



Joint European Research Infrastructure network for Coastal Observatory – Novel European eXpertise for coastal observaTories - JERICO-NEXT	
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<b>Work Package Title</b>	WP 5
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<b>Lead beneficiary</b>	MARIS
<b>Lead Authors</b>	Fred Kaan MARIS, Peter Thijsse MARIS, Patrick Gorringe SMHI
<b>Contributors</b>	
<b>Submitted by</b>	Peter Thijsse MARIS
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Approvals				
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<b>WP Leaders</b>	Leonidas Perivoliotis	HCMR	06.09.2018	LP
	Patrick Gorringe	SMHI	06.09.2018	PG

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## 1. Executive Summary

JERICO-NEXT brings together institutions from all over Europe involved in coastal observations. The partners span a large geographical area and have dedicated a large number of platforms to this project. However, no aggregated catalogue existed to expose the platform information to the outer community and for internal project use. Therefore, the impact and extent of the JERICO-NEXT project may be undervalued. To tackle this issue an aggregated catalogue has been created based on the Sextant tool provided by IFREMER, enabling a clear overview of the platforms and their associated metadata.

Both trans-national access and virtual access information of the JERICO-NEXT platforms are provided. The catalogue can be used by researchers as a starting point for free of charge data provided by the JERICO-NEXT consortium. Other information, such as products, can also be presented in the catalogue if relevant.

The catalogue <http://sextant.ifremer.fr/en/geoportail/sextant#/search> functions as a project overview and also helps to achieve the goal of enhancing the transfer of know-how in the coastal marine sector.





## 2. Introduction and aim

Referring back to the description of work: “There are a number of state of the art infrastructures in Europe for coastal observation, but they are not sufficiently linked together to provide an optimal and enhanced service for researchers and stakeholders. JERICO-NEXT addresses directly this need, by fostering the cooperation between the relevant actors in EU to significantly enhance the quality and **optimize the exploitation of data by researchers and the quality of the resulting services provided to stakeholders.**”

“In work package 5, we have the **ambition to develop and promote the delivery of all of the coastal data acquired around the European coasts by JERICO-NEXT** to the pan European data management systems (EMODnet) and to propose a single access portal for this data.”

JERICO-NEXT achieves the general aim by bringing together institutions from all over Europe involved in coastal observations. The partners span a large geographical area and have dedicated a large number of platforms to this project. However, no aggregated catalogue existed and therefore the impact and extent of the JERICO-NEXT project may be undervalued. To tackle this issue in WP5 we have developed and completed an aggregated catalogue based on Sextant (provided by IFREMER) providing a clear overview of all the platforms and their associated metadata.

The catalogue has two aims:

- 1: Provide a clear overview of all associated partners and their platforms dedicated to the JERICO-NEXT project
- 2: Enhance and simplify the information and data access for researchers and research teams

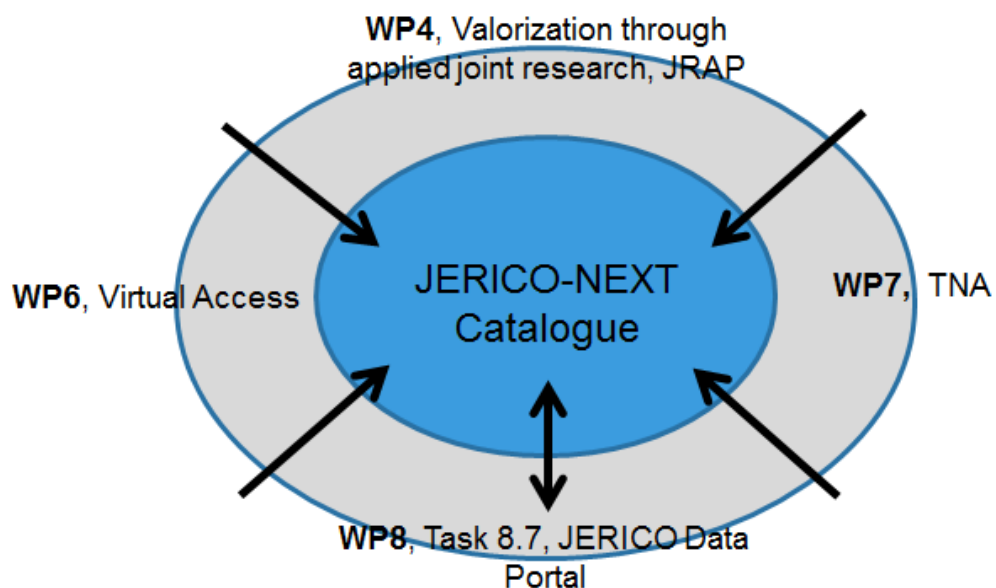


### 3. Main report

#### 3.1 How the catalogue facilitates the project partner activities

The catalogue brings together platform information from various WPs, mainly WP6, 7 and 8, and provides information gathered within the project in one place - the catalogue. The catalogue provides a dedicated interface in order to allow operators to describe their platform, the instruments, and in this way publish and advertise the work of data acquisition. The catalogue enables easy access of project results to project partners as well as to external users. It also contributes to providing more up-to-date platform information to the JERICO-NEXT data portal by identifying relevant platforms to be added to the portal.

Through these activities and the link to the data portal additional data are made visible, and provided to the European data aggregators such as EMODnet, SDN and Copernicus INSTAC.



#### 3.2 How the information was gathered

First question was: What data are/should be labeled as "JERICO-NEXT" and visible in the catalogue?

Within WP 5 it was agreed to add information in three levels:

- **Level 1:** The Virtual access infrastructures - WP6
- **Level 2:** The Platform list + link to relevant data - WP8,
- **Level 3:** The coastal observatories providing TransNational Access - WP7



One major task was to identify what data and information should actually be added to the catalogue as only a subset of network/infrastructure information from the partner institutes are relevant and should be labelled as JERICO-NEXT and hence included in the catalogue. A questionnaire was sent to relevant project partners to collect this information. In most cases a reply was received and information added accordingly. An example of information required and replies received by project partner HCMR can be found in chapter 5.

The data collection and cataloguing activity is of major benefit for the activities with the JERICO-NEXT data portal, task 8.7, updating the content with correct information, <http://www.jerico-ri.eu/data-access/>. The data portal was also a good starting point to identify relevant partners to be addressed but was not complete yet.

Other sources of information were:

- Direct contact with relevant project partners and WP leaders
- The JERICO-NEXT website
  - Virtual access info: <http://www.jerico-ri.eu/virtual-access/>
  - TNA info: <http://www.jerico-ri.eu/tna/>
- Deliverable 7.1, Description of facilities proposed for transnational access by the JERICO-NEXT Consortium
- Biology data via <http://www.emodnet-biology.eu/data-catalog?module=dataset&show=search&spcolid=910>

Information gathered not only populated the catalogue but also completed the JERICO-NEXT data portal.



Information will be updated and completed as the project progresses. More information, such as relevant products, information from JRAP (WP4) activities and additional DOIs, may be added to the catalogue throughout the project duration. Also additional biological data and information is expected to be added as this information is available.

### 3.3 The catalogue

The JERICO-NEXT catalogue will be accessible through the following link: <http://sextant.ifremer.fr/en/geoportail/sextant#/search> and later (when reviewed) via integration in the JERICO-NEXT website. In test phase you will need to login first.

First, select the preferred language on the upper right corner of the screen



Hereafter, the catalogue can be selected by clicking on “catalogue” and searching for “JERICO”





Rechercher ...

CATALOGUE

Castilla y León Aragón Andorra la Vella España Castilla-La Mancha Valencia Murcia Andalucía Málaga Gibraltar Rabat Sidi Bel Abbas Djelfa Batna Constantine

☑ Catalogue

jerico

☐ JERICO-NEXT (91)

Thèmes Sextant

Thèmes Inspire

Mots-clés

Contact de la ressource

Années

Services associés

Effacer les filtres

2: select catalogue and search "jerico"

SCB-SDEE

SOC

Buoy Bahi

SOC





After selecting the “JERICO-NEXT catalogue, select “100” in the per page option. the 91 JERICO-NEXT metadata entries will appear.

CATALOG MAP MY DOWNLOADS ADMINISTRATION

Results 1 to 20 on 91 20 by page 10 50 100

Sort by: Modified

MONICAN

SCB-SLDEEP00 (PARTHENOPE OA ABACUS2)

SCB-SLDEEP000 (CABRERA SWOT DEC 2015)

IME-SLDEEP00 (CANALES NOV 2015)

Buoy Bahia De Palma

SCB-SLDEEP005 (CANALES NOV 2017)

SCB-SLDEEP004 (PARTHENOPE ABACUS4 NOV 2017)

CNR-TERESA (TERESA NOV 2017)

SCB-SLDEEP004 (CANALES SEP 2017)

When clicking on one of the records and selecting complete, detailed metadata will be shown:

Cefas data hub

Overview Complete

3: Select complete to see all metadata

Abstract

The Cefas Data Hub holds a wide variety of both marine and freshwater data. Data themes include biological (fisheries, benthic invertebrates, plankton etc.), physical (water temperature, wave direction, water depth etc.), chemical (nutrients, toxins, radiochemistry etc) and socio-economic (dredge disposal sites, economic models, recreational angling surveys etc). Data formats are varied and include CSVs, Shapefiles, Sound recordings, PDFs, JPEG images, model outputs and gene sequences. Timescales of the data range from historic (1880) to the present (with semi-live feeds to remote sensing platforms). The geographic extents of data mainly concentrate on UK waters but also include global areas such as the Southern Indian Ocean, Caribbean and the Arctic.

Date(s)

2018-06-08 - Publication

Contacts

Joanna Whittle (CEFAS) , Oliver Williams (CEFAS)

Keywords

Fish abundance in water bodies, Temperature of the water column, Wave direction, Bathymetry and Elevation, Plankton abundance per unit volume of the water column, Uptake of other nutrients in the water column

Constraints

Use limitation : Aucune condition ne s'applique  
Access constraints : Other restrictions  
Use constraints : Copyright



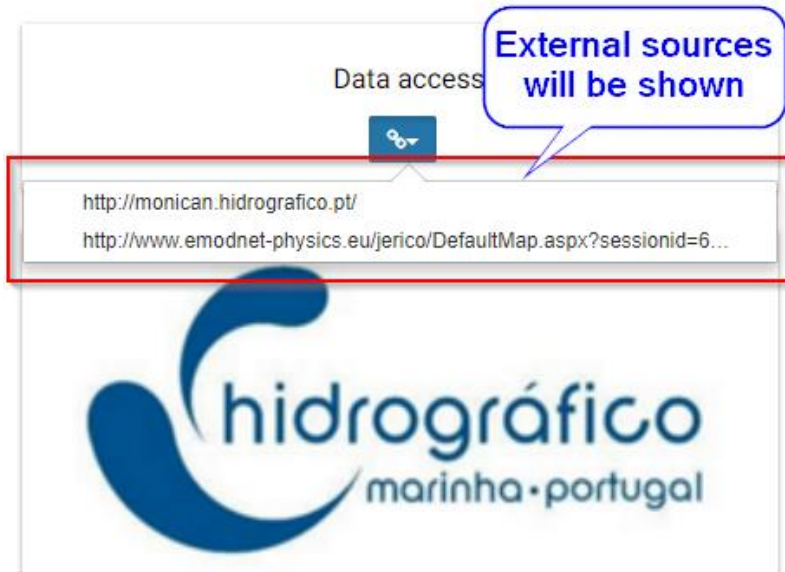
The complete overview will show all available metadata:

The title represents the platform name. For every platform, essential metadata has been added such as the abstract, measured parameters, contact information, geographic location and the temporal reference. Given that there is no separate field for “network”, the networks have been added in the keyword section and for clarification in the title of the entry.

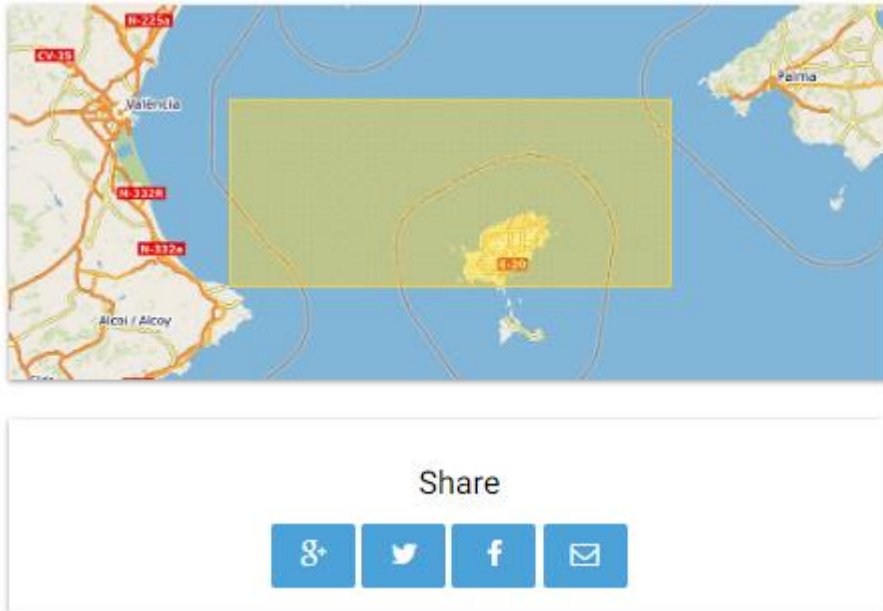
External links to the data sources and further information have also been added. These can be found in the overview section of the metadata record. When clicking on the drop



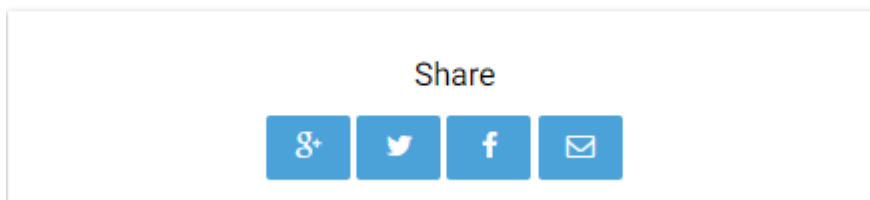
down box for “data access” the external sources will appear. In the example below the external links are: <http://monican.hidrografico.pt/> and <http://www.emodnet-physics.eu/jerico/DefaultMap.aspx?sessionid=636559307778077341> which provide both information about data access as well as background information about the data.



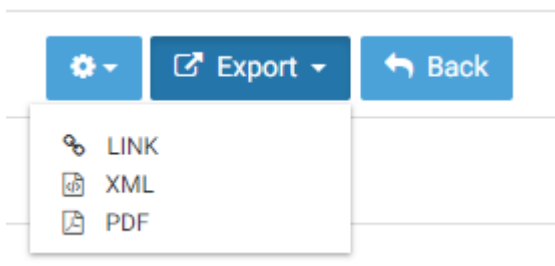
If the coordinates represent a bounding box the area covered by the metadata will be shown on the map on the bottom right of the overview page:



Also the user is able to share the metadata directly via social media and through email through the buttons on the bottom left of the overview screen of the meta data:



The data can be exported to PDF, XML and as link through the export button on the top right of the screen.





## 4. Conclusions

“In NA work package 5, we have the **ambition to develop and promote the delivery of all of the coastal data acquired around the European coasts by JERICO-NEXT** to the pan European data management systems (EMODnet) and to propose a single access portal to all these data.”

However, no aggregated catalogue existed and therefore the impact and extent of the JERICO-NEXT project may be undervalued. To tackle this issue WP5 have developed and completed an aggregated catalogue based on Sextant (provided by IFREMER) providing a clear overview of all the platforms and their associated metadata.

The catalogue this has two aims:

- 1: Provide a clear overview of all associated partners and their platforms dedicated to the JERICO-NEXT project
- 2: Enhance and simplify the information and data access for researchers and research teams

After concluding the initial development work, we can state the aggregated catalogue greatly enhances visibility of the partners and their platforms dedicated to JERICO-NEXT and it can be integrated into the JERICO-NEXT website.

The catalogue brings together results from a number of the project Work Packages and enables easy access to information for both internal and external users. The work in populating the catalogue also benefited activities within the JERICO-NEXT data portal by updating the platforms and platform information in the portal.

The catalogue will be updated on a regular bases and new information added throughout the duration of the project.





## 5. Annexes and references

HCMR's POSEIDON data provided to JERICO-NEXT and response to the questionnaire

### A. Buoys

Station: Athos, Location: Latitude: 39.9635E, Longitude: 24.7226N

Measured Parameter(s)	Elevation/Depth	Sampling frequency	Frequency of data recovery
Wind speed/dir.,	+3	3h	3h
Air Pressure,	3	3h	3h
Air temperature,	3	3h	3h
Wave Height, direction, period	0	3h	3h
SST, SSS surface	-1	3h	3h
Currents	-1	3h	3h
Temperature	-1, -20, -50, -75, -100	3h	3h
Salinity	-1, -20, -50, -75, -100	3h	3h
Dissolved Oxygen	-20, -50, -75, -100	3h	3h
Chlorophyll-A (Fluorescence)	-20, -50, -75, -100	3h	3h
Turbidity	-20, -50, -75, -100	3h	3h





**Station: Mykonos, Location: Latitude: 37.5113E, Longitude: 25.4590**

Measured Parameter(s)	Elevation/Depth	Sampling frequency	Frequency of data recovery
Wind speed/dir.,	+3	3h	3h
Air Pressure,	3	3h	3h
Air Temperature	3	3h	3h
Wave Height, direction, period	0	3h	3h
Temperature, Salinity	-3	3h	3h
Currents	-3	3h	3h

**Station: Saronikos, Location: Latitude: 37.6099, Longitude: 23.5645**

Measured Parameter(s)	Elevation/Depth	Sampling frequency	Frequency of data recovery
Wind speed/dir.,	+3	3h	3h
Air Pressure,	3	3h	3h
Air Temperature	3	3h	3h
Wave Height, direction, period	0	3h	3h
Temperature, Salinity	-3	3h	3h
Currents	-3	3h	3h







Station: Heraklion Coastal Buoy (HCB), Location: Latitude: 35.4342, Longitude: 25.0792

Measured Parameter(s)	Elevation/Depth	Sampling frequency	Frequency of data recovery
Wind speed/dir.,	+3	3h	3h
Air Pressure,	3	3h	3h
Air Temperature	3	3h	3h
Wave Height, direction, period	0	3h	3h
Temperature, Salinity	-3	3h	3h
Currents	-3	3h	3h

## B. Ferry Box

Line: Piraeus – Heraklion

Measured Parameters:

Sea Temperature, Salinity, Dissolved Oxygen, Chlorophyll-A fluorescence, pH, Turbidity

## C. Glider

W-E line in the Cretan sea (Lat: 35.96E Lon: 23.73467N to Lat: 35.77683E Lon: 26.14467N)

Measured parameters:

Temperature, Salinity, Dissolved Oxygen

