Project

# REMOTE SENSOR SERVICE IN THE BALEARIC SEA

Axis: Disciplinary research
Bloc 1.1: Environment
Thematic area: Operational oceanography and marine technology

## Summary

The use of data from satellites (SST, altimetry, ocean colour, etc.) has grown considerably in the context of operative oceanography and systems predicting ocean conditions.

The high spatial and temporal resolution of this type of data represents a great benefit for applications such as assimilation in numerical models, short-term prediction, long-term studies of climate change, etc. There are currently many different types of data and products from different satellite systems. Each one of these has an application within certain parameters, such as temporal and spatial resolution, precision, data assessment, etc.

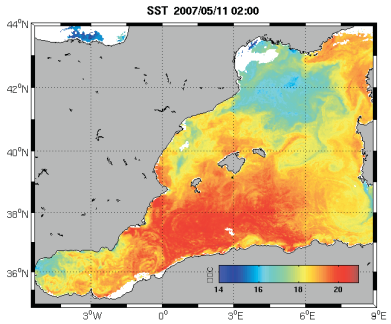
The aim of this project is to study the availability of different collections of metadata and satellite products that can be used both for research and operation at regional (Balearic Sea) and local levels (coastal area of the Balearic Islands) to put into practice a local data server.

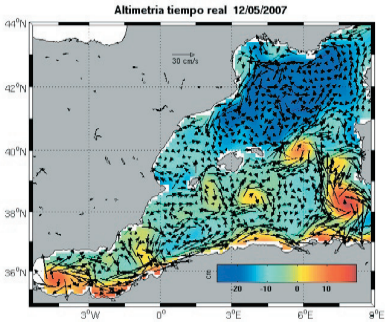
## Actions

-Catalogue the different satellite products (data and/or imagery) available for the Balearic Sea.

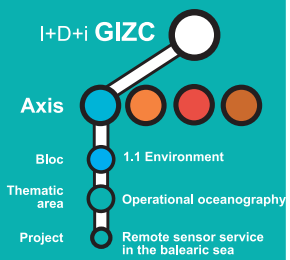
-Assess the characteristics of said products and determine potential applications.

-Create a pilot database in IMEDEA integrating the most useful satellite products.




Examples of imagery obtained




## Aplications

### Research
The scientific community of the Balearic Islands and other research centres in the Spanish State will be able to take advantage of the satellite data available to study the variability observed in the coastal ecosystem. At the same time, users will have access to original images and data for various applications (both operations and research).

### Administration
These data will be able to be used by experts, managers and technicians to help in the management of problems such as proliferations of jellyfish, harmful algae blooms (HABs), etc.

### Enterprise
These tools will also be useful for private enterprise dedicated to the study of the open seas and coastal management.

## Contact

**Principal Investigator**
Prof. Joaquín Tintoré
e-mail: jtintore@uib.es

**IMEDEA**
C/ Miquel Marquès, 21
07190 Esporles, Mallorca
Illes Balears, ESPAÑA
Tlf: +34 971 611 714
Fax: +34 971 611 761

www.imedea.uib.es

**Co-principal investigator**
Simon Ruiz
simon.ruiz@uib.es

**Team research**
Ananda Pascual
ananda.pascual@uib.es

Guillermo Vizoso
g.vizoso@uib.es

**Project web**
www.imedea.uib.es/goifis/OPERACIONAL