



Desarrollo sostenible de las pesquerías artesanales en el Arco Atlántico

Map of the fishing grounds off Asturias

November 2010



ATLANTIC AREA Transnational Programme
ESPACIO ATLÁNTICO Programa Transnacional
ESPACE ATLANTIQUE Programme Transnational
ESPAÇO ATLÂNTICO Programa Transnacional



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Map of the fishing grounds off Asturias

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Recommended citation:

Alcázar, J.L., Muñoz, A., Sánchez Díaz, J.F., Fernández Rueda, M.P. and García Flórez, L. Map of the fishing grounds off Asturias. *CEP Report of project PRESPO*, pp. 13.

1. Introduction

Coastal and nearshore ecosystems are some of the richest areas of marine biodiversity globally but the coastal regions also support considerable human populations. Coastal zones are threatened by many factors – pollution, habitat loss and degradation, intense harvest of marine resources – that are driven by human activities on land and at sea. As human populations have expanded, fishing pressure in coastal areas has intensified and coastal fisheries increasingly play a central role in the economies and livelihoods of people. Coastal zones along the Atlantic Area are home to a wide range of fishing fleets, from artisanal or small-scale vessels to large-scale industrial vessels that employ an equally broad range of fishing gears and practices, both professional and recreational.

One of the central challenges to understanding the impact of fisheries on coastal ecosystems is the lack of fishing effort data (i.e., the number of boats, the amount of gear deployed, or the frequency of fishing activities). Mapping and characterizing coastal fishing grounds is the first step to quantify the relative intensity of fishing pressure across the coastal area. Efforts to describe and map coastal fisheries have been hindered by the obstacles associated with measuring and describing fishing effort, particularly for small-scale or artisanal fleets. These challenges include a lack of resources directed toward data collection, the distant and dispersed nature of the fisheries, disparities among data sources, limited data availability in some areas, and a scarcity of spatial information. The changeable nature of coastal fisheries (i.e., target species, gear types) over short time scales also challenges characterizations of this fisheries sector. Recent efforts to characterize coastal fishing pressure have highlighted the importance of quantifying fisheries activity as a first step to develop more sustainable fisheries management plans.

In Asturias there are a total of 327 fishing vessels (2010 census of the Spanish operative fishing fleet), being 309 of those vessels developing their activity inside the 12 nm area. These fishing fleet is distributed along 19 fishing harbours and each with a fishermen organizations and accounts for a total engine power of 31 265 Kw, 8 624 GT of fishing capacity and an average length of 11.49 m.

One of the main objectives of Activity 2 - “Knowledge and information management” - of PRESPO project is to gather, complete and improve available information about artisanal fisheries from the Atlantic Arc with the objective of facilitating an effective and sustainable management. In

accordance with this objective, CEP has developed a study to map the fishing grounds off the coast of Asturias, based in previous fishing grounds maps and improved with the current technologies used by the fishing vessels, in order to actualize the knowledge about the fishing activity of Asturias vessels.

Although a fishing ground is usually known as any area in which a fishing activity is being carried out, in this work there were only considered “caladeros de pesca” (fishing grounds) those fishing areas physically well defined or with a structured fishing activity, but not those small coastal fishing areas or small rocky grounds emerging from the sea surface where few fishermen work on. In this way, in the present work the fishing grounds of the Principality of Asturias had been identified and characterized, both in their geographical localization and physical parameters as well as other aspects about the fishing activities developed in those areas.

2. Methodology

The work has been carried out in the sea waters in front of the Principality of Asturias, from the coast line to a distance of 46 nm and between 43° 23' N and 44° 17' N and 4° 15' W and 7° 33'W. This is the area where the Asturian fishing fleet developed most all of its fishing activity.

Between November 2008 and December 2009 personal interviews with fishing skippers and fishermen were carried out in the ports along the coast of Asturias to obtain information and data about the fishing grounds. There were interviewed a total of 37 people face to face, making a bigger effort in the main fishing ports of Asturias (Gijón, Avilés, Cudillero y Lastres). Fishermen working with different fishing gears were chosen in order to include all type of areas where the fishing activity would be carried out. The interviews carried out were distributed along the Asturian coast as follows:

FISHING GUILD	Nº of interviews	FISHING GUILD	Nº of interviews
Figueras	1	Avilés	3
Tapia	1	Luanco	3
Vivélez	1	Candás	1
Ortiguera	0	Gijón	4
Puerto de Vega	2	Tazonos	2
Luarca	2	Lastres	4
Oviñana	0	Ribadesella	1
Cudillero	3	Llanes	2
San Juan de la Arena	2	Bustio	5

- **Data collection**

The design of the interview was made with the purpose of obtaining all the data about the fishing grounds that were considered relevant for a suitable management of the fishing activity. The data collection was grouped in two sections: cartographic characterization and fishing data. For the geographical location of the fishing grounds, the fishermen were asked for the geographical coordinates of their fishing hauls, obtained from their GPS and plotter vessel equipments. When the fishing vessel didn't have those equipments, fishermen were asked for the fishing grounds location and identification over the nautical charts from the National Hydrographic Marine Institute of Spain. On the other hand, the following fishing data were collected from the interviews: depth, bottom ground type (sand, rock, etc...), fishing gears used, main objective species and fishing seasonality in the area. The interview model used in this study is shown in the Anex I.

- **Data processing**

Data on the location of the fishing grounds were incorporated to a spatial data base for its later refinement. The chosen format was an ArcGis geodatabase. The coordinates of each fishing ground were directly incorporated as an event table but the data collected with the nautical charts were digitalized manually. Once the initial profiles were obtained then they were revised. Firstly, the perimeter of each fishing ground was revised using two information sources: on one hand, the available bathymetry of the study area and, on the other hand, the fishing activity records provided by the fishermen. In this way, the fishing ground perimeter was first fitted to the available bathymetry and then, if it was possible and particularly in the deep-sea fishing grounds, it was outlined based on the tracklogs provided by fishermen. In a second phase, the identified fishing grounds were revised by the location of overlapping areas between different fishing grounds or different areas with the same name and with different fishing activity. Problems derived from the mention of different names for the same fishing ground depending on the fishermen origin were also solved.

The fishing grounds characteristics obtained from the interviews were also integrated in a database for its later analysis. The information about the fished species was homogenized by the assignment of the official Spanish commercial name as well as its FAO code. The data of the fishing ground's depth, bottom ground type and fishing gear used were also standardized.

3. Results

In the present work a total of 226 fishing grounds were identified and characterized in waters in front of Asturias, occupying an area of 984 938 ha. With the results obtained a graphic output was designed in which the fishing grounds of Asturias were represented (Annex III) along with their environmental and fishing characteristics (Annex IV).

4. Conclusions

The present work has allowed us to bring the fishing grounds of Asturias up to date. The face to face interviews to fishing vessels skippers and fishermen along the 19 fishing ports of Asturias has been very useful to get current information about the location and characteristics of the fishing grounds worked by the asturian fleet. This information, based on their experience and their daily work at the sea, is a basic tool to understand and study the fishing effort that is being currently carried out in the coastal area and it is also fundamental to improve the management of the fishing activities of this fleet in Asturias waters.

This information, along with other data available about the ecosystem in which the fishing activity is being carried out and other human impacts, integrated in a GIS system would be very important to develop further projects and increase and improve the knowledge about the coastal fisheries in order to reach a proper and sustainable management.


ANEX I. Interview designed for the fishing ground's cartographic characterization.



<p>CÓDIGO CALADERO: _____ NOMBRE CALADERO: _____</p> <p>PROFUNDIDAD: _____</p> <p>POSICIÓN: Punto nº 1: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 2: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 3: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 4: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 5: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 6: _____ N _____ W</p> <div style="border: 1px solid black; width: 200px; height: 100px; margin-left: 100px;"></div> <p style="text-align: center; font-size: small;">Dibuje en el cuadro el contorno del caladero y enumere en él los puntos en los que toma la posición</p>
<p>CÓDIGO CALADERO: _____ NOMBRE CALADERO: _____</p> <p>PROFUNDIDAD: _____</p> <p>POSICIÓN: Punto nº 1: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 2: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 3: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 4: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 5: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 6: _____ N _____ W</p> <div style="border: 1px solid black; width: 200px; height: 100px; margin-left: 100px;"></div> <p style="text-align: center; font-size: small;">Dibuje en el cuadro el contorno del caladero y enumere en él los puntos en los que toma la posición</p>
<p>CÓDIGO CALADERO: _____ NOMBRE CALADERO: _____</p> <p>PROFUNDIDAD: _____</p> <p>POSICIÓN: Punto nº 1: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 2: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 3: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 4: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 5: _____ N _____ W</p> <p style="padding-left: 40px;">Punto nº 6: _____ N _____ W</p> <div style="border: 1px solid black; width: 200px; height: 100px; margin-left: 100px;"></div> <p style="text-align: center; font-size: small;">Dibuje en el cuadro el contorno del caladero y enumere en él los puntos en los que toma la posición</p>

ANEX II. Interview designed for the fishing ground's thematic characterization.

REVISIÓN CARTOGRÁFICA DE LOS CALADEROS DEL PRINCIPADO DE ASTURIAS



NOMBRE DEL PESCADOR: _____

NOMBRE DEL CALADERO VISITADO: _____

CÓDIGO DEL CALADERO: _____

Indique el nombre y código del caladero de acuerdo al anexo I de esta encuesta

ARTE DE PESCA POR CALADERO:

<input type="checkbox"/> ANZUELO	<input type="checkbox"/> CURRICÁN	<input type="checkbox"/> NASA	<input type="checkbox"/> TANQUEO
<input type="checkbox"/> ARRASTRE	<input type="checkbox"/> ESPEJO	<input type="checkbox"/> PALANGRE	<input type="checkbox"/> TRASMALLO
<input type="checkbox"/> BETA	<input type="checkbox"/> LÍNEA	<input type="checkbox"/> PINCHO	<input type="checkbox"/> VOLANTA
<input type="checkbox"/> CERCO	<input type="checkbox"/> MIÑO	<input type="checkbox"/> RASCO	<input type="checkbox"/> VOLANTILLA

OTROS: _____

Señale con una X todos los artes de pesca con que faena en este caladero. En el caso de faenar con un arte no indicado en la lista, indíquelo en el campo "Otros"

EPOCAS DEL AÑO QUE FAENA EN ESTE CALADERO: _____

PRINCIPALES ESPECIES CAPTURADAS: _____

Enumere las principales especies, tanto de pescado como de marisco, que captura en este caladero

PROFUNDIDAD DEL CALADERO: _____

TIPO DE FONDO POR CALADERO:

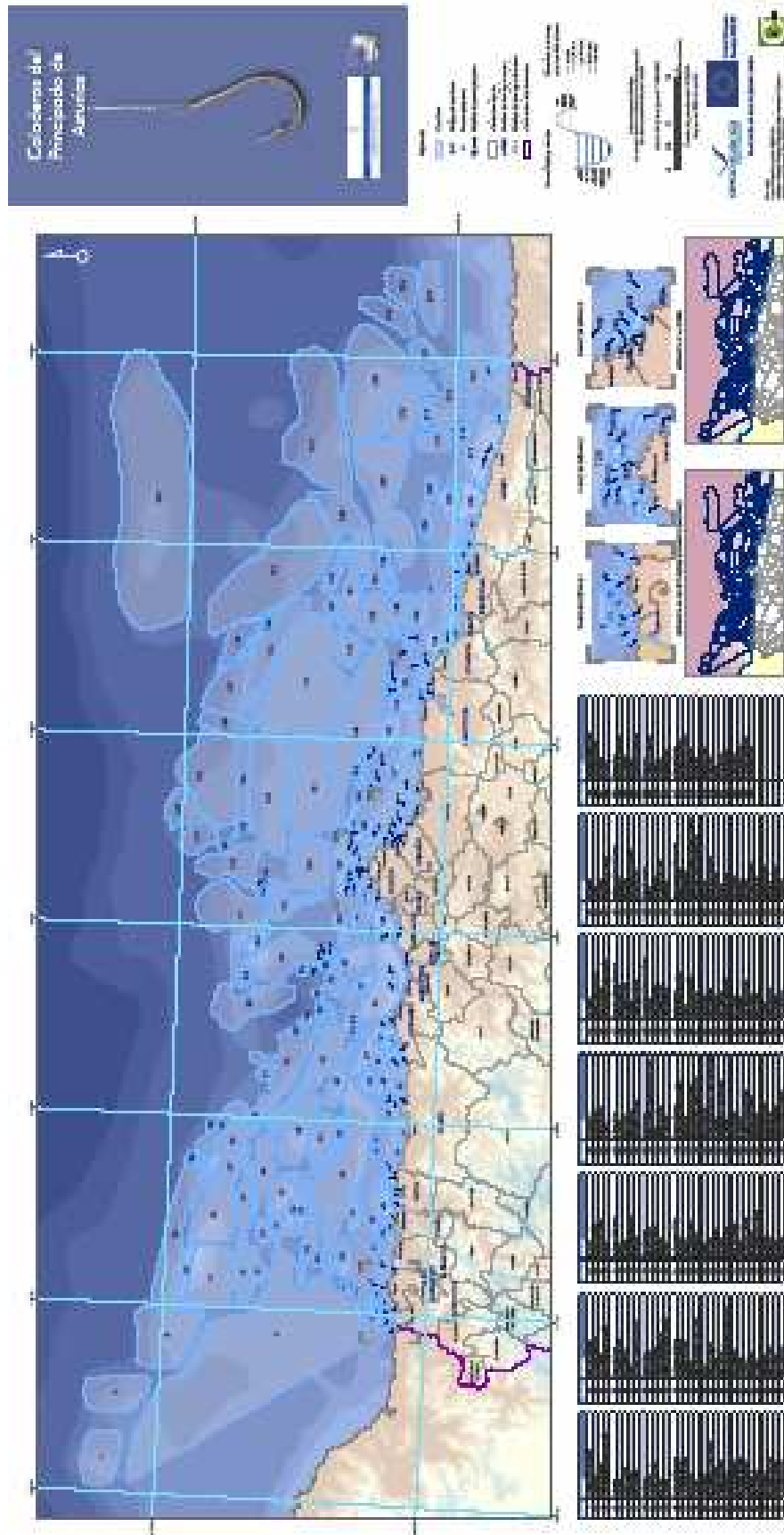
<input type="checkbox"/> CASCAJO (Piedras sueltas)	<input type="checkbox"/> FANGO	<input type="checkbox"/> PETONES
<input type="checkbox"/> ROCA	<input type="checkbox"/> CORAL	<input type="checkbox"/> EMBARRES (Cascos hundidos de barcos)
<input type="checkbox"/> ARENA	<input type="checkbox"/> RATEADO	Otro tipo: _____

Señale con una X los tipos de fondo que posee este caladero. En el caso de que el tipo de fondo no esté recogido en la lista, indíquelo en el campo "Otros"

Disponibilidad de marcas GPS para este caladero: Sí No

Otro tipo de marcas u otras técnicas de localización del caladero: _____

ANEX III. Map of the fishing grounds off Asturias.



ANEX IV. Characteristics of the fishing grounds off Asturias.

	PROFUNDIDAD (brazas)	CERCO (C)	ARRASTRE (A)	VOLANTA (V)	BETA (B)	RASCO (R)	TRASMALLO (T)	MIÑO (M)	LÍNEA Y CAÑA (L)	PALANGRE (P)	PINCHO (I)	TANQUEO (T)	CACEA (E)	POTERA (T)	NASA (N)
CALADERO															
61. El Cantal	160 - 272									P					
TF: roca PEC: barbada,gallineta,congrio,besugo,mero															
62. Cabo Busto	39 - 40			V	B			M							
TF: arena PEC: lenguado,golondro,merluza,salmonete,aligote															
63. Petón de El Salto	3 - 4						S			P					N
TF: petones PEC: maragota,lubina,congrio,pulpo,centollo															
64. Mar Cercao	38 - 39									P					
TF: roca PEC: pargo,abadejo,congrio															
65. Petón de La Osa	14							M		P					N
TF: petones PEC: congrio,sargo,lubina,dorada,pulpo,nécora,centollo,bogavante															
66. La Chuar	3 - 4						S	M		P					N
TF: petones PEC: congrio,sargo,lubina,dorada,pulpo,nécora,centollo,bogavante															
67. Canto El Carreiro	47 - 62			V		R				P					
TF: cascajo PEC: congrio,merluza,pixín,pargo,besugo,golondro,abadejo,cabracho,langosta,bogavante															
68. El Flojo Entre Cabos	49 - 50				B			M							
TF: arena PEC: lenguado,salmonete															
69. El Serrón	25 - 26									P					
TF: roca,petones PEC: calamar,merluza,congrio,pargo															
70. La Buraca de Manolo	180 - 220		A							P					
TF: petones,fango,coral PEC: merluza,virrey,barbada															
71. Escoria	55 - 62			V		R				P					
TF: cascajo,roca PEC: congrio,merluza,pixín,pargo,besugo,golondro,abadejo,cabracho,langosta,bogavante															
72. La Vallina	180 - 600		A							P					
TF: arena,coral PEC: virrey,merluza,besugo															
73. Los Petones de Ballota	4 - 5							M		P					
TF: petones PEC: lubina,sargo,maragota,pulpo,congrio															
74. Castañeras	16 - 17						S	M		P					N
TF: petones PEC: sargo,lubina,pargo,congrio															
75. Sierra Palomar	3 - 4						S	M		P					N
TF: petones PEC: sargo,lubina,pargo,congrio															
76. Mar de La Rosa	35									P					
TF: petones PEC: congrio,abadejo,pargo															
77. Petón del Silencio	7						S	M		P					N
TF: petones PEC: sargo,lubina,pargo,congrio															
78. Los Negros	7 - 10						S	M		P					N
TF: petones PEC: sargo,lubina,congrio															
79. La Celor	200 - 220					R				P					
TF: roca,fango,coral PEC: virrey,merluza															
80. La Conchona y Vidio	3 - 7						S	M		P					
TF: cascajo PEC: sargo,lubina,congrio															
81. La Pionera	44 - 62		A	V		R				P					
TF: roca PEC: merluza,pixín,cabracho,besugo,abadejo,sanmartín															
82. El Llozano	4						S			P					
TF: petones PEC: lubina,sargo,congrio															
83. El Canto San Pedro	120 - 240									P					
TF: roca,cascajo PEC: merluza															
84. Los Rubialinos	50		A	V		R				P					
TF: roca PEC: aligote,merluza,congrio,abadejo,marisco															
85. El Santín	8 - 35									P					N
TF: roca PEC: congrio,pulpo,centollo,lubina,sargo															
86. Tres Peñas	90 - 200					R				P					
TF: roca,cascajo PEC: merluza,virrey,barbada,pixín															
87. El Canto Nuevo	290 - 540		A							P					
TF: roca,fango PEC: barbada,locha,bacaladilla,cigala															
88. El Calafrió	120 - 160										I				
TF: roca PEC: merluza															
89. Piedra del Cantu	28 - 32				B			M		P					
TF: roca PEC: abadejo,aligote,faneca,merluza															

	PROFUNDIDAD (brazas)	CERCO (C)	ARRASTRE (A)	VOLANTA (V)	BETA (B)	RASCO (R)	TRASMALLO (T)	MIÑO (M)	LÍNEA Y CAÑA (L)	PALANGRE (P)	PINCHO (I)	TANQUEO (T)	CACEA (E)	POTERA (T)	NASA (N)
CALADERO															
91. El Rebeón	110 - 210									P					
TF: roca,coral PEC: merluza, virrey, congrio															
92. La Playa de Cudillero	20 - 55	C			B			M		P					
TF: roca, arena, cascajo PEC: sardina, chicharro, congrio, merluza, aligote, salmonete, bocarte															
93. Mar de Mares	145 - 220									P					
TF: roca, petones PEC: gallineta, congrio, merluza, besugo, virrey															
94. La Carretera de Cudillero	22 - 32							M		P				T	
TF: rateado PEC: faneca, aligote, calamar															
95. El Cantorro	100 - 240									P					
TF: roca, coral PEC: merluza, virrey, barbada															
96. La Maruca	95 - 150									P					
TF: cascajo PEC: merluza															
97. La Piedra	90 - 145									P					
TF: roca, cascajo PEC: merluza															
98. La Marona	27 - 28							M		P				T	
TF: roca, petones PEC: pargo, abadejo, merluza, calamar, sanmartín															
99. El Matorral	100 - 300									P					
TF: roca, coral PEC: virrey, congrio															
100. Mar del Medio	172		A							P					
TF: roca, arena PEC: congrio, barbada, pixín, bacaladilla															
101. Entre los Montes	130 - 180		A							P					
TF: roca, roca lisa, arena, coral PEC: merluza															
102. El Riego	100 - 160									P					
TF: roca PEC: merluza, besugo, virrey															
103. El Correal	5 - 12									P					
TF: roca, arena, fango PEC: sargo, congrio, lubina															
104. El Petón Viejo	80 - 85					R				P					
TF: cascajo PEC: congrio, besugo, pixín															
105. Los Anuales	5 - 25								L	P				T	
TF: petones PEC: lubina, sargo, calamar															
106. Mar de Los Límites	83 - 90									P					
TF: roca PEC: merluza															
107. Petón de Avilés	19 - 22									P				T	
TF: roca, petones PEC: abadejo, calamar, congrio															
108. Petones de Los Límites o Fragua	13 - 17								L					T	
TF: rateado PEC: calamar															
109. Media Arena	5 - 20	C			B			M		P					
TF: arena PEC: sardina, chicharro, bocarte, lubina, sargo, dorada, merluza, rodaballo															
110. Petón de La Deva o Petones de Cabo Negro	15 - 19							M		P				N	
TF: roca, petones PEC: calamar, langosta, faneca, bogavante, sargo															
111. Ranón	92 - 390		A												
TF: fango PEC: pixín, bacaladilla,															
112. Petones de Avilés	57 - 62			V						P					
TF: petones PEC: cabracho, abadejo, sanmartín, congrio															
113. El Comorio	22													T	
TF: petones PEC: calamar															
114. Monte La Gavieta	160 - 265					R				P					
TF: roca PEC: merluza, congrio, virrey															
115. El Molín o La Playa de Verdicio	10													N	
TF: rateado PEC: langosta, centollo, bogavante															
116. La Viuinga	100 - 250					R				P					
TF: roca PEC: besugo, merluza, virrey, besugo americano, pixín															
117. Piedra de Arqués y El Placerín	5 - 17							M		P				N	
TF: roca, arena PEC: sargo, lubina, lenguado, rayas, marisco															
118. Les Borrñades y Piedra de La O	22 - 40							M		P				N	
TF: roca, petones PEC: lubina, abadejo, sargo, centollo, bogavante, congrio															
119. Pozu La Llaneza	16 - 24									P				N	
TF: roca PEC: lubina, calamar, dorada, centollo, sargo															

	PROFUNDIDAD (brazas)	CERCO (C)	ARRASTRE (A)	VOLANTA (V)	BETA (B)	RASCO (R)	TRASMALLO (T)	MIÑO (M)	LÍNEA Y CAÑA (L)	PALANGRE (P)	PINCHO (I)	TANQUEO (T)	CACEA (E)	POTERA (T)	NASA (N)
CALADERO															
121. El Canalón	20							M		P					N
TF: roca PEC: congrio,centollo,bogavante,lubina,sargo															
122. La Romanella y Los Merendales	0 - 4							M		P					N
TF: petones,rateado,arena PEC: centollo,nécora,bogavante,sargo,maragota,lubina,cabracho,pixín															
123. El Corburo	112 - 350		A												
TF: fango PEC: pixín,bacaladilla															
124. Mar de Peñas	68 - 70									P					
TF: cascajo PEC: merluza															
125. El Callejón	56 - 62		A												
TF: arena PEC: varias															
126. Coneo y Piedra de Coneo	10				B			M							N
TF: roca PEC: pulpo,cabracho,faneca,centollo,bogavante															
127. La Sablera de Llumeres	12 - 30				B			M		P					N
TF: arena PEC: rayas,patelo,lubina,rodaballo,lenguado,salmonete															
128. La Espadaña	22							M		P					N
TF: roca PEC: cabracho,faneca,abadejo,centollo,bogavante															
129. El Agudo de Tierra	280 - 380									P					
TF: petones PEC: virrey,besugo,															
130. Somos Llungo	9 - 15							M							N
TF: roca,petones PEC: merluza,centollo,langosta,bogavante,merluza,corvina,sargo,pixín															
131. Vuelta del Agudo	230 - 670									P			E		
TF: roca PEC: besugo,besugo americano,merluza,bonito del norte															
132. La Mar de Los Calamares	20 - 28													T	N
TF: rateado PEC: langosta,bogavante,calamar															
133. La Palmera	0 - 7				B		S	M	L	P					N
TF: arena PEC: salmonete,quisquilla,lubina															
134. Piedra y Sable El Cuerno	5 - 12				B		S	M	L	P					N
TF: arena PEC: lubina,salmonete,chicharro,centollo,rayas,sargo															
135. Bajos de Candás	1 - 5								L	P					N
TF: roca PEC: centollo,nécora,lubina,sargo,bogavante,maragota															
136. Los Quebrantos y Piedra Perico	3 - 5				B		S	M	L	P					N
TF: roca,rateado PEC: sargo,lubina,abadejo,salmonete,maragota,centollo,nécora															
137. Bajos de La Sierra y Entrellusa	1 - 7								L	P					N
TF: roca PEC: centollo,nécora,bogavante,lubina,sargo,maragota															
138. Piedra de La Vaca	34								L						N
TF: roca,arena PEC: faneca,langosta,bogavante															
139. La Farola de Peñas	170 - 273		A							P					
TF: roca,arena,fango PEC: pixín,bacaladilla,congrio,barbada,virrey															
140. La Niebla	30				B			M							
TF: roca,arena PEC: lenguado,rodaballo,golondro,faneca,aligote															
141. Ratiaos de Carnicera	7 - 12				B		S	M	L	P					N
TF: rateado PEC: salmonete,sargo,lubina,centollo,bogavante,nécora,maragota															
142. Fanega Pan o Petones del Oeste	60			V					L	P					N
TF: petones PEC: congrio,abadejo,merluza															
143. La Higüera	0 - 14	C			B		S	M	L	P					N
TF: arena PEC: salmonete,quisquilla,centollo,merluza,lubina,sardina,chicharro,calamar,bocarte															
144. Rates del Salguero	5 - 7				B		S	M	L	P					N
TF: rateado PEC: lubina,sargo,nécora,salmonete,centollo,bogavante															
145. El Agudo de Fuera	240 - 254					R				P					
TF: petones,fango PEC: besugo,besugo americano,virrey,pixín,mero															
146. Cantil de La Mar	48 - 64		A					M							
TF: arena PEC: xarda,faneca,aligote,calamar															
147. Les Amosques	9 - 15				B			M							N
TF: roca,arena PEC: sargo,centollo,bogavante,merluza															
148. Piedras de San Sebastián	41									P					N
TF: petones PEC: congrio,langosta,bogavante															
149. Erbosa	60 - 70		A												
TF: cascajo PEC: gallo,pixín,merluza															

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CALADERO															
151. Les Fanguines	60 - 70		A												
TF: cascajo PEC: gallo,pixín,merluza															
152. El Manantial	4 - 5							M		P					
TF: roca,arena PEC: lubina,sargo															
153. Playa del Agudo	180 - 300		A												
TF: arena,fango PEC: cigala,pixín,barbada															
154. Canto Playa	100 - 160		A												
TF: arena,fango PEC: chicharro,xarda,bacaladilla,pixín,merluza															
155. Petón de Gijón	55 - 60							M		P					
TF: petones PEC: abadejo,congrio,faneca															
156. Ronchel del Sanatorio	55 - 62			V	B	R		M	L	P	I				N
TF: roca,rateado PEC: pixín,merluza,cabracho,congrio,ñocla,bogavante,langosta															
157. San Lorenzo	25 - 42	C								P				T	
TF: roca,petones PEC: congrio,abadejo,chicharro,calamar															
158. Los Regatos	24								L						
TF: rateado PEC: calamar															
159. Petón de La Escalera	55 - 70			V					L						N
TF: petones PEC: congrio,merluza,abadejo,bogavante,langosta															
160. Boca España	5 - 12							M		P					N
TF: roca,arena PEC: lubina,sargo,pulpo															
161. Playa España	15 - 20							M		P					N
TF: roca PEC: lubina,sargo,congrio,pulpo,faneca,aligote															
162. El Playón	40 - 45					R		M							
TF: arena PEC: pixín,rayas															
163. Pozo de La Baca	180 - 400		A			R									
TF: arena,fango PEC: cigala,pixín,barbada,bacaladilla															
164. La Carretera	58 - 70		A	V											
TF: arena PEC: merluza,faneca,aligote															
165. Los Caniquinos	0 - 60							M							N
TF: arena PEC: marisco															
166. Los Nobles	6 - 8							M							N
TF: petones PEC: centollo,bogavante,nécora,pulpo															
167. Las Yerbas	300 - 500		A			R									
TF: arena,fango PEC: cabracho,barbada,tiburones de profundidad,pixín															
168. El Escañón	35								L	P					
TF: petones PEC: congrio															
169. Piedra de Juan García	4														N
TF: petones PEC: centollo,nécora,pulpo															
170. La Bajura o Playa de Tazones	50							M							
TF: arena PEC: centollo,pixín,lenguado,rayas															
171. La Felguera	66 - 80		A	V		R				P					
TF: roca,petones,cascajo PEC: merluza,congrio,abadejo,rayas,pixín															
172. Las Muelas	0 - 25														N
TF: arena PEC: marisco															
173. La Cabañina o El Percebal	35 - 40			V		R			L	P					N
TF: roca,petones PEC: congrio,merluza,abadejo,pargo															
174. Río de Los Gües	20 - 25					R		M							
TF: arena PEC: pixín,rodaballo,lenguado															
175. Cabo de Lastres	5 - 50	C		V	B		S	M	L	P					N
TF: roca,arena PEC: salmonete,congrio,marisco,merluza															
176. Rodiles	70 - 100		A												
TF: arena PEC: bacaladilla,pixín,chicharro															
177. El Zambuchu	80 - 85			V						P					
TF: roca PEC: merluza															
178. El Canalón del Cabu	45							M							
TF: arena PEC: lenguado,pixín,rayas															
179. La Estrella	250 - 450					R				P				E	
TF: roca PEC: barbada,pixín,bonito del norte															

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CALADERO															
181. Sablón o Penote	7 - 11				B		S	M	L						
TF: rateado PEC: salmonete,abadejo,sargo															
182. Los Picos de Lastres	50 - 60			V		R		M		P					
TF: petones PEC: merluza,abadejo,sargo															
183. Entresablados Sablón, Cascallal y La Moral	7 - 11				B		S	M	L						
TF: rateado PEC: salmonete,abadejo,sargo															
184. La Cuesta Carrandi-Los Barrancos	250 - 360		A			R				P					
TF: roca,fango PEC: pixín,barbada,congrio,virrey															
185. El Respingón o El Secu	75			V						P					
TF: cascajo PEC: merluza															
186. Playa de Rufo o Lastres	48 - 66		A	V		R		M		P					N
TF: arena,fango PEC: salmonete,merluza,faneca,aligote,gallo,rayas,pixín,patelo															
187. Mar del Millón	80 - 85			V		R			L	P					
TF: roca PEC: merluza,xarda,chicharro															
188. La Falsa	70 - 80			V		R				P					
TF: arena,cascajo PEC: merluza															
189. Playa de Vega	2 - 30	C			B		S	M		P		Q			
TF: arena,cascajo PEC: merluza,salmonete,lubina,corvina,chicharro,bocarte,centollo,bogavante															
190. Los Carreros	5									P					
TF: roca PEC: congrio,lubina															
191. La Planera	19 - 22				B		S	M		P					
TF: roca PEC: lubina,salmonete,marisco															
192. Les Utreres	45			V						P					
TF: roca PEC: abadejo,pargo,congrio															
193. El Cantu de Lastres	80 - 200		A	V	B	R			L	P	I				
TF: roca PEC: merluza,pixín,besugo															
194. Chicharrera	75 - 85			V						P					
TF: roca PEC: merluza,chicharro															
195. Serrapio de Fuera	21									P					
TF: roca PEC: congrio,lubina															
196. Los Pozos	340 - 400					R			L	P	I				
TF: roca,fango PEC: pixín,barbada															
197. Serrapio de Tierra	6 - 7									P					
TF: roca PEC: congrio,lubina															
198. La Playuca	58 - 65		A												
TF: arena PEC: aligote,gallo,lenguado,faneca															
199. Los Praínos de Paluverde	24							M		P					N
TF: roca PEC: congrio,langosta,bogavante,nécora															
200. La Silla de La Griega	22 - 50				B		S	M							
TF: arena PEC: salmonete,lenguado,pixín															
201. Aguadamía	0 - 20				B			M		P					N
TF: roca,rateado,arena PEC: salmonete,sargo,lubina,centollo,congrio															
202. El Cudillo	100 - 600	C	A	V		R			L	P	I				N
TF: roca,petones,arena,fango,cascajo PEC: merluza,besugo,pixín,bacaladilla,xarda,cigala															
203. Cabo La Mar	8 - 14									P					
TF: roca PEC: congrio															
204. Los Picos de San Antolín	27 - 62	C		V	B			M	L	P	I			T	
TF: petones PEC: abadejo,besugo,calamar,sanmartín,cabracho de fondo,merluza,pixín,chicharro															
205. El Cachucho	265 - 2000														Reserva marina - actualmente no explotado
TF: roca PEC: besugo,tiburones de profundidad,barbada,besugo americano,pixín,cigala,gallineta,bacaladilla															
206. San Antolín	7 - 20				B										
TF: roca PEC: lubina,salmonete,maragota,sargo															
207. La Planera de San Antolín	25 - 35							M							
TF: roca PEC: sanmartín,langosta,cabracho															
208. El Resueste	72 - 400								L	P					
TF: roca,rateado,fango PEC: merluza,besugo,congrio,barbada,xarda															
209. La Piedra del Cabracho	30 - 40							M							
TF: roca PEC: cabracho															

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CALADERO															
211. La Restinga	34				B			M							N
TF: petones PEC: salmonete,breca,aligote,pulpo															
212. Baera de Llanes	0 - 55				B	R	S	M		P					N
TF: roca,arena,cascajo PEC: pixín,salmonete,merluza															
213. Mar del Medio	70 - 300			V		R			L	P	I				
TF: roca,rateado,cascajo PEC: merluza,pixín,congrio,besugo,chicharro,xarda															
214. Las Piedras de Llanes	60 - 71					R		M							
TF: roca PEC: golondro,lenguado,gallo,pixín															
215. Los Reviros de La Sabina	90 - 600	C	A	V		R			L	P	I				N
TF: roca,fango,cascajo,coral PEC: virrey,besugo,merluza,pixín,barbada,congrio,bacaladilla,locha,cigala															
216. Bajos de Novales	5 - 40						S	M		P					N
TF: roca PEC: lubina,sargo,dorada,centollo,salmonete															
217. La Manuela	70 - 300		A	V	B	R			L	P	I				
TF: roca,cascajo PEC: merluza,pixín,congrio,besugo,xarda,calamar															
218. Mar de Los Ojitos	80 - 90		A												
TF: arena PEC: gallo															
219. La Blancona	70 - 300	C		V	B	R			L	P					
TF: roca,cascajo PEC: merluza,pixín,congrio,besugo,mero,xarda															
220. Abascal	67		A			R			L						
TF: roca,arena PEC: pixín,merluza,xarda															
221. Las 70 brazas	50 - 90					R									
TF: cascajo,arena,coral PEC: pixín,rayas,cabracho															
222. Ronchil de Deva	38					R	S	M		P					
TF: petones PEC: abadejo,merluza,pixín															
223. La Blanquilla	190 - 250		A												
TF: arena PEC: merluza,pixín,gallo															
224. La Vuelta del Este	100 - 300		A	V		R			L	P	I				N
TF: fango PEC: merluza,pixín,bacaladilla,xarda,cigala															
225. La Reguera o Eucaliptal	70 - 75					R									
TF: arena,cascajo,coral PEC: pixín,rayas,cabracho															
226. La Mar del Patelo	70 - 80					R				P					
TF: arena,cascajo PEC: cabracho,besugo															