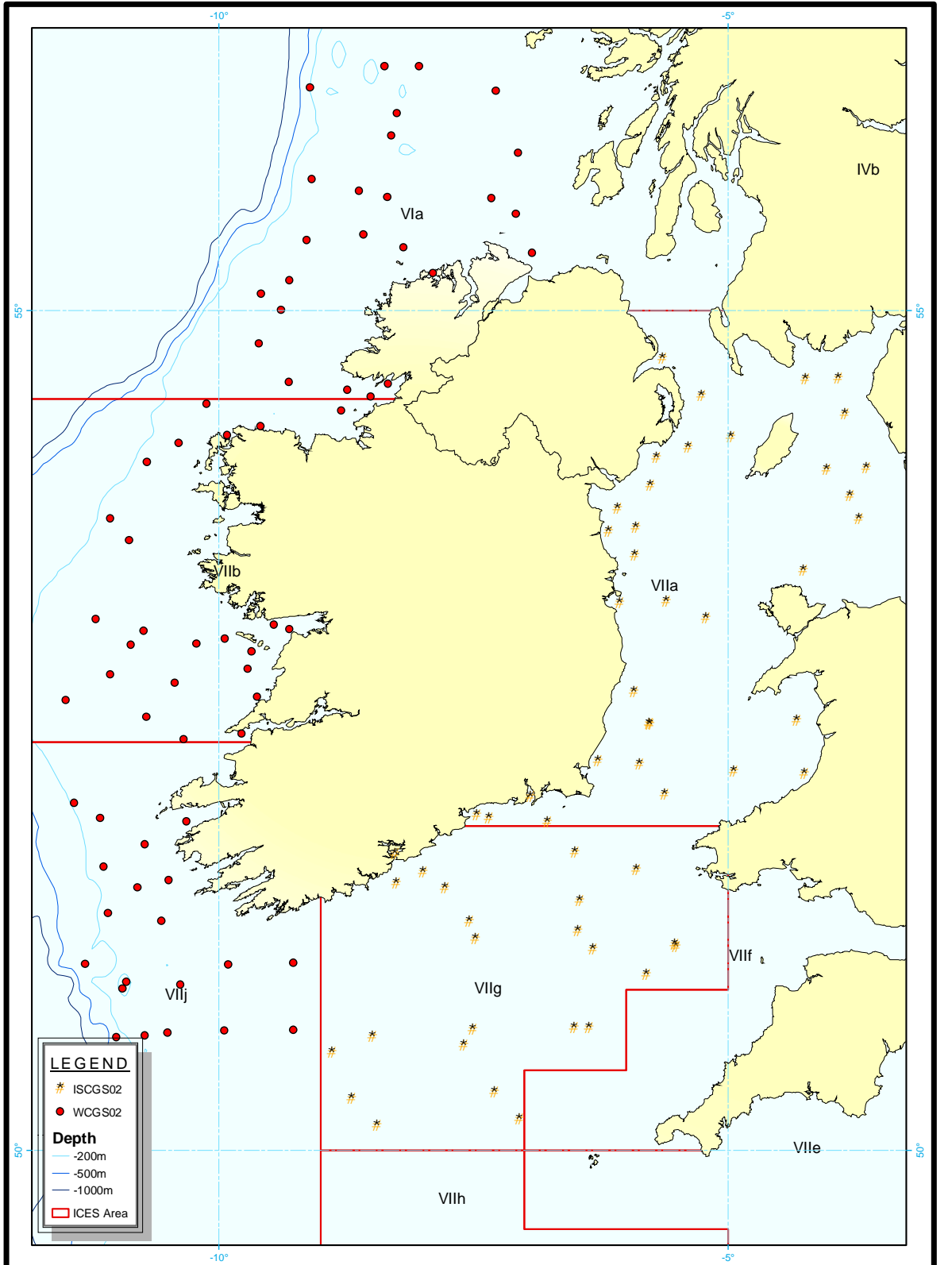
The total cost of the 2005 programme amounted to €4,260,714.

The total budget for the Ireland National Programme for 2006 relating to the Extended Programme amounts to €273,788 (Table 9). Ireland is seeking 35% funding for the extended programme in 2006 (€95,825.80) for the *Nephrops* Ecology survey and the Deepwater Trawl Survey.

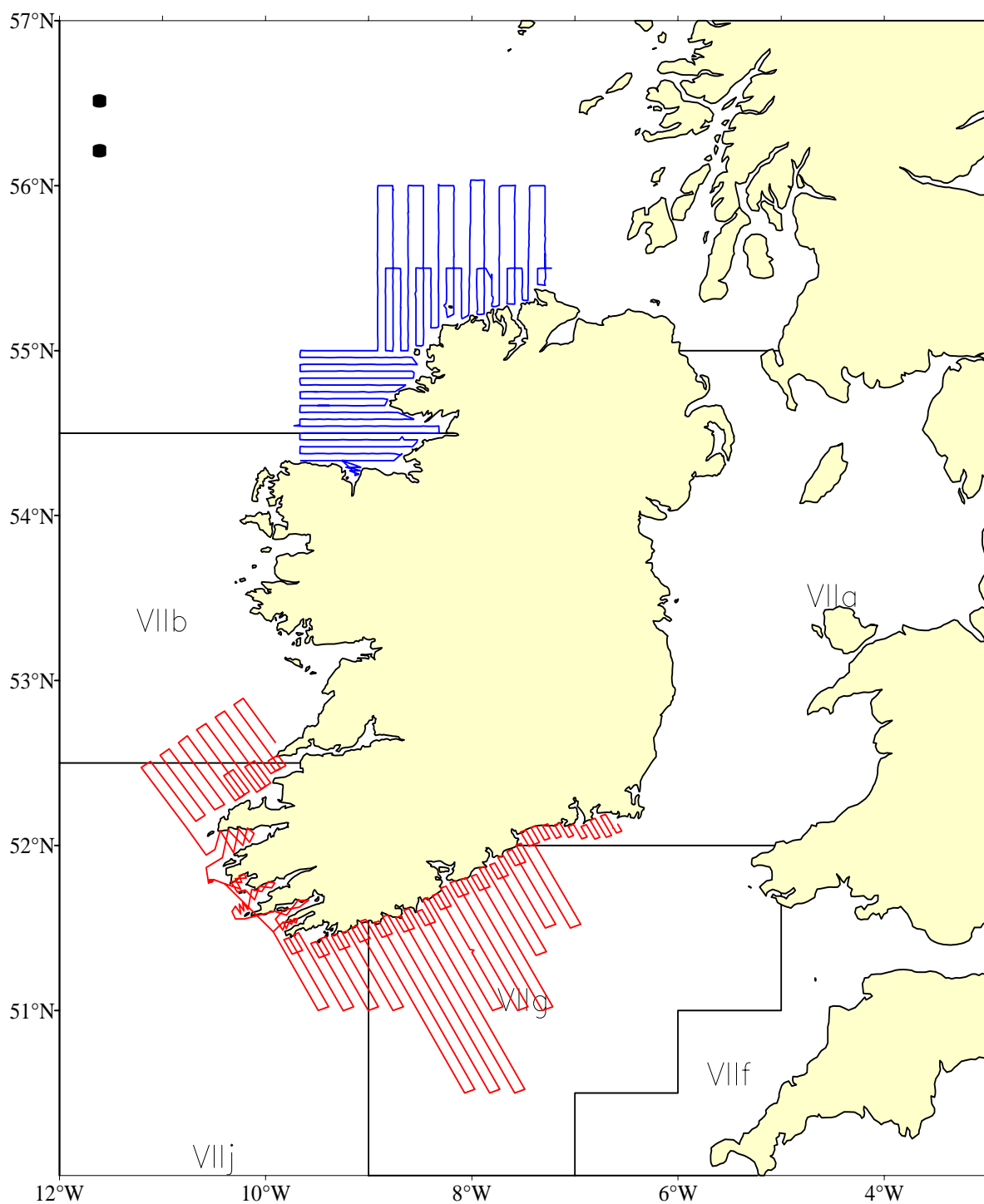
The overall 2006 costs are quite similar to those for 2005. However, there are variations in the total costs within modules as a result of revisions to staff costings and work programmes between modules.

In terms of the Ireland National Programme for 2006, the budget for surveys (G) account for 50% of the budget total, with biological sampling of landings (H) accounting for 35% (see Table 8).

**Figure 1 Proposed Station Positions for Western IBTS Q4 Groundfish Survey 2006.**

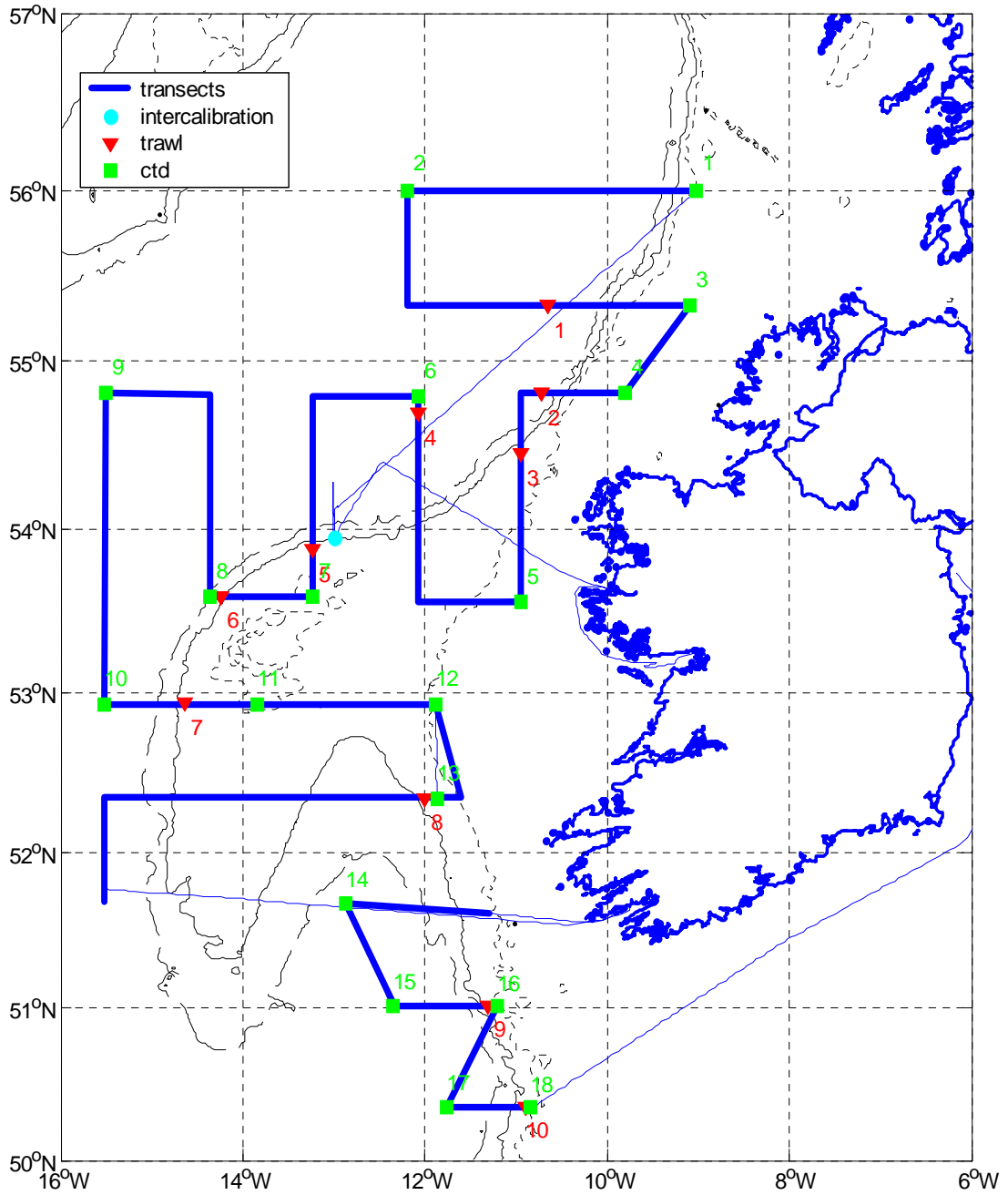


**Figure 2 Proposed Survey Tracks for Spawning/Pre-Spawning Herring Acoustic Surveys in 2006**

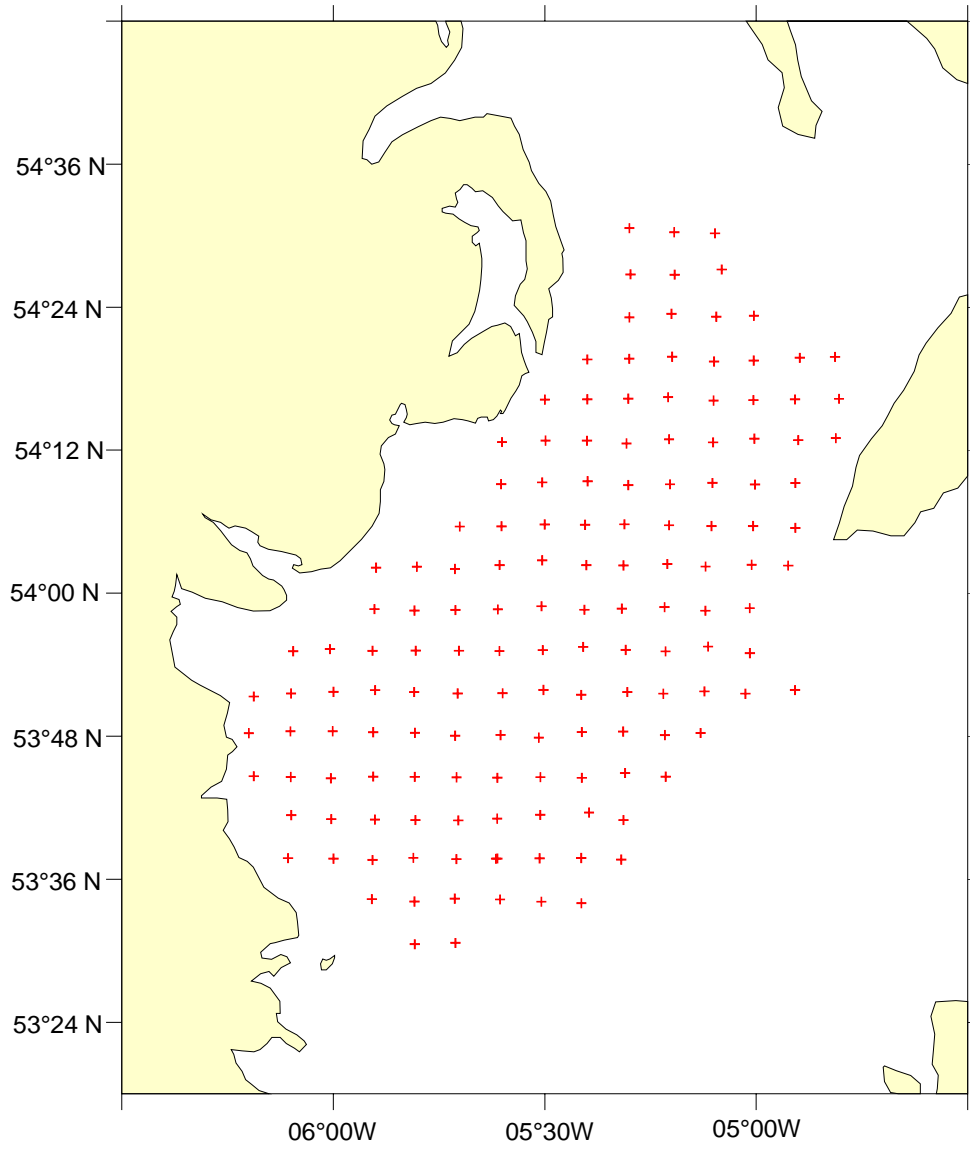


- North West Herring Acoustic Survey
- Celtic Sea Herring Acoustic Survey

**Figure 3 Irish component of International Blue Whiting Acoustic Survey (March/April 2004) and proposed cruise track for 2006.**



**Figure 4 Proposed station positions (+) for the Joint DARDNI/Marine Institute Nephrops UWTV surveys in the Irish Sea during 2006.**



**Table 1.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme demersal fish stocks around Ireland.

Species	Area	Landings 99-01 into Ireland		% of International Catch	MP Sampling required		MP Sampling Scheme				Comment or Exemptions if applicable
		All vessels	Non Irish vessels		Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Cod	I,II	349	0	1%	No	No	2	100	1	25	IRL <5% of int'l catch: too low to require sampling under MP
Cod	VI	408	0	8%	Yes	No	3	150	1	25	IRL <10% of int'l catch but no exemption from MP age sampling is requested
Cod	VIIa	594	0	15%	Yes	Yes	3	150	2	50	
Cod	VIIb-k,VIII,IX,X	1446	0	16%	Yes	Yes	8	400	3	75	
Haddock	VI	1547	0	7%	Yes	No	2	50	2	50	IRL <10% of int'l catch but no exemption from MP age sampling is requested
Haddock	VII,VIII,IX,X	3769	152	37%	Yes	Yes	19	950	8	400	
Hake	Vb,VI,VII,XII,XIV	4963	3408	13%	Yes	Yes	50	2500	10	500	
Lemon Sole	All areas	495	60	Unknown	No	No					Sampling not required under MP
Megrim	Vb,VI,XII,XIV	588	0	21%	Yes	Yes	6	300	2	100	
Megrim	VII	3772	1144	21%	Yes	Yes	38	1900	8	400	
Anglerfish	VI	622	0	13%	Yes	Yes	7	350	4	100	
Anglerfish	VII	6232	3228	26%	Yes	Yes	63	3150	32	800	
Plaice	Vb,VI,XII,XIV	255	0	36%	Yes	Yes	13	2600	13	650	

**Table 1 continued.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme demersal fish stocks around Ireland.

Species	Area	Landings 99-01 into Ireland		% of International Catch	MP Sampling required		MP Sampling Scheme				Comment or Exemptions if applicable
		All vessels	Non Irish vessels		Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Plaice	VIIa	451	0	29%	Yes	Yes	10	2000	10	500	
Plaice	VIIbc	104	0	69%	No	No					Sampling not required under MP
Plaice	VIIfg	77	0	8%	No	No	2	400	2	100	IRL catch <200 T but no exemption from MP age sampling is requested
Plaice	VIIhjk	206	0	48%	No	No					Sampling not required under MP
Saithe	VI	370	0	5%	Yes	No	4	200	1	50	IRL <10% of int'l catch: too low to require age sampling under MP
Saithe	VII,VIII,IX,X	1253	67	28%	Yes	Yes	3	150	3	75	
Sole	Vb,VI,XII,XIV	39	0	80%	No	No	1	50	1	25	IRL catch <100 T but no exemption from MP sampling is requested
Sole	VIIa	149	0	17%	Yes	No	3	600	3	150	IRL catch <200 T but no exemption from MP age sampling is requested
Sole	VIIbc	58	0	92%	No	No	1	50	1	25	IRL catch <100 T but no exemption from MP sampling is requested
Sole	VIIfg	34	0	3%	No	No	1	200	1	50	IRL catch <100 T but no exemption from MP sampling is requested
Sole	VIIhjk	131	0	34%	Yes	No	1	50	1	25	IRL catch <200 T but no exemption from MP age sampling is requested
White Pollock	Vb,VI,XII,XIV	80	0	14%	No	No					Sampling not required under MP
White Pollock	VII	765	0	8%	No	No					Sampling not required under MP

**Table 1 continued.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme demersal fish stocks around Ireland.

Species	Area	Landings 99-01 into Ireland		% of International Catch	MP Sampling required		MP Sampling Scheme				Comment or Exemptions if applicable
		All vessels	Non Irish vessels		Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Whiting	VI	903	0	21%	Yes	Yes	10	500	2	100	
Whiting	VIIa	348	0	12%	Yes	Yes	4	200	1	50	
Whiting	VIIb-k	5346	126	30%	Yes	Yes	54	2700	11	550	
Witch	VI	149	0	Unknown	No	No			1	25	Sampling not required under MP
Witch	VII	584	0	Unknown	No	No			1	25	Sampling not required under MP

**Table 2.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme pelagic fish stocks around Ireland.

Species	Area	Landings 99-01 into Ireland		% of International Catch	MP Sampling required		MP Sampling Scheme				Comment or Exemptions if applicable
		All vessels	Non Irish vessels		Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Albacore Tuna	Combined	3800		12%	Yes	No	38	3800			
Blue whiting	Combined	30567		2%	No	No	31	1550	31	775	IRL <5% of int'l catch but no exemption from sampling is requested
Bluefin tuna	Combined	30		0%	No	No	1	100			IRL catch <100 T: too low to require sampling under MP
Herring	Celtic Sea	17867		95%	Yes	Yes	18	900	18	450	Sampling will be above the MP.
Herring	Irish Sea	860		23%	Yes	Yes	1	50	1	25	Sampling will be above the MP
Herring	Nor. Spring Spawning	4833		0%	No	No	5	250	5	125	IRL <5% of int'l catch but no exemption from sampling is requested
Herring	West of Ireland	18267		33%	Yes	Yes	19	950	19	475	Sampling will be above the MP
Horse Mackerel	Western	56867		23%	Yes	Yes	57	2850	57	1425	Sampling will be increased to meet MP
Mackerel	NEA	70103		11%	Yes	Yes	71	3550	71	1775	
Swordfish	Combined	50		0%	No	No	1	100			IRL catch <100 T: too low to require sampling under MP

**Table 3.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme Nephrops stocks around Ireland.

Species	Area	2002 Irish Landings	% of International Catch	MP Sampling required		MP Sampling Scheme				Comment or Exemptions if applicable
				Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Nephrops	South Minch, FU 12	14	0%	No	No					IRL <5% of int'l TAC in Sub –area VI exemption from sampling FUs in this area is requested
Nephrops	Clyde, FU 13	0	0%	No	No					
Nephrops	Landings outside WG FUs, C	112	26%	No	No					
Nephrops	Landings outside WG FUs, D	0	0	No	No					
Nephrops	Irish Sea East, FU 14	203	35%	Yes	No	4	800			
Nephrops	Irish Sea West, FU 15	2283	33%	Yes	No	46	9200			
Nephrops	Porcupine Bank, FU 16	543	42%	Yes	No	11	2200			
Nephrops	Aran Grounds, FU 17	1152	99%	Yes	No	23	4600			
Nephrops	Ireland NW Coast, FU 18	14	100%	Yes	No	0	0			
Nephrops	Ireland SW and SE Coast, FU 19	1126	87%	Yes	No	23	4600			
Nephrops	Celtic Sea, FU 20-22	1489	32%	Yes	No	30	6000			
Nephrops	Landings outside WG FUs, L	119	48%	Yes	No	2	400			
Nephrops	Landings outside WG FUs, M	101	70%	Yes	No	2	400			

**Table 4.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme for deepwater species caught around Ireland.

Species	Area	Landings 99-01 into Ireland		% of International Catch	MP Sampling required		MP Sampling Scheme				Comment or Exemptions if applicable
		All vessels	Non Irish vessels		Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Black scabbard		8		Unknown	No	No					Sampling not required under MP
Blue ling		246		Unknown	No	No					Sampling not required under MP
Conger eel		235		Unknown	No	No					Sampling not required under MP
Greater Forkbeard		817		Unknown	No	No					Sampling not required under MP
Greenland halibut		61		Unknown	No	No					Sampling not required under MP
Ling		1616		Unknown	Yes	Yes	2	100			
Migratory sharks		223		Unknown	Yes	Yes	2	200			Species include Thresher, Blue Tope, Cochon, Porbeagle and Mako Shark
Orange roughy		933		Unknown	Yes	Yes	1	50			
Ray / Skate		2103		Unknown	Yes	Yes	3	150			
Redfish		275		Unknown	No	No					Sampling not required under MP
Sea Bream		16		Unknown	No	No					Sampling not required under MP
Siki shark		154		Unknown	Yes	No					IRL catch <200 T: too low to require age sampling under MP
Spur Dog		944		Unknown	No	No					Sampling not required under MP
Tusk		91		Unknown	No	No					Sampling not required under MP

**Table 5.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme for other stocks caught around Ireland.

Species	Area	Landings 99-01 into Ireland		% of International Catch	MP Sampling required		MP Sampling Scheme				Comment or Exemptions if applicable
		All vessels	Non Irish vessels		Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Brown / Edible Crab	VI, VII	8455		Unknown	Yes	No	43	2150			Age sampling not required under MP
Lobster	VI, VII	634		Unknown	Yes	No	1	50			Age sampling not required under MP
Razor-Shell	VI, VII	464		Unknown	No	No					Sampling not required under MP
Whelk	VI, VII	4512		Unknown	No	No					Sampling not required under MP

**Table 6.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme for discards around Ireland.

Species	Area	Av landings 99-01	Estimated discard weight	MP sampling required		MP Sampling Scheme				Comments
				Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Cod	I,II (Norwegian waters)	349	5%	No	No	1	50	1	25	IRL <5% of int'l catch: too low to require sampling under MP
Cod	VI	408	5%	No	No	1	50	1	25	IRL <10% of int'l catch but no exemption from MP age sampling is requested
Cod	VIIa	594	5%	No	No	1	50	1	25	
Cod	VIIb-k,VIII,IX,X	1446	5%	No	No	1	50	1	25	
Haddock	VI	1547	49%	Yes	Yes	2	50	2	50	IRL <10% of int'l catch but no exemption from MP age sampling is requested
Haddock	VII,VIII,IX,X	3769	43%	Yes	Yes	14	700	6	300	
Hake	Vb,VI,VII,XII,XIV	4963	24%	Yes	Yes	16	800	4	200	
Lemon Sole	All areas	495	37%	No	No					Sampling not required under MP
Megrim	Vb,VI,XII,XIV	588	11%	Yes	Yes	1	50	1	50	
Megrim	VII	3772	23%	Yes	Yes	12	600	3	150	
Anglerfish	VI	622	3%	No	No	1	50	1	25	
Anglerfish	VII	6232	2%	No	No	2	100	1	25	
Plaice	Vb,VI,XII,XIV	255	35%	No	No	3	600	3	150	
Plaice	VIIa	451	64%	Yes	Yes	16	3200	16	800	
Plaice	VIIbc	104	7%	No	No					Sampling not required under MP
Plaice	VIIfg	77	56%	Yes	Yes	2	400	2	100	IRL catch <200 T but no exemption from MP age sampling is requested
Plaice	VIIIjk	206	40%	No	No					Sampling not required under MP

**Table 6 continued.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme for discards around Ireland.

Species	Area	Av landings 99-01	Estimated discard weight	MP sampling required		MP Sampling Scheme				Comments
				Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Saithe	VI	370	10%	Yes	Yes	1	50	1	50	IRL <10% of int'l catch: too low to require age sampling under MP
Saithe	VII,VIII,IX,X	1253	10%	Yes	Yes	1	50	1	25	
Sole	Vb,VI,XII,XIV	39	5%	No	No	1	50	1	25	IRL catch <100 T but no exemption from MP sampling is requested
Sole	VIIa	149	5%	No	No	1	200	1	50	IRL catch <200 T but no exemption from MP age sampling is requested
Sole	VIIbc	58	3%	No	No	1	50	1	25	IRL catch <100 T but no exemption from MP sampling is requested
Sole	VIIfg	34	5%	No	No	1	200	1	50	IRL catch <100 T but no exemption from MP sampling is requested
Sole	VIIhjk	131	5%	No	No	1	50	1	25	IRL catch <200 T but no exemption from MP age sampling is requested
White Pollock	Vb,VI,XII,XIV	80	10%	No	No					Sampling not required under MP
White Pollock	VII	765	10%	No	No					Sampling not required under MP
Whiting	VI	903	31%	Yes	Yes	5	250	1	50	
Whiting	VIIa	348	82%	Yes	Yes	17	850	4	200	
Whiting	VIIb-k	5346	18%	Yes	Yes	12	600	3	150	
Witch	VI	149	17%	No	No			1	25	Sampling not required under MP
Witch	VII	584	17%	No	No			1	25	Sampling not required under MP
Albacore Tuna	Combined	3800	5%	No	No	2	200			
Blue whiting	Combined	30567	10%	Yes	Yes	4	200	4	100	IRL <5% of int'l catch but no exemption from sampling is requested

**Table 6 continued.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme for discards around Ireland.

Species	Area	Av landings 99-01	Estimated discard weight	MP sampling required		MP Sampling Scheme				Comments
				Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Bluefin tuna	Combined	30	5%	No	No	1	100			IRL catch <100 T: too low to require sampling under MP
Herring	Celtic Sea	17867	5%	No	No	1	50	1	25	
Herring	Irish Sea	860	5%	No	No	1	50	1	25	
Herring	Nor. Spring Spawning	4833	5%	No	No	1	50	1	25	IRL <5% of int'l catch but no exemption from sampling is requested
Herring	West of Ireland	18267	5%	No	No	1	50	1	25	
Horse Mackerel	Western	56867	5%	No	No	3	150	3	75	
Mackerel	NEA	70103	5%	No	No	4	200	4	100	
Swordfish	Combined	50	5%	No	No	1	100			IRL catch <100 T: too low to require sampling under MP
Brown / Edible Crab	VI, VII	8455	5%	No	No	3	150			Age sampling not required under MP
Lobster	VI, VII	634	5%	No	No	1	50			Age sampling not required under MP
Razor-Shell	VI, VII	464	5%	No	No					Sampling not required under MP
Whelk	VI, VII	4512	5%	No	No					Sampling not required under MP
Nephrops	South Minch, FU 12	8	20%	No	No					IRL <5% of int'l TAC: too low to require sampling under MP
Nephrops	Clyde, FU 13	2	20%	No	No					IRL <5% of int'l TAC: too low to require sampling under MP
Nephrops	Irish Sea East, FU 14	97	20%	Yes	Yes	1	200			
Nephrops	Irish Sea West, FU 15	3570	20%	Yes	Yes	18	3600			

**Table 6 continued.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme for discards around Ireland.

Species	Area	Av landings 99-01	Estimated discard weight	MP sampling required		MP Sampling Scheme				Comments
				Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Nephrops	Porcupine Bank, FU 16	402	20%	Yes	No	3	600			
Nephrops	Aran Grounds, FU 17	977	20%	Yes	No	5	1000			
Nephrops	Ireland NW Coast, FU 18	9	20%	Yes	No	1	200			
Nephrops	Ireland SW and SE Coast, FU 19	580	20%	Yes	No	3	600			
Nephrops	Celtic Sea, FU 20-22	1581	20%	Yes	No	8	1600			
Nephrops	Landings outside WG FUs, C	112	20%	No	No					IRL <5% of int'l TAC: too low to require sampling under MP
Nephrops	Landings outside WG FUs, D	1	20%	No	No					IRL <5% of int'l TAC: too low to require sampling under MP
Nephrops	Landings outside WG FUs, L	102	20%	Yes	No	1	200			
Nephrops	Landings outside WG FUs, M	28	20%	Yes	No	1	200			
Black scabbard		8	10%	No	No					Sampling not required under MP
Blue ling		246	10%	No	No					Sampling not required under MP
Conger eel		235	10%	No	No					Sampling not required under MP
Greater Forkbeard		817	10%	No	No					Sampling not required under MP
Greenland halibut		61	10%	No	No					Sampling not required under MP

**Table 6 continued.** Minimum Programme (MP) sampling requirement, schemes and exemptions under Regulation (EC) No 1639/2001 minimum community programme for discards around Ireland.

Species	Area	Av landings 99-01	Estimated discard weight	MP sampling required		MP Sampling Scheme				Comments
				Length	Age	Length Effort	Length Level	Age Effort	Age Level	
Ling		1616	10%	Yes	Yes	1	50			
Migratory sharks		223	10%	Yes	Yes	1	100			
Orange roughy		933	10%	Yes	Yes	1	50			
Ray / Skate		2103	10%	Yes	Yes	1	50			
Redfish		275	10%	No	No					Sampling not required under MP
Sea Bream		16	10%	No	No					Sampling not required under MP
Siki shark		154	10%	Yes	Yes					IRL catch <200 T: too low to require age sampling under MP
Spur Dog		944	10%	No	No					Sampling not required under MP
Tusk		91	10%	No	No					Sampling not required under MP

**TABLE 7**

**Data Collection Regulation - National Programme - Ireland 2006**  
INTERNATIONAL COORDINATION 2006

**(This Table estimates participation in 2006)**

Destination *	(MO)	A	B	C	D	E	A*B*C*D+E
	Meeting	Number	Number of	Number of	Daily	Travel	Total
	Organisation	Trips	Persons	Days	Allowance	expenses	
<b>1/Data Collection</b>							
National Co-ordination		1	6	1	0	0	0
							0
<b>2/Data Collection: Regional Co-ordination</b>							0
Baltic -					0	0	0
North Sea					0	0	0
Atlantic (North east) - Galway							0
Mediterranean Waters					0	0	0
							0
<b>3/ Planning Groups on Data Collection</b>							0
Workshop on Precision Level		1	2	5	135	1,000	2,350
Workshop on Age Reading of Hake		1	2	5	135	1,000	2,350
Workshop on Age Reading of Monkfish		1	2	5	135	1,000	2,350
Workshop on Age reading of Megrin		1	2	5	135	1,000	2,350
Workshop on Ageing Exchange		1	2	5	135	500	1,850
<b>4/ Planning Groups on Surveys at Sea (including tuna tagging)</b>							
ICES International Bottom Trawl Survey Working Group (IBTS)		1	1	5	135	500	1,175
ICES Planning Group for Herring Surveys (PGHERS)		1	1	5	135	500	1,175
ICES Planning Group on Surveys of Pelagic fish in the Norwegian Sea PGNAPES		1	1	5	135	500	1,175
ICES Working Group on Mackerel and Horse Mackerel Egg Surveys (WGMHSA)		1	1	5	135	500	1,175
Workshop on Survey Analysis and Design (WKSAD)		1	2	5	135	500	1,850
Study Group on Survey trawl Gears for the IBTS Western Southern Areas (SGSTG)		1	2	5	135	1000	2,350
ICES Workshop on TV survey methods (WGNEPH)		1	2	4	135	1000	2,080
ICES Working Group on Mackerel & Horse Mackerel Egg Surveys (WGMEGS)		1	1	5	135	500	1,175
<b>TOTAL</b>							<b>23,405</b>

TABLE 8

**National Programme - Ireland**  
**Total Budget for Minimum Programme in 2006**

(Version 1)

Category	Item	TOTAL €	Capacity C	Effort D	C+L E	Discards E	Recreational E	CPUE F	SURVEYS G	A+L Land H	A+L Disc H	Biol Par I	Eco Vessel J	Databases	Co-ord Other
Personnel	<b>Scientist</b>														
	<i>Cost</i>	<b>786,212</b>	0	0	43,316	8,168	3,108	0	129,411	255,750	30,287	103,334	131,628	76,823	4,388
	<i>Man Months</i>	<b>176</b>	0	0	9	2	1	0	29	57	6	24	31	16	1
	<b>Technicians</b>														
	<i>Cost</i>	<b>1,085,097</b>	0	0	0	0	0	0	172,736	668,912	207,423	36,026	0	0	0
	<i>Man Months</i>	<b>296</b>	0	0	0	0	0	0	45	184	57	10	0	0	0
	<b>TOTALS</b>														
	<i>Cost</i>	<b>1,871,309</b>	<b>0</b>	<b>0</b>	<b>43,316</b>	<b>8,168</b>	<b>3,108</b>	<b>0</b>	<b>302,147</b>	<b>924,661</b>	<b>237,710</b>	<b>139,360</b>	<b>131,628</b>	<b>76,823</b>	<b>4,388</b>
	<i>Man Months</i>	<b>471</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>2</b>		<b>0</b>	<b>74</b>	<b>241</b>	<b>63</b>	<b>34</b>	<b>31</b>	<b>16</b>	<b>1</b>
Travel		<b>356,832</b>	0	0	0	0	0	0	82,780	94,450	137,598	0	18,600	0	23,405
Durable Equipment		<b>12,713</b>	0	0	0	0	0	0	0	8,120	3,359	1,234	0	0	0
Consumables		<b>182,958</b>	0	0	0	0	0	0	43,106	58,877	5,985	74,990	0	0	0
Computing		<b>660</b>	0	0	0	0	0	0	0	0	0	0	660	0	0
Subcontracting		<b>266,007</b>	0	0	0	0	11,580	0	0	33,177	141,000	0	0	80,250	0
Sea Allowances		<b>168,020</b>	0	0	0	0	0	0	168,020	0	0	0	0	0	0
Surveys (Priority 1)															
	IBTS 4 Quarter	<b>658,000</b>	0	0	0	0	0	0	658,000	0	0	0	0	0	0
	Herring Acoustic	<b>588,000</b>	0	0	0	0	0	0	588,000	0	0	0	0	0	0
	Norwegian Herring Acoustic	<b>38,548</b>	0	0	0	0	0	0	38,548	0	0	0	0	0	0
	Blue Whiting Acoustic	<b>294,000</b>	0	0	0	0	0	0	294,000	0	0	0	0	0	0
	TOTAL Shiptime	<b>1,578,548</b>							<b>1,578,548</b>	0	0	0	0	0	0
<b>TOTAL COSTS</b>		<b>4,437,047</b>	<b>0</b>	<b>0</b>	<b>43,316</b>	<b>8,168</b>	<b>14,688</b>	<b>0</b>	<b>2,174,600</b>	<b>1,119,286</b>	<b>525,651</b>	<b>215,584</b>	<b>150,888</b>	<b>157,073</b>	<b>27,793</b>
<b>Percentage of Budget</b>		<b>100%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.98</b>	<b>0.18</b>	<b>0.33</b>	<b>0.00</b>	<b>49.01</b>	<b>25.23</b>	<b>11.85</b>	<b>4.86</b>	<b>3.40</b>	<b>3.54</b>	<b>0.63</b>

TABLE 9

**National Programme - Ireland  
Total Budget for Extended Programme in 2006**

(Version 1)

Category	Item	TOTAL	C	D	E	G	H	I	J & K	Co-ord Databases	Co-ord Other
<b>Personnel</b>	<b>Scientist</b>										
	<i>Cost</i>	<b>25,086</b>	0	0	0	25,086	0	0	0	0	0
	<i>Man Months</i>	<b>5</b>	0	0	0	5	0	0	0	0	0
	<b>Technicians</b>										
	<i>Cost</i>	<b>38,137</b>	0	0	0	38,137	0	0	0	0	0
	<i>Man Months</i>	<b>9</b>	0	0	0	9	0	0	0	0	0
	<b>TOTALS</b>										
	<i>Cost</i>	<b>63,223</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>63,223</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<i>Man Months</i>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Travel</b>		<b>4,580</b>	0	0	0	4,580	0	0	0	0	0
<b>Durable Equipment</b>		<b>0</b>	0	0	0	0	0	0	0	0	0
<b>Consumables</b>		<b>15,168</b>	0	0	0	15,168	0	0	0	0	0
<b>Computing</b>		<b>0</b>	0	0	0	0	0	0	0	0	0
<b>Subcontracting</b>		<b>0</b>	0	0	0	0	0	0	0	0	0
<b>Sea Allowances</b>		<b>25,817</b>	0	0	0	25,817	0	0	0	0	0
<b>Surveys (Priority 2)</b>											
<b>Vessel charter</b>											
	Nephrops VIIa	<b>60,000</b>	0	0	0	<b>60,000</b>	0	0	0	0	0
	Deep Water Trawl	<b>105,000</b>	0	0	0	<b>105,000</b>	0	0	0	0	0
		<b>0</b>	0	0	0		0	0	0	0	0
	TOTAL Shiptime	<b>165,000</b>				<b>165,000</b>					
<b>TOTAL COSTS</b>		<b>273,788</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>273,788</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Percentage of Budget</b>		<b>100%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Minimum Programme**  
**Detailed Budget**

## C - FISHING CAPACITIES (Version 1)

Only the costs incurred by activities not covered in the "vessel register" are to be entered in these forms

Staff costs (€)				
Categorie	Grade	Number of Men/months	Monthly Rate	Total
Scientist			=	
				0
				0
				0
Technician				0
				0
				0
				0
<b>Total</b>				<b>0</b>

Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.

Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.

Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
<b>Total</b>						<b>0</b>

Travel costs are to be in accordance with internal rules of the beneficiary.  
For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
<b>Total</b>					<b>0</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).  
The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases.  
General scientific equipment is not eligible.

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
			0
			0
			0
			0
			0
			0
			0
<b>Total</b>			0

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)	
Description	Total Cost
<b>Total</b>	0

Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).

Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€)	
Description	Total Cost
<b>Total</b>	0

Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.

Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).

SUMMARY	
Staff Costs	0
Travelling expenses	0
Durable equipment	0
Consumable material and supplies	0
Computer costs	0
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>0</b>

## D - FISHING EFFORT (Version 1)

Only the costs incurred by activities not covered in the "logbook" are to be entered in these forms

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men/months	Monthly Rate	Total	
Scientist				0	
				0	
Technician				0	
				0	
				0	
				0	
				0	
<b>Total</b>				<b>0</b>	

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
<b>Total</b>						<b>0</b>

Travel costs are to be in accordance with internal rules of the beneficiary.  
 For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
<b>Total</b>					<b>0</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).  
 The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases.  
 General scientific equipment is not eligible.

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
			0
			0
			0
			0
			0
			0
			0
			0
Total			0

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)	
Description	Total Cost
Total	0

Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).

Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€)	
Description	Total Cost
Total	0

Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.

Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).

SUMMARY	
Staff Costs	0
Travelling expenses	0
Durable equipment	0
Consumable material and supplies	0
Computer costs	0
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>0</b>

## E - CATCHES AND LANDINGS (Version 1)

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men/months	Monthly / Daily Rate *)	Total	
Scientist	TL	4	5,724	22,895	
	STO	5	4,084	20,421	
				0	
				0	
Technician				0	
				0	
				0	
<b>Total</b>				<b>43,316</b>	

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
<b>Total</b>						<b>0</b>

Travel costs are to be in accordance with internal rules of the beneficiary.

For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
<b>Total</b>					<b>0</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).

The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases. General scientific equipment is not eligible.

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
			0
			0
			0
			0
			0
			0
			0
			0
<b>Total</b>			0

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)	
Description	Total Cost
<b>Total</b>	0

Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).

Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€)	
Description	Total Cost
<b>Total</b>	0

Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.

Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).

SUMMARY	
Staff Costs	43,316
Travelling expenses	0
Durable equipment	0
Consumable material and supplies	0
Computer costs	0
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>43,316</b>

## E - DISCARDS (Version 1)

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men/months	Monthly / Daily Rate *)	Total	
Scientist	STO	2	4,084	8,168	
				0	
				0	
Technician				0	
				0	
				0	
				0	
<b>Total</b>				<b>8,168</b>	

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
<b>Total</b>						<b>0</b>

Travel costs are to be in accordance with internal rules of the beneficiary.  
 For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
<b>Total</b>					<b>0</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).  
 The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases.  
 General scientific equipment is not eligible.

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
			0
			0
			0
			0
			0
			0
			0
			0
<b>Total</b>			0

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)	
Description	Total Cost
<b>Total</b>	0

Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).

Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€)	
Description	Total Cost
<b>Total</b>	0

Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.

Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).

SUMMARY	
Staff Costs	8,168
Travelling expenses	0
Durable equipment	0
Consumable material and supplies	0
Computer costs	0
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>8,168</b>

## E - RECREATIONAL FISHERIES (Version 1)

Staff costs (€)				
Categorie	Grade	Number of Men/Days	Monthly / Daily Rate *)	Total
Scientist		10	311	3,108
				0
Technician				0
				0
<b>Total</b>				<b>3,108</b>

Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.

Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
						0
						0
<b>Total</b>						<b>0</b>

Travel costs are to be in accordance with internal rules of the beneficiary.

For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
					0
					0
					0
<b>Total</b>					<b>0</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).

The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases. General scientific equipment is not eligible.

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
			0
			0
			0
			0
			0
			0
<b>Total</b>			<b>0</b>

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, **ELIGIBLE CONSUMABLES** can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

**NON ELIGIBLE** are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. **NON ELIGIBLE CONSUMABLES** are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)		Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).  Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.
Description	Total Cost	
<b>Total</b>	<b>0</b>	

*VI.A. One table for each type of data (if applicable)*

Subcontracting and other costs (€)		Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.  Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).
Description	Total Cost	
Contract to collect samples and collate data	11,580	
<b>Total</b>	<b>11,580</b>	

SUMMARY	
Staff Costs	3,108
Travelling expenses	0
Durable equipment	0
Consumable material and supplies	0
Computer costs	0
Subcontracting and other costs	11,580
<b>GRAND TOTAL €</b>	<b>14,688</b>

**F - C.P.U.E (Version 1)**

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men/months	Monthly / Daily Rate *)	Total	
Scientist				0	
				0	
				0	
Technician				0	
				0	
				0	
<b>Total</b>				0	

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
<b>Total</b>						0

Travel costs are to be in accordance with internal rules of the beneficiary.  
 For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
<b>Total</b>					0

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).  
 The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases.  
 General scientific equipment is not eligible.

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
			0
			0
			0
			0
			0
			0
			0
			0
<b>Total</b>			0

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)	
Description	Total Cost
<b>Total</b>	0

Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).

Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€)	
Description	Total Cost
<b>Total</b>	0

Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.

Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).

SUMMARY	
Staff Costs	0
Travelling expenses	0
Durable equipment	0
Consumable material and supplies	0
Computer costs	0
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>0</b>

The Data Collection Regulation  
 2006 National Programme - Ireland  
 Cost Statement Summary of Module G

(Version 1)

	Herring Acoustic	Q4 IBTS Groundfish	Atlanto *** Scandian Herr	Blue Whiting Acoustic	TOTAL MP	Nephrops Ecology	Deep Water	Total EP
Personnel	108,565	168,168	3,063	22,351	302,147	31,992	31,230	63,222
Sea Allowances	54,625	93,800	2,601	16,994	168,020	17,837	7,980	25,817
Vessel Charter	588,000	658,000	38,548	294,000	1,578,548	60,000	105,000	165,000
Travel	72,400	8,980	800	600	82,780	1,860	2720	4,580
Consumables	13,668	15,770	0	13,668	43,106	1,500	13,668	15,168
Sub Contracts	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>837,258</b>	<b>944,717</b>	<b>45,012</b>	<b>347,613</b>	<b>2,174,600</b>	<b>113,189</b>	<b>160,598</b>	<b>273,787</b>

\*\*\* €19,472 paid to Denmark as Ireland Contribution to Shiptime

## G. SURVEYS (2006 Min Prog)

One for each survey

**SURVEY NAME: Western IBTS fourth quarter (Version 1)**

### PERSONNEL COSTS (€)

Categorie *	Grade **	Number of days	Daily Rate***	Total
Scientist	TL	37	311	11,499
	STO	151	219	33,038
	STO	61	219	13,346
Technician	SLT	138	264	36,494
	LT	247	192	47,354
	FAT	84	192	16,104
	Tech Consultant	41	252	10,332
	<b>TOTAL</b>		<b>759</b>	

\* Scientific or technical staff only.

\*\* Please specify grade according to the salary scale of the organisation

\*\*\* Including wages, social costs, social security, and pension contributions  
BUT excluding indirect costs (OVERHEADS)

### SEA ALLOWANCES (€)

Categorie* / Grade **	Number of persons	Number of days at sea	Daily allowance	Total
Sci / Team Leader	1	16	185.80	2,973
Sci / STO	1	31	185.80	5,760
Sci / STO	1	47	185.80	8,733
Sci / STO	1	47	185.80	8,733
Tech / Sen Lab Tech	2	47	185.80	17,465
Tech / LT	3	47	185.80	26,198
Tech / FAT	2	31	185.80	11,519
Student	4	47	66.06	12,420
<b>TOTAL</b>				<b>93,800</b>

\* Scientific or technical staff only excluding crew members

\*\* Please specify grade according to salary scale of your organisation

### VESSEL COSTS (€)

Vessel characteristics				
Vessel Name	RV Celtic Explorer			
Length	65.5 m			
Engine power	4500 kW			
Tonnage				
Crew size	12			
Operating costs per day				
Fuel	N/A			
Lubricating oil	N/A			
Salaries and social cost for the crew	N/A			
Food	N/A			
Maintenance	N/A			
Harbour dues	N/A			
Insurance	N/A			
Hire of equipment to operate the vessel	N/A			
Others (specify)	N/A			
<b>TOTAL</b>	<b>14,000</b>			

Total operating costs				
Vessel Name	Celtic Explorer			
# of days of use	47			
Daily cost	14000			
<b>TOTAL</b>	<b>658,000</b>			<b>658,000</b>

TRAVEL COSTS (€)				
Destination*	A Number of trips	B Number of persons	C Unit Travel cost (round trip)	A*B*C Total
RV <i>Celtic Explorer</i> , 1	15	6	80	7,180
Join foreign vessels	1	2	900	1,800
<b>TOTAL</b>				<b>8,980</b>

\* Detailed description within text. Journeys outside UE, need Commission's agreement.

CONSUMABLES (€)			
Description *	A Unit cost	B Quantity	A*B Total
Acetone, 2 L	10.92	9	98
Batteries	3.28	30	98
Black Bags	0.23	200	46
Blue Fishing Gloves	5.46	100	546
Catalyst	4.37	18	79
Clipboards	3.28	12	39
Cotton Glove Liners	0.55	24	13
Disposable gloves, 1	8.20	24	197
Dry wipe Markers	1.42	18	26
Fish Boxes	26.21	6	157
Folders Clip	1.09	12	13
Folders Lever arch	2.74	9	25
Forceps, large	3.28	18	59
Forceps, medium	3.28	18	59
Forceps, small	7.64	18	138
Hake Boxes	6.55	25	164
Hake Vials, 700	72.07	2	144
Herring oto trays	0.80	25	20
Histokitt	32.76	20	655
Kevlar Gloves	4.92	30	148
Kim wipes	6.55	30	197
Knives	9.83	9	88
Labels	3.28	64	210
Laminated maturity k	6.00	15	90
Laminated species II	6.00	20	120
Marigold Gloves	0.55	200	110
Measuring Boards, la	67.70	6	406
Measuring Boards, s	52.42	6	315
Otolith Boxes	2.30	160	368
Permanent Markers	1.64	18	30
Pigment Paste	12.01	18	216
Plaice Otolith trays	0.85	30	26
Plastic Bags	0.14	600	84
Protective Sleeves	2.18	60	131
Resin C	76.44	10	764
Rolls Tissue	4.37	30	131
Slides, box	32.76	36	1,179
Survey Boxes	10.92	8	87
Wax	22.93	12	275
WD 40	4.37	6	26

White Bags	0.85	160	136
Fish tags	0.49	940	461
Tag applicator	123.30	2	247
Sensor repair & main	200.00	7	1,400
Net repair & mainten	4300.00	1	4,300
Freight	550.00	3	1,650
<b>TOTAL</b>			<b>15,770</b>

\* Detailed description within text

### SUMMARY

Survey Name	Total
Personnel	168,168
Sea Allowances	93,800
Vessel Charter	658,000
Travel	8,980
Consumables	15,770
<b>GRAND TOTAL €</b>	<b>944,717</b>

## G. SURVEYS (2006 Min Prog)

One for each survey

**SURVEY NAME: Herring Acoustic Surveys (Version 1)**

### PERSONNEL COSTS (€)

Categorie *	Grade **	Number of days	Daily Rate***	Total
Scientist	TL	62	311	19,269
	STO	160	219	34,897
Technician	SLT	56	264	14,809
	LT	207	192	39,590
<b>TOTAL</b>				<b>108,565</b>

\* Scientific or technical staff only.

\*\* Please specify grade according to the salary scale of the organisation

\*\*\* Including wages, social costs, social security, and pension contributions  
BUT excluding indirect costs (OVERHEADS)

### SEA ALLOWANCES (€)

Categorie* / Grade **	Number of persons	Number of days at sea	Daily allowance	Total
Sci / Team Leader	2	42	185.80	15,607
Sci / STO	2	42	185.80	15,607
Tech / Sen Lab Tech	1	42	185.80	7,804
Tech / LT	2	42	185.80	15,607

**TOTAL**

168

**54,625**

\* Scientific or technical staff only excluding crew members

\*\* Please specify grade according to salary scale of your organisation

### VESSEL COSTS (€)

#### Vessel characteristics

Vessel Name	RV Celtic Explorer			
Length	65.5 m			
Engine power	4500 kW			
Tonnage				
Crew size	12			

#### Operating costs per day

Fuel	N/A			
Lubricating oil	N/A			
Salaries and social cost for the crew	N/A			
Food	N/A			
Maintenance	N/A			
Harbour dues	N/A			
Insurance	N/A			
Hire of equipment to operate the vessel	N/A			
Others (specify)	N/A			
<b>TOTAL</b>	<b>14,000</b>			

Total operating costs				
Vessel Name	Celtic Explorer			
No.of days of use	42			
Daily cost	14000			
<b>TOTAL</b>	<b>588,000</b>			<b>588,000</b>

TRAVEL COSTS and Contracted Expertise (€)				
Destination*	A Number of trips	B Number of persons	C Unit Travel cost (round trip)	A*B*C Total
RV Celtic Explorer, t	4	2	300	2,400
Acoustic Contract				70,000
<b>TOTAL</b>				<b>72,400</b>

\* Detailed description within text. Journeys outside UE, need Commission's agreement.

CONSUMABLES (€)			
Description *	A Unit cost	B Quantity	A*B Total
Acetone, 2 L	10.5	9	95
Batteries	3.2	30	95
Black Bags	0.2	200	44
Blue Fishing Gloves	5.3	100	525
Catalyst	4.2	18	76
Clipboards	3.2	12	38
Cotton Glove Liners	0.5	24	13
Disposable gloves, 1	7.9	24	189
Dry wipe Markers	1.4	18	25
Fish Boxes	25.2	6	151
Folders Clip	1.1	12	13
Folders Lever arch	2.6	9	24
Forceps, large	3.2	18	57
Forceps, medium	3.2	18	57
Forceps, small	7.4	18	132
Herring oto trays	0.8	25	19
Histokitt	31.5	20	630
Kevlar Gloves	4.7	30	142
Kim wipes	6.3	30	189
Knives	9.5	9	85
Labels	3.2	64	202
Marigold Gloves	0.5	200	106
Measuring Boards, la	65.1	6	391
Measuring Boards, s	50.4	6	302
Otolith Boxes	2.2	160	354
Permanent Markers	1.6	18	28
Pigment Paste	11.6	18	208
Plastic Bags	0.1	600	78
Protective Sleeves	2.1	60	126
Resin C	73.5	10	735
Rolls Tissue	4.2	30	126

Slides, box	31.5	36	1,134
Survey Boxes	10.5	8	84
WD 40	4.2	6	25
White Bags	0.8	160	131
Sensor repair & main	192	7	1,347
Net repair & mainten	4135	1	4,135
Freight	520	3	1,560
<b>TOTAL</b>			<b>13,668</b>

\* Detailed description within text

### SUMMARY

Survey Name	Total
Personnel	<b>108,565</b>
Sea Allowances	<b>54,625</b>
Vessel Charter	<b>588,000</b>
Travel & Acoustic Contract	<b>72,400</b>
Consumables	<b>13,668</b>
<b>GRAND TOTAL €</b>	<b>837,258</b>

**G. SURVEYS (2006 Min Prog)**

( Version 1 )

One for each survey

**SURVEY NAME: International Atlanto - Scandian Herring Survey**

PERSONNEL COSTS (€)				
Categorie *	Grade **	Number of days	Daily Rate***	Total
Scientist	STO	14	219	3,063
<b>TOTAL</b>				<b>3,063</b>

\* Scientific or technical staff only.  
 \*\* Please specify grade according to the salary scale of the organisation  
 \*\*\* Including wages, social costs, social security, and pension contributions BUT excluding indirect costs (OVERHEADS)

SEA ALLOWANCES (€)				
Categorie* / Grade **	Number of persons	Number of days at sea	Daily allowance	Total
Sci / STO	1	14	185.80	2,601
<b>TOTAL</b>				<b>2,601</b>

\* Scientific or technical staff only excluding crew members  
 \*\* Please specify grade according to salary scale of your organisation

VESSEL COSTS (€)					
<b>Vessel characteristics</b>					
Vessel Name	RV Dana				
Length	78.43				
Engine power	4,600 HP				
Tonnage	2,300GT				
Crew size	14 - 19				
<b>Operating costs per day</b>					
Fuel	1,623				
Lubricating oil	95				
Salaries and social cost for the crew	8,317				
Food	115				
Maintenance	3,684				
Harbour dues	N/A				
Insurance	N/A				
Hire of equipment to operate the vessel	N/A				
Others (specify)	133				
<b>TOTAL</b>	<b>13,967</b>				

Total operating costs					
Vessel Name	Charter				
No.of days of use	30				
Daily cost	13,967				
<b>TOTAL</b>	<b>419,010</b>			<b>38,548</b>	<b>419,010</b>

Ireland will fund €38,548 of the shiptime through the DCR (50% DCR/ 50% Irl funds).

### TRAVEL COSTS and Contracted Expertise (€)

Destination*	A Number of trips	B Number of persons	C Unit Travel cost (round trip)	A*B*C Total
RV Dana	1	1	800	800
<b>TOTAL</b>				<b>800</b>

\* Detailed description within text. Journeys outside UE, need Commission's agreement

### SUMMARY

Survey Name	Total
Personnel	3,063
Sea Allowances	2,601
Vessel Charter	38,548
Travel	800
Consumables	0
<b>GRAND TOTAL €</b>	<b>45,012</b>

**G. SURVEYS (2006 Min Prog)**

One for each survey

**SURVEY NAME: Blue Whiting Acoustic Surveys (Version 1)**

PERSONNEL COSTS (€)				
Categorie *	Grade **	Number of days	Daily Rate***	Total
Scientist	TL	27	311	8,391
	STO	27	219	5,907
	LT	42	192	8,052
<b>TOTAL</b>				<b>22,351</b>

\* Scientific or technical staff only.  
 \*\* Please specify grade according to the salary scale of the organisation  
 \*\*\* Including wages, social costs, social security, and pension contributions  
 BUT excluding indirect costs (OVERHEADS)

SEA ALLOWANCES (€)				
Categorie* / Grade **	Number of persons	Number of days at sea	Daily allowance	Total
Team Leader	1	21	185.80	3,902
Sci / STO	1	21	185.80	3,902
Tech / LT	2	21	185.80	7,804
Student	1	21	66.06	1,387
<b>TOTAL</b>				<b>16,994</b>

\* Scientific or technical staff only excluding crew members  
 \*\* Please specify grade according to salary scale of your organisation

VESSEL COSTS (€)					
<b>Vessel characteristics</b>					
Vessel Name	RV Celtic Explorer				
Length	65.5 m				
Engine power	4500 kW				
Tonnage					
Crew size	12				
<b>Operating costs per day</b>					
Fuel	N/A				
Lubricating oil	N/A				
Salaries and social cost for the crew	N/A				
Food	N/A				
Maintenance	N/A				
Harbour dues	N/A				
Insurance	N/A				
Hire of equipment to operate the vessel	N/A				
Others (specify)	N/A				
<b>TOTAL</b>	<b>14,000</b>				
<b>Total operating costs</b>					
Vessel Name	Celtic Explorer				
No. of days of use	21				
Daily cost	14000				
<b>TOTAL</b>	<b>294,000</b>				<b>294,000</b>

### TRAVEL COSTS and Contracted Expertise (€)

Destination*	A Number of trips	B Number of persons	C Unit Travel cost (round trip)	A*B*C Total
RV <i>Celtic Explorer</i> , transport of staff and equipment, before	2	1	300	600
<b>TOTAL</b>				<b>600</b>

\* Detailed description within text. Journeys outside UE, need Commission's agreement.

### CONSUMABLES (€)

Description *	A Unit cost	B Quantity	A*B Total
Acetone, 2 L	10.5	9	95
Batteries	3.2	30	95
Black Bags	0.2	200	44
Blue Fishing Gloves	5.3	100	525
Catalyst	4.2	18	76
Clipboards	3.2	12	38
Cotton Glove Liners	0.5	24	13
Disposable gloves, 100	7.9	24	189
Dry wipe Markers	1.4	18	25
Fish Boxes	25.2	6	151
Folders Clip	1.1	12	13
Folders Lever arch	2.6	9	24
Forceps, large	3.2	18	57
Forceps, medium	3.2	18	57
Forceps, small	7.4	18	132
Herring oto trays	0.8	25	19
Histokitt	31.5	20	630
Kevlar Gloves	4.7	30	142
Kim wipes	6.3	30	189
Knives	9.5	9	85
Labels	3.2	64	202
Marigold Gloves	0.5	200	106
Measuring Boards, large	65.1	6	391
Measuring Boards, small	50.4	6	302
Otolith Boxes	2.2	160	354
Permanent Markers	1.6	18	28
Pigment Paste	11.6	18	208
Plastic Bags	0.1	600	78
Protective Sleeves	2.1	60	126
Resin C	73.5	10	735
Rolls Tissue	4.2	30	126
Slides, box	31.5	36	1,134
Survey Boxes	10.5	8	84
WD 40	4.2	6	25
White Bags	0.8	160	131
Sensor repair & maintenance	192	7	1,347
Net repair & maintenance	4135	1	4,135
Freight	520	3	1,560
<b>TOTAL</b>			<b>13,668</b>

\* Detailed description within text

### SUMMARY

<b>Survey Name</b>	<b>Total</b>
Personnel	22,351
Sea Allowances	16,994
Vessel Charter	294,000
Travel & Acoustic Contract	600
Consumables	13,668
<b>GRAND TOTAL €</b>	<b>347,613</b>

## H - AGE & LENGTH OF LANDINGS (Version 1)

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men months	Monthly Rate	Total	
Scientist	TL	14	5,724	80,132	
	STO	43	4,084	175,617	
				0	
				0	
Technician	SLT	16	4,848	77,571	
	LT	156	3,579	558,284	
	LA	6	2,330	13,979	
	Co-ord Assist	6	3,180	19,078	
<b>Total</b>				<b>924,661</b>	

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
	60	1	1	42	6,264	8,763
<b>Purpose:</b>	Local Port Sampling. Travel from Marine Institute to various ports (daily trips).					
	74	2	3	132	27,046	85,687
<b>Purpose:</b>	Port Sampling. Travel from Marine Institute to various ports (3 day trips).					
						0
<b>Purpose:</b>						
						0
<b>Purpose:</b>						
<b>Total</b>						<b>94,450</b>

Travel costs are to be in accordance with internal rules of the beneficiary.  
For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
3 Waterproof Laptops	12852	0	36	1	0
2 Marine Scales	3433.5	12	60	1	687
In each of 5 locations: 2 x 500-171U 6 " Digital	3166.5	12	60	1	633
In each of 5 locations: 2 x 264-000-192 Digimatic	1210	12	60	1	242
In each of 5 locations: 1 x 264-000-196 Digimatic	1875	12	60	1	375
1 Ruggedised Laptop	4470	6	36	1	745
Database Laptop	1970	12	36	1	657
6 Sampling Laptops	18012	8	36	1	4,003
1 Bench Scales	2085.41	12	60	1	417
1 Bench Scales	2170	10	60	1	362
<b>Total</b>					<b>8,120</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).

The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases. General scientific equipment is not eligible.

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
Resins	161.2	6	967
Moulds	31.2	34	1,061
Section Blades	182	16	2,912
Otolith Trays	1.664	550	915
Chemicals	66.24	15	994
Freight	104	100	10,400
Purchase of Fish Samples	216	192	41,472
Plastic Bags	0.52	300	156
<b>Total</b>			<b>58,877</b>

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, **ELIGIBLE CONSUMABLES** can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

**NON ELIGIBLE** are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. **NON ELIGIBLE CONSUMABLES** are e.g. wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges,....

Computer costs (€)	
Description	Total Cost
<b>Total</b>	<b>0</b>

Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).

Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.

**VI.A. One table for each type of data (if applicable)**

Subcontracting and other costs (€)	
Description	Total Cost
Port Contract Samplers (port based measured samples)	19,000
Summer Students	14,177
<b>Total</b>	<b>33,177</b>

Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.

Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).

## SUMMARY

Staff Costs	924,661
Travelling expenses	94,450
Durable equipment	8,120
Consumable material and supplies	58,877
Computer costs	0
Subcontracting and other costs	33,177
<b>GRAND TOTAL €</b>	<b>1,119,286</b>

## H - AGE & LENGTH OF DISCARDS (Version 1)

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men/months	Monthly Rate	Total	
Scientist	TL	3.9	5,724	22,323	
	STO	1.95	4,084	7,964	
				0	
				0	
Technician	SLT	6.2	4,848	30,059	
	LA	3.1	2,330	7,223	
	LT	43.1	3,579	154,244	
	Co-ord Assist	5	3,180	15,898	
<b>Total</b>				<b>237,710</b>	

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
	5.0	6.0	5.0	185.8	11,043.0	38,913.0
	3.0	1.0	6.0	185.8	356.0	3,700.4
<b>Purpose:</b>	Demersal Discard sampling at sea					
	12.0	1.0	7.0	185.8	2,108.0	17,715.2
<b>Purpose:</b>	Pelagic Discard Sampling at Sea					
	42.0	1.0	5.0	185.8	11,953.4	50,971.4
<b>Purpose:</b>	Nephrops Fishery Discard Sampling at Sea					
<b>Total</b>						<b>137,597.7</b>

Travel costs are to be in accordance with internal rules of the beneficiary.

For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
6 Portable Scales	6867	12	60	100%	1,373
Weighing Scales	5209	12	60	100%	1,042
Marine Scales	4717	12	60	100%	943
<b>Total</b>					<b>3,359</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).

The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases.

General scientific equipment is not eligible.

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
Otolith Trays	1.664	120	200
Chemicals	93.6	6	562
Measuring Boards	72.8	12	874
Mobile Phones			2,350
Various			2,000
<b>Total</b>			<b>5,985</b>

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)	
Description	Total Cost
<b>Total</b>	<b>0</b>

Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).

Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.

**VI.A. One table for each type of data (if applicable)**

Subcontracting and other costs (€)	
Description	Total Cost
Contract with Skippers for Self-sampling of Discards	23,000
Sampling at Sea Discard Sampling Contract	118,000
<b>Total</b>	<b>141,000</b>

Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.

Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).

SUMMARY	
Staff Costs	237,710
Travelling expenses	137,598
Durable equipment	3,359
Consumable material and supplies	5,985
Computer costs	0
Subcontracting and other costs	141,000
<b>GRAND TOTAL €</b>	<b>525,651</b>

## H. AGE/LENGTH COMPOSITION OF DISCARDS (2006 Min Prog) - Demersal

Personnel costs (€)				
Categorie *	Grade **	Number of Men/month	Monthly Rate***	Total
Scientist	STO	3	4,084	12,252
	Team Leader	0.5	5,724	2,862
Technician	Senior LT	2	4,848	9,696
	Lab Tech	6	3,579	21,472
	FAT	27	3,579	96,626
<b>Total</b>				<b>142,909</b>

\* Scientific or technical staff only.  
 \*\* Please specify grade according to the salary scale of the organisation  
 \*\*\* Including wages, social costs, social security, and pension contributions  
 BUT excluding indirect costs (OVERHEADS)

### II. One table for each type of data (if applicable)

Travel costs (€)						
Destination*	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
Various Ports						
Fishing+Sampling Trips						
Sea Allowances for Discard Trips	5	6	5	185.80	11,043	38,913
	3	1	6	185.80	356	3,700
<b>Total</b>						<b>42,613</b>

\* for journeys outside the Community, prior agreement of the Commission shall be required.

### III. One table for each type of data (if applicable)

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use *	C Depreciation period **	D Percentage of use ***	A*B/C*D Total
Weighing Scales	5,209	12	60	100%	1,042
POLS					
Marine Scales	4717	12	60	100%	943
(See Durable Equip Invoices Section 2.2)					
<b>Total</b>					<b>1,985</b>

\* The period used to calculate this amount starts on the actual date of commencement of the programme, or the date of purchase of the goods where this occurs after the date of commencement, and ends on the date of completion of the programme.

\*\* Durable goods will be considered to have a probable life of 36 months in the case of computer equipment of a value not exceeding EUR 10.000 and 60 months in the case of others goods

\*\*\* Equal to 100% if the goods are exclusively used for this programme; otherwise, account should be taken of the use made during that period.

**IV. One table for each type of data (if applicable)**

**Consumable material and supplies (€)**

Description *	A Unit cost	B Quantity	A*B Total
Various			2,000
Mobile Phone (see Special Note)			2,315
<b>Total</b>			<b>4,315</b>

\* Office supplies is an unauthorised expenditure

**V. One table for each type of data (if applicable)**

**Computer costs (€)**

Description *	Total Cost
<b>TOTAL</b>	<b>0</b>

\* Expenditure on software for the management and interrogation of databases

**VI.A. One table for each type of data (if applicable)**

**Subcontracting and other costs (€) \***

Description	Total Cost
Sampling at Sea Contractors	118,100
<b>TOTAL</b>	<b>118,100</b>

\* Prior agreement of the Commission is requested for Subcontracting or unforeseen expenditure not falling within one of the above categories.

## SUMMARY

<b>Category of Costs</b>	<b>TOTAL</b>
Personnel	<b>142,909</b>
Travel Costs	<b>42,613</b>
Durable Equipment	<b>1,985</b>
Consumables	<b>4,315</b>
Computing Costs	<b>0</b>
Subcontracting	<b>118,100</b>
<b>Grand Total €</b>	<b>309,922</b>

## H. AGE/LENGTH COMPOSITION OF DISCARDS (2006 Min Prog) - Pelagic

I. One table for each type of data (if applicable)

(Version 1)

Personnel costs (€)				
Categorie *	Grade **	Number of Men/month	Monthly Rate***	Total
Scientist	TL	0.5	5,724	2,862
	STO	2	4,084	8,168
				0
				0
Technician	SLT	0.5	4,848	2,424
	LT	12.0	3,579	42,945
				0
<b>Total</b>				<b>56,399</b>

\* Scientific or technical staff only.  
 \*\* Please specify grade according to the salary scale of the organisation  
 \*\*\* Including wages, social costs, social security, and pension contributions BUT excluding indirect costs (OVERHEADS)  
 \*\*\*\* The "times sheets" in due form and certified by the responsible person must be filled in and available to be sent by the end of each period.

II. One table for each type of data (if applicable)

Travel costs (€)						
Destination*	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
Pelagic Sea Trips	12	1	7	185.80	2,108	17,715
						0
						0
						0
<b>Total</b>						<b>17,715</b>

\* for journeys outside the Community, prior agreement of the Commission shall be required.

III. One table for each type of data (if applicable)

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use *	C Depreciation period **	D Percentage of use ***	A*B/C*D Total
<b>Total</b>					

\* The period used to calculate this amount starts on the actual date of commencement of the programme, or the date of purchase of the goods where this occurs after the date of commencement, and ends on the date of completion of the programme.  
 \*\* Durable goods will be considered to have a probable life of 36 months in the case of computer equipment of a value not exceeding EUR 10.000 and 60 months in the case of others goods  
 \*\*\* Equal to 100% if the goods are exclusively used for this programme; otherwise, account should be taken of the use made during that period.  
 \*\*\*\* Copies of all the invoices should be provided

IV. One table for each type of data (if applicable)

<b>Consumable material and supplies (€)</b>			
<b>Description *</b>	<b>A Unit cost</b>	<b>B Quantity</b>	<b>A*B Total</b>
Otolith trays	1.6	120	192
Measuring boards	70	4	280
<b>Total</b>			<b>472</b>

\* Detailed description within text  
 \* Office supplies is an unauthorised expenditure

V. One table for each type of data (if applicable)

<b>Computing costs (€)</b>	
<b>Description *</b>	<b>Total Cost</b>
<b>TOTAL</b>	

\* Expenditure on software for the management and interrogation of databases

VI.A. One table for each type of data (if applicable)

<b>Subcontracting and other costs (€) *</b>	
<b>Description</b>	<b>Total Cost</b>
<b>TOTAL</b>	

\* Prior agreement of the Commission is requested for Subcontracting or unforeseen expenditure not falling within one of the above categories.  
 \*\* Copies of contracts and/or invoices should be provided

<b>SUMMARY</b>	
<b>Category of costs</b>	<b>Total</b>
Personnel	56,399
Travel costs	17,715
Durable equipment	0
Consumables	472
Computing cost	0
Subcontracting	0
<b>GRAND TOTAL €</b>	<b>74,586</b>

## I - OTHER BIOLOGICAL PARAMETERS (Version 1)

Staff costs (€)				
Categorie	Grade	Number of Men/months	Monthly Rate	Total
Scientist	TL	1	5724	5724
	STO	23.9	4084	97611
Technician	LT	9.8	3579	35072
	Co-ord Assist	0.3	3180	954
<b>Total</b>				<b>139360</b>

Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.

Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.

Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
	0					
<b>Total</b>						<b>0</b>

For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
Marine Scales	6171	12	60	100%	1,234
<b>Total</b>					<b>1,234</b>

until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
Fish Samples			74990

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services are not eligible, Please see also the explanations below

				Explanations below The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.
Total			74990	

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)		Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).  Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.
Description	Total Cost	
Total	0	

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€)		Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.  Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).
Description	Total Cost	
	0	
Total	0	

SUMMARY	
Staff Costs	139360
Travelling expenses	0
Durable equipment	1234
Consumable material and supplies	74990
Computer costs	0
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>215584</b>

Module J- Economic Data (Version 1)

I. One table for each type of data (if applicable)

Personnel costs (€)				
Categorie *	Grade **	Number of Men/month	Monthly Rate***	Total
Data Co-ordinator	Eng Grade III	12	4008	48096
Database Developer	Eng Grade III	12	4008	48096
Liaison officer	Executive	1	6620	6620
Economist	Eng Grade III	6	4023	24141
Pension contributions				4675
<b>Total</b>				<b>131628</b>

\* Scientific or technical staff only.  
 \*\* Please specify grade according to the salary scale of the organisation  
 \*\*\* Including wages, social costs, social security, and pension contributions BUT excluding indirect costs (OVERHEADS)  
 \*\*\*\* The "times sheets" in due form and certified by the responsible person must be filled in and available to be sent by the end of each period.

II. One table for each type of data (if applicable)

Travel costs (€)						
Destination*	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+ E*B Total
National	12	2	4	€100	500	15600
Other EU	2	2	5	€100	500	3000
<b>Total</b>						<b>18600</b>

\* for journeys outside the Community, prior agreement of the Commission shall be required.

III. One table for each type of data (if applicable)

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use *	C Depreciation period **	D Percentage of use ***	A*B/C*D Total
<b>Total</b>					<b>0</b>

\* The period used to calculate this amount starts on the actual date of commencement of the programme, or the date of purchase of the goods where this occurs after the date of commencement, and ends on the date of completion of the programme.  
 \*\* Durable goods will be considered to have a probable life of 36 months in the case of computer equipment of a value not exceeding EUR 10.000 and 60 months in the case of others goods  
 \*\*\* Equal to 100% if the goods are exclusively used for this programme; otherwise, account should be taken of the use made during that period.  
 \*\*\*\* Copies of all the invoices should be provided

IV. One table for each type of data (if applicable)

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
<b>Total</b>			<b>0</b>

\* Detailed description within text  
 \* Office supplies is an unauthorised expenditure

V. One table for each type of data (if applicable)

Computing costs (€)	
Description *	Total Cost
Adobe Acrobat 7 software	660
	<b>660</b>

\* Expenditure on software for the management and interrogation of databases

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€) *	
Description	Total Cost

\* Prior agreement of the Commission is requested for Subcontracting or unforeseen expenditure not falling within one of the above categories.  
 \*\* Copies of contracts and/or invoices should be provided

SUMMARY	
Category of costs	Total
Personnel	131628
Travel costs	18600
Durable equipment	0
Consumables	0
Computing cost	660
Subcontracting	0
<b>GRAND TOTAL €</b>	<b>150888</b>

## K - ECONOMIC DATA FOR PROCESSING INDUSTRY (Version 1)

No funding sought by Ireland under the Data Collection Regulation. Ireland will continue to conduct pilot surveys (Nationally funded in 2006)

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men/months / days	Monthly / Daily Rate *)	Total	
Scientist				0	
				0	
				0	
				0	
Technician				0	
				0	
				0	
<b>Total</b>				<b>0</b>	

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E  Total
						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
Purpose:						0
<b>Total</b>						<b>0</b>

Travel costs are to be in accordance with internal rules of the beneficiary.  
 For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D  Total
					0
					0
					0
					0
					0
<b>Total</b>					<b>0</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).  
 The de

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
			0
			0
			0
			0
			0
			0
			0
			0
<b>Total</b>			0

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)	
Description	Total Cost
<b>Total</b>	0

Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).

Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€)	
Description	Total Cost
<b>Total</b>	0

Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.

Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).

SUMMARY	
Staff Costs	0
Travelling expenses	0
Durable equipment	0
Consumable material and supplies	0
Computer costs	0
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>0</b>

## DEVELOPMENT DATA BASE (Version 1)

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men/months	MonthlyRate	Total	
Scientist	TL	3	5,724	17,171	
	TL - Developer	4	5,724	22,895	
	STO	9	4,084	36,757	
				0	
Technician				0	
				0	
<b>Total</b>				<b>76,823</b>	

\*) delete as appropriate

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
<b>Total</b>					<b>0</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).

The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases. General scientific equipment is not eligible.

Computer costs (€)		Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).  Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.
Description	Total Cost	
<b>Total</b>	<b>0</b>	

Subcontracting and other costs (€)		Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary. Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).
Description	Total Cost	
Subcontract to continue enhancement of STOCKMAN at MI (See text in National Programme)	41,250	
Subcontract to upgrade Economic Data Base (at BIM) ***	30,000	
Essentail server upgrade	9,000	
<b>Total</b>	<b>80,250</b>	

SUMMARY	
Staff Costs	76,823
Durable equipment	0
Consumable material and suplies	0
Computer costs	0
Subcontracting and other costs	80,250
<b>GRAND TOTAL €</b>	<b>157,073</b>

## CO-ORDINATION (Version 1)

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men/month	Monthly / Rate	Total	
Scientist					
Technician	SLT	0.5	4,848	2,424	
	LT	0.3	3,579	978	
	CA	0.5	1,972	986	
				0	
<b>Total</b>				<b>4,388</b>	

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
						23405
Purpose:	See Co-ordination meetings Table					
Purpose:						
Purpose:						
Purpose:						
Purpose:						
<b>Total</b>						<b>23405</b>

Travel costs are to be in accordance with internal rules of the beneficiary.  
 For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Durable equipment (€)					
Description	A Amount (VAT excluded)	B Number of months of use	C Depreciation period	D Percentage of use	A*B/C*D Total
					0
					0
					0
<b>Total</b>					<b>0</b>

The number of months of use starts at the date of purchase. There is a choice of counting until the end of the yearly programme or until the end of the multiannual programme. In any case, it can't be more than the depreciation period (see below).  
 The depreciation period is 36 months in case of computer equipment of a value not exceeding 10.000 € (per unit) and 60 months in other cases.  
 General scientific equipment is not eligible.

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
			0
			0
			0
			0
			0
			0
			0
			0
<b>Total</b>			<b>0</b>

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g. wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

Computer costs (€)	
Description	Total Cost
<b>Total</b>	<b>0</b>

Computer Cost are expenditure on the establishment (= development) and supply of software for the management and interrogation of databases (= purchase of software).

Maintenance costs such as licence fees or other overheads are not eligible. The description should clearly indicate the nature of the claimed cost.

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€)	
Description	Total Cost
<b>Total</b>	<b>0</b>

Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.

Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).

SUMMARY	
Staff Costs	4,388
Travelling expenses	23,405
Durable equipment	0
Consumable material and supplies	0
Computer costs	0
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>27,793</b>

**Extended Programme**  
**Detailed Budget**

**G - SURVEY NAME: Nephrops Ecology (Irish Sea) (Extended Programme) (Version 1)**

One financial form for each survey is to be completed

Staff costs (€)					Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.  Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pension contributions but excluding overheads.  Either monthly or daily rates, depending on actual payment modus in accordance with salary scale.
Categorie	Grade	Number of Men / days	Daily Rate *)	Total	
Scientist	TL	30	311	9324	
	STO	30	219	6564	
				0	
Technician	LT	12	192	2301	
	LT	72	192	13804	
				0	
				0	
<b>Total</b>				<b>31992</b>	

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
	2	6	1	0	1860	1860
Justification:	Transport of Staff & Equipment to vessel					0
Justification:						
<b>Total</b>						<b>1860</b>

Travel costs are to be in accordance with internal rules of beneficiary.

For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Destinations have to be clear and the purpose of each journey has to be entered below the calculation row.

Only traveling expenses in order to go aboard are eligible (for co-ordination travels see chapter "Co-Ordination").

Consumable material and supplies (€)				Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services are not eligible, Please see also the explanations below  The descriptions have to be clear, general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.
Description *	A Unit cost	B Quantity	A*B Total	
Recordable DVD	20	15	300	
Various	1200	1	1200	
			0	
			0	
			0	
			0	
<b>Total</b>			<b>1500</b>	

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publications, postage charges, ...

SEA ALLOWANCES (€)				
Categorie / Grade	A Number of persons	B Number of days at sea	C Daily allowance	A*B*C Total
TL	1	12	186	2230
STO	1	12	186	2230
SLT	1	12	186	2230
LT	5	12	186	11148
<b>TOTAL</b>				<b>17837</b>

VESSEL COSTS (€)			Comments / remarks
Vessel characteristics			
Vessel Name	RV. Celtic Voyager		<p>For research surveys at sea, including those conducted from chartered vessels, only rental costs and other operating costs are eligible. These costs as well as the vessel characteristics have to be defined as required.</p> <p>Indirect costs such as for safety training on board are not eligible.</p>
Length	31.4 m		
Engine power	n/a		
Tonnage	n/a		
Crew size	8		
Operating costs per day			
Fuel	n/a		
Lubricating oil	n/a		
Salaries and social cost for the crew	n/a		
Food	n/a		
Maintenance	n/a		
Harbour dues	n/a		
Insurance	n/a		
Hire of equipment to operate the vessel	n/a		
Others (specify)	n/a		
<b>TOTAL</b>	<b>5000</b>		
x Number of days of use	12		
<b>TOTAL</b>	<b>60000</b>		

VI.A. One table for each type of data (if applicable)

Subcontracting and other costs (€)		<p>Subcontract - outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.</p> <p>Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).</p>
Description	Total Cost	
<b>Total</b>	<b>0</b>	

SUMMARY	
Staff Costs	31,992
Travelling expenses	1,860
Consumable material and supplies	1,500
Sea allowances	17,837
Vessel costs	60,000
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>113,188</b>

**G - SURVEY NAME: Deepwater Trawl Survey (Version 1)**

One financial form for each survey is to be completed

Staff costs (€)				
Categorie	Grade	Number of Men days	Daily Rate	Total
Scientist	STO	42	219	9198
				0
				0
				0
Technician	SLT	34	264	8976
	LT	68	192	13056
				0
				0
<b>Total</b>				<b>31230</b>

Scientific and technical staff costs only. Administration, support staff, training costs etc. are not eligible.

Working time actually devoted to the project and calculated by reference to actual labour cost including wages, social costs and security, pe

\*) delete as appropriate

Travelling expenses (€)						
Destination	A Number of trips	B Number of persons	C Number of days	D Daily allowance	E Travel expenses	A*B*C*D+E Total
	1	6	1	120	2000	2720
Justification:						0
Justification:						
<b>Total</b>						<b>2720</b>

Travel costs are to be in accordance with internal rules of beneficiary.

For journeys outside the Community, prior agreement of the Commission is required (which in general will be given by acceptance of these journeys within the national programme).

Destinations have to be clear and the purpose of each journey has to be entered below the calculation row.

Only traveling expenses in order to go aboard are eligible (for co-ordination travels see chapter " Co-Ordination").

Consumable material and supplies (€)			
Description *	A Unit cost	B Quantity	A*B Total
Acetone, 2 L	10.5	9	94.5
Batteries	3.2	30	94.5
Black Bags	0.2	200	44
Blue Fishing Gloves	5.3	100	525
Catalyst	4.2	18	75.6
Clipboards	3.2	12	37.8
Cotton Glove Liners	0.5	24	12.72
Disposable gloves, 100	7.9	24	189.12
Dry wipe Markers	1.4	18	24.66
Fish Boxes	25.2	6	151.2
Folders Clip	1.1	12	12.6
Folders Lever arch	2.6	9	23.67
Forceps, large	3.2	18	56.7
Forceps, medium	3.2	18	56.7
Forceps, small	7.4	18	132.3
Herring oto trays	0.8	25	19.25
Histokitt	31.5	20	630
Kevlar Gloves	4.7	30	141.9
Kim wipes	6.3	30	189
Knives	9.5	9	85.05

Labels	3.2	64	201.6
Marigold Gloves	0.5	200	106
Measuring Boards, large	65.1	6	390.6
Measuring Boards, small	50.4	6	302.4
Otolith Boxes	2.2	160	353.6
Permanent Markers	1.6	18	28.44
Pigment Paste	11.6	18	207.9
Plastic Bags	0.1	600	78
Protective Sleeves	2.1	60	126
Resin C	73.5	10	735
Rolls Tissue	4.2	30	126
Slides, box	31.5	36	1134
Survey Boxes	10.5	8	84
WD 40	4.2	6	25.2
White Bags	0.8	160	131.2
Sensor repair & maintenance	192	7	1346.8
Net repair & maintenance	4135	1	4135.04
Freight	520	3	1560
			0
<b>Total</b>			<b>13668.05</b>

Consumables have to be directly linked to data collection; indirect costs (such as office supplies, infrastructure, administration and services) are not eligible. Please see also the explanations below.

The descriptions have to be clear; general descriptions are not accepted. If necessary, annexes or comments can be used for further explanations.

Eligible consumables have to be directly linked to and caused by the collection of data, such as tools, materials and other supplies exclusively necessary for sampling, measuring, age determination and other tasks required by the regulations. Provided that this is the case, ELIGIBLE CONSUMABLES can be e.g.: fish samples, otolith cutting tools, balances, measuring boards, plastic gloves, forceps, scales, fish baskets, sample boxes, envelopes (for otoliths), chemicals,... If directly caused by the collection of data, also replacements or repair of e.g. nets, floats, shackles are eligible.

NON ELIGIBLE are general consumables, such as office supplies and other goods without direct scientific reference point to the data collection requirements. NON ELIGIBLE CONSUMABLES are e.g: wires, cables, boots, clothes, batteries, trolleys, buckets, wipes, torches, signals, chargers, mobile phones, safety equipment, cars, publication, postage charges, ...

### SEA ALLOWANCES (€)

Categorie / Grade	A Number of persons	B Number of days at sea	C Daily allowance	A*B*C
				Total
STO	1	14	190	2660
SLT	1	14	190	2660
LT	1	14	190	2660
				0
<b>TOTAL</b>				<b>7980</b>

VESSEL COSTS (€)		
Vessel characteristics		Comments / remarks
Vessel Name	Commercial Charter	
Lengh	n/a	
Engine power	n/a	
Tonnage	n/a	
Crew size	n/a	
Operating costs per day		
Fuel	n/a	
Lubricating oil	n/a	
Salaries and social cost for the crew	n/a	
Food	n/a	
Maintainance	n/a	
Harbour dues	n/a	
Insurance	n/a	
Hire of equipment to operate the vessel	n/a	
Others (specify)	n/a	
<b>TOTAL</b>	<b>7500</b>	
x Number of days of use	14	Vessel selection will be through a advertised tendering process.
<b>TOTAL</b>	<b>105000</b>	

VI.A. One table for each type of data (if applicable)

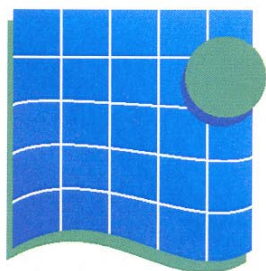
Subcontracting and other costs (€)		<p>Subcontract = outside assistance provided for beneficiaries unable to provide them themselves. These Costs have to be described in detail within the text and are only eligible with prior agreement of the Commission (in general by acceptance of the national programme). For countries outside the EU, written approval of the Commission is necessary.</p> <p>Other cost are those not falling within one of the previous categories. They have to be clearly described and justified (prior agreement of the Commission in general given by acceptance of the national programme).</p>
Description	Total Cost	
<b>Total</b>	<b>0</b>	

SUMMARY	
Staff Costs	31230
Travelling expenses	2720
Consumable material and suplies	13668
Sea allowances	7980
Vessel costs	105000
Subcontracting and other costs	0
<b>GRAND TOTAL €</b>	<b>160598</b>

**Annex I****Ireland - National Programme 2006****The Marine Institute, Personnel Grades and Average Salary Costs including Overhead for 2006**

<b>Grade</b>	<b>Abbreviation</b>	<b>DCR Work</b>	<b>Average Actual Annual Salary</b>	<b>Average Monthly Salary</b>
			€	€
Director	Nat Cor	National Correspondent	95,640	7,970
Section Manager	Sect Man	Scientist	88,620	7,385
Team Leader	TL	Scientist	68,688	5,724
Scientific Technical Officer	STO	Scientist	49,008	4,084
Senior Laboratory Technical	SLT	Technical	58,176	4,848
Laboratory Technician	LT	Technical	42,948	3,579
Fisheries Assessment Technician	FAT	Technical	42,948	3,579
Laboratory Attendant	LA	Technical	27,960	2,330
Co-ordination Assistant	Co-ord Asst	Co-ordination	38,160	3,180
Clerical Assistant	Cler Asst	Co-ordination	23,664	1,972
Engineer Grade II	Eng Grd II	Scientific	48,096	4,008
Executive	Exec	Scientific	79,440	6,620
Economist	Econ	Scientific	48,288	4,024

## Annex II



*Marine Institute*  
*Foras na Mara*

### **Bilateral Agreement between Ireland (M.I. Ireland) and Scotland (MARLAB) for the Collection of Length and Age Samples Under the Minimum Programme of Regulation 1639/2001**

In its report from December 2003, SGRN noted that length and age sampling of landings by foreign vessels could be improved by better task sharing between the countries involved.

In compliance with this, Ireland and Scotland have agreed that samples of fish landed by Irish vessels into Scotland will be sampled by MARLAB. Landings by Scottish vessels into Ireland and transported for first sale into Scotland will be sampled upon arrival in the Scottish auctions by MARLAB as part of the Scottish National Data Gathering Programme, under the requirements of the EU Data Collection Regulation (1639/2001). MARLAB will ensure that the estimated additional landings are included in their target when calculating sampling levels, and when applying for funds to cover this additional sampling requirement.

At the same time, Ireland agrees to carry out additional sampling of fish landed by Scottish vessels for sale in Ireland. MI also ensures they will sample Irish vessels landing fish into Scotland which are transported for first sale in Ireland as part of the Irish National Data Gathering Programme, under the requirements of the EU Data Collection Regulation (1639/2001). MI will ensure that the estimated additional landings are included in their target when calculating sampling levels, and when applying for funds to cover this additional sampling requirement.

This agreement confirms the arrangements in place for 2004, and agrees that it should be continued in 2005 and 2006. After this time this current agreement will be extended subject to review.

Signed: Gráinne ní Chosáin  
Marine Institute, Ireland.

Date: 26/04/2005

Signed: Margaret A. Beal  
MARLAB, Scotland.

Date: 3/05/2005



# ECONEPH

## Ecosystem benefits of Technical Measures in the Western Irish Sea Nephrops fishery

### Background

In spite of efforts by fishermen and semi-state agencies to modify fishing gear through technical conservation measures (TCMs), accidental bycatch of juvenile whiting in the Irish Sea Nephrops fishery gives cause for concern.

This is thought to be because:

Conservation benefits are simply not measurable using current stock assessment techniques.

Scientists do not routinely collect data to evaluate TCMs.

Uptake of TCMs by fishermen have been poor.

Industry and scientists have not been working together to evaluate and critically review the implications of TCMs in the context of the Irish Sea.

Nevertheless, the Irish fishing industry believes that TCMs are critical to rebuild stock. They also believe that recent management measures introduced by the EC (namely the closure of all Irish Sea Fisheries for cod and whiting) have made matters worse.

### The Problem of Discarding

Several fish stocks in the Irish Sea have deteriorated to the extent that the EU's Advisory Committee on Fisheries Management have advised the closure of all Irish Sea fisheries that target cod or whiting.

Despite the modifications of gear to reduce unwanted catches of juvenile fish, there is still cause for concern.

This joint project between the Marine Institute, the IFPO and BIM aims to address this concern.



### What is Needed?

If Ireland is to prove that TCM's have an important role in rebuilding stocks and protecting the ecosystem, the following actions are needed:

1. Accurate determination of the degree to which each TCM is being adopted by the main fleets.
2. Communication of the effectiveness of TCMs back to all stakeholders, to promote increased uptake and further improvements through modification.
3. Setting of theoretical targets through simulation studies, so as to inform the management decisions of all stakeholders in a progressive management framework - which might be carried out through the proposed EU Regional Advisory Councils (RACs).
4. Creation of greater transparency / co-operation between scientists and industry in the assessment and advisory process.

### The Project

The objectives of ECONEPH are:

- To agree on the main types of fishing gear and how they are used in the Irish Sea as well as the discard rates of key fish species as related to gear used by self-sampling by industry.
- To improve estimates of discards used in stock assessments.
- To quantify the potential effects of different gears on discard rates as well as the effect of change of use, so as to improve exploitation rates and reduce discards.
- To compare actual and theoretical improvements.
- To communicate the results to all stakeholders.