

# SPANISH INVENTORIES OF MARINE HABITATS AND SPECIES

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## INTRODUCTION

The Spanish Inventories of Marine Habitats and Species are two of the components of Natural Heritage under Law 42/2007 of Natural Heritage and Biodiversity, which are expected to provide information to the Nature Data Bank.

## OBJECTIVE

- Harmonization of existing data, including web-based mapping tools to promote environmental education and awareness, as well as access to information about marine habitats and species with the aim to improve synergies, avoid duplication of data collection and ensure comparability of the information gathered on European Directives and International Conventions.
- Development of a management tool for the Spanish marine environment.

## MATERIAL & METHODS

The Ministry of Agriculture and Fisheries, Food and Environment of Spain provided an institutionalized process for collecting existing and scattered data sets regarding marine biodiversity. Tragsatec developed the coordination of this work, executed with a huge scientific effort, and was the responsible of the harmonization of gathered data. The main challenge was to compile and analyze all the existing information to establish the basis of a Marine Planning and contribute to the correct determination of the Good Environmental Status (GES).



## RESULTS & DISCUSSION



**DATABASE:** containing available data on marine habitats and species (scientific name and synonyms, description, distribution, protection under legal instruments, threats, categorization and so on). This database is linked to all the studies that support it and includes the distribution maps for each specie or habitat at different scales.



### REFERENCE LIST OF SPANISH MARINE HABITATS

Done by **more than 30 SCIENTIFICS and experts** from different Spanish Research Institutions. It lists **886 MARINE HABITATS TYPES** and shows their presence in the **3 biogeographic regions:** Atlantic, Mediterranean and Macaronesian.



The List of Spanish Marine Habitats tries to harmonize the description and collection of data across Spain through standardized criteria for habitat identification. It is hierarchical and covers all types of marine habitat types from natural to artificial. This list was completed and published in March 2013. It allows to be revised and updated with new habitats depending on the grade of knowledge.

Cross-walks between the List of Spanish Marine Habitats and other habitat classifications (e.g. EUNIS, OSPAR and Barcelona Conventions, Natura 2000 network) are also defined.



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### PUBLICATIONS



✓ **Guía Interpretativa Inventario Español de Hábitats Marinos. 2012.**  
J. Templado, E. Ballesteros, I. Galparsoro, A. Borja, A. Serrano, L. Martín y A. Brito.

It presents the different marine environments of Spain in a descriptive way, as well as the complexity and uniqueness of the different classifications to date and the List of Spanish Marine Habitats.

✓ **Marine Species Fact Sheets, including all the relevant information and data on marine species in Spain**

✓ **Marine Habitats Fact Sheets, including all the relevant information and data on marine habitats in Spain**

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### REFERENCE LIST OF SPANISH MARINE SPECIES



**150 SCIENTIFICS AND EXPERTS FROM DIFFERENT SPANISH RESEARCH INSTITUTIONS**

Contains more than **11.000 SPECIES**

With shows presence in the **5 SPANISH MARINE SUBDIVISIONS** ACCORDING TO THE MARINE STRATEGY

North Atlantic  
South Atlantic  
Levantine-Balearic  
Strait and Alboran  
Canary

The List of Spanish Marine Species is a comprehensive Spanish system to facilitate the collection of Marine Species across Spain. It is a taxonomic classification according to the World Register for Marine Species (WoRMS). This includes introduced species, species whose determination is doubtful, species occasionally observed and species with no definite location. This list was completed in 2016 and published in March 2017. It allows to be revised and updated with new species depending on the grade of knowledge.

LISTA PATRÓN DE ESPECIES MARINAS PRESENTES EN ESPAÑA

N.º Lista Patrón	Especie	Reino	Filo	Clase	Orden	Familia	Género	Español	Autor	Referencia	CoefH	D. NOR	D. SUR	D. ESAL	D. LBA	D. CAN	Observaciones
0002	<i>Echinoderm warringi</i>	Animalia	Echinodermata	Cyclonergaster	Cyclonergaster	Echinodermata	Echinodermata	warringi	Southern, 1914	WoRMS	41488	P	P				
0003	<i>Mentoderm macrocanthus</i>	Animalia	Echinodermata	Cyclonergaster	Cyclonergaster	Echinodermata	Mentodermata	macrocanthus	Herranz, Thainmar, Berito, Sánchez & Pardo, 2012	WoRMS	73134				P		
0004	<i>Semnoderm amiger</i>	Animalia	Echinodermata	Cyclonergaster	Cyclonergaster	Semnodermata	Semnodermata	amiger	Delile, 1928	WoRMS	101126	P				P	
0005	<i>Reguloderm monvulve</i>	Animalia	Echinodermata	Cyclonergaster	Cyclonergaster	Regulodermata	Regulodermata	monvulve	Pardo & Körtner, 2013	SPN	93945	P					
0006	<i>Rochekera dubia</i>	Animalia	Mollusca	Bivalvia	Anomalobornata	Cyprididae	Cyprididae	dubia	(Perrant, 1777)	WoRMS	56240	P	P	P	P	P	
0007	<i>Byrgo aperta</i>	Animalia	Mollusca	Bivalvia	Anomalobornata	Cyprididae	Byrgidae	aperta	(G. B. Sowerby I, 1823)	WoRMS	57325				P		
0008	<i>Byrgo melitensis</i>	Animalia	Mollusca	Bivalvia	Anomalobornata	Cyprididae	Byrgidae	melitensis	(Brodrip, 1834)	WoRMS	57326						P
0009	<i>Cardomya cadisana</i>	Animalia	Mollusca	Bivalvia	Anomalobornata	Cyprididae	Cardomya	cadisana	Huber, 2010	WoRMS	56512	P	P				



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## CONCLUSIONS

✎ The Spanish inventories of Marine Habitats and Species are now a valuable source of information on distribution, abundance, state of conservation and trends of Marine Habitats and Species in Spain.

This initiative is accessible via web with a friendly publication that aims to promote environmental education and knowledge.

**However, there are still new challenges to face to!**

### Updating the Reference List of Spanish Marine Habitats and Species

Inclusion of new data on species and marine habitats from scientific projects, such as research on deep habitats and other less known, and review of existing ones, which will permit to develop additional management and protection measures.

### Visibility

Promoting an Inventory via institutional webs, scientific publications, informative sheets, etc.