

# SOCIB Products & Services: Providing of VA capabilities for end users

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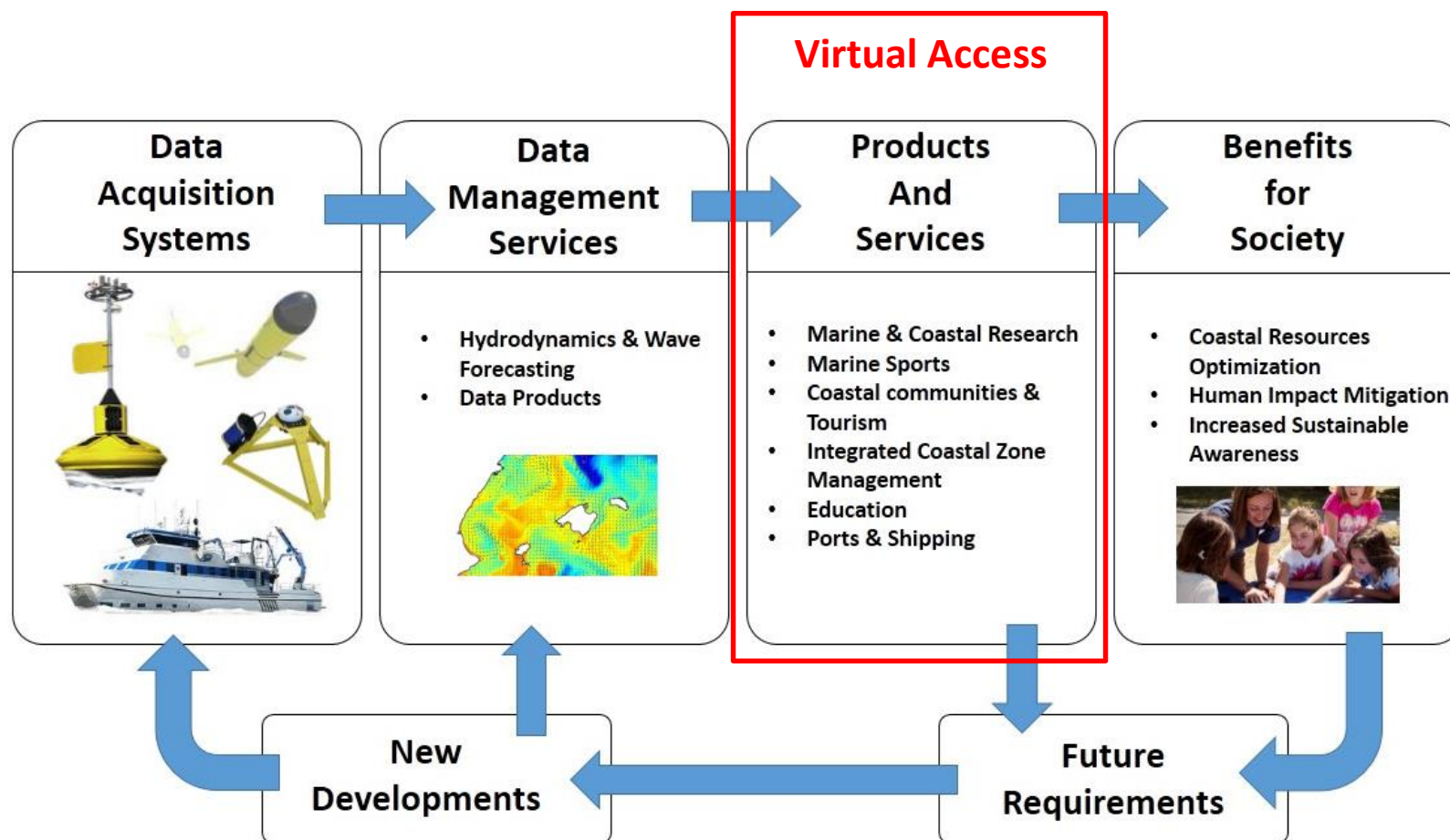
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2. Specific question(s) tackled by this action: SOCIB Value Chain
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## Context: WP6 Objectives

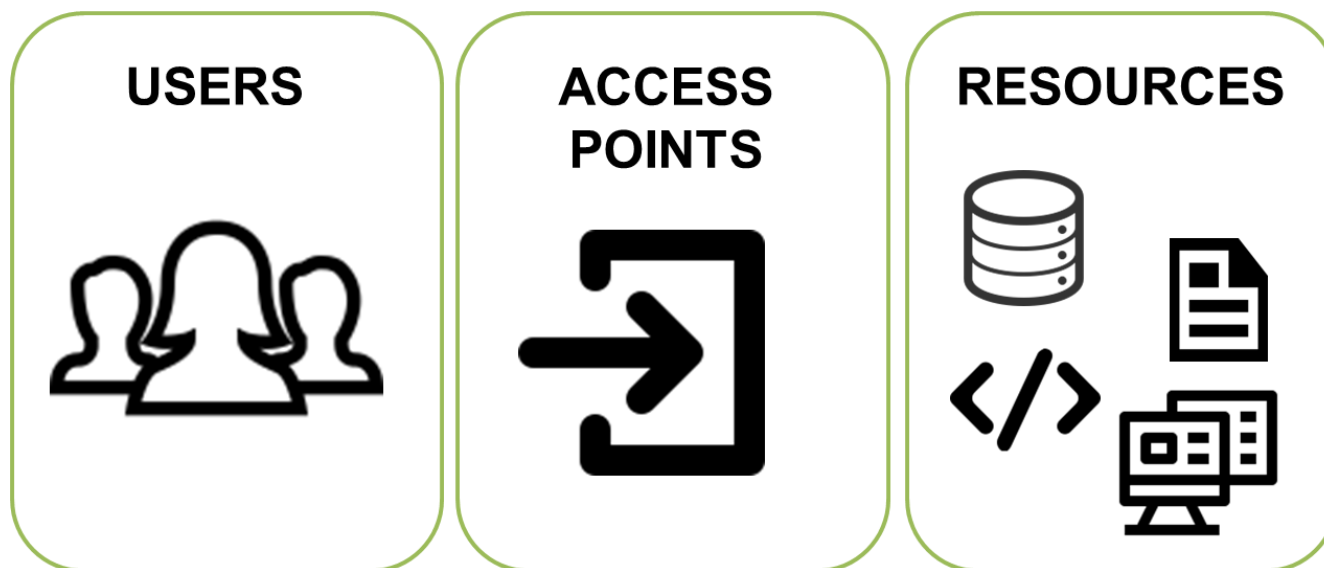
- O1.- Provide free of charge “virtual access” to data and information from in situ systems
- O2.- Promote the improvement of existing services and potentially the development of new services

# SOCIB Value Chain



# SOCIB Value Chain

- Enhancement Products & Services to provide access to resources



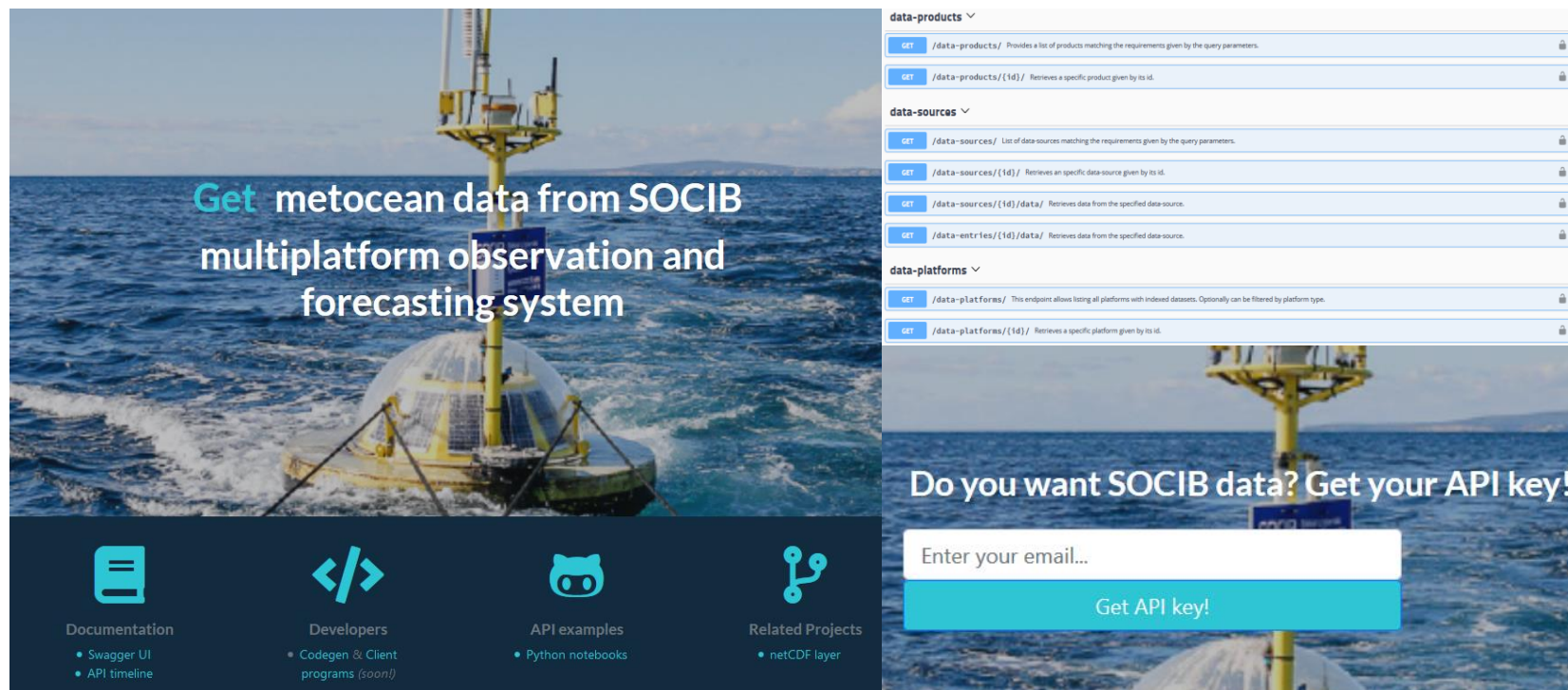
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## SOCIB VA Major Achievements

- New SOCIB API service to facilitate data access
- New SOCIB data catalog to facilitate data exploration
- New SOCIB product for beach safety: app for beach lifeguards

# REST API

- Improve data flow with European Marine Data Infrastructures



**Get** metocean data from SOCIB multiplatform observation and forecasting system

**data-products** ▾

- GET /data-products/ Provides a list of products matching the requirements given by the query parameters.
- GET /data-products/{id}/ Retrieves a specific product given by its id.

**data-sources** ▾

- GET /data-sources/ List of data-sources matching the requirements given by the query parameters.
- GET /data-sources/{id}/ Retrieves an specific data-source given by its id.
- GET /data-sources/{id}/data/ Retrieves data from the specified data-source.
- GET /data-entries/{id}/data/ Retrieves data from the specified data-source.

**data-platforms** ▾

- GET /data-platforms/ This endpoint allows listing all platforms with indexed datasets. Optionally can be filtered by platform type.
- GET /data-platforms/{id}/ Retrieves a specific platform given by its id.

**Do you want SOCIB data? Get your API key!**

Enter your email...

**Get API key!**

**Documentation**

- Swagger UI
- API timeline

**Developers**

- Codegen & Client programs (soon!)

**API examples**

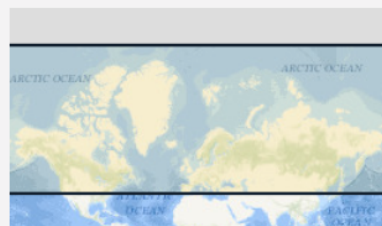
- Python notebooks

**Related Projects**

- netCDF layer

# DATA CATALOG

## GLIDER GLIDER OBSERVATIONAL DATA



**Platform type:** Glider  
**Platform name:** sdeep00  
**Instrument type:** Glider  
**Instrument name:** SCB-SLDEEP000

**Initial date:** 2015-10-19  
**End date:** 2015-12-11  
**Update:** 2016-06-03 17:05

**Source:** Observational  
**Entries:** 6

Sea water salinity Sea water temperature Sea water density [more >](#)  
[trajectory3d](#) [trajectoryProfile](#) [L2](#) [L1](#) [L0](#) [Real time](#) [Delayed time](#)


 Plot data

 Data access

### Variables

- ☐ sea\_water\_density
- ☐ pressure
- ☒ sea\_water\_salinity
- ☐ sea\_water\_temperature


### From date

 19/10/2015

### Resampling interval

Hourly 

### To date


 11/12/2015

### Resampling method

Mean 

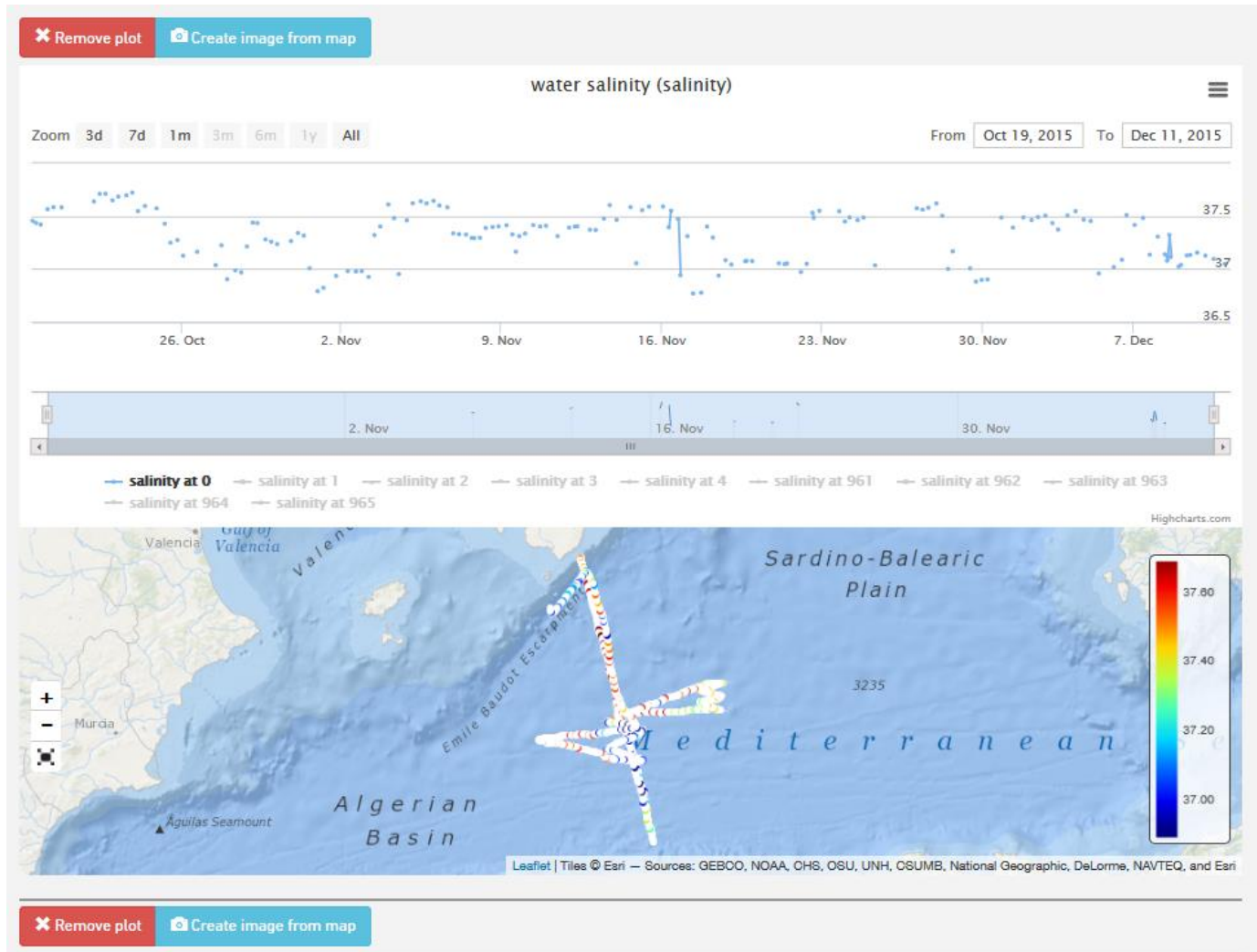
### Processing level

L2-Real time 

 Add to plot



# DATA CATALOG



# DATA CATALOG

## SOCIB TNA ABACUS

Evolving dataset containing the data of the glider missions carried out within the scope of the ABACUS project

### SOURCES OVERVIEW

Glider

6

Total

6

**DOI:** <https://doi.org/10.25704/b200-3vf5>

**Publication year:** 2018

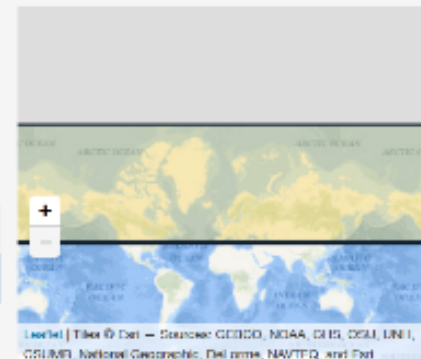
**Authors:** Giorgio Budillon , Yuri Cotroneo , Giuseppe Aulicino , Giannetta Fusco , Emma Heslop , Marc Torner & Joaquín Tintoré

**Publisher:** Balearic Islands Coastal Observing and Forecasting System, SOCIB

#### HOW TO CITE

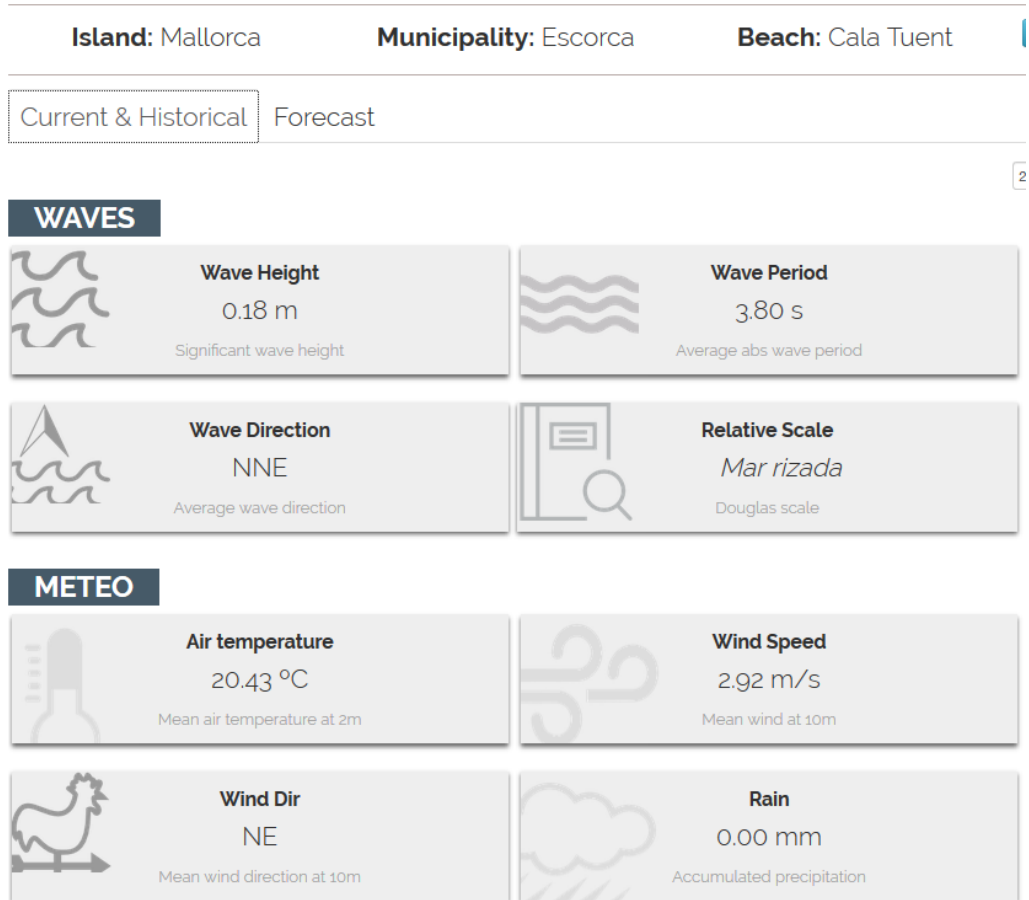
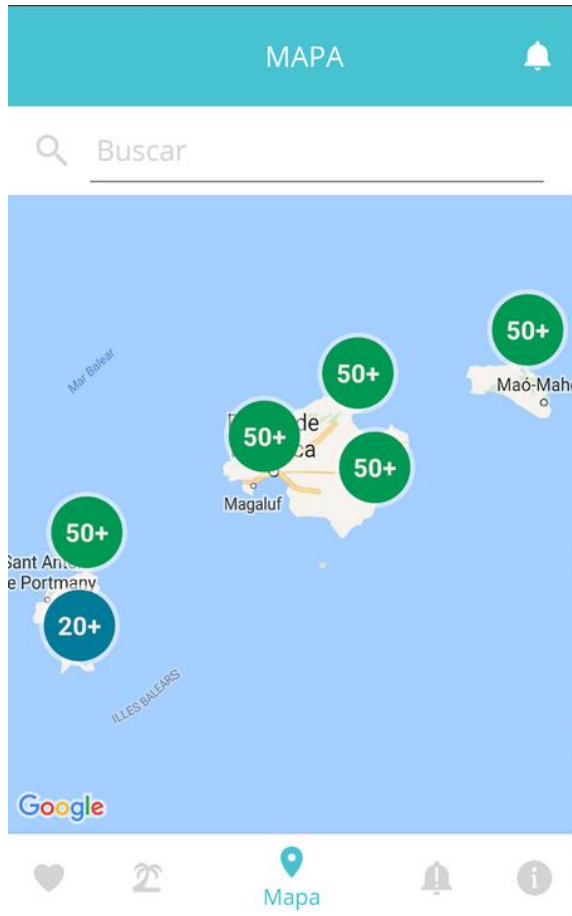
#### PUBLICATIONS 2

"Monitoring of the Algerian Basin through glider observations, satellite altimetry and numerical simulations along a SARAL/Altika track" Giuseppe Aulicino, Yuri Cotroneo, Simón Ruiz, Ananda Pascual, Antonio Sanchez Roman, Giannetta Fusco, Joaquín Tintoré, Giorgio Budillon Journal of Marine Systems Volume 179, pages 55-71 <https://doi.org/10.1016/j.jmarsys.2017.11.006>



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# Beach Lifeguards Product

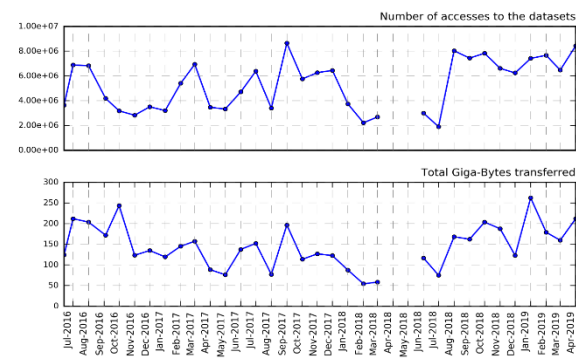
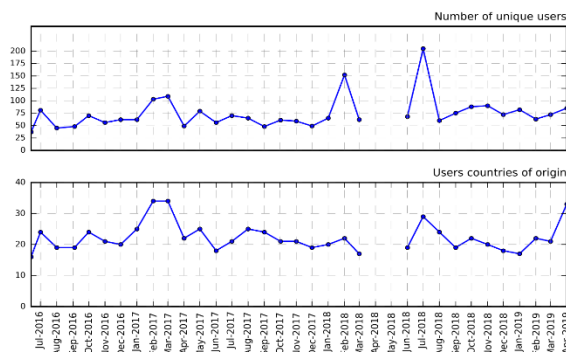


## SOCIB - JERICO-NEXT VA achievements

- Metrics for data access quantification
- Contribute to JERICO-NEXT catalogues
- Contribute to the establishment of IOC-OBPS
- Promote JERICO-NEXT best practices into IOC-OBPS

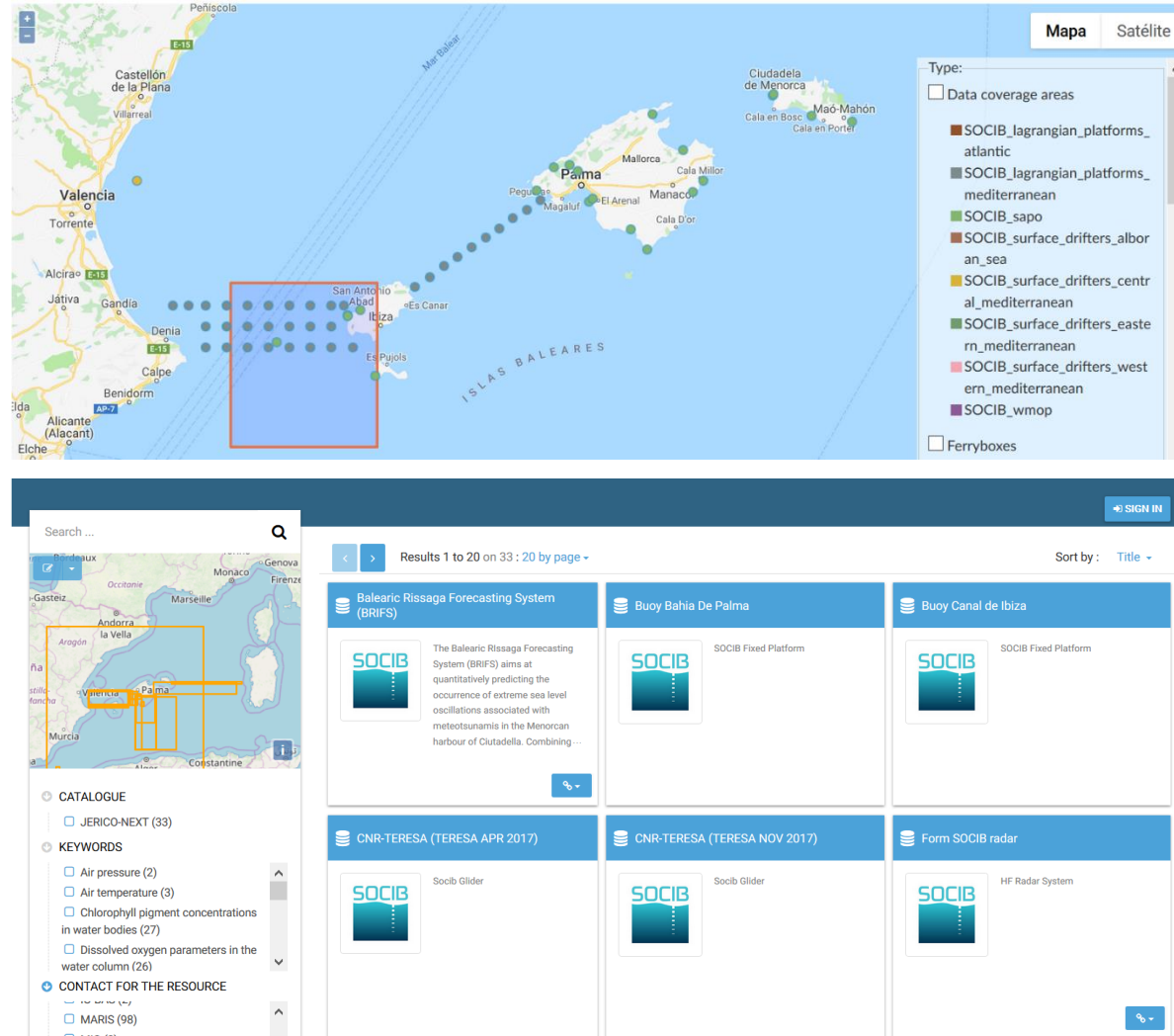
# Data Access Metrics

	remote host	organization	GB transferred	number accesses
1	195.55.142.49	Puertos del Estado (PdE)	135.98629	8158853
2	128.175.74.143	University of Delaware	17.57918	143
3	193.144.35.5	Red de Supercomputacion de Galicia	17.27037	197
4	155.33.199.118	Northeastern University	7.05546	3345
5	216.73.253.80	American Museum of Natural History	5.42002	61
6	193.146.155.145	Instituto Espanol de Oceanografia (IEO)	5.20126	444
7	195.251.36.188	Mediterranean Operational Network for the Global Ocean Observing System (MONGOOS)	4.69836	50087
8	151.1.25.219	European Marine Observation and Data Network (EMODnet)	4.31372	1086
9	212.89.6.93	Sociedad de Salvamento y Seguridad Marítima (SASEMAR)	2.62002	6146



[https://github.com/cmunoymas/processing\\_logs\\_thredds](https://github.com/cmunoymas/processing_logs_thredds)

# Contribution to JN Catalogs



# Ocean Best Practices System

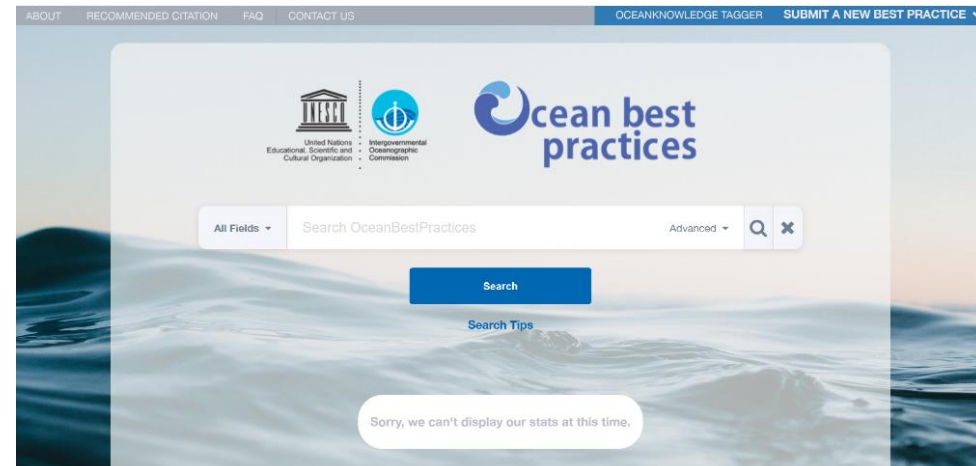


⇒ JERICO: Jt Euro. Res. Infrastruct. Netwk for Coast. Observatories

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Por fecha de publicación   Autores   Títulos   Materias

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JERICO and JERICO-Next Projects. JERICO: Joint European Research Infrastructure network for Coastal Observatories

Colecciones en esta comunidad

JERICO Best Practice Documents [15]

## Next Steps



- Integration with other key European Marine Infrastructures
- Improve link between data and documentation
- Improve SOCIB corporate website to further facilitate access points to resources



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## Conclusion

- JERICO-Next VA achievements are the key elements of a future European Coastal e-infrastructure (J-S3?).



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