

# SERVICIO DE DATOS DE LA UNIDAD DE TECNOLOGÍA MARINA EL CAMINO DE LOS DATOS OCEANOGRÁFICOS

Juan Luis Ruiz  
Susana Diez

## I. INTRODUCCIÓN

- Contexto y misión de la UTM
- Tipología de los datos oceanográficos
- Motivos para un Servicio de Datos

## II. SERVICIOS BÁSICOS

- Custodia y entrega de datos puros
- ¿Por qué necesitamos metadatos?

## III. INFRAESTRUCTURA DE DATOS ESPACIALES

- Geoportal de Datos Abiertos
- Catálogo de Campañas

## IV. DISEMINACIÓN INTERNACIONAL

- IDE Europea Seadatanet

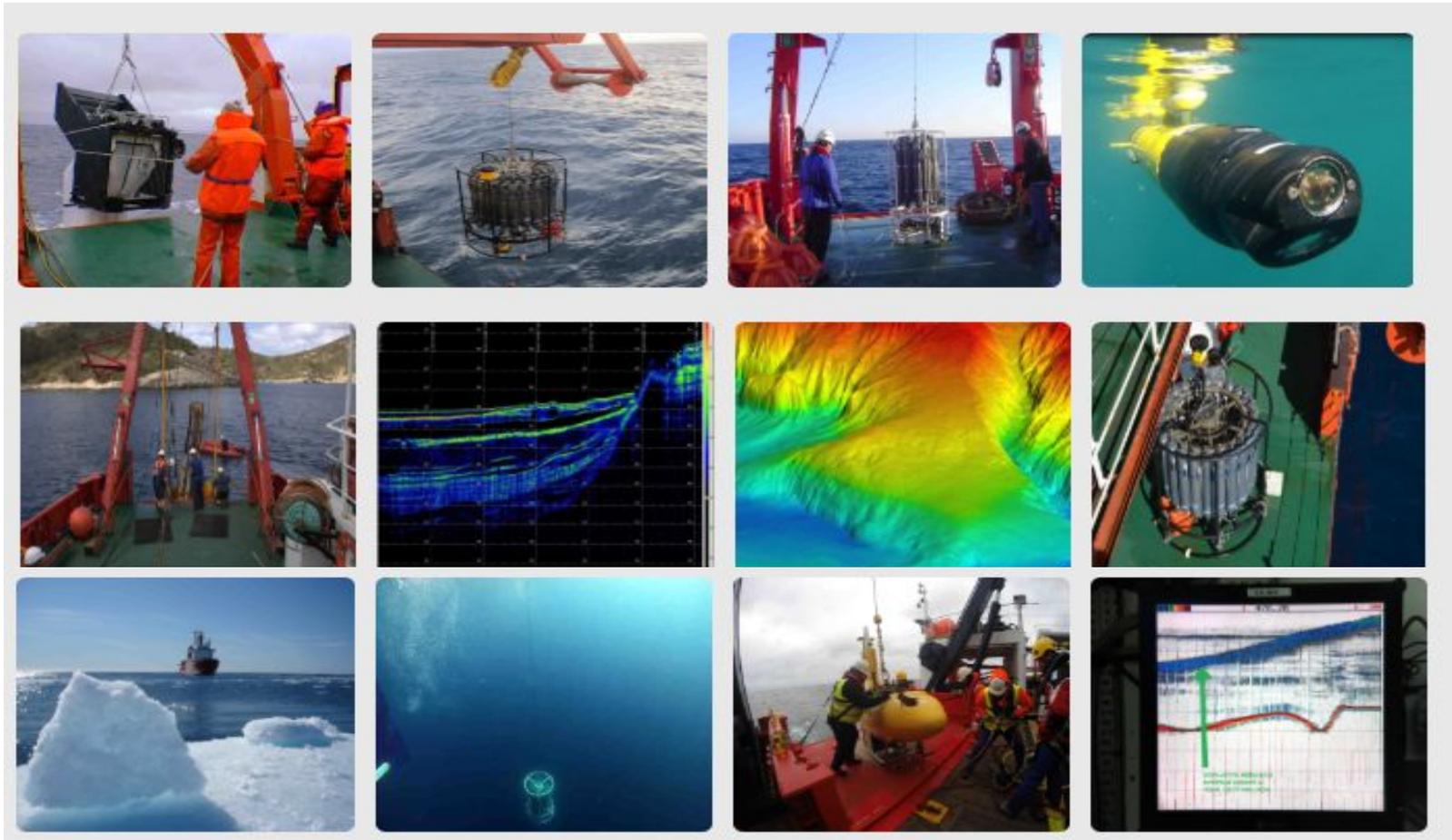
## V. CONCLUSIÓN

- El camino de los datos oceanográficos
- Perspectivas de futuro

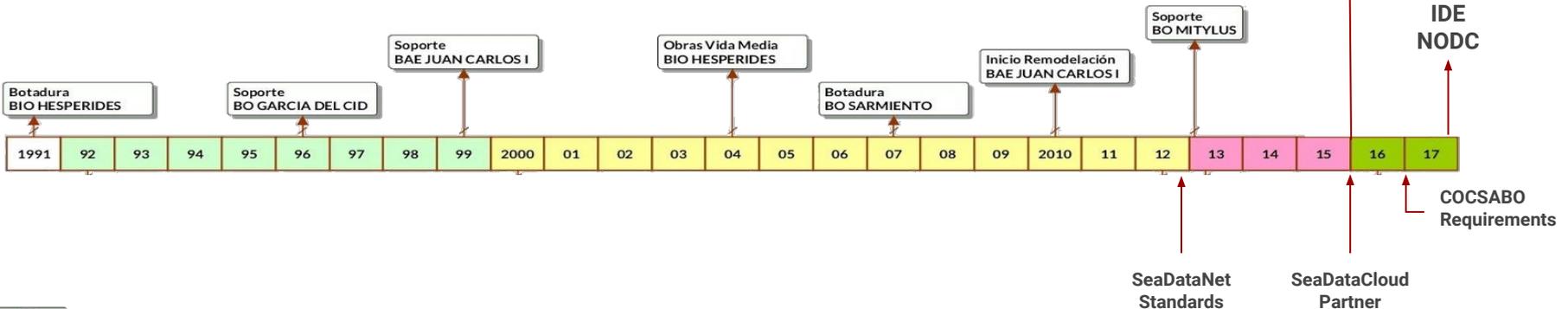
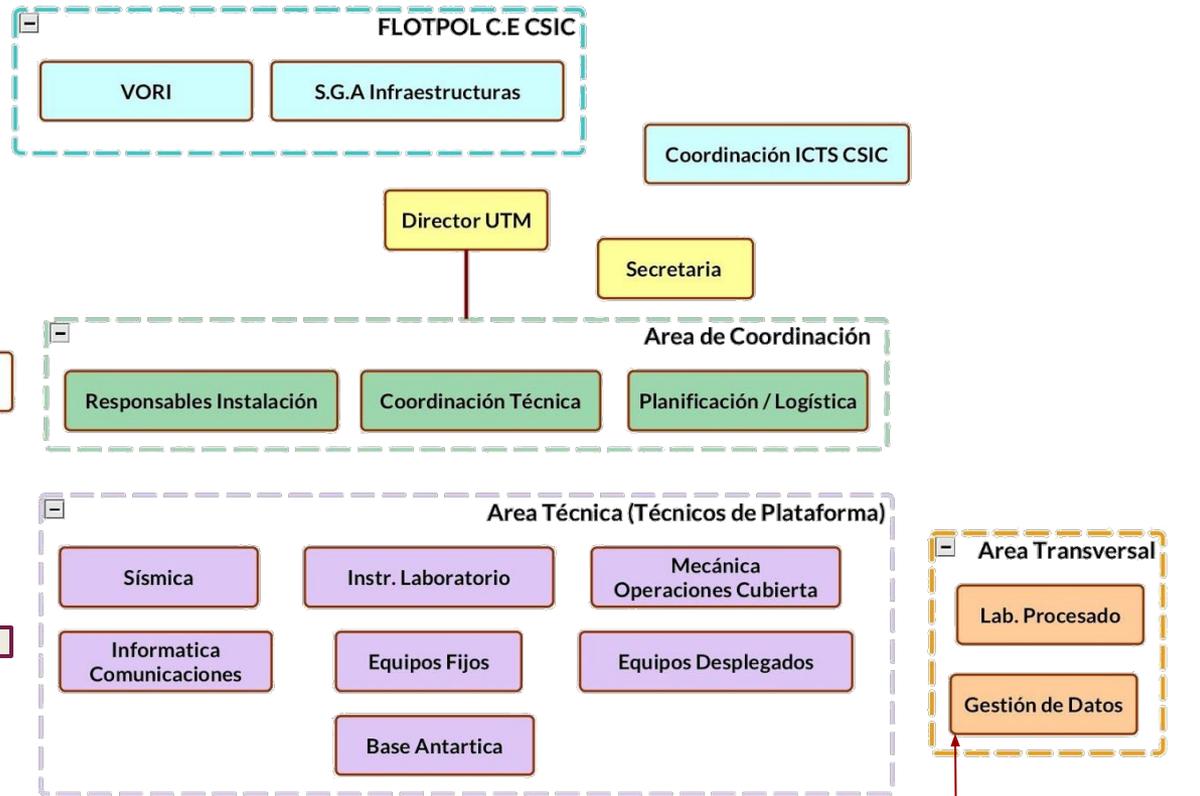
# I. INTRODUCCIÓN - Contexto y misión de la UTM



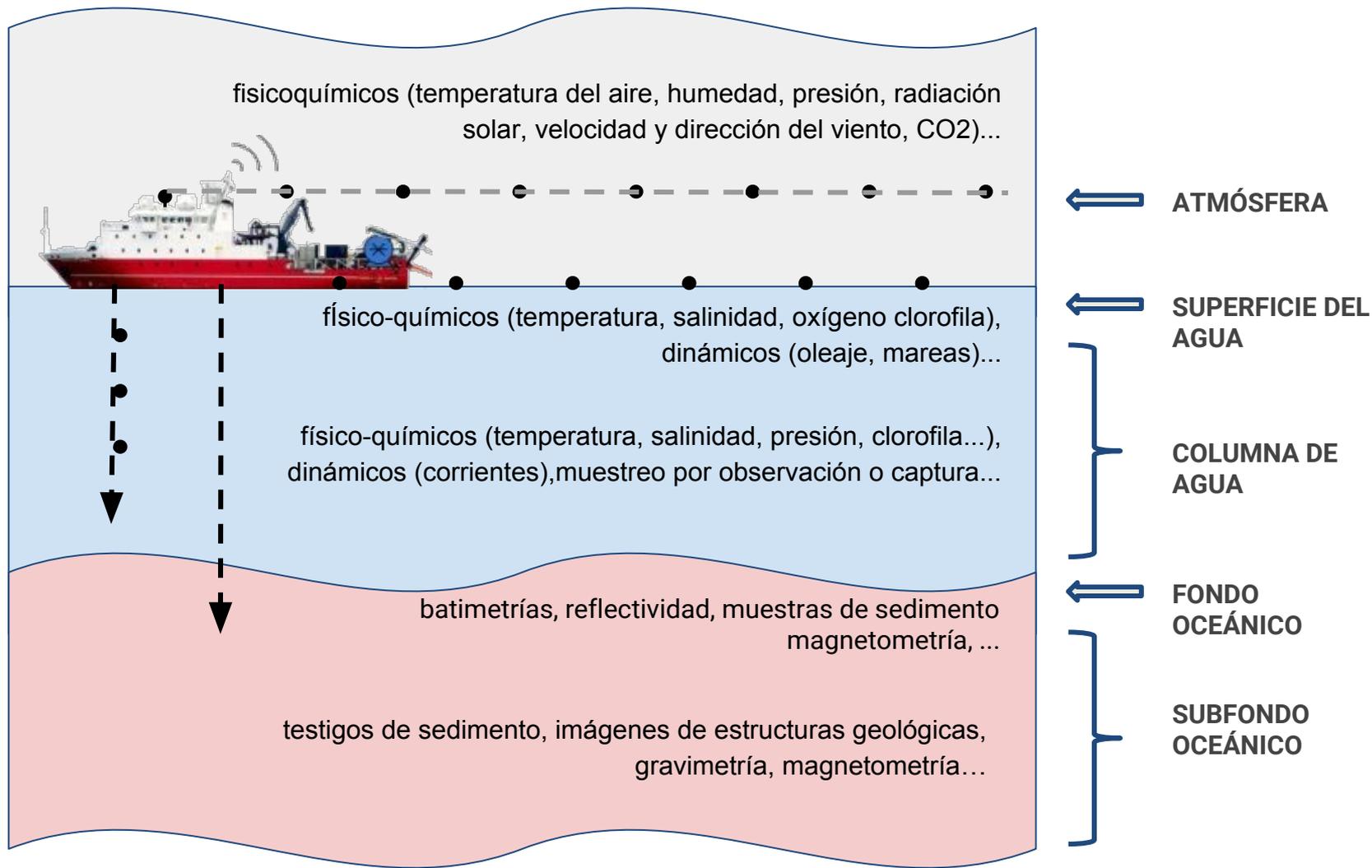
# I. INTRODUCCIÓN - Contexto y misión de la UTM

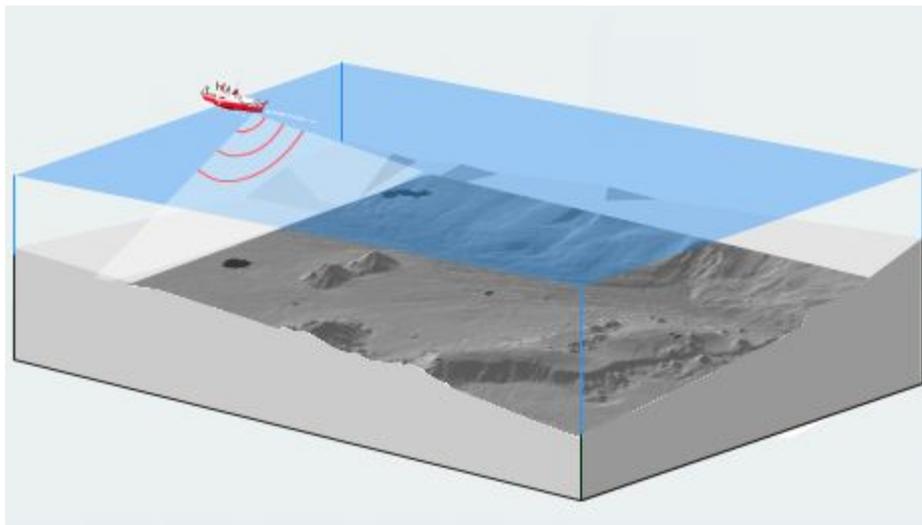


# I. INTRODUCCIÓN - Contexto y misión de la UTM

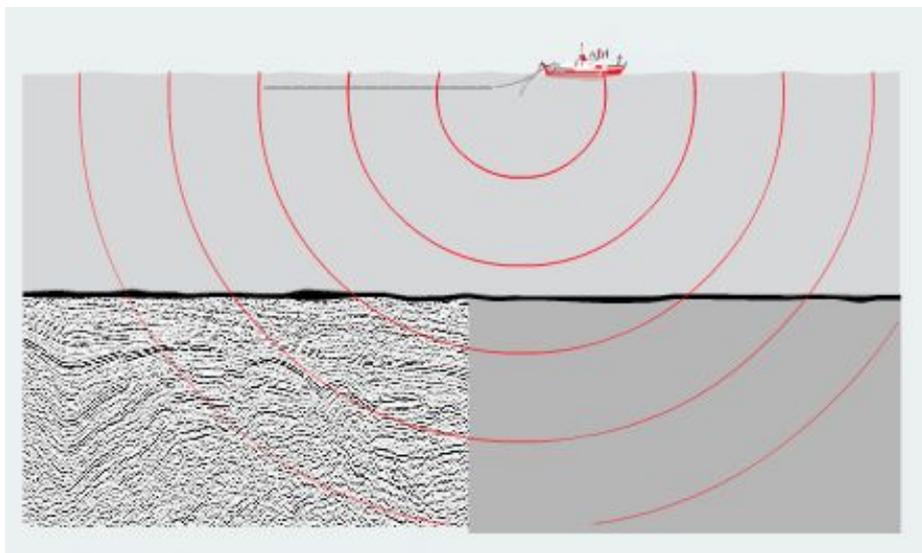


# I. INTRODUCCIÓN - Tipología de los datos oceanográficos





**BATIMETRÍA DEL FONDO OCEÁNICO**



**PERFIL SÍSMICO DEL SUBFONDO OCEÁNICO**



## COMISIÓN DE COORDINACIÓN Y SEGUIMIENTO DE LAS ACTIVIDADES DE LOS BUQUES OCEANOGRÁFICOS

PROTOCOLO DE ACCESO A LA FLOTA 2017



## OBLIGACIONES DE CESIÓN DE DATOS Y METADATOS

TODOS LOS **DATOS DE CAMPAÑAS** FINANCIADAS CON FONDOS PÚBLICOS **ACABARÁN SIENDO PÚBLICOS Y ACCESIBLES:**

- **INMEDIATAMENTE** PARA LOS **DATOS BÁSICOS** ADQUIRIDOS DE FORMA AUTOMÁTICA O PARA AJUSTE TÉCNICO **PROPIEDAD DEL OPERADOR** DEL BUQUE
  - PARÁMETROS DE ADQUISICIÓN CONTINUA:
    - NAVEGACIÓN, METEO, TERMOSALINÓGRAFO DE AGUA SUPERFICIAL...
  - PERFILES DE CALIBRACIÓN DE LAS SONDAS: XBT...
- **2 AÑOS** TRAS FINALIZAR LA CAMPAÑA O PROYECTO PARA EL **RESTO DE DATOS BRUTOS**

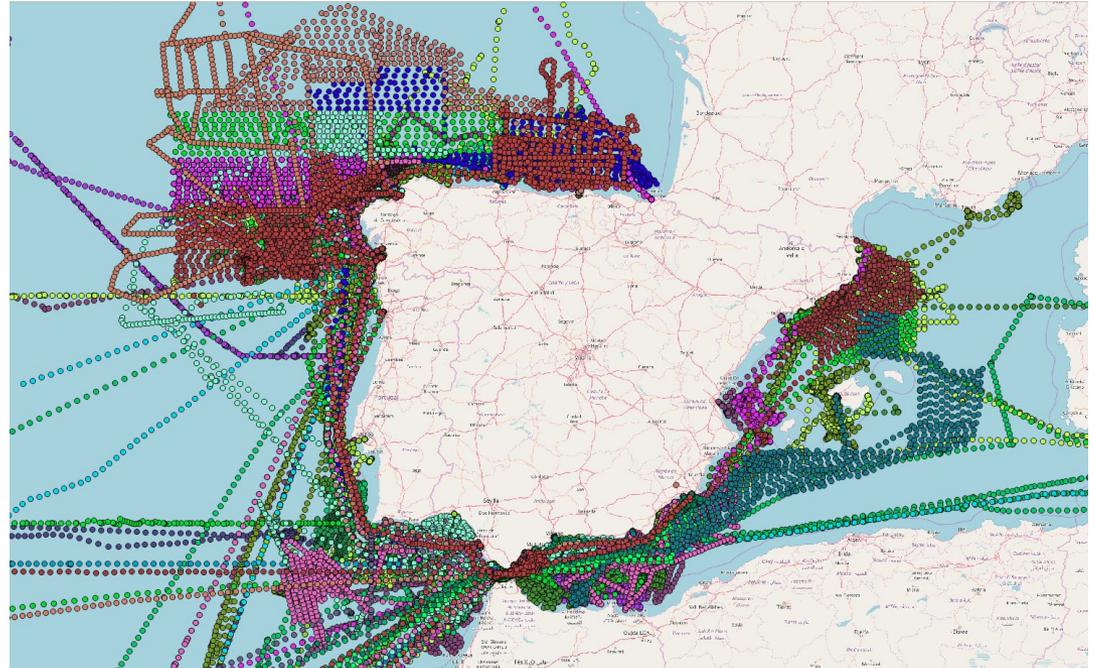
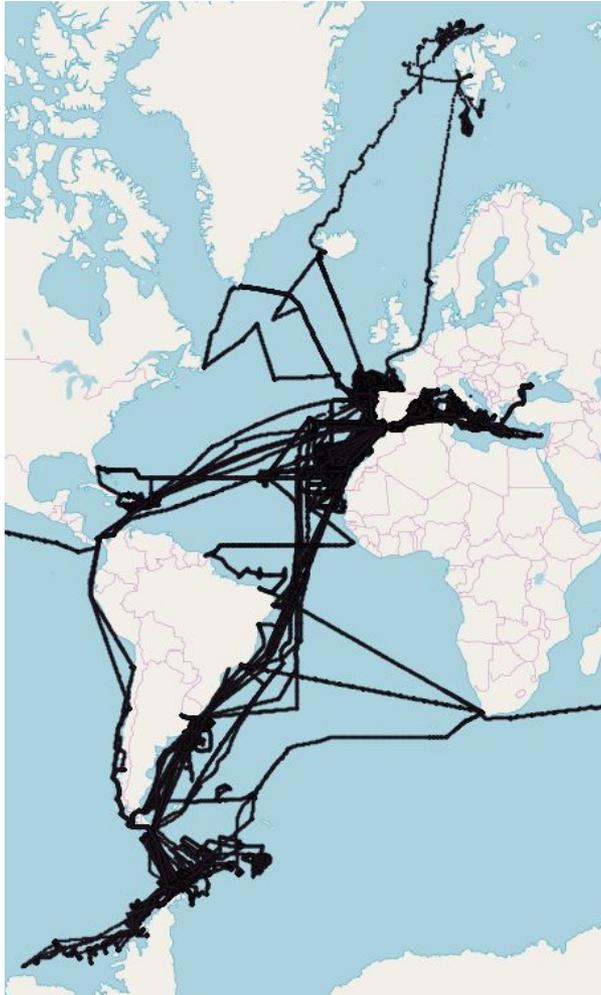
EL EQUIPO CIENTÍFICO TIENE LA OBLIGACIÓN DE FACILITAR:

- COPIA DE LOS **DATOS** PARA SU FUTURA PUBLICACIÓN.
- **METADATOS** CON DESCRIPCIÓN DE CAMPAÑA Y CONJUNTOS DE DATOS EN ISO-19139 (INSPIRE).
- **INFORME FINAL DE CAMPAÑA.**

EN LAS **PUBLICACIONES GENERADAS** CON DATOS OBTENIDOS DE CAMPAÑAS OCEANOGRÁFICAS SE DEBERÁ:

- **CITAR** EN LOS AGRADECIMIENTOS AL **BUQUE** EMPLEADO.
- **ENVIAR** COPIA DE LOS DOCUMENTOS PUBLICADOS AL OPERADOR QUE MANTENDRÁ UN **REGISTRO** ACTUALIZADO.

# I. INTRODUCCIÓN - Motivos para un Servicio de Datos



BIO HESPÉRIDES - 1991

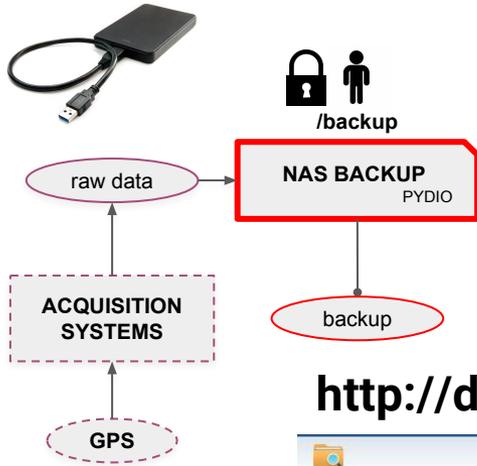
B/O SARMIENTO DE GAMBOA - 2008



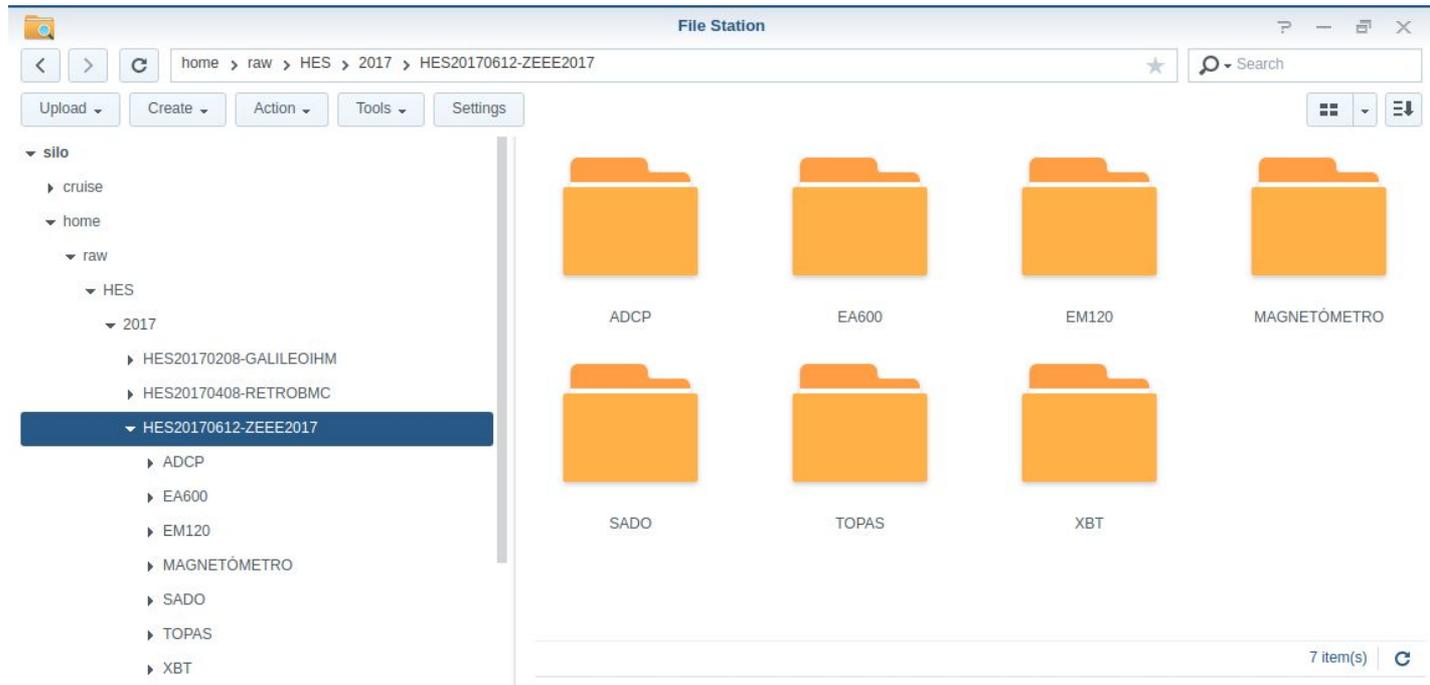
1991 - 2018  
240 cruises  
~ 30 TB

PHYSICS  
BATHYMETRY  
GEOLOGY  
CHEMISTRY  
BIOLOGY

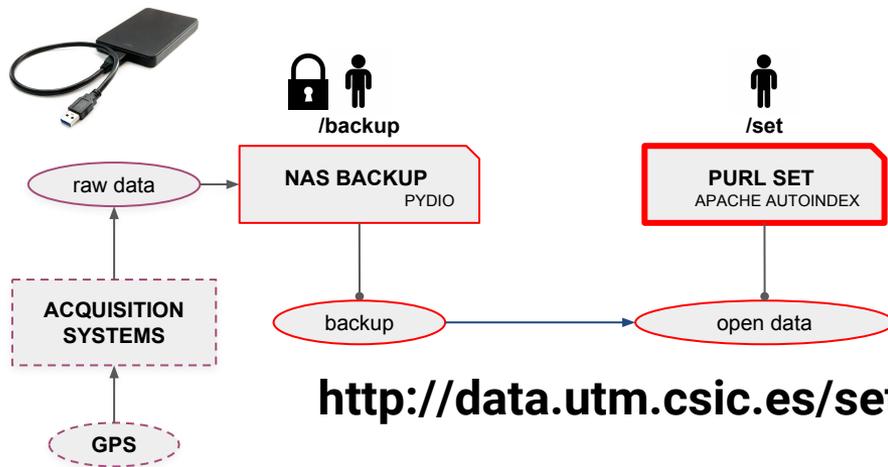
## II. SERVICIOS BÁSICOS - Custodia y entrega de datos puros



<http://data.utm.csic.es/backup>



## II. SERVICIOS BÁSICOS - Custodia y entrega de datos puros

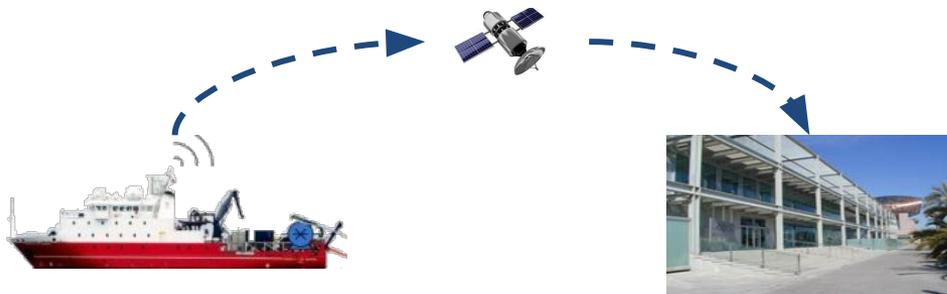


<http://data.utm.csic.es/set/hes/20170612/open/underway/raw>

Name	Last modified	Size	Description
 <a href="#">Parent Directory</a>		-	ZEE2017
 <a href="#">29HE20170612_gravimetro.raw</a>	2018-09-12 14:02	3.6M	ASCII-CSV Non-standar without QC
 <a href="#">29HE20170612_meteo.raw</a>	2018-09-12 14:02	518K	ASCII-CSV Non-standar without QC
 <a href="#">29HE20170612_termosal.raw</a>	2018-09-12 14:02	3.6M	ASCII-CSV Non-standar without QC

UTM-CSIC Data Service - [data@utm.csic.es](mailto:data@utm.csic.es)

## II. SERVICIOS BÁSICOS - Custodia y entrega de datos puros



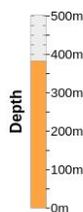
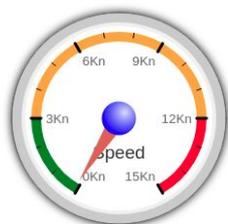
**REAL TIME PANEL**  
Monitorización remota en tiempo real de  
parámetros de adquisición automática y continua

<http://data.utm.csic.es/rtp/sdg>

### R/V SARMIENTO DE GAMBOA



09/10/2018 - 08:15:52



37°6.41' N , 1°46.20' W



#### NAVIGATION

09/10/2018 - 08:15:53

Speed: 0.10 Knots  
Heading: 6.90 °  
Depth: 381.21 m  
Lat: 37.10685 °  
Lon: -1.76993 °

#### METEOROLOGY

08/10/2018 - 07:10:13

Temperature: 19.84 °C  
Pressure: 1018.35 hPa  
Humidity: 74.80 %  
Solar Radiation: 331.98 w/m<sup>2</sup>  
Wind Speed: 2.16 m/s  
Wind Direction: 187.20 °

#### SEA WATER

09/10/2018 - 08:15:34

Temperature: 25.43 °C  
Salinity: 37.37  
Conductivity: 56.74 mS/cm  
Fluor: 0.00 V  
 $\sigma_T$ : 25.00 kg/m<sup>3</sup>

## II. SERVICIOS BÁSICOS - ¿Por qué necesitamos metadatos?

Para encontrar información específica sobre **datos de adquisición** agrupados por campañas necesitamos respuestas a los **qué, cuándo, dónde, cómo, quién ...**



XML ISO19139 INSPIRE

### CRUISE SUMMARY REPORT (CSR)

ID, acrónimo, nombre, resumen, IP, organismo, fechas, área, parámetros, instrumentos, etc

### COMMON DATA INDEX (CDI)

ID, parámetros, instrumento, coordenadas, tiempo, a quien pertenece, campaña donde se ha adquirido (CSR), etc.

Mikado 3.5.1 SDN V2 Manual / CSR : /home/data/Documents/ide/csr/HES/29HE20180426.xml

Manual Automatic Options Tools ?

Identification General information Mooring Measurement Geographical area Documentation

Cruise Objectives and brief of cruise Ship Parameters Responsible party Collate center

Revision date 01/08/2018 dd/mm/yyyy (25/01/2007)

Period

Start date 26/04/2018 00:00:00 dd/mm/yyyy hh:mm:ss -24 hr (25/01/2007 15:05:00)

End date 10/05/2018 00:00:00 dd/mm/yyyy hh:mm:ss -24 hr (25/02/2007 12:00:00)

Country of departure

Country Brazil

Code list value BR

Port of departure

Port Natal

code list value BSH1607

Country of return

Country Brazil

Code list value BR

Port of return

Port Fortaleza

code list value BSH70

Dataset Access Restriction

Access constraints

by negotiation

Metadata (CDI) Catalog Editor

Unidad de Tecnología Marina (CSIC) 2011

Add Row Undo Save Export to CSV

List of Samples, Stations and Lines to be used as Metadata entries (CDI)

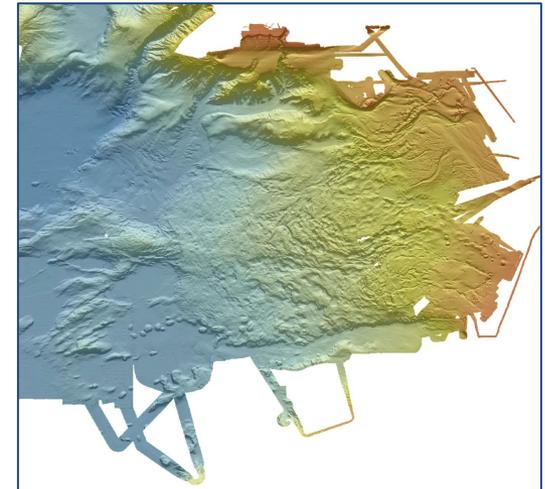
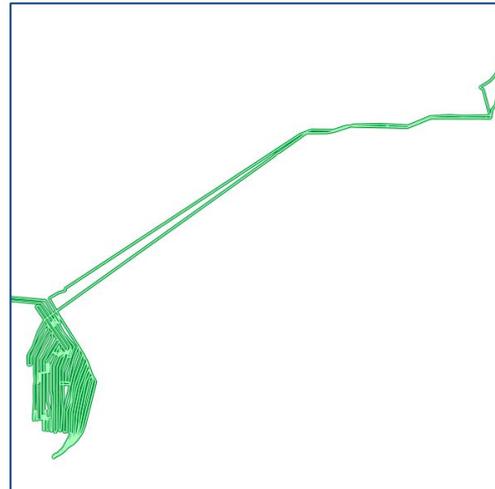
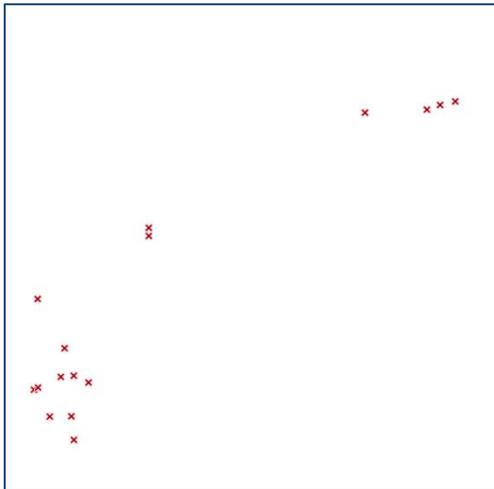
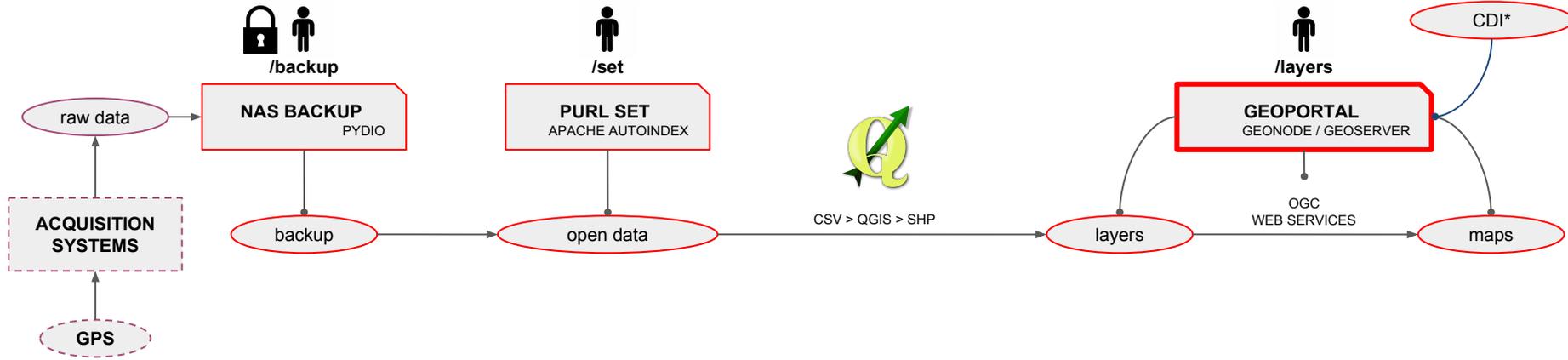
init_day	end_day	sample_name	template			
03-abr-2010 7:52:46	03-abr-2010 8:52:46	NUMBER_1	ctd	info	delete	add row
04-abr-2010 7:53:50	06-abr-2010 8:53:50	NUMBER_2	ctd	info	delete	add row
11-abr-2010 7:53:53	12-abr-2010 8:53:53	LINE_1	ek60	info	delete	add row
15-abr-2010 7:53:54	16-abr-2010 8:53:54	LINE_2	ek60	info	delete	add row
20-abr-2010 12:14:44	21-abr-2010 12:14:44	LINE_3	ek60	info	delete	add row
22-abr-2010 12:27:56	22-abr-2010 12:27:56	NUMBER_3	ctd	info	delete	add row

Dates and time must have this format dd MMM-yyyy hh:mm:ss (example 12-Jun-2011 00:00:00)

Information and messages

There are 30 templates

# III. IDE - GeoPortal de Datos Abiertos



## http://data.utm.csic.es/layers

The screenshot shows the 'Explore Layers' page on the GeoPortal. The top navigation bar includes 'Layers', 'Maps', 'Documents', 'People', and 'Groups', along with a search bar and a 'data' logo. The main content area is titled 'Explore Layers' and features a 'Total: 6' indicator and a 'Upload Layers' button. On the left, there is a 'Cart' section with instructions to add resources, and a 'Filters' section with various categories like TEXT, TYPE, CATEGORIES, KEYWORDS, OWNERS, DATE, and REGIONS. A map of Menorca is visible at the bottom left of the filters. The main list displays three layers:

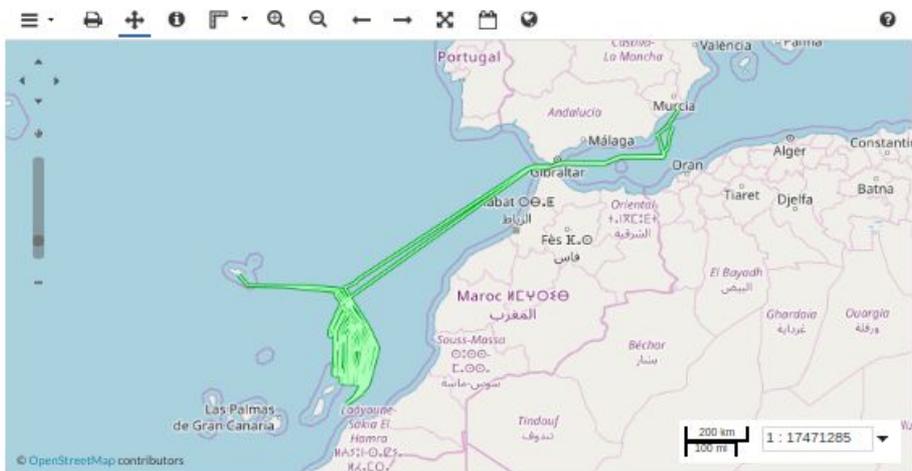
- PROFILE**  
hes20170612xht-ZEE2017  
DOI: 10.20351/29HE20170612 - http://data.utm.csic.es/set/hes/20170612/open/xht  
Created by HESPERIDES on 12 Jun 2017. 5 views, 0 shares, 0 stars.
- UNDERWAY**  
hes20170612-ZEE2017  
DOI: 10.20351/29HE20170612 - http://data.utm.csic.es/set/hes/20170612/open/underway  
Created by HESPERIDES on 12 Feb 2017. 59 views, 0 shares, 0 stars.
- UNDERWAY**  
hes20160523- INCRISIS  
http://data.utm.csic.es/set/hes/20160523/open/underway  
Created by HESPERIDES on 23 May 2016. 11 views, 0 shares, 0 stars.

The fourth layer is partially visible:

- UNDERWAY**  
hes20150601- ZEE 2015  
DOI:10.20351/29HE20150601 - http://data.utm.csic.es/set/hes/20150601/open/underway  
Created by HESPERIDES on 1 Jun 2015. 9 views, 0 shares, 0 stars.



## hes20170612 -ZEE2017



Info Attributes Share Ratings Comments

**Title** hes20170612 -ZEE2017  
**License** Open Data Commons (ODC)   
**Abstract** DOI: 10.20351/29HE20170612  
<http://data.utm.csic.es/set/hes/20170612/open/underway>

**Creation Date** Feb. 12, 2017, midnight  
**Type** Vector Data  
**Keywords** thermosalinographs , meteorological packages , gps  
**Category** Underway   
**Regions** Ocean  
**Owner** HESPERIDES

**More info** -

**Restrictions** CITATION USING DOI: Conforto, J., & UTM-CSIC. (2018). ZEEE2017 Cruise, RV Hespérides [Data set]. UTM-CSIC. <https://doi.org/10.20351/29HE20170612>

**Language** English  
**Temporal Extent** June 12, 2017, midnight - July 12, 2017, midnight  
**Supplemental Information** <http://data.utm.csic.es/set/hes/20170612/doi>

Download Layer

Download Metadata

### Legend

### Maps using this layer

List of maps using this layer:  
[ZEE2017](#)

### Create a map using this layer

Click the button below to generate a new map based on this layer.

Create a Map

### About

**Owner**  
 HESPERIDES  
 UTM. Unidad de Tecnología Marina  
**Point of Contact**  
 data  
 UTM. Unidad de Tecnología Marina  
**Metadata Author**  
 data  
 UTM. Unidad de Tecnología Marina

### Download Layer

Download Layer

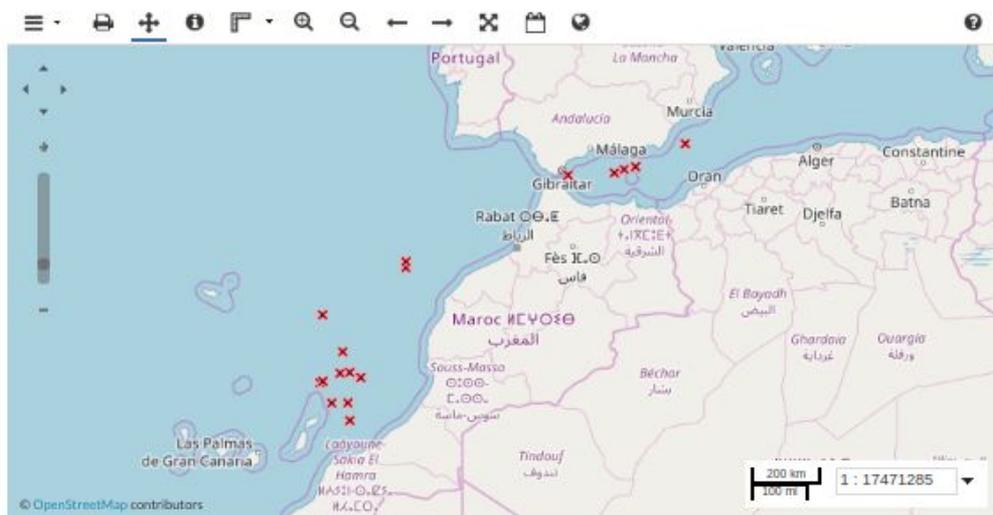
Tiles  
 View in Google Earth  
 KML  
 GeoJSON  
 Excel  
 CSV  
 GML 3.1.1  
 GML 2.0  
 Zipped Shapefile  
 PNG  
 PDF  
 JPEG

### Download Metadata

ISO  
 FGDC  
 ebRIM  
 Dublin Core  
 DIF  
 Atom



## hes20170612xbt-ZEE2017



Info Attributes Share Ratings Comments

**Title** hes20170612xbt-ZEE2017  
**License** Public Domain (PD)   
**Abstract** DOI: 10.20351/29HE20170612 - <http://data.utm.csic.es/set/hes/20170612/open/xbt>  
**Creation Date** June 12, 2017, midnight  
**Type** Vector Data  
**Keywords** xbt  
**Category** Profile   
**Regions** Ocean  
**Owner** HESPERIDES  
**More info** -

[Download Layer](#)

[Download Metadata](#)

**Legend**  
x xbt

**Maps using this layer**  
List of maps using this layer:  
[ZEE2017](#)

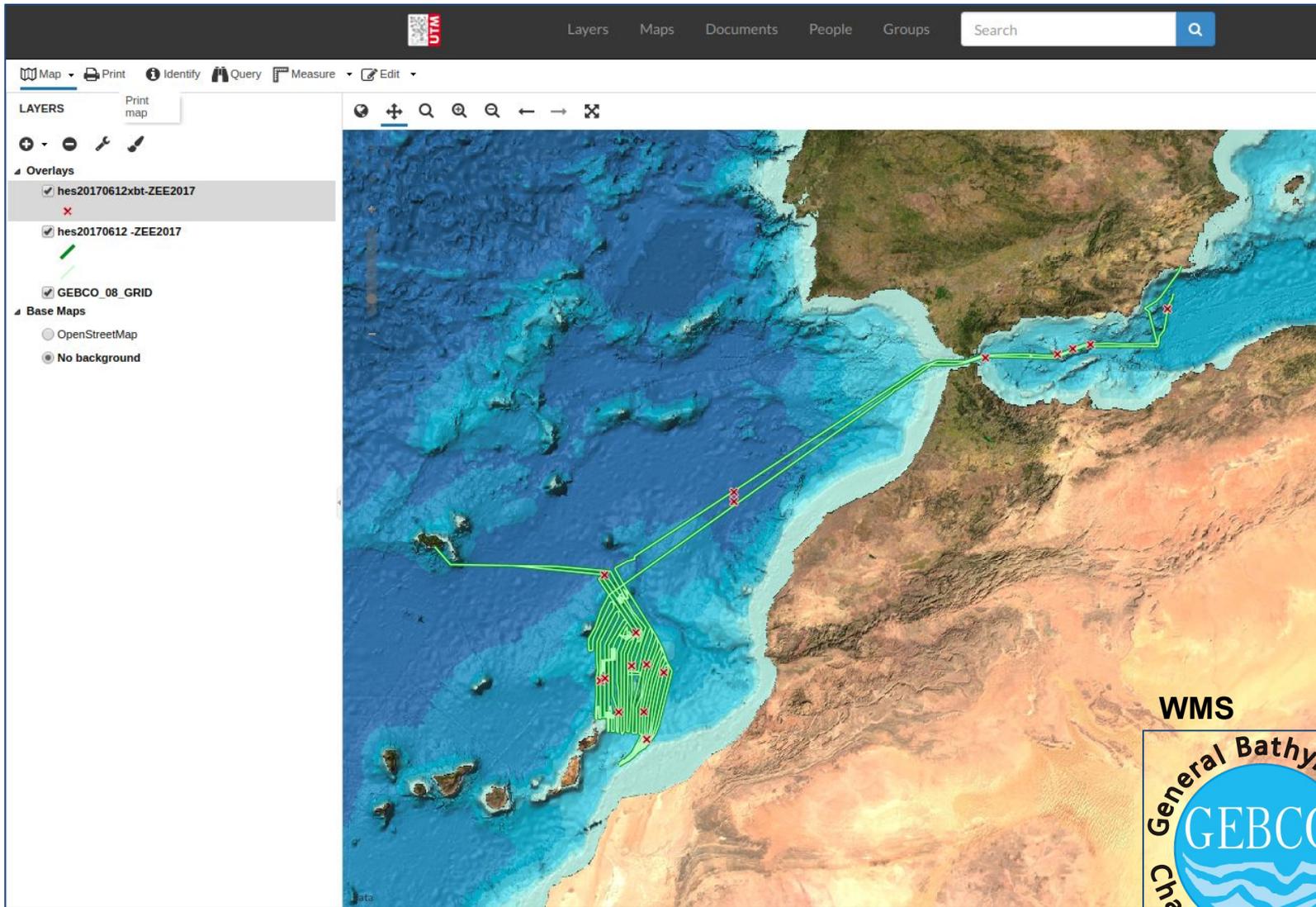
**Create a map using this layer**  
Click the button below to generate a new map based on this layer.

[Create a Map](#)

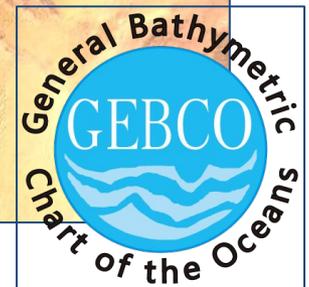
**About**  
Owner  
 HESPERIDES  
UTM. Unidad de Tecnología Marina  
Point of Contact  
 data  
UTM. Unidad de Tecnología Marina  
Metadata Author  
 data  
UTM. Unidad de Tecnología Marina



# III. IDE - GeoPortal de Datos Abiertos



WMS





# III. IDE - Catálogo de Campañas

ZEE-1995

Spanish Exclusive Economic Zone cruise 1995. "Hydrographic-Oceanographic Research Plan of the Exclusive Economic Zone"

About this resource

Categories

Cruise Summary Report [↓ Oceans](#)

**GEMET - INSPIRE themes, version 1.0** • Oceanographic geographical features

**ICES Platform Codes** • BIO Hesperides

**SeaVoX Platform Categories** • research vessel

**SeaVoX salt and fresh water body gazetteer** • Balearic Sea  
• Mediterranean Sea, Western Basin

No ratings ★

[See all feedbacks](#) [Add your review](#)

Spatial extent



Temporal extent

**Creation date**  
1995-07-03

CSR

SeaDataNet Parameter Discovery Vocabulary

- Air pressure
- Air temperature
- Atmospheric humidity
- Solar Radiation
- Wind strength and direction
- Horizontal spatial co-ordinates
- Acoustic backscatter in the water column
- Sound velocity and travel time in the water column
- Bathymetry and Elevation
- Seismic reflection
- Sedimentary structure
- Sediment acoustics
- Gravity
- Magnetics
- Raw temperature and/or salinity instrument output
- Horizontal velocity of the water column (currents)
- Vertical velocity of the water column (currents)

Period

Mon Jul 03 1995 02:00:00 GMT+0200 ▶ Mon Jul 31 1995 02:00:00 GMT+0200

Provided by



Updated:  
15 days ago

Share on social sites



SeaDataNet device categories

- meteorological packages
- Global Navigation Satellite System receivers
- multi-beam echosounders
- single-beam echosounders
- >2000 Hz top-bandwidth sub-bottom penetrator and mud profiler systems
- gravimeters
- magnetometers
- thermosalinographs
- current profilers

Language	• English
Resource identifier	• urn:SDN:CSR:LOCAL:29HE19950703
Resource constraints	Not applicable
Contact for the resource	✉ <b>Hydrographic Institute of the Navy</b> Plaza San Severiano, 3, Cádiz, 11007, Spain • Point of contact : Fernández de Mesa Temborry, José R.
Technical information	
Lineage	The data centres apply standard data quality control procedures on all data that the centres manage. Ask the data centre for details.
Metadata information	
	<a href="#">Download metadata</a>
Contact	✉ <b>UTM-CSIC/Marine Technology Unit</b> Paseo Marítimo de la Barceloneta, 37-49, Barcelona, 08003, Spain • Point of contact : <a href="mailto:info@utm.csic.es">info@utm.csic.es</a>
Metadata language	• English
Identifier	urn:SDN:CSR:LOCAL:29HE19950703



UTM
Search
Map
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## ZEEE2017

Oceanographic Campaign of the Spanish Exclusive Economic Zone 2017 in waters of the Canary Archipelago.

**Download and links**

🔗	<b>DOI: 10.20351/29he20170612</b> <a href="https://search.datacite.org/works/10.20351/29he20170612">https://search.datacite.org/works/10.20351/29he20170612</a>	Open link
	<b>SCIENTIFIC PLAN</b> <a href="http://data.utm.csic.es/set/hes/20170612/plan">http://data.utm.csic.es/set/hes/20170612/plan</a>	Open link
	<b>CRUISE MAP</b> <a href="http://data.utm.csic.es/set/hes/20170612/map/">http://data.utm.csic.es/set/hes/20170612/map/</a>	Open link
	<b>OPEN DATASET</b> <a href="http://data.utm.csic.es/set/hes/20170612/open">http://data.utm.csic.es/set/hes/20170612/open</a>	Open link
	<b>UNDERWAY CHART</b> <a href="http://data.utm.csic.es/set/hes/20170612/chart">http://data.utm.csic.es/set/hes/20170612/chart</a>	Open link
	<b>TECHNICAL REPORT</b> <a href="http://data.utm.csic.es/set/hes/20170612/report">http://data.utm.csic.es/set/hes/20170612/report</a>	Open link

About this resource

Categories

Cruise Summary Report
Oceans

Download
Display mode

Overview



CRUISE TRACK

Spatial extent





# III. IDE - Catálogo de Campañas

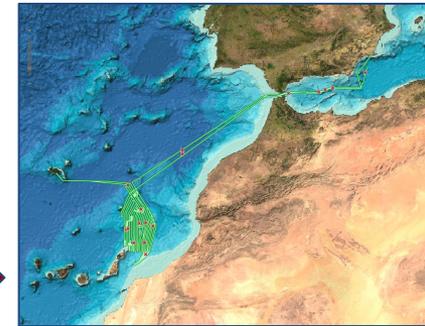


Download and links

- DOI: 10.20351/29he20170612  
<https://search.datacite.org/works/10.20351/29he20170612>
- SCIENTIFIC PLAN  
<http://data.utm.csic.es/set/hes/20170612/plan>
- CRUISE MAP  
<http://data.utm.csic.es/set/hes/20170612/map/>
- OPEN DATASET  
<http://data.utm.csic.es/set/hes/20170612/open>
- UNDERWAY CHART  
<http://data.utm.csic.es/set/hes/20170612/chart>
- TECHNICAL REPORT  
<http://data.utm.csic.es/set/hes/20170612/report>



## UTM-CSIC GEOPORTAL



**Index of /set/hes/20170612/open**

Name	Last modified	Size	Description
<a href="#">Parent Directory</a>			- ZEE2017
<a href="#">underway/</a>	2018-08-02 11:56		- Continuous acquisition dataset
<a href="#">xbt/</a>	2018-08-02 11:56		- Expendable bathythermograph profiles

UTM-CSIC Data Service - [data@utm.csic.es](http://data@utm.csic.es)



# III. IDE - Catálogo de Campañas



DOI: 10.20351/29he20170612

<https://search.datacite.org/works/10.20351/29he20170612>

Open link



DataCite Search

Works People Data Centers Men

10.20351/29he20170408

Search

**RETRO\_BMC Cruise, RV Hespérides**

José Luis Pelegrí & UTM-CSIC

CreativeWork published 2018 via UTM-CSIC

29HE20170408

<https://doi.org/10.20351/29he20170408> Cite

RETRO\_BMC Cruise, RV Hespérides



APA

Harvard

MLA

Vancouver

Chicago

IEEE

BibTeX

RIS

Pelegrí, J. L., & UTM-CSIC. (2018). RETRO\_BMC Cruise, RV Hespérides [Data set]. UTM-CSIC.  
<https://doi.org/10.20351/29he20170408>

Copy to Clipboard

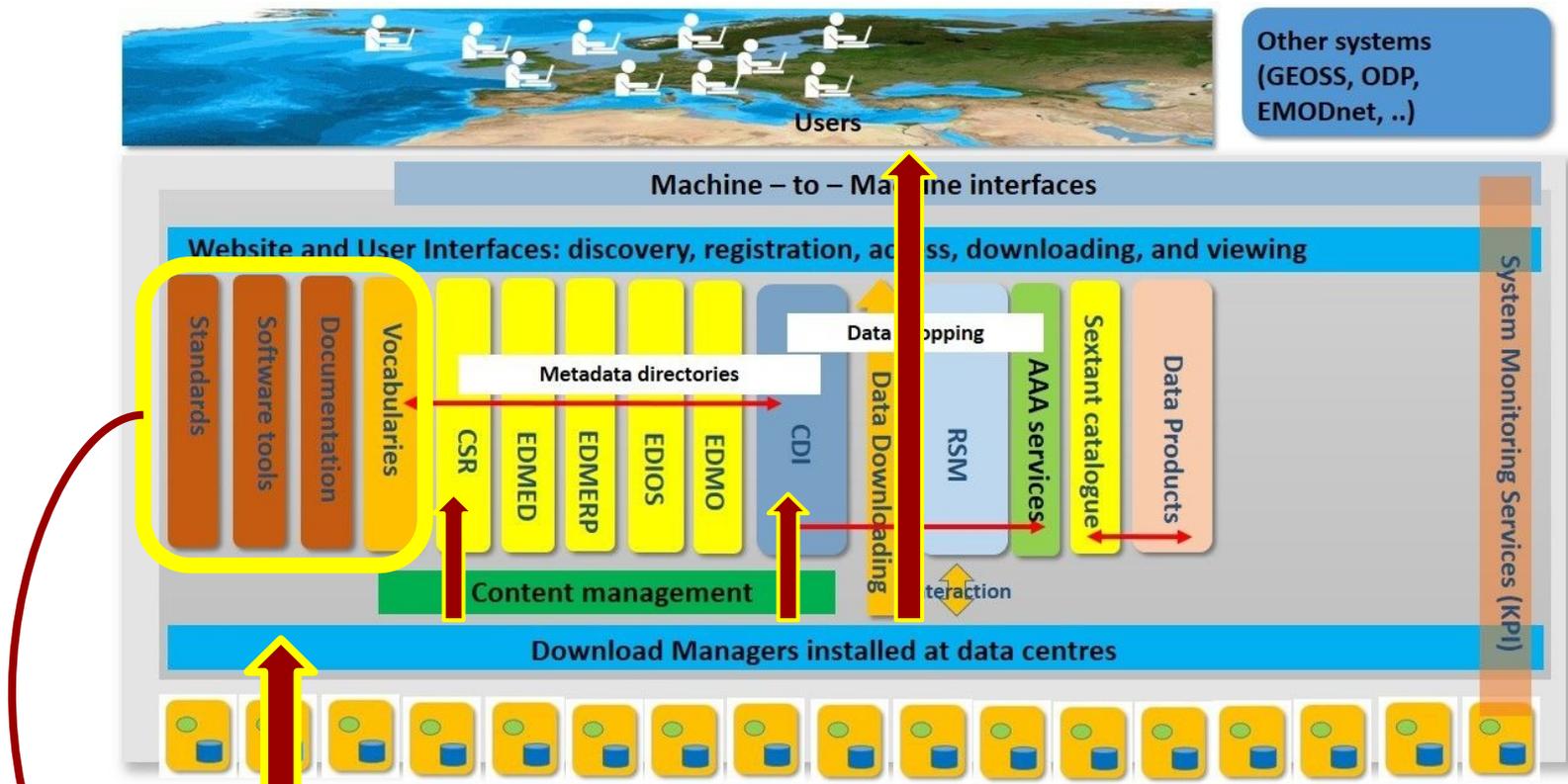




**34 countries**  
**56 partners**  
**110 data centers**  
**650 originators**



# IV. DISEMINACIÓN INTERNACIONAL - IDE Europea Seadatanet



**NODC**

Data collection by in situ sensors and remote sensing



- NODC:** National Oceanographic Data Center
- CSR:** Cruise Summary Report
- CDI:** Common Data Index
- RSM:** Request Service Manager



<http://seadatanet.org>



PAN-EUROPEAN INFRASTRUCTURE FOR  
OCEAN & MARINE DATA MANAGEMENT

PARTNERS USERS

[ABOUT US](#) [METADATA](#) [DATA ACCESS](#) [STANDARDS](#) [SOFTWARE](#) [PRODUCTS](#) [EVENTS](#) [PUBLICATIONS](#)

SERVICES

FEEDBACK

## ACCESS METADATA CATALOGUES

Access or Contribute to the SeaDataNet metadata catalogues of Marine organisations (EDMO), datasets (EDMED), projects (EDMERP), observing systems (EDIOS), Research cruises (CSR) and data description (CDI)



SEARCH DATA



BROWSE DATA



DOWNLOAD SOFTWARE



LOOK-UP  
VOCABULARIES



ACCESS PRODUCTS



ACCESS METADATA  
CATALOGUES



HOW TO CONTRIBUTE?



scroll

## METADATA SERVICES

The SeaDataNet metadata services give overviews of marine organisations in Europe and their engagement in marine research projects, managing large datasets, and data acquisition by research vessels and monitoring programmes for the European seas and global oceans.

**CRUISE SUMMARY REPORTS**  
**CSR**

**MARINE RESEARCH ORGANISATIONS**  
**EDMO**

**COMMON DATA INDEX**  
**CDI**

**PERMANENT OBSERVING SYSTEMS**  
**EDIOS**

**MARINE RESEARCH PROJECTS**  
**EDMERP**

**MARINE DATA SETS**  
**EDMED**

PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

CRUISE SUMMARY REPORT INVENTORY (CSR)

### SEARCH

Free Search

Cruise Date: From 1 Jan 1975 To 1 Jan 2019
 Order by Cruise Date descending Show 10 Records at a Time

**Ship**  
 Select Country: Romania, Russian Federation, Slovenia, Spain  
 Select Ship: EMMA BARDAN (ECJU, 29EB), FRANCISCO DE PAULA NAVARRO (EGES, 29FN), GARCIA DEL CID (EHUU, 29GD), **HESPERIDES (EBBW, 29HE)**

**SeaVoX Area**  
 Adriatic Sea (3\_1\_2\_1), Aegean Sea (3\_1\_2\_4), African freshwater bodies (SVX00001)

**Discipline**  
 Select Data Group: All, Physical Oceanography, Chemical Oceanography, Contamination  
 Select Data Type(s) (Use ctrl to Select Multiple)

**Responsible Laboratory**  
 Select Country: Albania, Algeria, Australia  
 Select Institute

### SET OF RESULTS

New Query | Found 199 | Show (1-50) | Next 50 |

Platform Name	Cruise Name	from	to	Show
BIO Hesperides	RETRO-ERZ2018	26.04.2018	10.05.2018	<a href="#">👁</a>
Hesperides	BRAVOSEIS_GALILEO2018	17.02.2018	05.03.2018	<a href="#">👁</a>
Hesperides	TASMANDRAKE	11.01.2018	14.02.2018	<a href="#">👁</a>
Hesperides	ZEEE2017	12.06.2017	12.07.2017	<a href="#">👁</a>
Hesperides	RETRO_BMC	08.04.2017	28.04.2017	<a href="#">👁</a>
BIO Hesperides	GALILEO-IHM	08.02.2017	13.03.2017	<a href="#">👁</a>
BIO Hesperides	ZEEE2016	27.05.2016	26.06.2016	<a href="#">👁</a>
Hesperides	INCRISIS	23.05.2016	27.05.2016	<a href="#">👁</a>
BIO Hesperides	MIXTO	06.03.2016	19.03.2016	<a href="#">👁</a>
BIO Hesperides	DISTANTCOM	04.02.2016	03.03.2016	<a href="#">👁</a>
BIO Hesperides	GALILEO	03.01.2016	31.01.2016	<a href="#">👁</a>
BIO Hesperides	PHARMADEEP	13.12.2015	30.12.2015	<a href="#">👁</a>
BIO Hesperides	29HE20151204	04.12.2015	10.12.2015	<a href="#">👁</a>
BIO Hesperides	ZEE 2015	01.06.2015	30.06.2015	<a href="#">👁</a>
BIO Hesperides	MAFIA	03.04.2015	29.04.2015	<a href="#">👁</a>

## DETAILS OF HESPERIDES CRUISE RETRO-ERZ2018

[XML V1](#) | [XML V2](#) | [Print](#)

GENERAL INFORMATION

Platform/Ship: Hesperides  
 Cruise begin: 26.04.2018  
 Cruise end: 10.05.2018  
 Port of Departure: Natal, Brazil  
 Port of Return: Fortaleza, Brazil  
 Chief Scientist(s): Pelegri, Josep Lluís - CSIC-ICM/ Institute of Marine Sciences NA - UB/ Universitat de Barcelona / Ecology Department's CSIC-ICM/ Institute of Marine Sciences  
 Responsible Laboratory: CSIC-ICM/ Institute of Marine Sciences

LOCATION

General Ocean Areas: Atlantic Ocean  
 Marsden Squares (S, N, E, W): 303 (-10.0, 0.0, -40.0, -30.0), 4 (0.0, 10.0, -40.0, -30.0), 5 (0.0, 10.0, -50.0, -40.0), 304 (-10.0, 0.0, -50.0, -40.0)

Bounding Box(es): West East South North  
 -43.8338 -34.9358 -5.7746 1.3408

Specific Geographic Areas

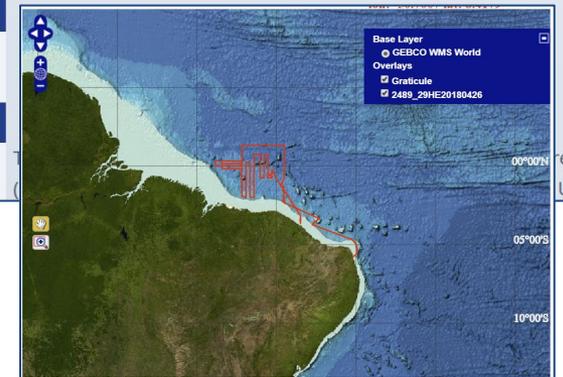
Link to Charts: [» GML track](#)

PROJECT

Project Title / Coordinating Body

OBJECTIVES

Description



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# IV. DISEMINACIÓN INTERNACIONAL - IDE Europea Seadatanet



PAN-EUROPEAN INFRASTRUCTURE FOR  
OCEAN & MARINE DATA MANAGEMENT

**SEADATANET COMMON DATA  
INDEX (CDI) V3**

**TOOLS**

ENLARGE HELP  
POSITION INDEX

Datasets 0  
BASKET RESET

**SEARCH**

Free search

Disciplines - Topics

Discovery parameters

Cruise/Station name

Projectname

Datasetname

Sea regions

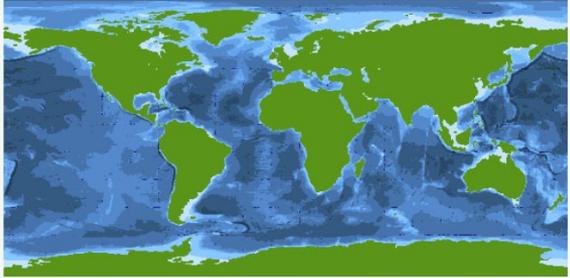
Waterdepth (m) from  to

Originator

CDI partner

Country

Access restriction



**LAYER CONTROL**

- CDI entry Points
- CDI entry Tracks
- CDI entry Areas
- Grid Lines
- Regional sea
- Regional sea labels
- Main sea
- Main sea labels

**LAT/LONG**

Upper-left Lower-right

**TOOLS**



**LAYER CONTROL**

ADD TO BASKET

TIMESERIES ON SUMMARY ZOOM TO SELECTED EXPORT RESULT STORE QUERY

#	Data set name	DC country	Start date	Disciplines - Topics	Instrument / gear type	Show
1	COSTEM-2_MB	Spain	20100917	Marine geology > Gravity, magnetics and bathymetry Terrestrial	multi-beam echosounders	
2	COSTEM-1_MB	Sp				
3	INDEMARES_MB	Sp				
4	CASCADES-2_MB	Sp				
5	CASCADES-1_MB	Sp				
6	SEDMET-1_MB	Sp				
7	GEOMARGEN-2_MB	Sp				

**DETAILS**

**WHAT?**

Data set name: SWIM2006  
Discipline: Marine geology  
Terrestrial

**Parameter groups**

Gravity, magnetics and bathymetry  
Terrestrial

**Discovery parameters**

Bathymetry and Elevation

**GEMET-INSPIRE themes**

Oceanographic geographical features

**Abstract**

Multibeam data acquired on board the R/V Hespérides with a Simrad EM12 echo-sounder

**Data format**

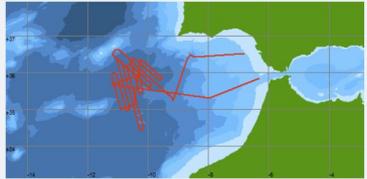
Climate and Forecast NetCDF Version 3.5

**Data set creation date**

20170928

**WHERE?**

Map



**GML id**

mc01

**GML objects**

Name	Description
2006	curve#1

**Datum**

World Geodetic System 84

**Measuring area type**

curve

**Water depth (m)**

-9999

**Depth reference**

sea level

**Minimum instrument depth (m)**

220.22

**Maximum instrument depth (m)**

63490.12

**Sea regions**

Northeast Atlantic Ocean (40W)

**WHEN?**

**Start date**

20060531

**Start time**

11:00:05

**End date**

20060612

**End time**

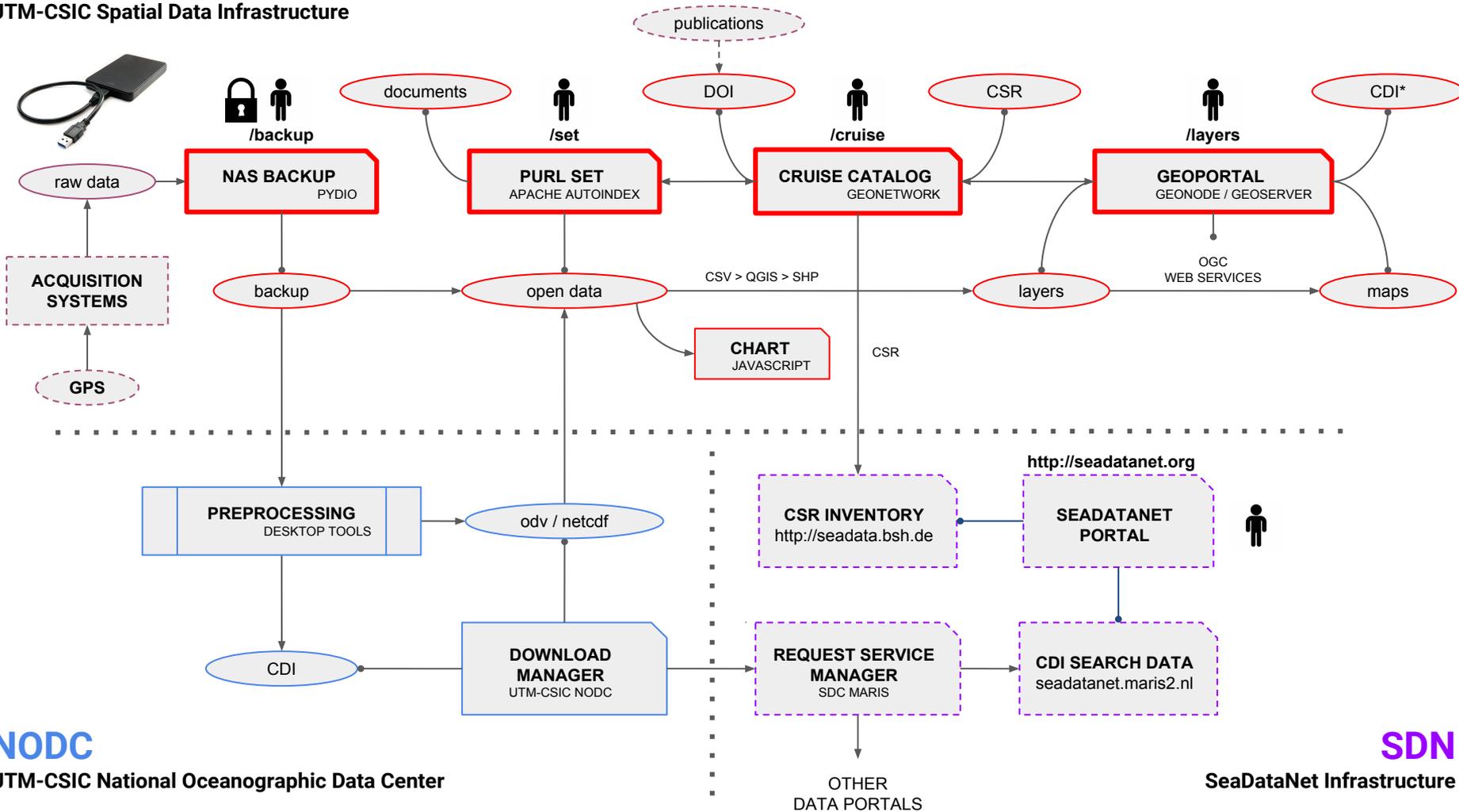
23:15:13



# V. CONCLUSIÓN - El camino de los datos oceanográficos

## IDE

### UTM-CSIC Spatial Data Infrastructure



## NODC

### UTM-CSIC National Oceanographic Data Center

## SDN

### SeaDataNet Infrastructure



### **CONSOLIDAR LA IDE:**

- Incorporando todos los datos históricos disponibles.
- Integrando en el sistema los datos del B/O García del Cid, B/O Mytilus y otros buques o plataformas oceanográficas móviles.
- Aportando continuamente metadatos y datos de nuevas campañas.
- Añadiendo en el GeoPortal los datos que pasen a ser legalmente públicos.
- Facilitando la inclusión de datos puros o productos que los investigadores quieran aportar de forma voluntaria.

# Gracias por su atención

**Juan Luis Ruiz / Susana Diez**

Servicio de Datos

Unidad de Tecnología Marina (UTM-CSIC)

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