

FISHERIES MANAGEMENT AT CABRERA NATIONAL PARK



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Cabrera National Park

Total surface: 10.021 Ha.

Marine zone: 8.704 Ha.

Terrestrial zone: 1.316 Ha.



- Traditional activity based on artisan fishing gears
- Cabrera fisheries stocks have differential market value in Majorca
- First regulations in 1991
- From September 2001 fishing regulated via a specific Fisheries Management Plan



Jules David del.

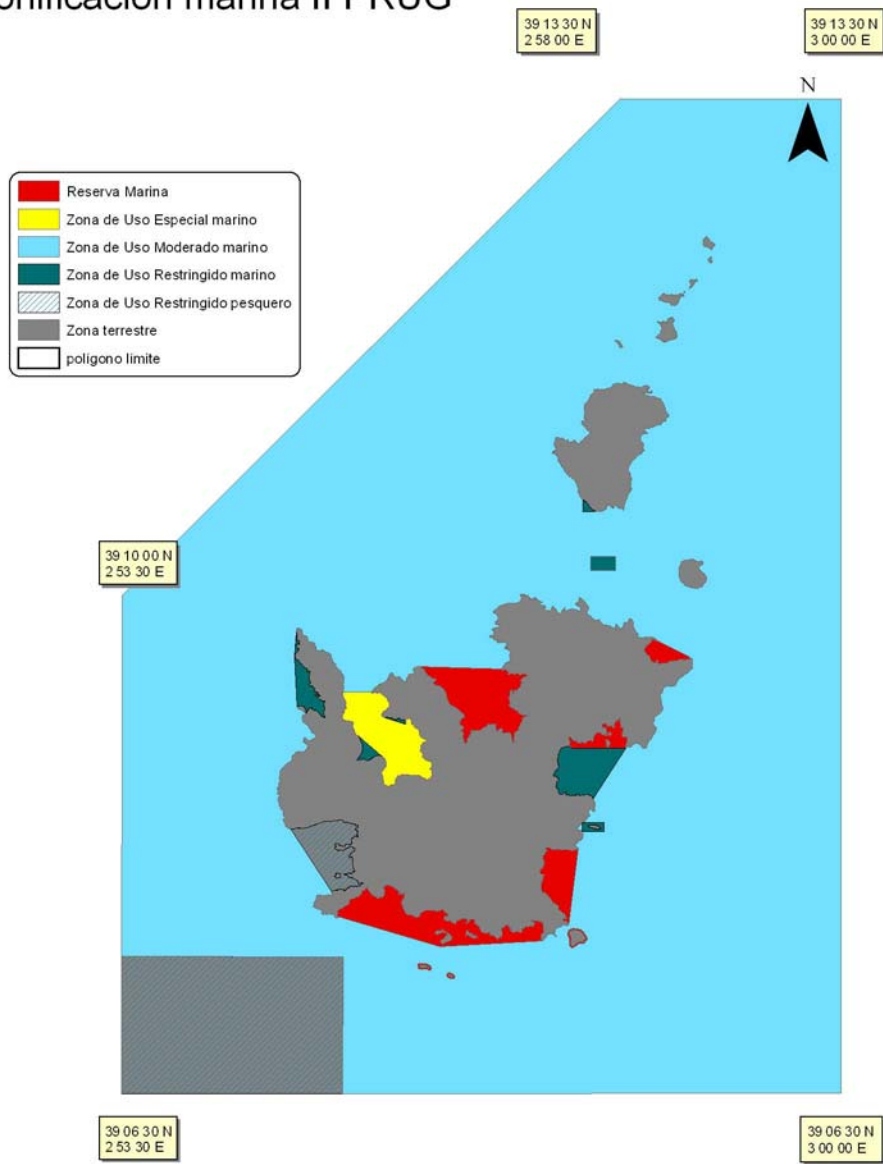
Allais sc.

• Fisheries at Cabrera waters

LES PÊCHEURS MAJORQUINS.

Nous nous précipitons sautant à bord seurtant...

Zonificación marina II PRUG



Fisheries Management Plan (RD 941/01)

Monitoring of fisheries, fishing effort and law enforcement at Cabrera waters carried out by the park staff and external agents (mostly IEO)

- Catches registered by the fishermen themselves and external agents (mostly IEO)
- Data loaded into data bases and GIS to perform data analysis and effort maps

Fisheries Management Plan (RD 941/01)

- Fishing restricted to artisan professional fishermen, belonging to harbours in the vicinity of the park and with proved activity in the area before park's declaration in 1991.
- 61 fishing boats belonging to 4 harbours: Palma, Porto Colom, Santanyi and Colonia de Sant Jordi. Closed list.
- Sport fishing totally banned in the whole of Cabrera waters
- Non traditional or massive fishing gears forbidden: trawlers, long-line fisheries, etc

Fisheries Management Plan (RD 941/01)

- Fishing gears, fishing effort, daily timing and yearly calendar (closed seasons) stricly regulated
- Fishermen have to apply in advance for a week license, allowing to work from Monday to Friday, up to a maximum of 20 boats/day
- Bathimetric limitations: Gill nets and trammel nets forbbiden under 20 m
- No Take Areas: strict Marine Reserves (MR) with a total area of 264 ha
- Cabrera harbour and diving zones managed as a fisheries reserve as well

	<i>MORUNAS</i>	GILL NETS	BOTTOM HOOK LINES	CERCO	TOTAL
COL. SANT JORDI	4(+1)	4	3	0	10
SANTANYI	2(+1)	2	1	0	6
PALMA	0(+1)	1	1	1	3
PORTO COLOM	0	1	0	0	1
TOTAL	6	8	5	1	20

ARCHIPELAGO DE
CARRERA



CONTROL DIARIO ARTES DE PESCA					FECHA 16/12/2003	
Nº REG.	TRIP. 1	TRIP. 2	HORA	EMBARCACION	ZONA (UTM)	ARTE
10	IL	JS	9 : 00	Silmar III	0499527' 4339227	12
1B			:		04999741' 4338781	
2	IL	JS	:	Tres Hermanos	0497563' 4336853	16
30	IL	JS	:	Silmar III	0498941' 4338174	12
3B			:		4337609' 4335637	
4	IL	JS	:	Silmar III	0497834' 4335248	16
50	IL	JS	:	Calypso II	0498241' 4336162	1
5B			:		0498743' 4335258	
60	IL	JS	:	Calypso II	0494103' 4332638	1
6B			:		0496943' 4332277	
7	IL	JS	:	Calypso II	0494445' 4330461	15
			:		/	
			:		/	
			:		/	
			:		/	
			:		/	
			:		/	
			:		/	
OBSERVACIONES						

Código vigilantes		Código artes	
ANTONI GARCIA	AG	TRASMALLO	1
ANTONIO SERRA	AS	BETA PARA CAMEL	2
DAMIA ORELL	DO	BETA PARA SALMONETE	3
DIEGO ARENAS	DA	BOLERO	4
FRANCISCO LOPEZ	FL	ALMADRABILLA	5
IGNACIO LARRAURI	IL	ALMADRABA	6
JAVIER JURADO	JR	SOLTA	7
JOAN SALOM	JS	MORUNA -	8
JUAN GUIJARRO	JG	CERCO	9
LLORENÇ SERRA	LS	JONQUILLERA	10
PERE LLOBERA	PL	LLAMPUGUERA	11
TOLO RIPOLL SOLER	TRS	PALANGRILLO	12
TOMAS AYERDI	TA	CURRICAN	13
TOMEU RIPOLL MARTORELL	TRM	FLUXA	14
XAVIER TORRES	XT	VOLANTIN	15
		POTERA	16
		NASA	17
		GAMBI	18

A close-up photograph of a person's hands writing on a clipboard. The clipboard has a yellow sticky note at the top left and a pen resting on it. The background is a blurred view of the ocean.

MONITORING OF FISHING ACTIVITY: fields in the database

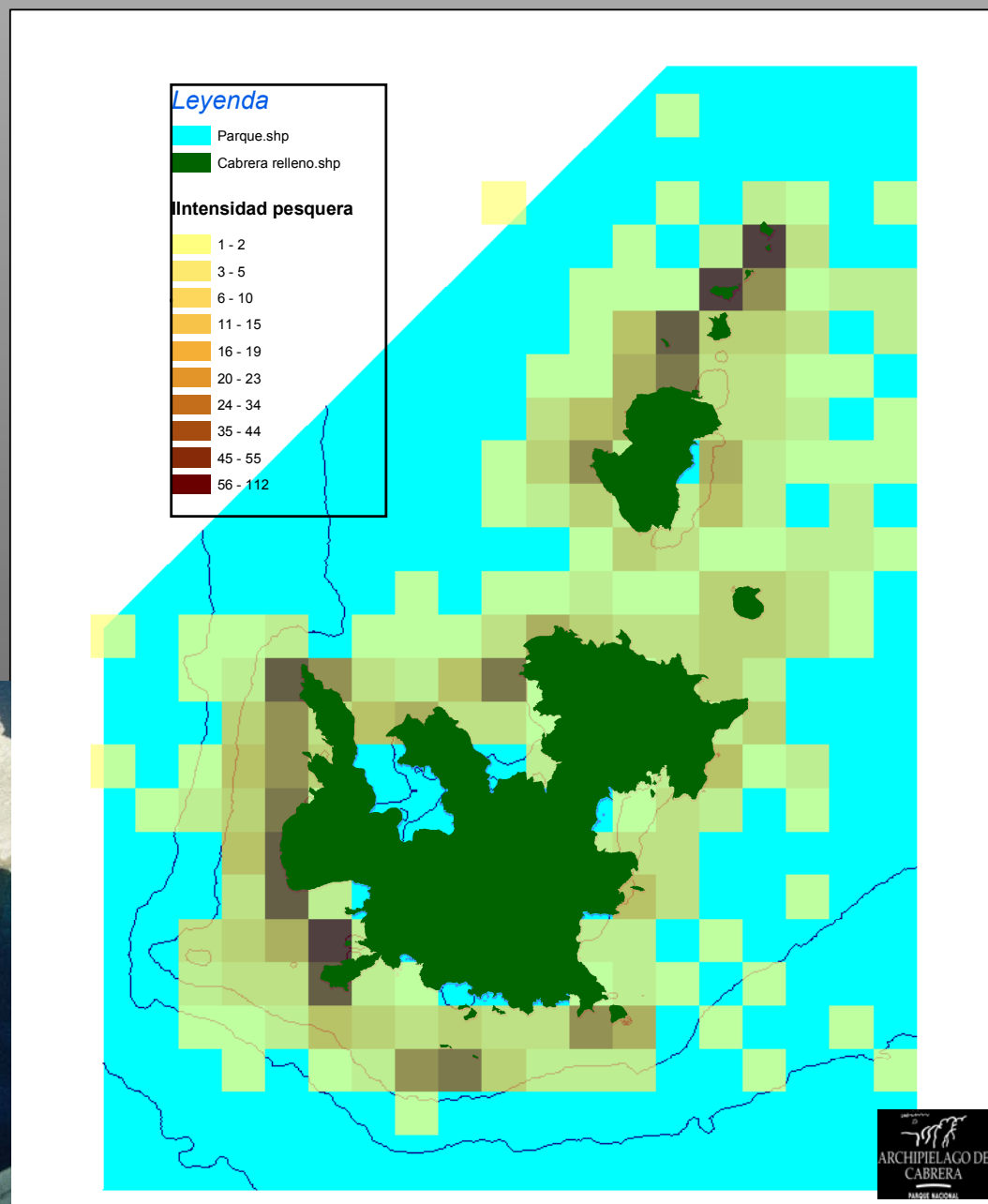
REGISTRO	DS	FECHA	AVISTAMIENSALIDAS_DY	AVISTAMI_1	TRIP1	TRIP2	EMBARCACION
1	jue	2003-01-02	0	1	1 TRS	XT	TRES HERMANOS
2	vier	2003-01-03	0	2	1 TRS		TRES HERMANOS
3	vier	2003-01-03	0	0	2 TRS		CALIPSO II
4	lun	2003-01-13	0	4	1 IL	JS	TRES HERMANOS
5	lun	2003-01-13	0	0	2 IL	JS	PTO. COLOM
6	lun	2003-01-13	0	0	3 IL	JS	JUAN MANUEL
7	lun	2003-01-13	0	0	4 PL	TR	SILMAR III
8	mar	2003-01-14	0	13	1 IL	JS	TRES HERMANOS
9	mar	2003-01-14	0	0	2 IL	JS	CRESCENCIA
10	mar	2003-01-14	0	0	3 IL	JS	LAUBA
11	mar	2003-01-14	0	0	4 IL	JS	CRESCENCIA
12	mar	2003-01-14	0	0	5 IL	JS	SILMAR III

CODIGO	COF	LTA	MATRÍCULA	X	Y	XG	YG	X100	Y100
30	CSY	3	PM-1-1108	4334500	494000			940	345
30	CSY	3	PM-1-1108	4334000	493500			935	340
3	CSY	3	PM-1-1950	4334500	493000			930	345
30	CSY	3	PM-1-1108	4334500	495000			950	345
25	CSY	3	PM-4-216	4334500	497500			975	345
12	CSY	3	PM-1-1830	4339000	498000			980	390
27	CSY	3	PM-1-1995	4333500	493000			930	335
30	CSY	3	PM-1-1108	4338500	497000			970	385
0	STY	3	PM-1-1754	4339000	498500			985	390
14	CSY	3	PM-1-1847	4339000	498000			980	390
0	STY	3	PM-1-1754	4338500	498500			985	385
27	CSY	3	PM-1-1995	4330000	494500			945	300

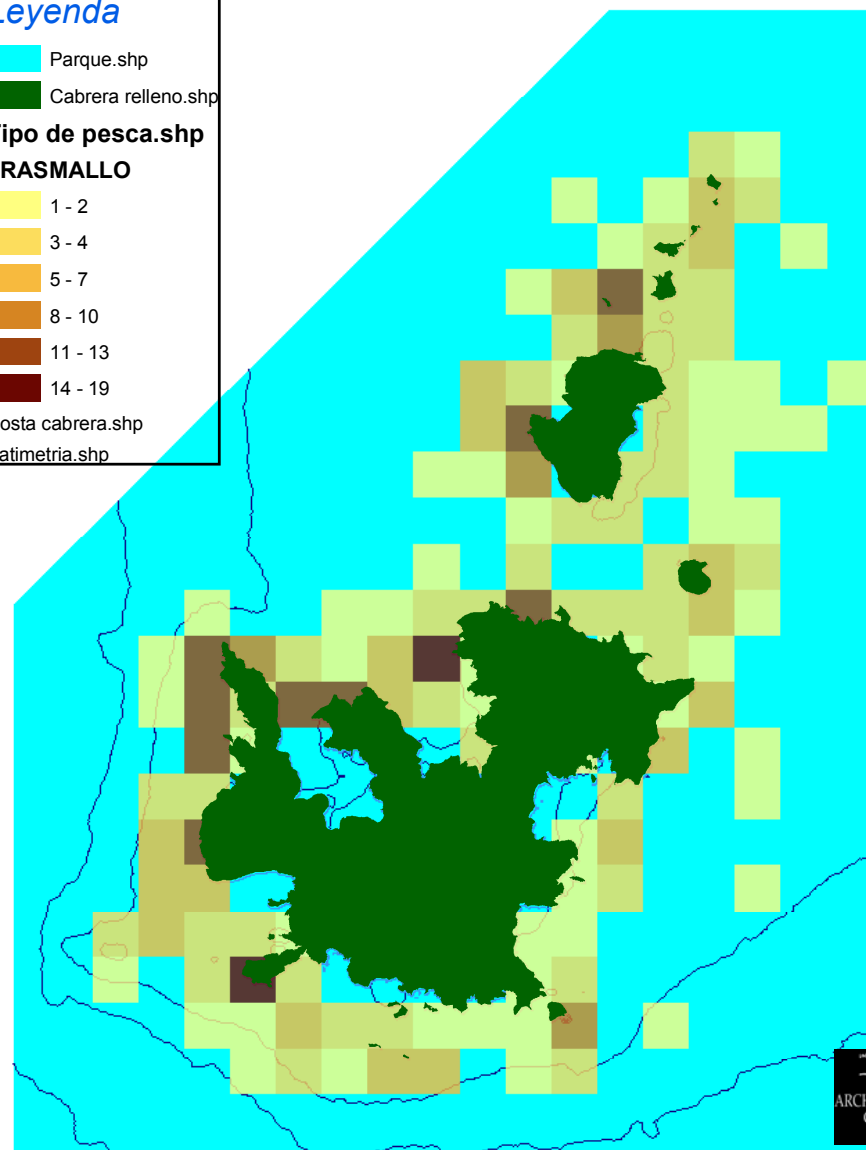
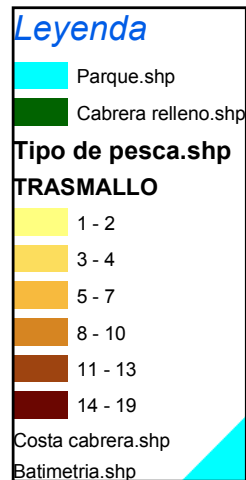
- In 2003, more than 1900 fishing events have been included in the data base

MONITORING OF FISHING ACTIVITY : generation of maps and reports

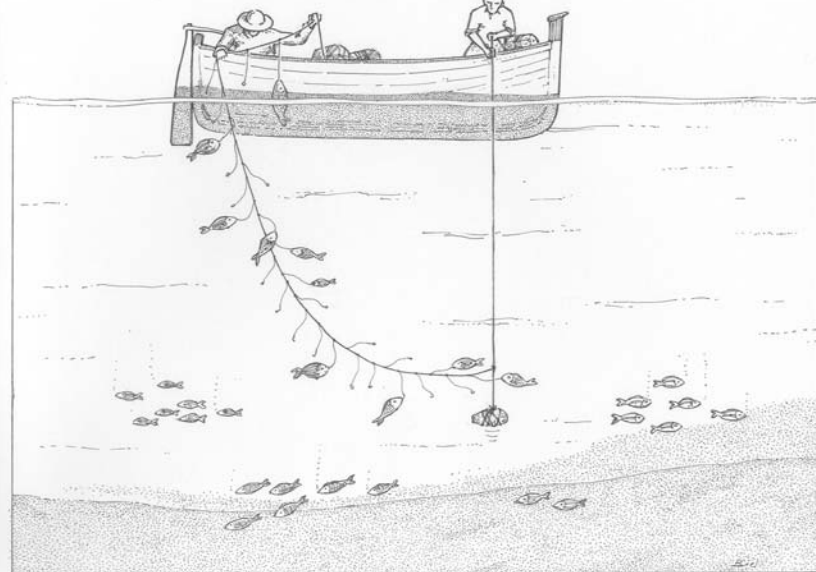
Total fishing activity 2003



Fishing activity 2003: gill nets



Intensidad pesquera 2003: palangre

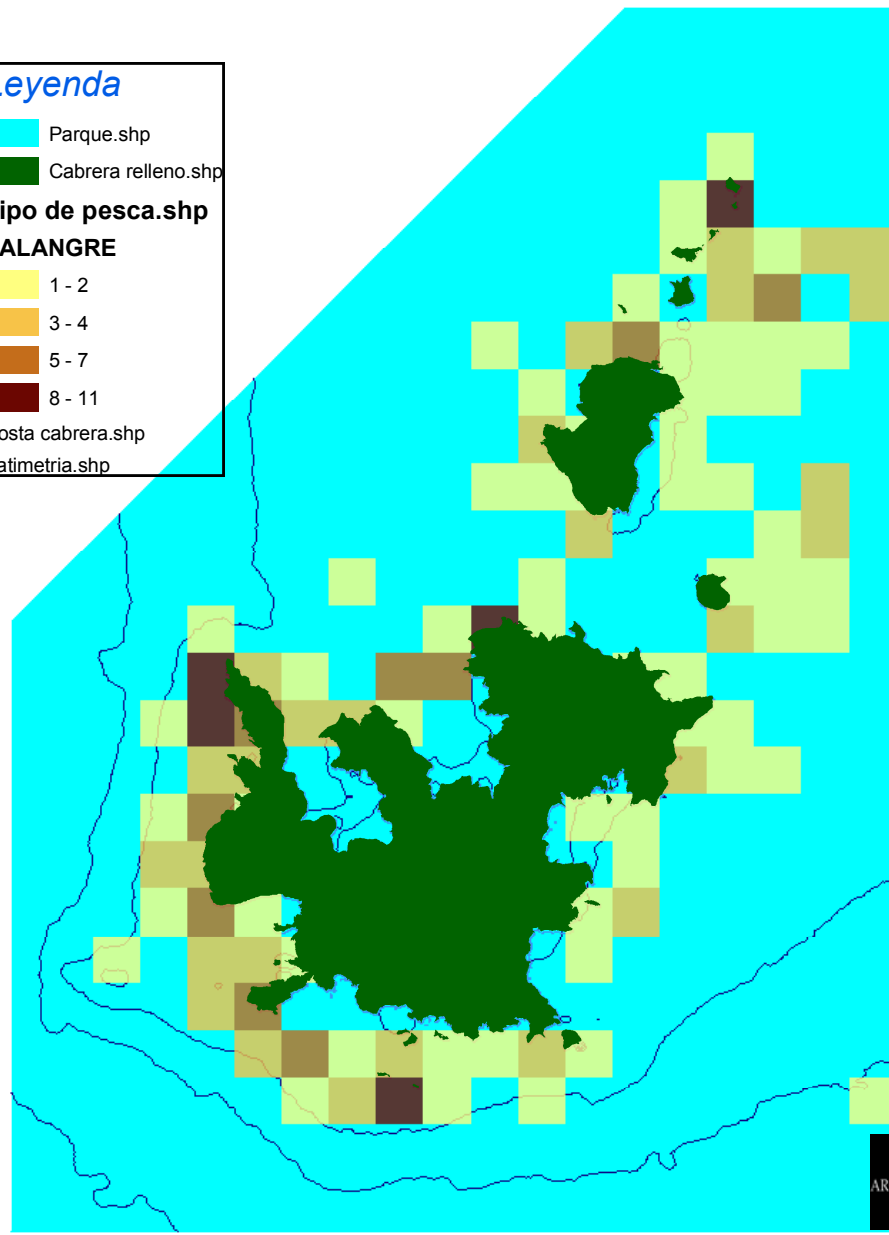


Fishing activity 2003: bottom line fishery



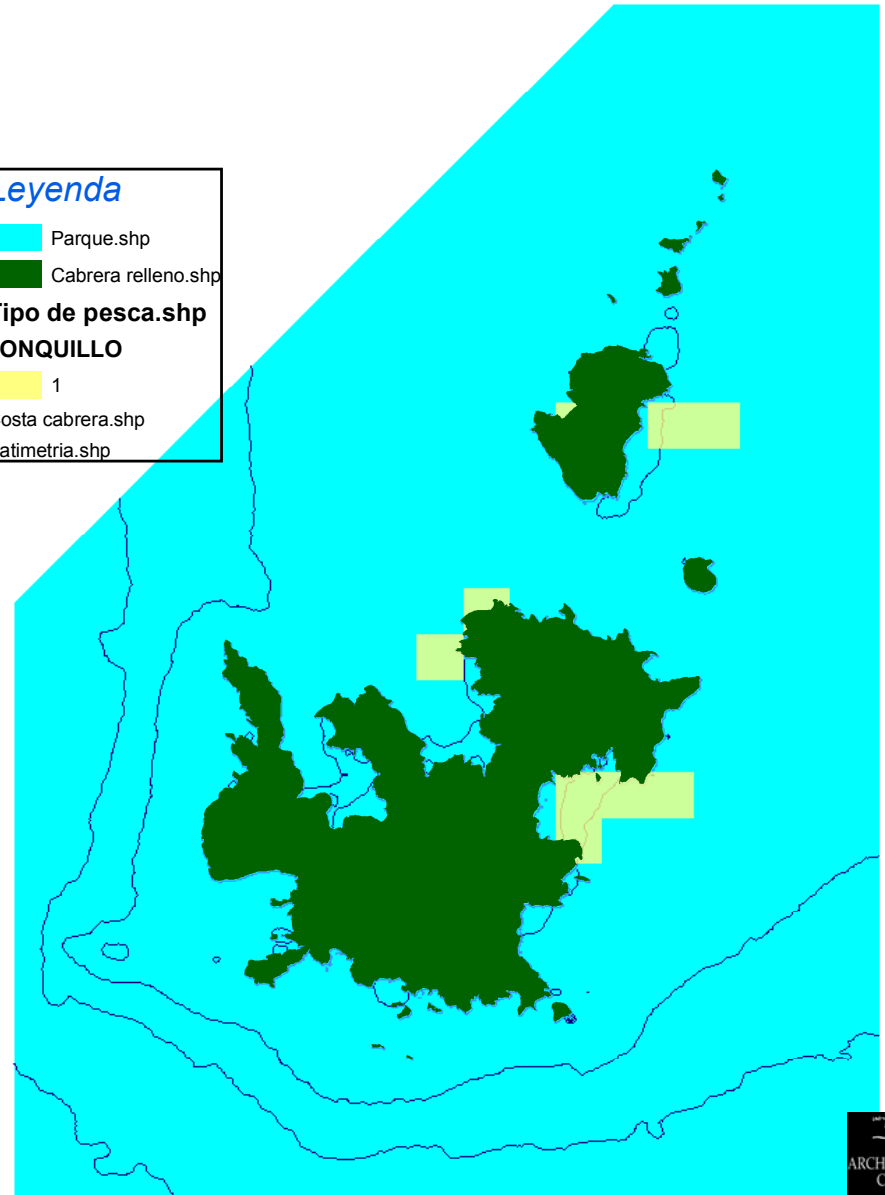
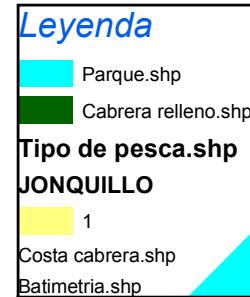
Leyenda

- Parque.shp
- Cabrera relleno.shp
- Tipo de pesca.shp**
- PALANGRE**
- 1 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- Costa Cabrera.shp
- Batimetria.shp



Intensidad pesquera 2003: jonquillo

Fishing activity 2003: small scale trawlers (*jonquillera*) for *Aphia minuta* and related species



Fishing activity 2003: gill nets for mullets



Leyenda

Parque.shp

Cabrera relleno.shp

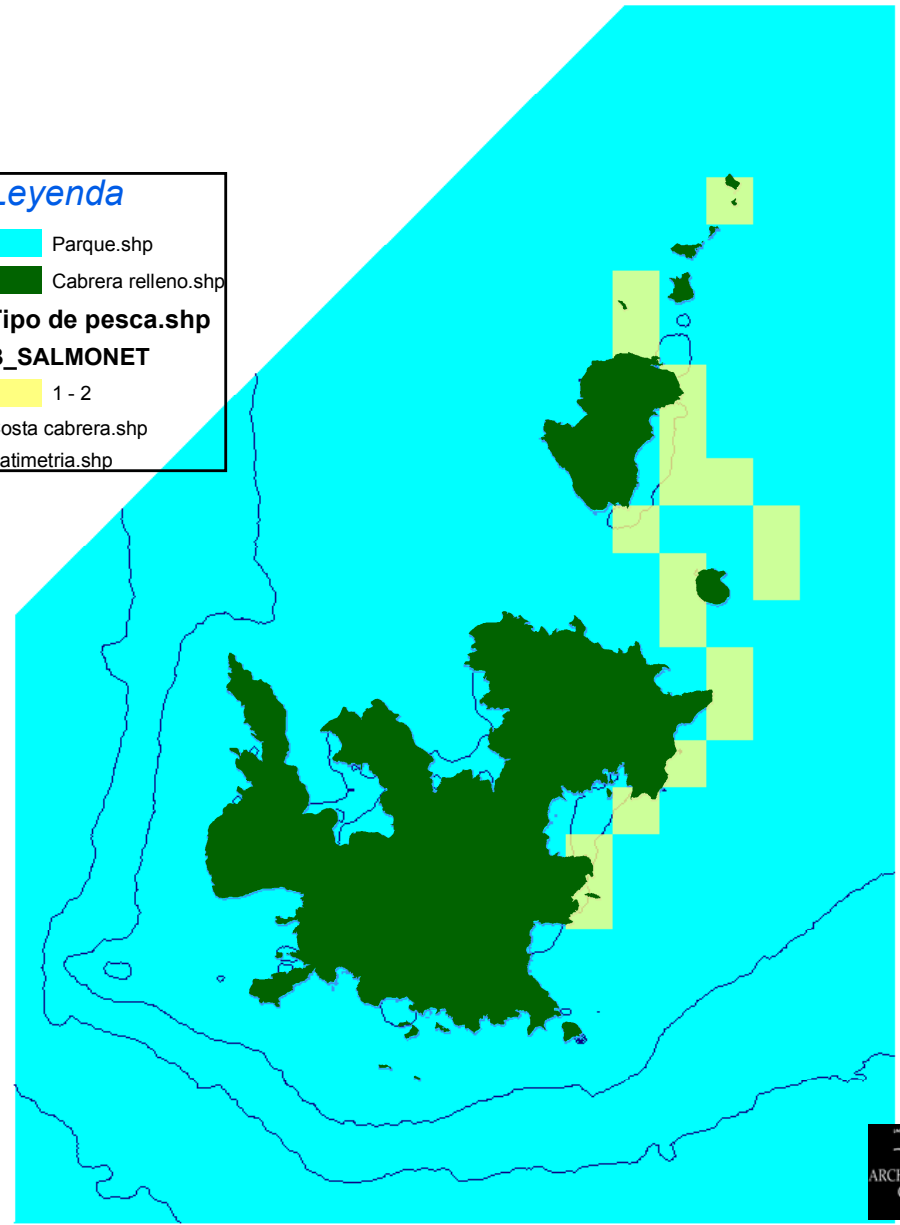
Tipo de pesca.shp

B_SALMONET

1 - 2

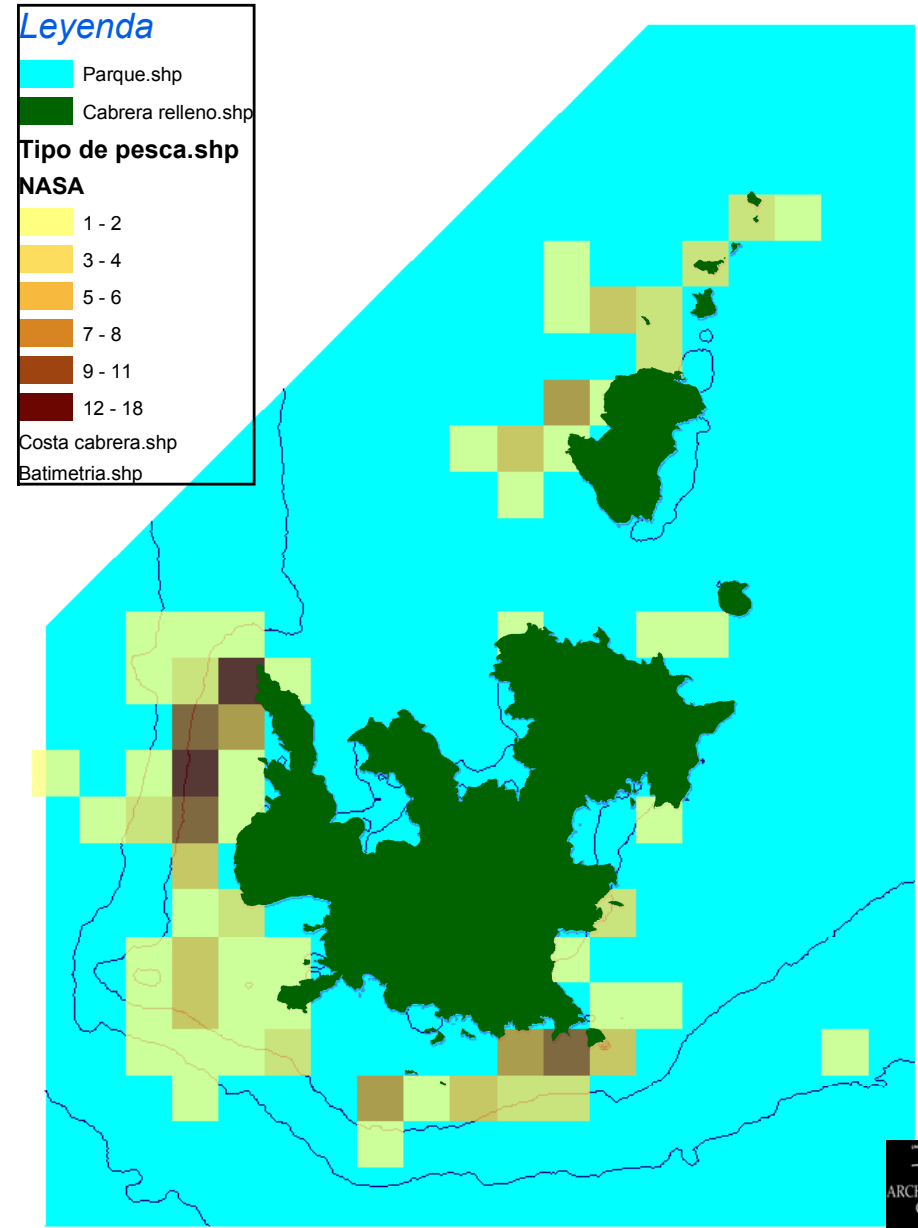
Costa cabrera.shp

Batimetria.shp



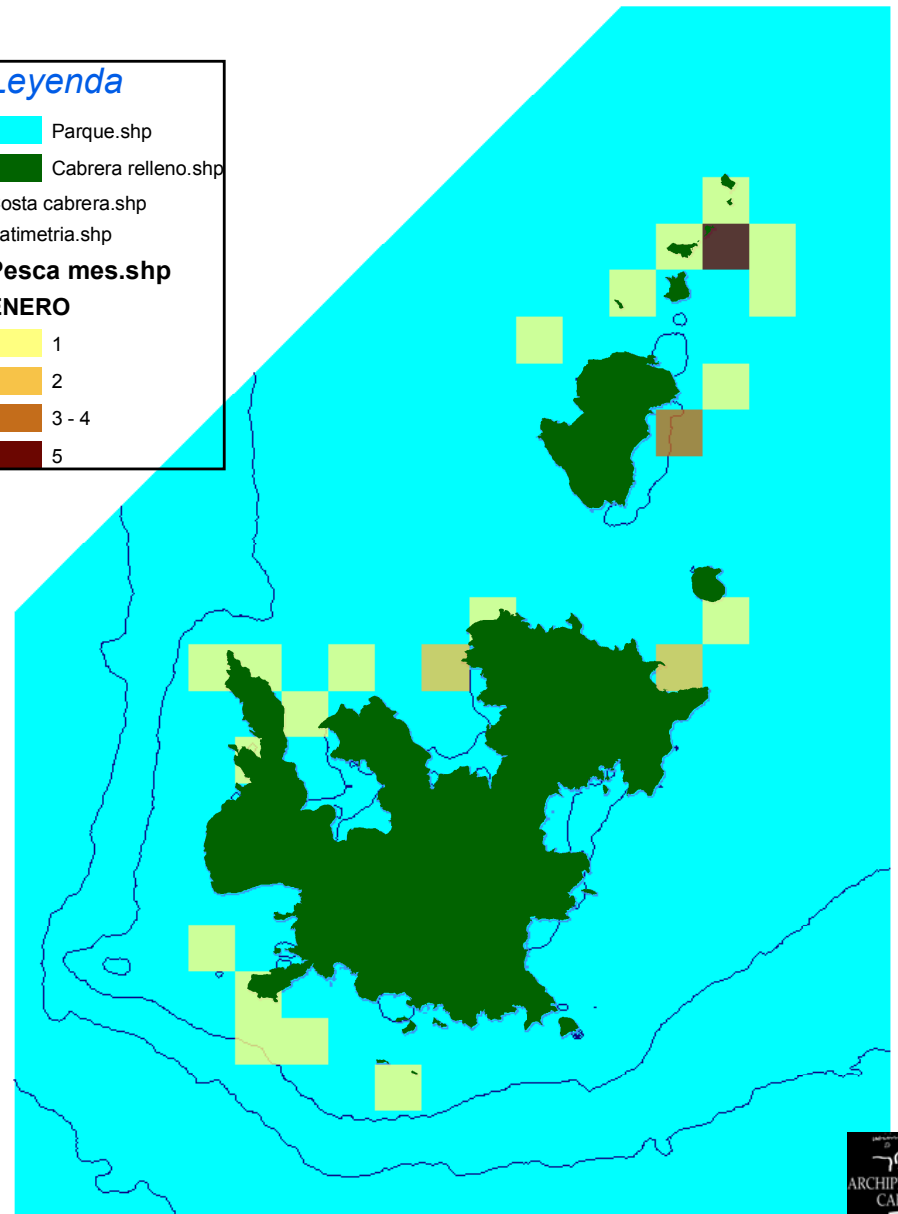
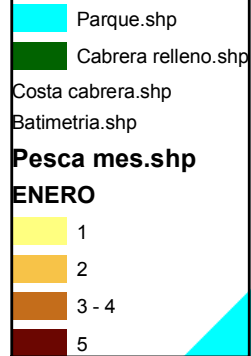
Intensidad pesquera 2003: nansa

Fishing activity 2003: lobster traps

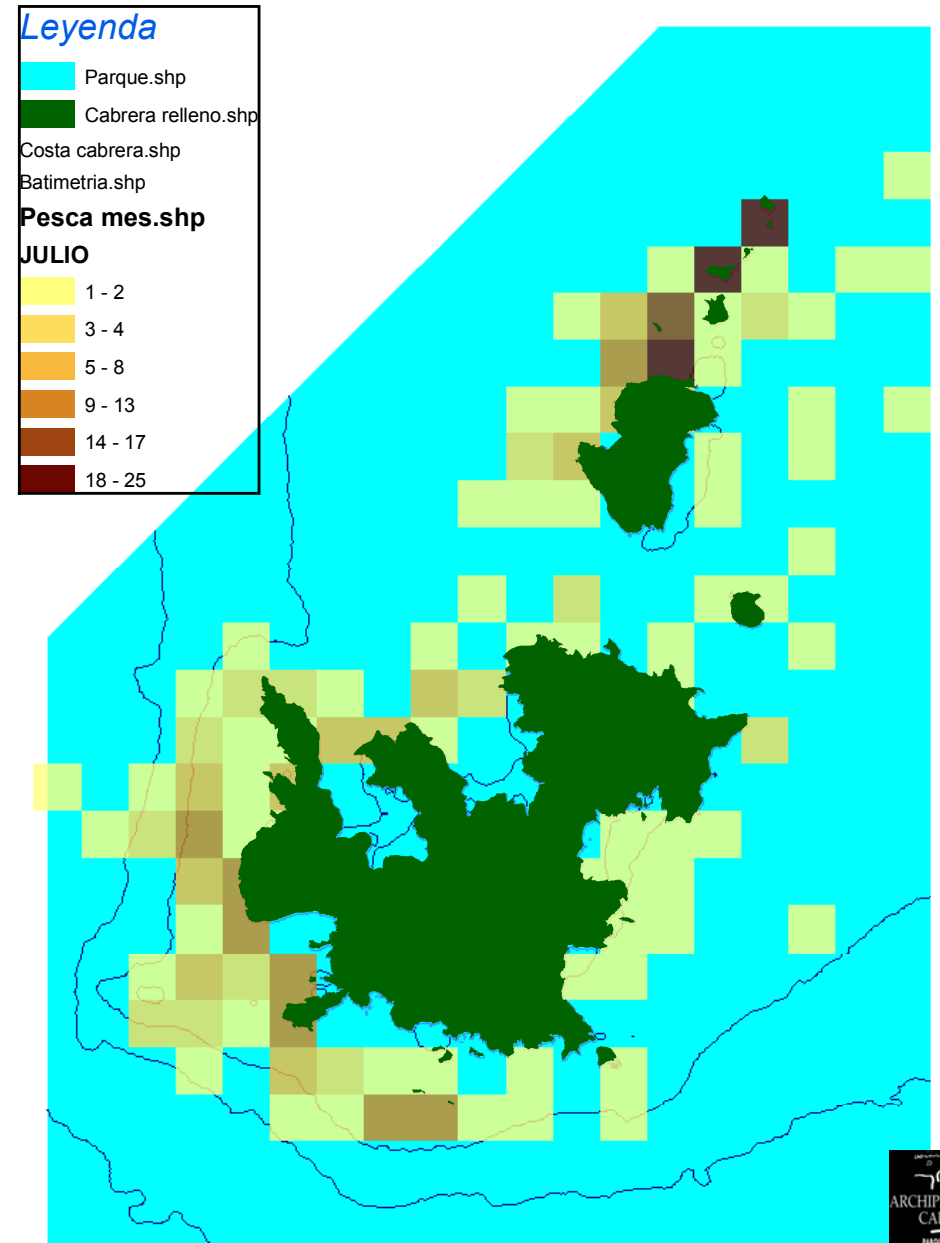


Fishing activity 2003: January sightings

Leyenda



Fishing activity 2003: July sightings



Monitoring of fishing activity : fishermen daily reports

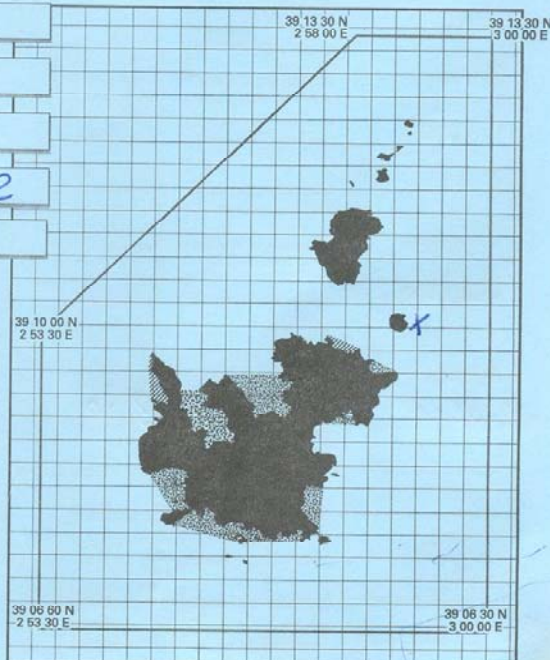
SEGUIMENT PLA DE PESCA DEL PNMAC XARXES, PALANGRE I NANSES

Embarcació SILMAR III Data 29-10-05

Tipus	Nº de peces/ hams/ nanses	Hores de passades ham de nº	Hores de pesca	Kg
1 <u>Albuja</u>	<u>150</u>	<u>5/0</u>	<u>2</u>	<u>25</u>
2				
3				
4				
5				

Altres	Nº de línies/ Vols*	Hores de pesca
Volantí		
Potera		
Fluixa		
Curricà	<u>1</u>	<u>2</u>
Llampiguera*		

 Reserva marina
 Zones de buceo



CAPTURES

Espècie	Nº Exemplars	Kg
Anfós	<u>3</u>	<u>11</u>
Cap Roig		
Càntera		
Déntol	<u>1</u>	<u>8,5</u>
Escorball		
Espet		
Morena		
Pagre	<u>10</u>	<u>8,4</u>
Sard		
Serrà		
Cigala		
Cranca		
Grimalt		
Llagosta		

Altres		
<u>Vendrell</u>	<u>7</u>	<u>8'80</u>

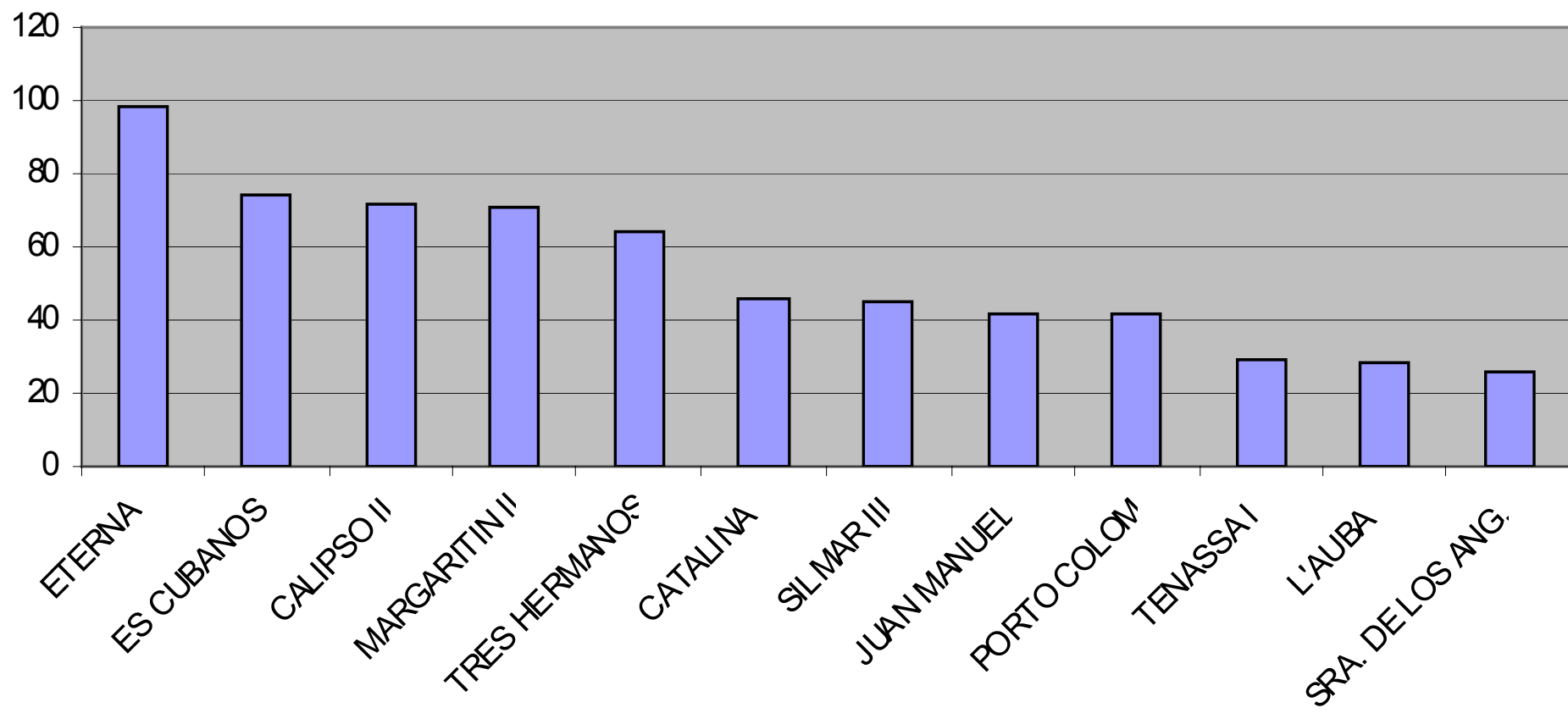
Espècie	Kg
Aranya	
Calamar	
Escórpora	
Moll	
Morralla	
Rata	
Sèpia	

Altres	

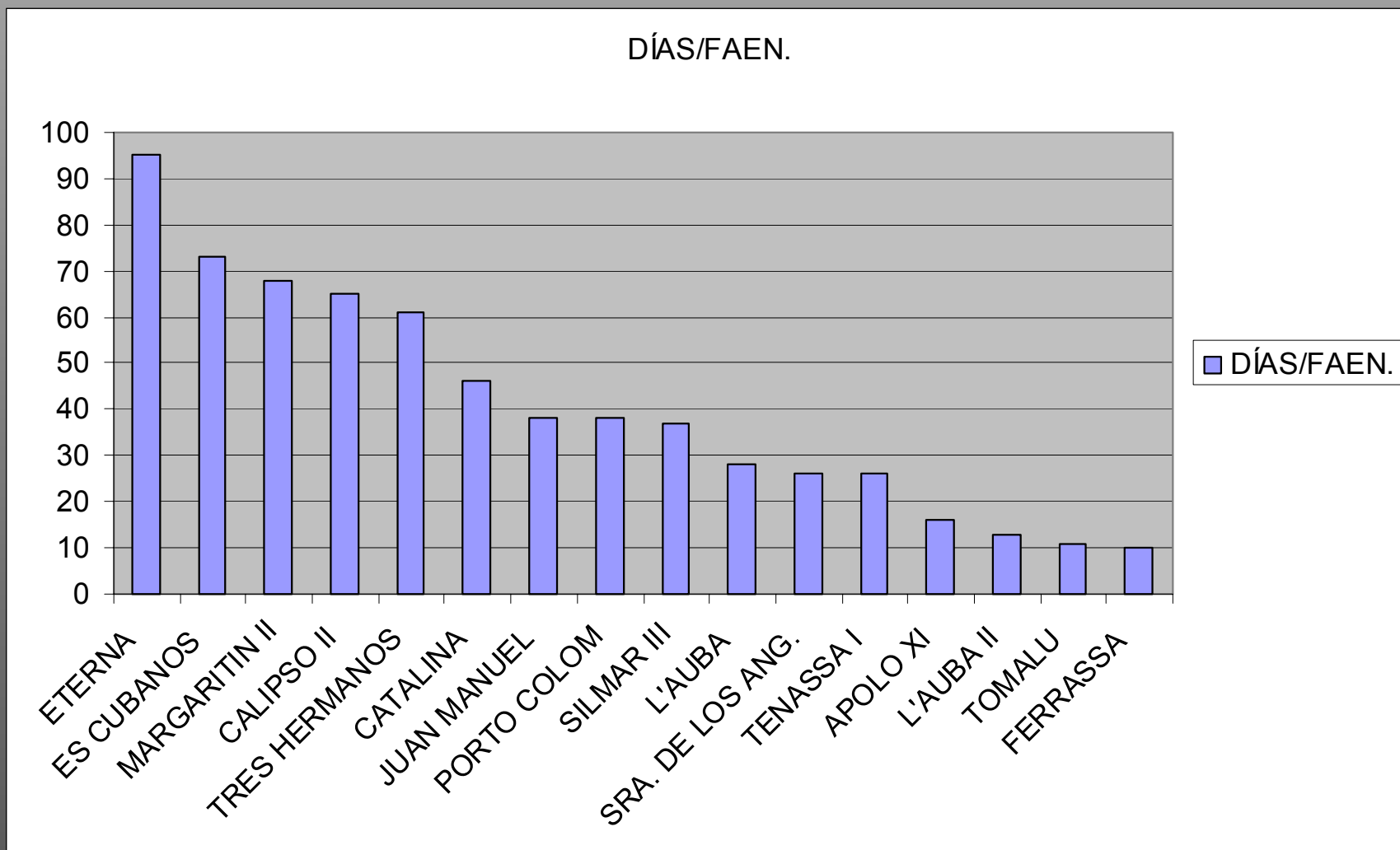
OBSERVACIONS:

Monitoring of fishing activity : vessels with the highest number of sightings

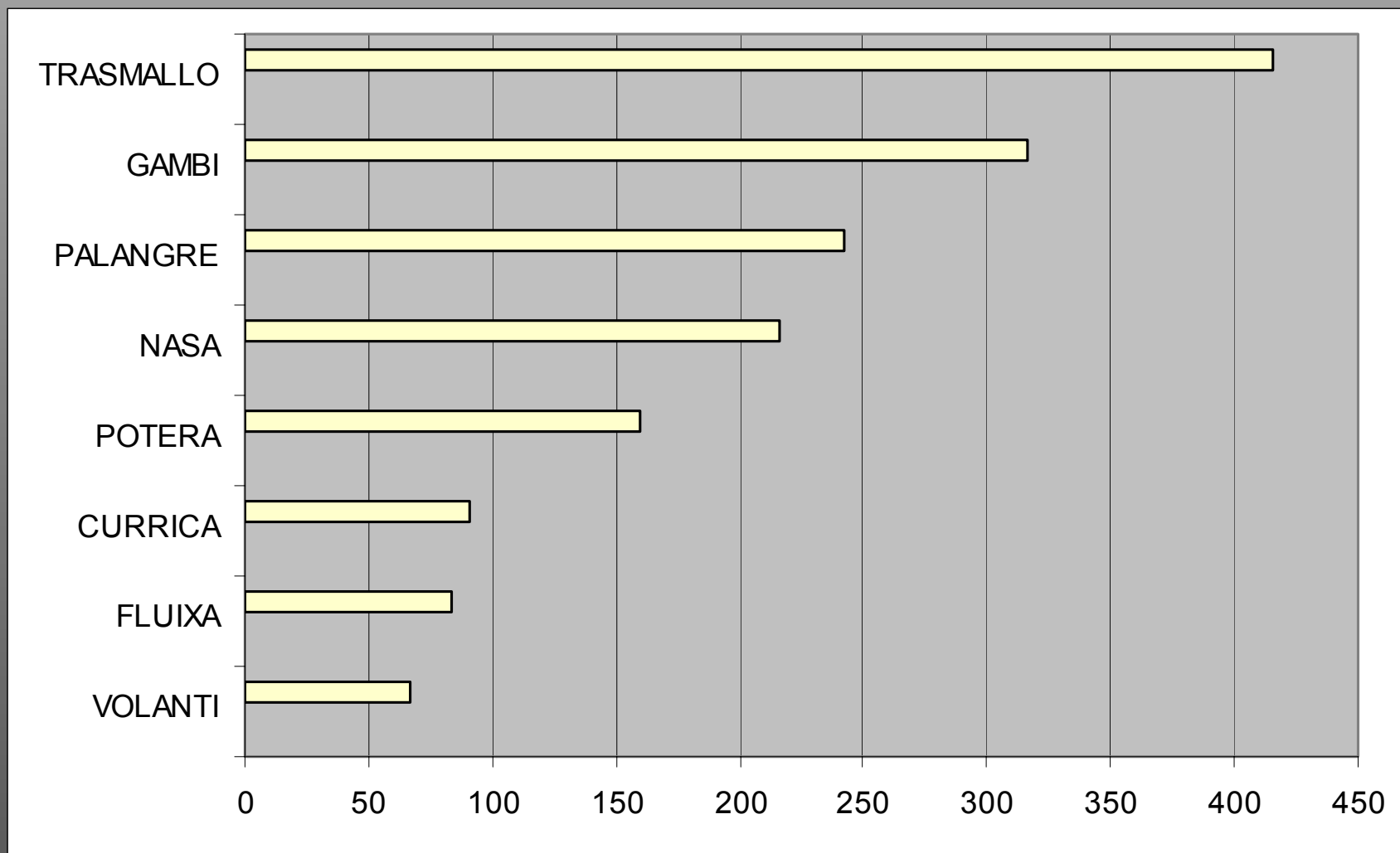
•2.78 vessels/day by mean



Monitoring of fishing activity : number of labour days per vessel



Monitoring of fishing activity : fishing gear most frequently used





Aknowledgements:

- *To Manuel García, Diego Álvarez and Miguel McMinn, for the field surveys and GIS work*
- *To the Rangers of Cabrera, for their excelent work and commitment*
- *The fishermen at Cabrera, for the joy and beauty of their job*