

EUROPEAN UNION OBSERVER PROGRAMME ON PURSE SEINERS IN THE INDIAN OCEAN

By

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ABSTRACT

The European Union has initiated a Data Collection and Management Programme for the period 2002 – 2006. One of the actions to be performed within this programme are trips of observers on tuna purse-seiners, in the Indian and Atlantic Oceans, so as to obtain information about tuna discards and species associated with this fishing. A manual has been drawn up for data collection with precise instructions for observers and with identification cards of the various species of tuna and species associated with this fishing.

INTRODUCTION

The European Union has initiated a Data Collection and Management Programme for the period 2002 – 2006. This programme is aimed at procuring information on catch, effort and biological parameters of all the fisheries undertaken in European waters and/or by fleets flying the flags of community countries. One of the actions to be performed within this programme are trips of observers on tuna purse-seiners, in the Indian and Atlantic Oceans, so as to obtain information about tuna discards and species associated with this fishing, namely, cetaceans, sharks, swordfish, and turtles.

OBSERVER PLAN

Although the observer programmes are national, that is, performed independently by each country, the programme project: definition of forms, selection criteria, training course content, trip planning, etc, has been carried out in a coordinated fashion between European countries with a tropical purse-seine fleet (France and Spain), through their corresponding research institutes (AZTI, IEO and IRD).

METHODS

In this document, we refer only to the Spanish national programme. 12 trips are foreseen throughout 2003, and attempts will be made to concentrate observations in the months when fishing over floating objects takes place. The calendar is included in the following table:

Table 1 Distribution of trips on Spanish purse-seiners in 2003.

Month	1	2	3	4	5	6	7	8	9	10	11	12
N.trips			1	1	1	1	1	1	2	1	2	1

After 2004, attempts will be made to increase coverage to 10% of total trips undertaken by the fleet (around 20 trips).

A manual has been drawn up for data collection with precise instructions for observers and with identification cards of the various species of tuna and species associated with this fishing.

The information has been divided into four sections:

- Information about the route and activity of the vessel and environmental parameters
- Information about fishing tuna and species associated with tropical tuna fishing
- Biological sampling of tuna and associated species
- Information about floating objects

Figures 1 to 5 show a series of forms designed to collect this information

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Formulario **A**

RUTA Y PARAMETROS MEDIOAMBIENTALES

Formulario ruta n°:

Corredera mañana:

Nombre del barco:

Barco n°:

Fecha:

Corredera tarde:

Nombre del observador:

Linea	Hora				Latitud	Longitud	Activid. Activid. Base Observ	Velocidad	Temperatura de superficie	Veloc. viento	Mudo	Sistemas observados	Distancia	Razon no tenia	Formul. B D
	H	M	S	MS											
0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
32															
33															
34															
35															

Notas:

Datos verificados:

Figure 1 Form for the route and environmental parameters

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Formulario **B**

CARACTERISTICAS DE LA PESCA

Lance n°:	Fecha:	Nobre del barco:	Barco n°:
Formulario ruta n°:		Línea ruta n°:	Nombre observador :

Características de la pesca

Estimación tamaño YFT:	/
del banco (t) y SKJ:	/
Peso medio (kg) BET:	/

Sistemas observados

--	--	--	--	--	--

Utilización del sonar	Antes de la maniobra	Espesor del banco	
		Profundidad media	
		Profundidad comienzo	
	¿ Se utiliza durante la maniobra?	SI	NO

Hora comienzo lance			
h	h	m	m

Hor.fin recogida jareta			
h	h	m	m

Hora final del lance			
h	h	m	m

Profundidad (1)
cierre jareta

Razón lance nulo

Capturas atunes

Especie	Cat.	Peso	Cuba	Especie	Cat.	Peso	Cuba	Especie	Cat.	Peso	Cuba

Especie	Cat.	Peso	Cuba	Especie	Cat.	Peso	Cuba	Especie	Cat.	Peso	Cuba

Descartes de atunes

Izado a bordo	Si	No
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Especie	Cat.	Peso	Especie	Cat.	Peso	Especie	Cat.	Peso	Especie	Cat.	Peso

Otras especies

	Especie	Estimac. cuantitat.	p n°	talla peso	Deve- nir	Especie	Estimac. cuantitat.	p n°	talla peso	Deve- nir	Especie	Estimac. cuantitat.	p n°	talla peso	Deve- nir
P.con espada															
Seláceos															
Otros peces															
Tortugas															
Cetáceos															

Notas

Datos verificados:

24/03/2003

Figure 2 Fishing form

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Formulario **C1**


MUESTREO ATUNES

Formulario muestreo n°: Lance n°: Fecha: Nombre observador:

Formulario ruta n°: Línea ruta n°: Nombre barco: Barco n°:

Captura ☐

Descartes ☐



RABIL		PATUDO		LISTADO		HELVA		BACORETA	
LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

Figure 3 Tuna sampling form


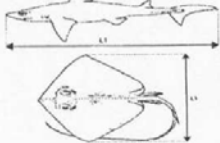

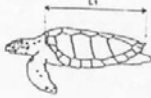
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Formulario C2

MUESTREO ESPECIES ASOCIADAS

Formulario muestreo n°: _____ Lance n°: _____ Fecha: _____ Nombre observador: _____

Formulario ruta n°: _____ Línea ruta n°: _____ Nombre barco: _____ Barco n°: _____

	ESPECIE	L1	SEXO	FOTO n°	ROLLO n°
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

NOTAS:

Figure 4 Associated species sampling form

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Formulario D

SEGUIMIENTO DE OBJETOS FLOTANTES

Formulario D n°: _____

Formulario ruta n°: _____ Línea ruta n°: _____

OPERACIÓN CON OBJETO	TIPO DE OBJETO	DEVENIR del OBJETO	TIPO BALIZA	CODIGO BALIZA	
				Al recoger	Al plantar
Plantado			Radiogoniometro		
Visitado			Radiogoniometro + GPS		
Pesca			GPS Tipo SHERPE (Bola)		
			Satelite + Ecosonda		

EN CASO DE NO REALIZACIÓN DEL LANCE ASOCIADA (en Tm.) CATEGORIA COMERCIAL		
Rabil		
Patudo		
Listado		
Melva		
Bacoreta		
Total Túnidos		

OBSERVACIONES:

Figure 5. Floating object form