Notification of Research Cruise

Programme SELAR 2018 MARMARES Bottom Trawl Selectivity Cruise

Part A:

1.- Vessel name: MAR MARES

2.- Cruise period: 1 April to 31 May (depending on sea conditions)
3.- Institute in charge of the cruise: AZTI Tecnalia (Spain)
4.- Vessel owner: LAGUN TALDE S.A.
5.- Characteristic of the vessel: Stern Bottom Trawler

Name: MAR MARES
Nationality: Spanish
Total length: 38.5 m
Draft maximum: 4,2 m
Gross Tonnage: 409.1 GT
Horse Power: 964 HP
Call Signal: E.C.E.O. 3VI 2-3-03
Telephone: (Owner office) (34) 946831306
Telefax: (34) 946833327

6.- Crew
Name of the Captain: Txomin Bilbao
Crew menbers: 12

7.- Scientific Crew:
Name and address of the researcher responsible of the cruise:
Luis Arregi
AZTI - Tecnalia / Itsas Ikerketa Saila
Txatxarramendi Ugartea z/g
48395 Sukarrieta (Bizkaia)-SPAIN
e-mail: larregi@azti.es
Nº telephone: (34) 94 6574000
Nº telefax: (34) 94 6572555

Number of researchers: 2

8.- Geographical area of the cruise (given by latitude and longitude):

The cruise will be carried out in the division VIa, where Spanish trawlers carry out their commercial fishing activity. This is, between 59º 00´N and 57º 00´N in latitude and between 07º 38´W and 09º 00´W in longitude and out of the cod fishing exclusion areas.

9.- Brief description of the Cruise objectives

To test, under commercial fishing conditions, the ability of selective devices in reducing the catch of non-desired fish (discard).

10.- Dates and name of the stopover harbours planned

According to the current planning, the cruise is expected to start and finish in Lochinver (Scotland).

11.- Any logistical requirement in the stopover harbours

Nothing particular

Part B:

1.- Name of the vessel:

MAR MARES, E.C.E.O. 3VI 2-3-03.

2.- Period concerned:

Between the 1st of April and the 31st of May. To be specified depending on the weather conditions, as well as the presence of the vessel in the area.

3 – Objective of the Cruise and general methods of work:

The overall objective of this cruise is the minimization of discards in the trawl, with special attention to the species subject to a TAC in relation to the new EU regulation on discard reduction.

In addition, the following specific objectives will be explored:

• Characterize the behaviour of different species within the trawl, and main parts that make up the trawl.

• Based on observed fish behaviour, design selective devices to be set inside the trawl, taking into account the most suitable position.

• To analyse he technical and economic effectiveness of the selective devices designed.

Methodology

It is expected to use a small meshed inner (about 50 mm mesh size) for the codend. Besides, a Square Mesh Panel will be inserted in the upper panel of the trawl and a small mesh cover will be set to collect all the fish escaping through the SMP in order to measure quantify and characterize the escapement. In essence, the selectivity properties of the SMP will be analysed.

Underwater cameras, will be attached to the trawl to observe the behaviour of the fish inside the net, and in relation to the selective devices.

4 - **Include a map showing (at a suitable scale) the geographical area in which the work proposed will be conducted.**

The cruise will be carried out in the division VIa, within the area defined by the yellow polygon in the map and delimited by the points in the following table:

59º 00' 07º 38'	58º 40' 07º 40'
58º 25' 09º 25'	58º 10' 09º 00'
58º 00' 09º 40'	57º 50' 09º 20'
57º 25' 09º 35'	57º 20' 09º 20'
57º 00' 09º 15'	57º 00' 09º 00'

5 - Type of studied samples:

The samples will be fish of various species (commercial and non-commercial) in order to obtain size selection of the trawl with selective devices and thus determine the selectivity of the trawl.

6 – Details concerning the equipment used in the Cruise

In addition to the typical trawl used by commercial Spanish vessels operating in the area VIa, composed by a trawl with a 100 mm codend, underwater cameras will be fixed for observation of the behaviour of the trawl and the fish in the vicinity of the selective devices.