

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

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

III. INFRAESTRUCTURA DE DATOS ESPACIALES

- Geoportal de Datos Abiertos
- Catálogo de Campañas

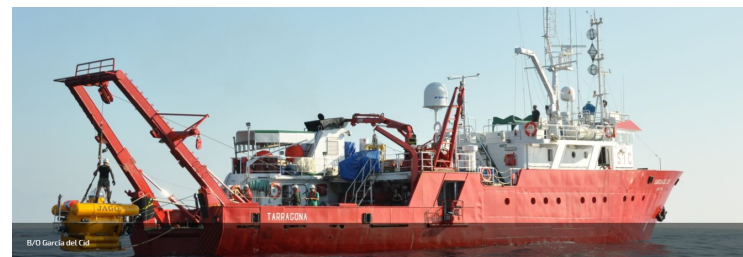
IV. DISEMINACIÓN INTERNACIONAL

- IDE Europea Seadatanet

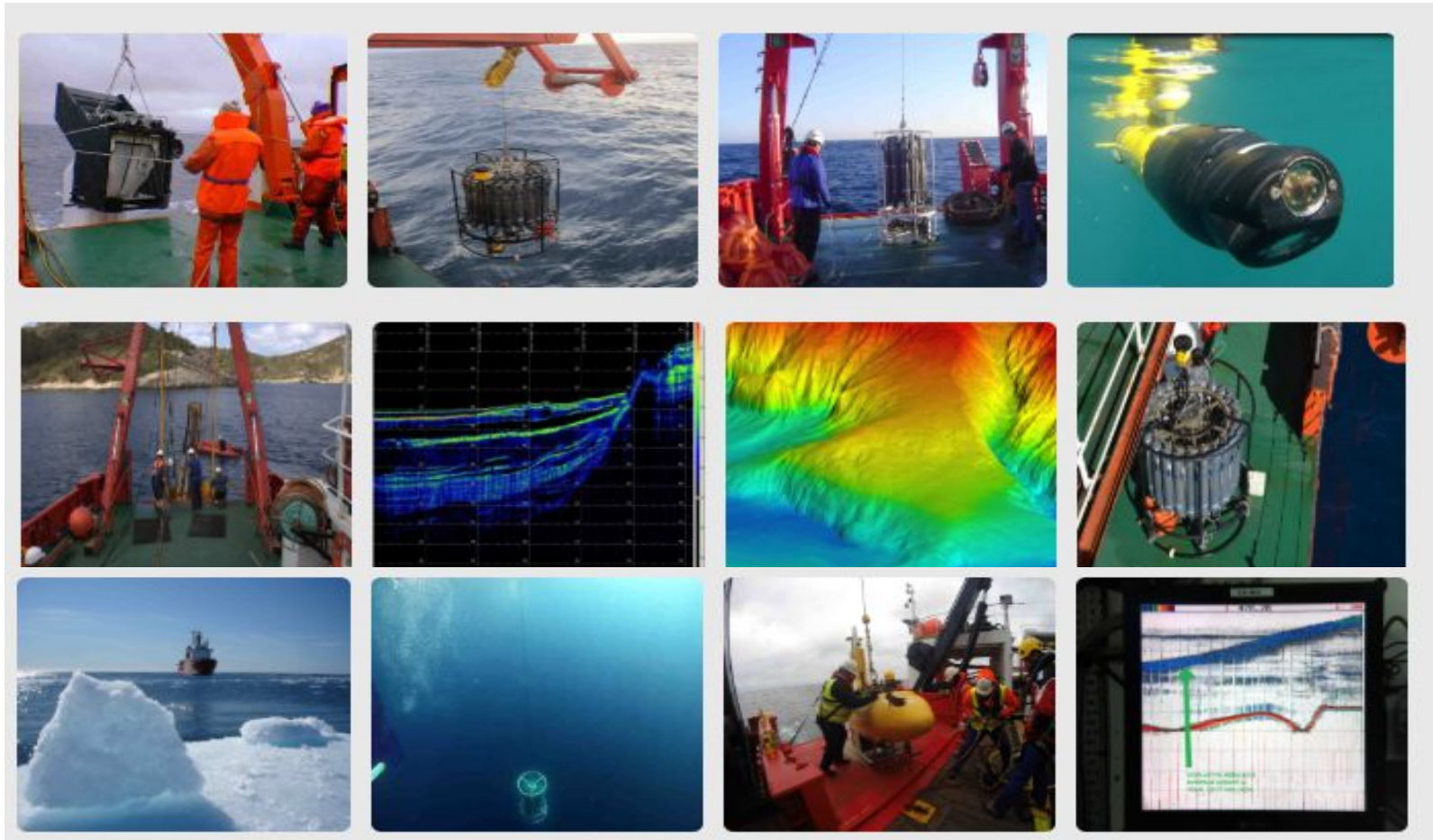
V. CONCLUSIÓN

- El camino de los datos oceanográficos
- Perspectivas de futuro

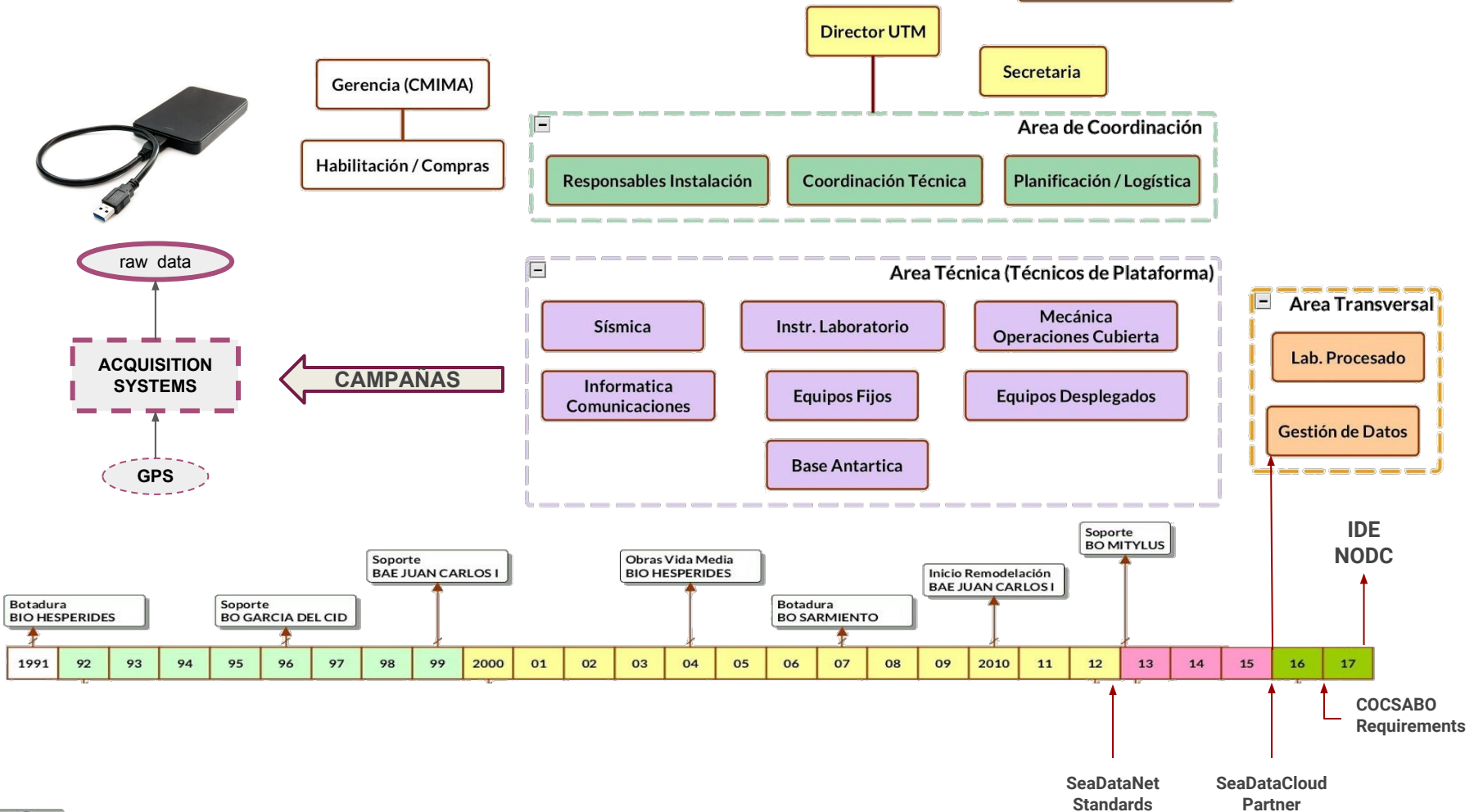
I. INTRODUCCIÓN - Contexto y misión de la UTM



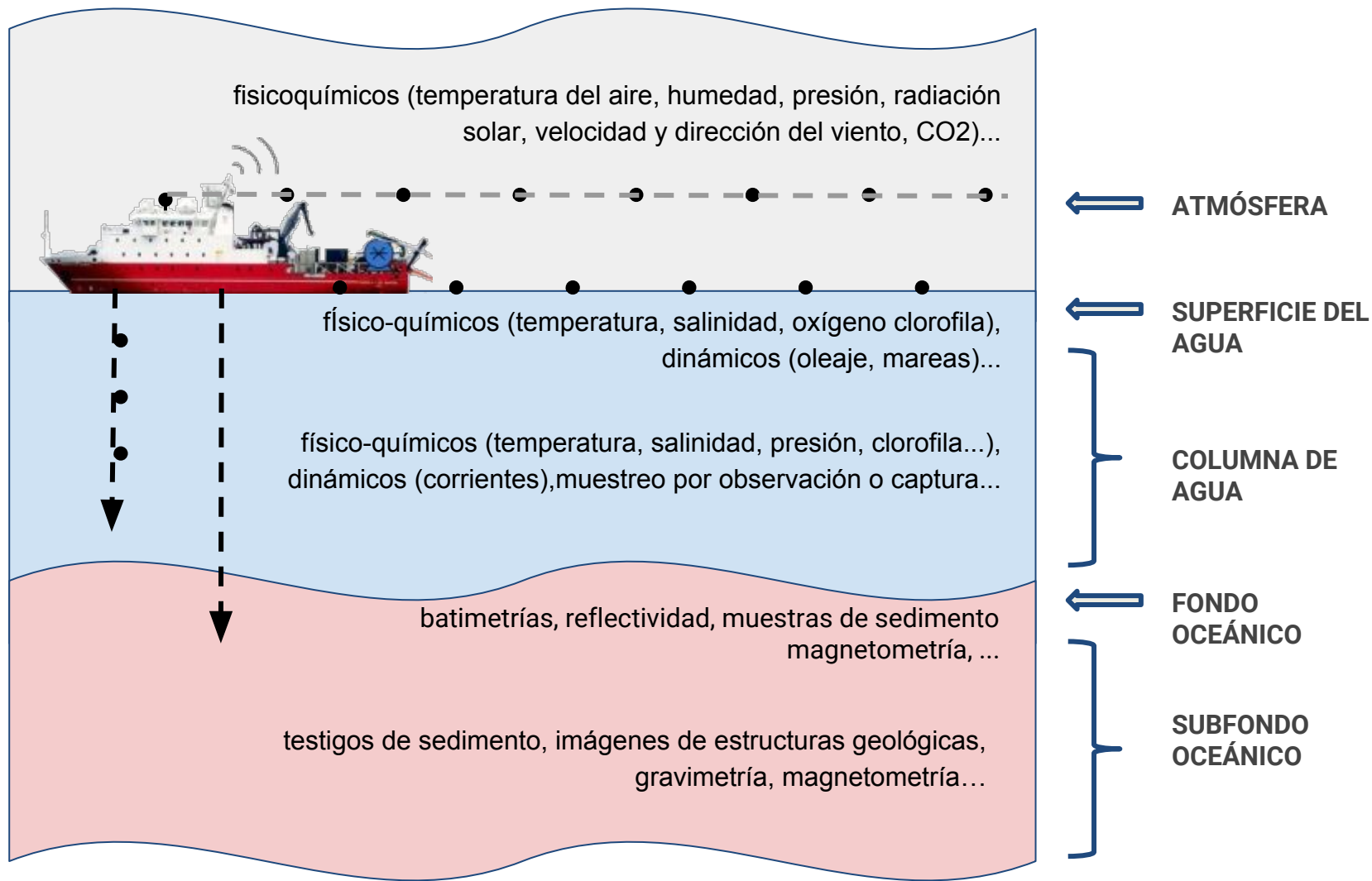
I. INTRODUCCIÓN - Contexto y misión de la UTM



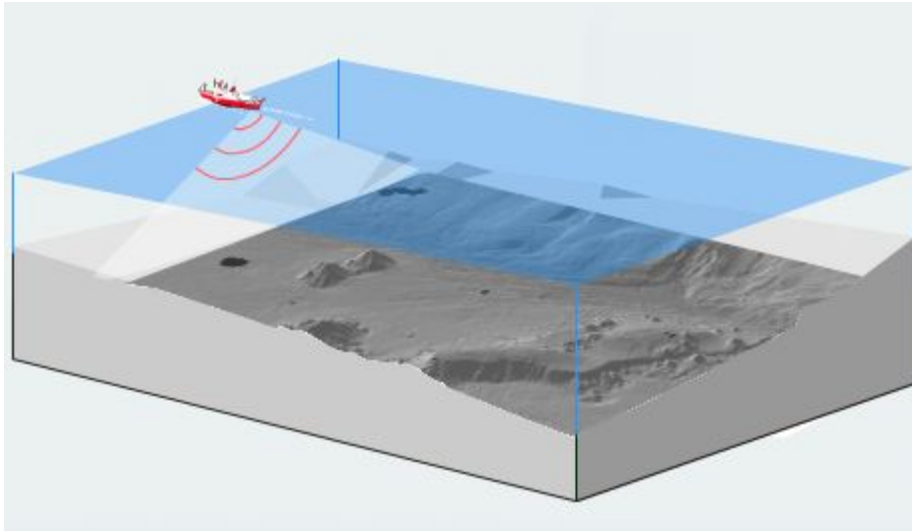
I. INTRODUCCIÓN - Contexto y misión de la UTM



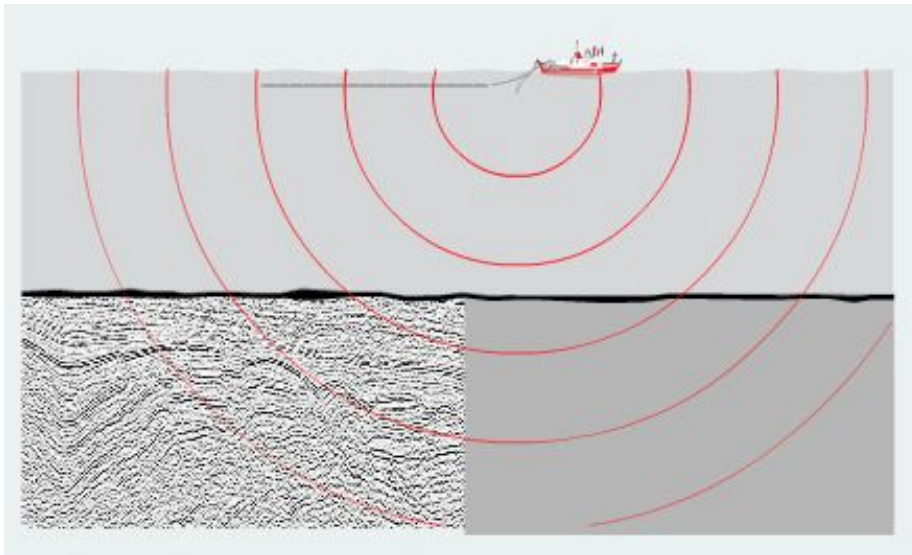
I. INTRODUCCIÓN - Tipología de los datos oceanográficos



I. INTRODUCCIÓN - Tipología de los datos de adquisición



**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**

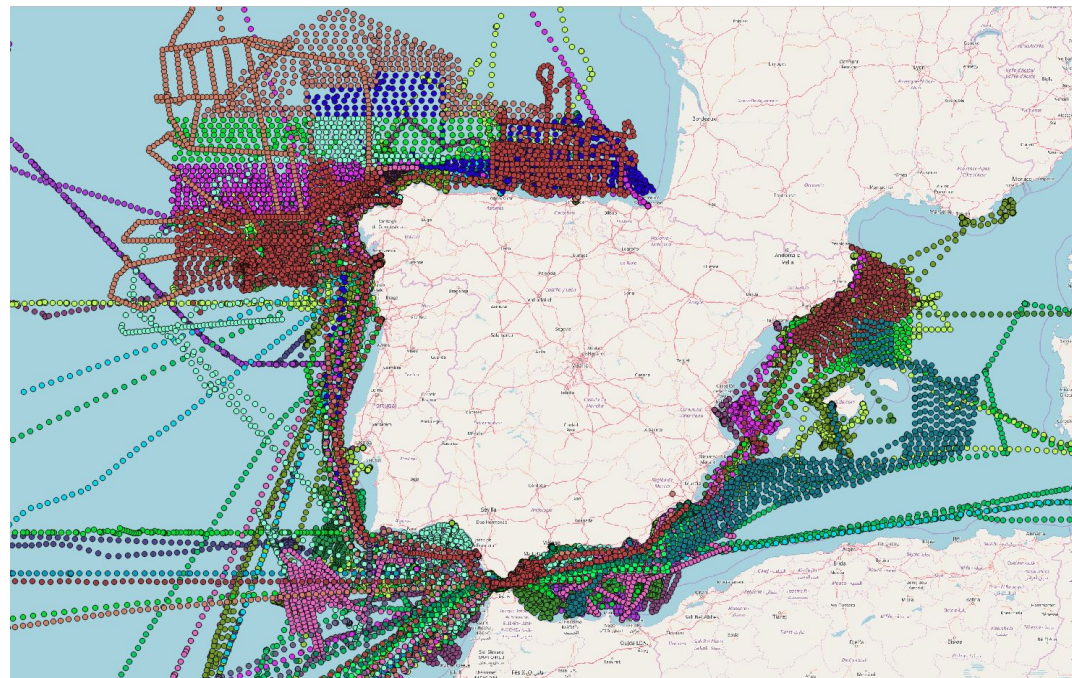
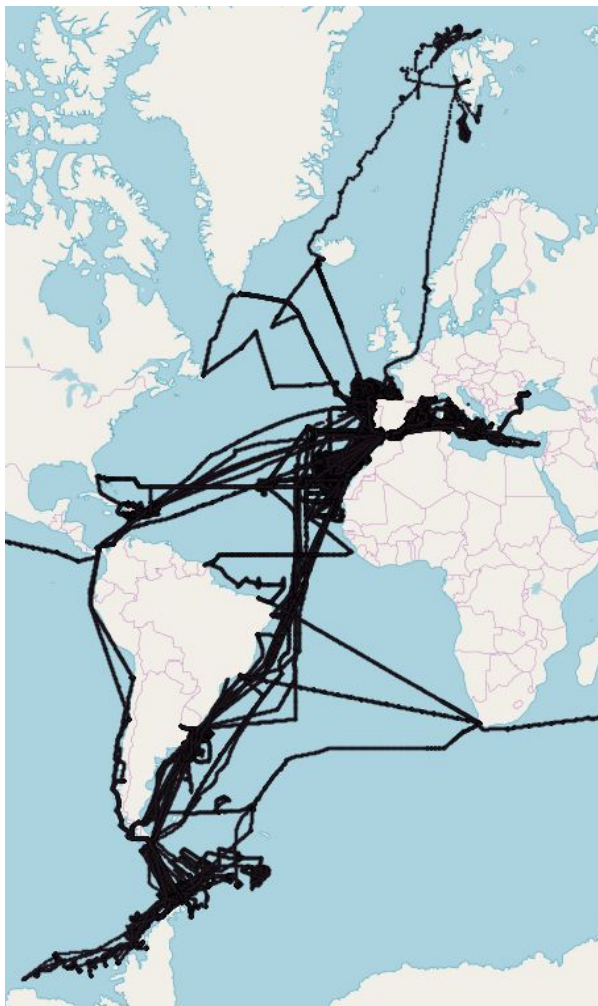
EL EQUIPO CIENTÍFICO TIENE LA OBLIGACIÓN DE FACILITAR:

- 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



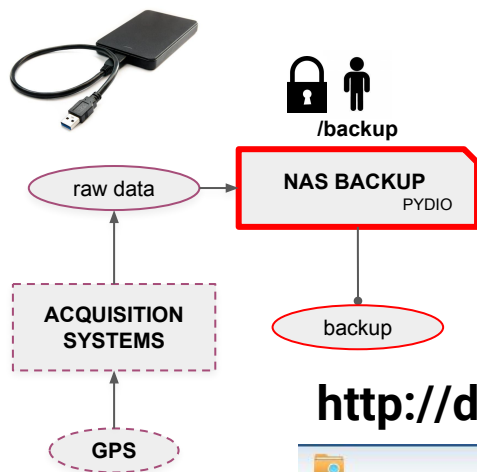
B/O SARMIENTO DE GAMBOA - 2008



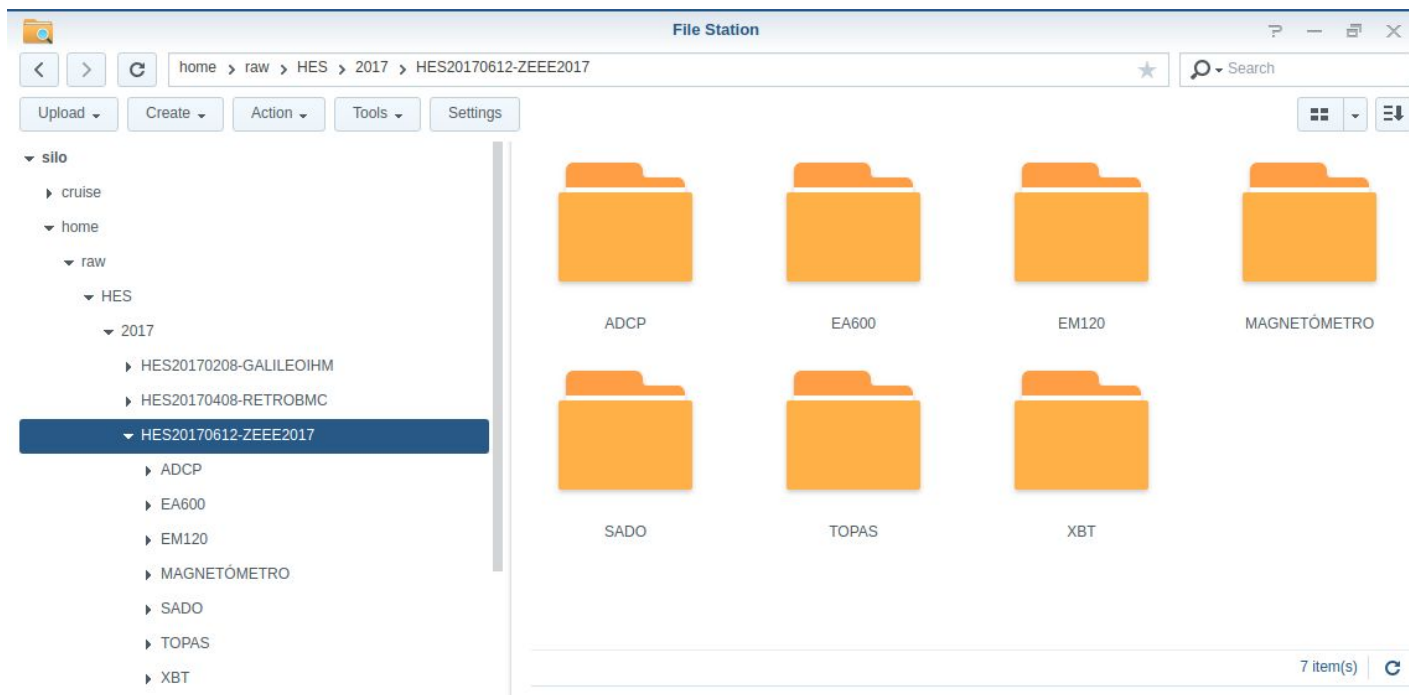
1991 - 2018
240 cruises
~ 30 TB

PHYSICS
BATHYMETRY
GEOLOGY
CHEMISTRY
BIOLOGY

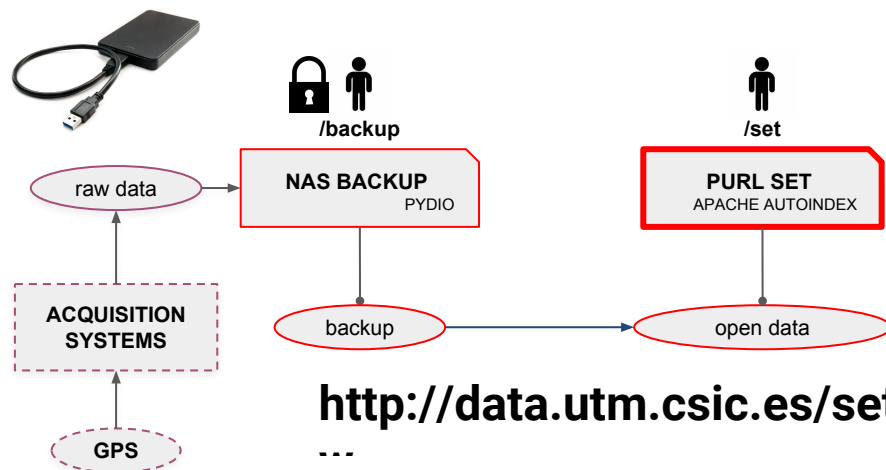
II. SERVICIOS BÁSICOS - Custodia y entrega de datos puros



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



II. SERVICIOS BÁSICOS - Custodia y entrega de datos puros

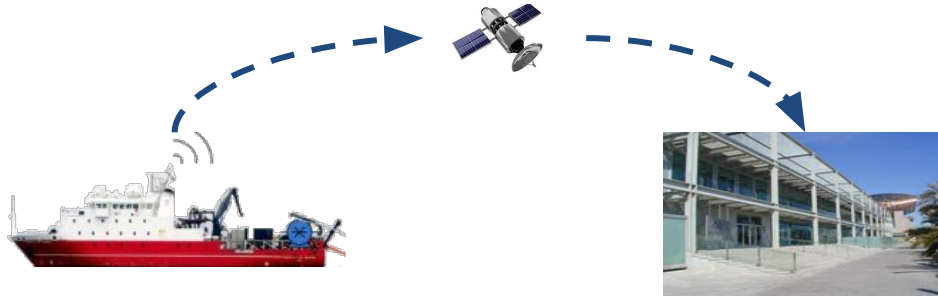


<http://data.utm.csic.es/set/hes/20170612/open/underway/ra>

Name	Last modified	Size	Description
 Parent Directory		-	ZEE2017
 29HE20170612_gravimetro.raw	2018-09-12 14:02	3.6M	ASCII-CSV Non-standar without QC
 29HE20170612_meteo.raw	2018-09-12 14:02	518K	ASCII-CSV Non-standar without QC
 29HE20170612_termosal.raw	2018-09-12 14:02	3.6M	ASCII-CSV Non-standar without QC

UTM-CSIC Data Service - data@utm.csic.es

II. SERVICIOS BÁSICOS - Custodia y entrega de datos puros



REAL TIME PANEL

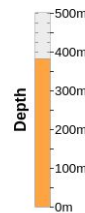
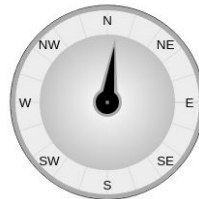
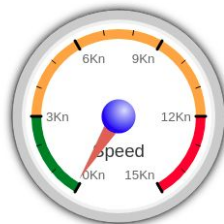
Monitorización remota en tiempo real de parámetros de adquisición automática y continua

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

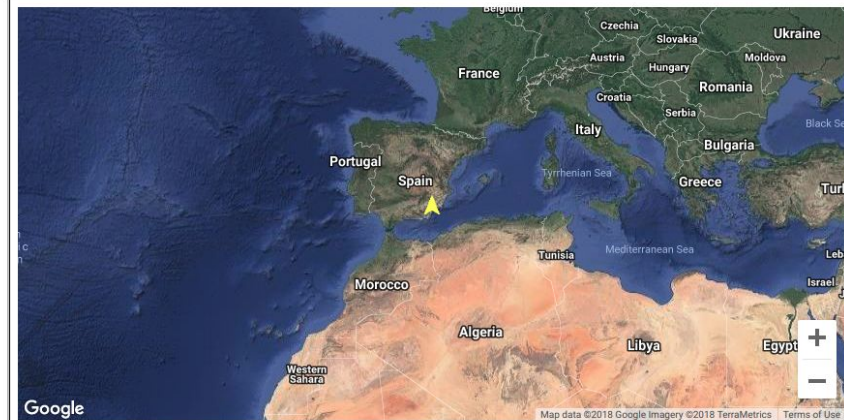
R/V SARMIENTO DE GAMBOA



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/m²
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
σ_T: 25.00 kg/m³

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)

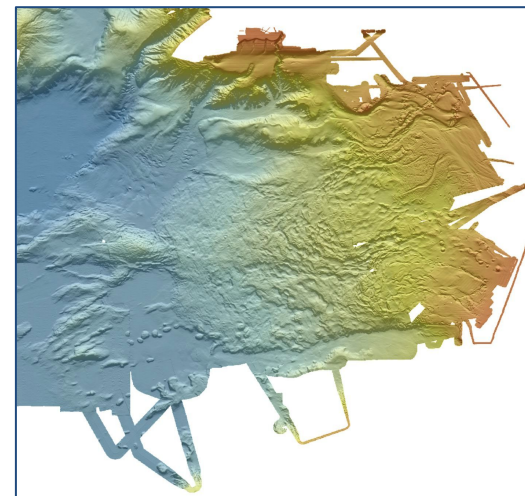
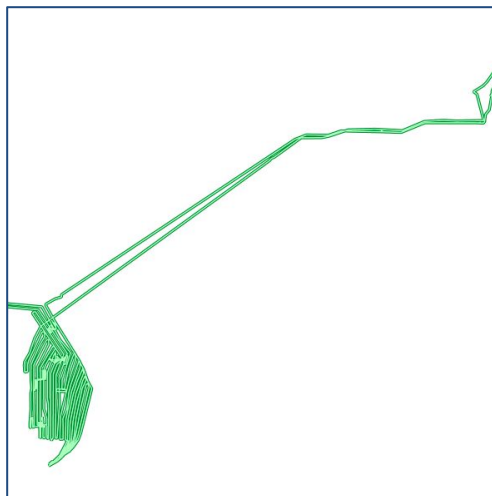
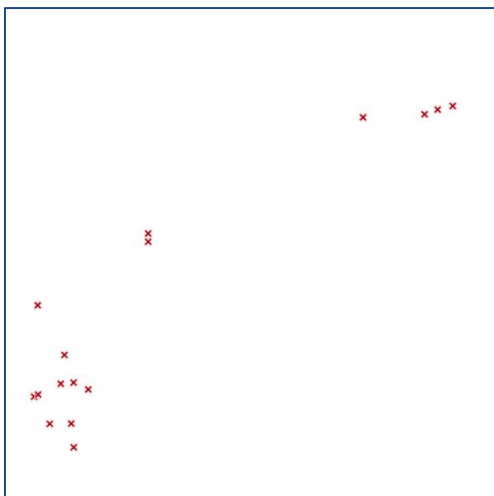
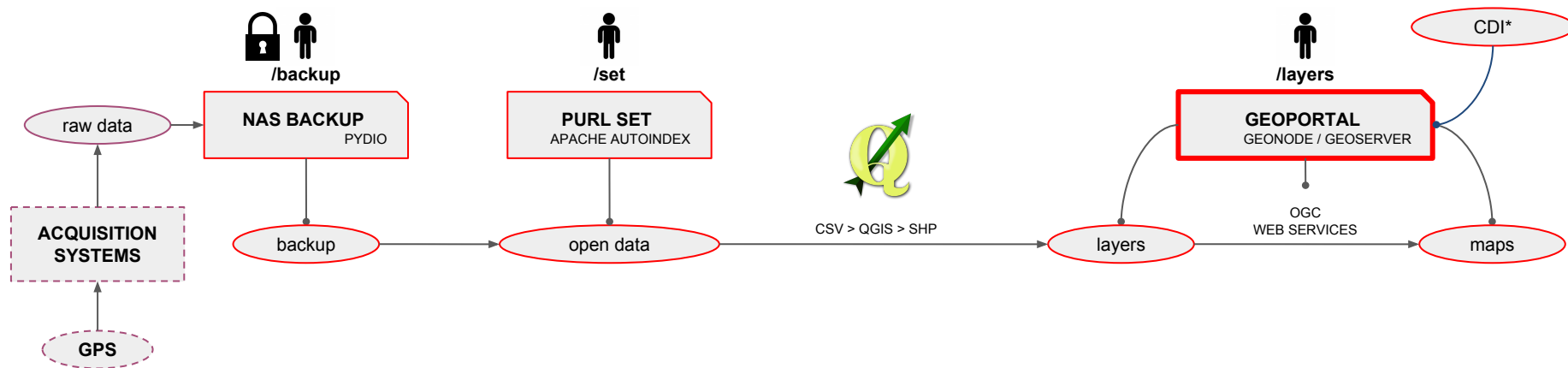
init_day	end_day	sample_name	template	info	delete	add row
03-abr-2010 7:52:46	03-abr-2010 8:52:46	NUMBER_1	ctd	info	delete	add row
04-abr-2010 7:53:50	06-abr-2010 8:53:50	NUMBER_2	ctd	info	delete	add row
11-abr-2010 7:53:53	12-abr-2010 8:53:53	LINE_1	ek60	info	delete	add row
15-abr-2010 7:53:54	16-abr-2010 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>

Layers

Maps

Documents

People

Groups

Search

data

Explore Layers

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Add resources through the "Add to cart" buttons.

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Clear

TEXT

TYPE

CATEGORIES

KEYWORDS

OWNERS

DATE

REGIONS

EXTENT

gps

47

meteorological packages

47

thermosalinographs

47

xbt

1

HESPERIDES

20

SARMIENTO

27

data

122

Lisbon

Sancti Spiritus

Fes

Casablanca

Total: 6

1 2

PROFILE

hes20170612xht-ZEE2017

DOI: 10.20351/29HE20170612 -

http://data.utm.csic.es/set/hes/20170612/open/xht

HESPERIDES

12 Jun 2017

5

0

0

Create a Map

UNDERWAY

hes20170612-ZEE2017

DOI: 10.20351/29HE20170612

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

HESPERIDES

12 Feb 2017

59

0

0

Create a Map

UNDERWAY

hes20160523- INCRISIS

http://data.utm.csic.es/set/hes/20160523/open/underway

HESPERIDES

23 May 2016

11

0

0

Create a Map

UNDERWAY

hes20150601- ZEE 2015

DOI:10.20351/29HE20150601

http://data.utm.csic.es/set/hes/20150601/open/underway

HESPERIDES

1 Jun 2015

9

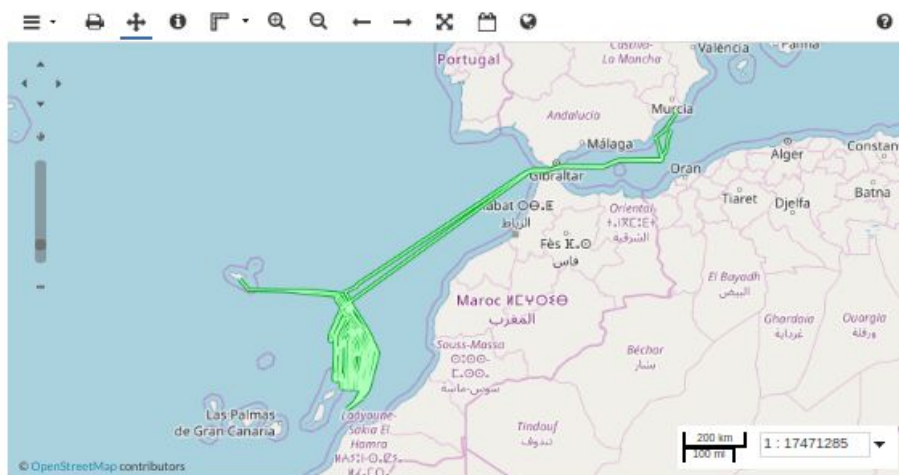
0

0

Create a Map

III. IDE - GeoPortal de Datos Abiertos

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). ZEE2017 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](#)

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Owner



HESPERIDES
UTM. Unidad de Tecnología Marina

Point of Contact



UTM. Unidad de Tecnología Marina

Metadata Author



UTM. Unidad de Tecnología Marina

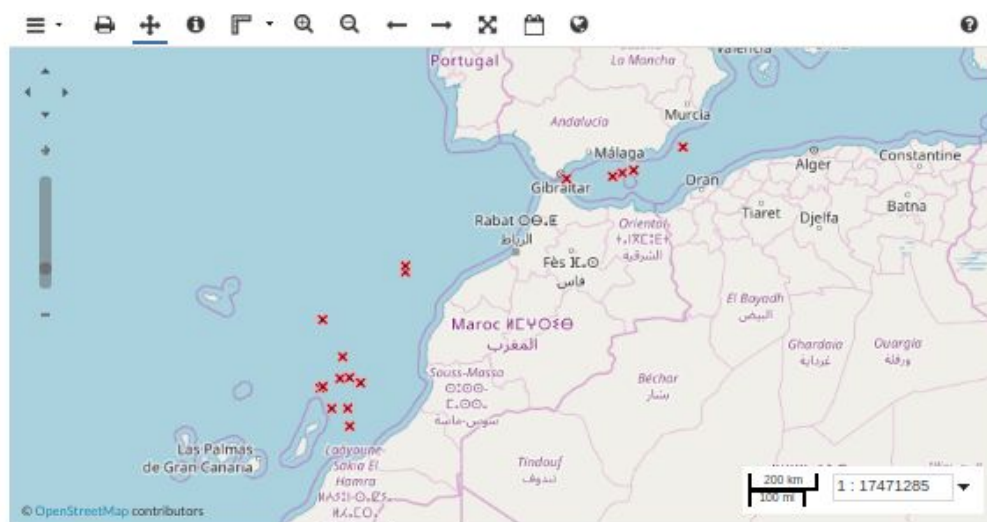
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[CSV](#)
[GML 3.1.1](#)
[GML 2.0](#)
[Zipped Shapefile](#)
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[ISO](#)
[FGDC](#)
[ebRIM](#)
[Dublin Core](#)
[DIF](#)
[Atom](#)

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

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data

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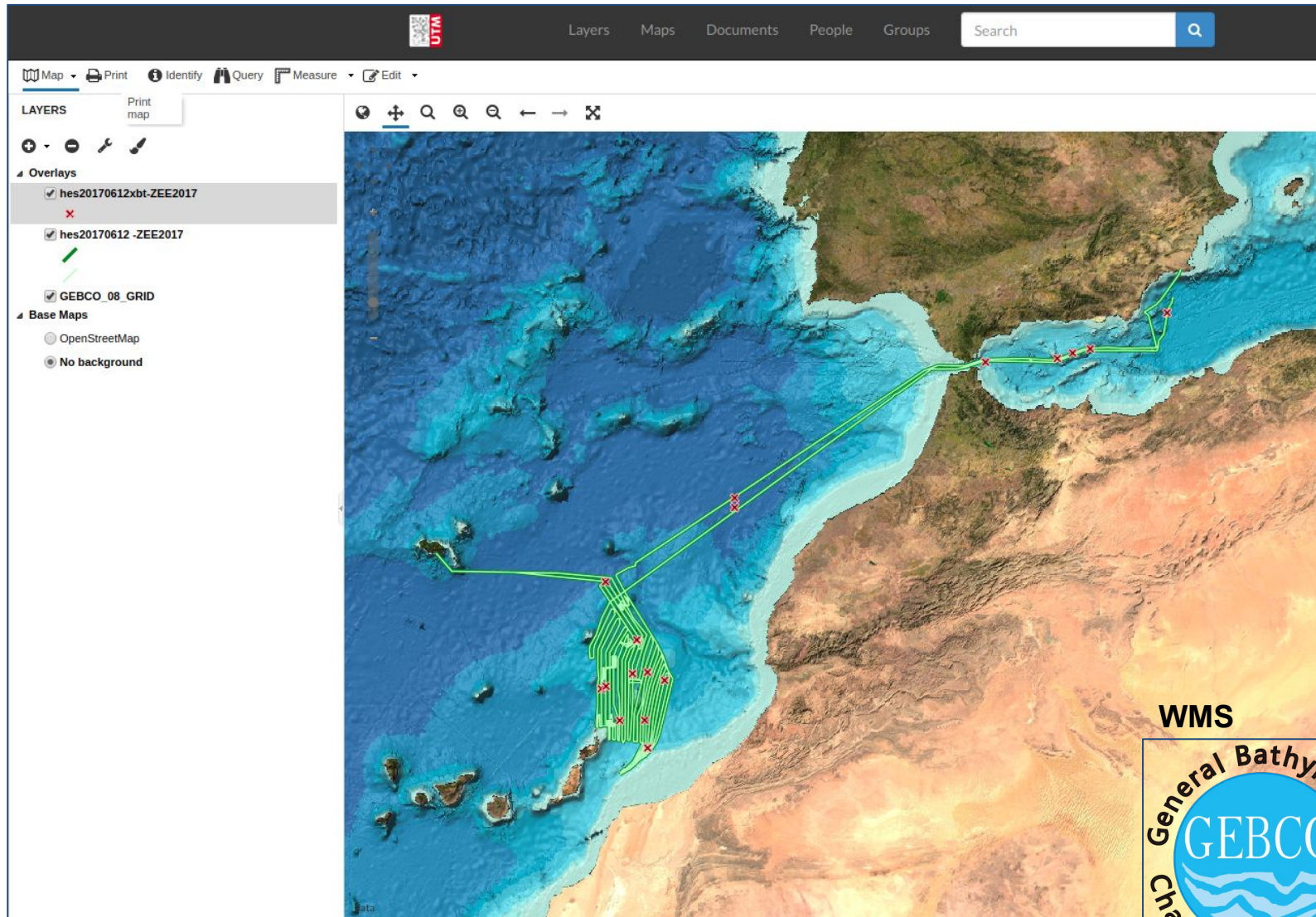
Metadata Author



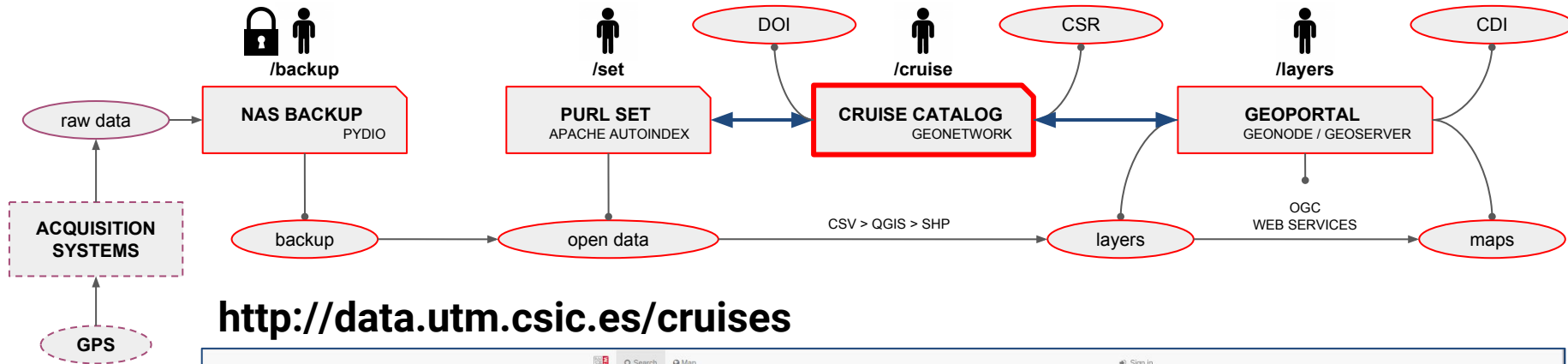
data

UTM. Unidad de Tecnología Marina

III. IDE - GeoPortal de Datos Abiertos



III. IDE - Catálogo de Campañas



The screenshot shows the IDE campaign catalog website. The search results page displays a list of campaigns, each with a title, description, and a map. The campaigns listed include:

- RETRO-BMC**: The RETRO-BMC aimed at studying the variability of the Malvinas-Brazil Confluence region at the mesoscale and submesoscale, including thermohaline intrusions and the river plume. A secondary objective was to gather combined current/hydrography data in the Beagle Channel. (Jose Luis Pellegri)
- ZEEE2017**: Oceanographic Campaign of the Spanish Exclusive Economic Zone 2017 in waters of the Canary Archipelago. (Juan Conforito)
- GALILEO-IHM**: This project has two main objectives: 1. Trials of signals and positioning of the European GNSS Galileo for the CS and PMS services. 2. Various bathymetric surveys for nautical charting purposes. This data will be available for the official Spanish Hydrographic Office nautical chart portfolio. (CONFORITO, JUAN)
- FLUXES-I**: Main goal: to quantify the lateral fluxes of organic matter through a sampling box of stations to estimate the role of POCs and DOC as sources and sinks of carbon in the region of study, compared to primary production, and the gravitational and active fluxes. Duration: 31 days (including navigation to/from Las Palmas) Activities: 38 stations, separated each other. (Javier Arístegui)
- ABIDES-ROV**: The ABIDES (Assessment of Bottom-trawling Impacts in Deep-sea Sediments) project focuses on the study of contemporary sedimentary processes associated to the impact of bottom trawling activities on the deep seafloor. The disturbance of deep-sea environments caused by this fishing practice is considered to be notably higher than all other anthropogenic pressure. (Pereb Puga)
- FLUXES-II**: The main goal of FLUXES is to quantify the relevance of labile and semi-labile dissolved (DOC) and suspended (POCs) organic carbon (i.e., non-sinking organic carbon) in the context of the biological pump (BP), in Eastern Boundary Upwelling Ecosystems (EBUE). The Cape Blanc region (NW Africa), characterized by a rich mesoscale variability resulting. (Javier Arístegui)
- DREAMER-I**: The European hake, *Merluccius merluccius* L., is one of the most important economical fisheries in the North-East Atlantic that also plays a key role in the marine ecosystem. After the implementation by the EU of various recovery plans for both stocks, the spawning biomass has recently recuperated, after more than two decades under the security limits. However, (Francisco Saborido Rey)
- DREAMER-II**: The European hake, *Merluccius merluccius* L., is one of the most important economical fisheries in the North-East Atlantic that also plays a key role in the marine ecosystem. After the implementation by the EU of various recovery plans for both stocks, the spawning biomass has recently recuperated, after more than two decades under the security limits. However, (Paula Alvarez)
- FAUCES1**: The Faucens1 cruise is an activity carried out within the framework of the Spanish project entitled "Faucens" (CTM2015-65461-C2-4). The project addresses the study of marine geological hazards, with special emphasis on sedimentary instabilities associated with three submarine canyons located on the Mediterranean continental margins of southern Iberia. (David Casas, Belen Alonso)
- NSM-III-2017**
- PES-I**
- WINFISH2**

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 ★

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Spatial extent



Temporal extent

Creation date

1995-07-03

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)

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

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

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III. IDE - Catálogo de Campañas

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	✉ Hydrographic Institute of the Navy Plaza San Severiano, 3, Cádiz, 11007, Spain Point of contact : Fernández de Mesa Temboury, 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	
📄 Download metadata	
Contact	✉ UTM-CSIC/Marine Technology Unit Paseo Marítimo de la Barceloneta, 37-49, Barcelona, 08003, Spain Point of contact : info@utm.csic.es
Metadata language	• English
Identifier	urn:SDN:CSR:LOCAL:29HE19950703

Search

ZEEE2017

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

Download and links

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

About this resource

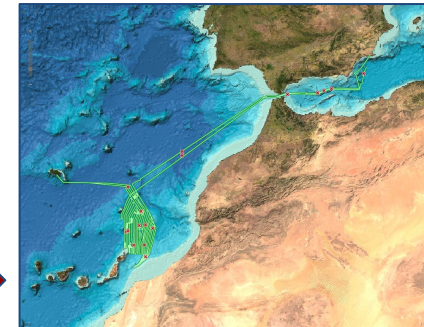
Categories

Overview

 CRUISE TRACK

Spatial extent

UTM-CSIC GEOPORTAL



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>

Index of /set/hes/20170612/open

Name	Last modified	Size	Description
Parent Directory		-	ZEE2017
underway/	2018-08-02 11:56	-	Continuous acquisition dataset
xbt/	2018-08-02 11:56	-	Expendable bathythermograph profiles

UTM-CSIC Data Service - 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>

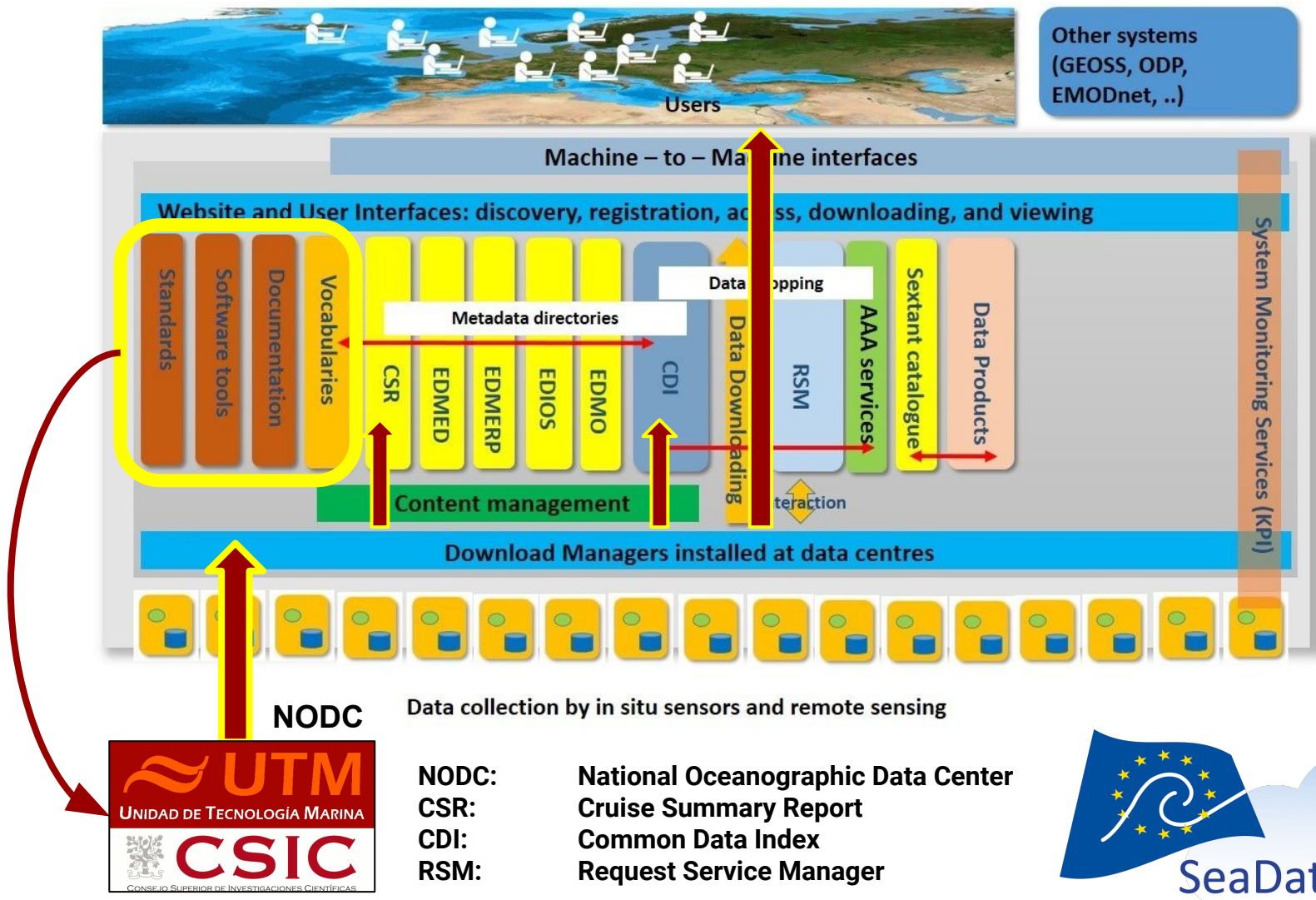
Copy to Clipboard

IV. DISEMINACIÓN INTERNACIONAL - IDE Europea Seadatanet



34 countries
56 partners
110 data centers
650 originators





IV. DISEMINACIÓN INTERNACIONAL - IDE Europea

Seadatanet

<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



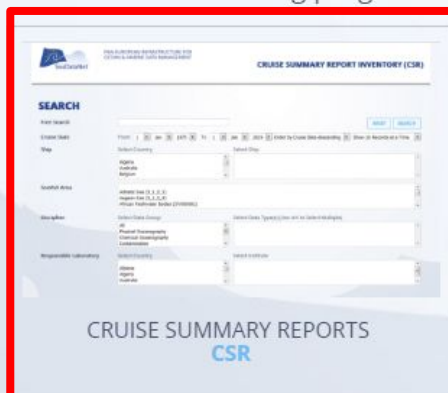
HOW TO CONTRIBUTE?

○ ○ ○ ○ ○ ● ○

↑ 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
EDMRP



MARINE DATA SETS
EDMED

IV. DISEMINACIÓN INTERNACIONAL - IDE Europea

Seadatanet



PAN-EUROPEAN INFRASTRUCTURE FOR
OCEAN & MARINE DATA MANAGEMENT

CRUISE SUMMARY REPORT INVENTORY (CSR)

SEARCH

Free Search

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

Ship Select Country Select Ship

SeaVoX Area

Discipline Select Data Group Select Data Type(s) (Use ctrl to Select Multiple)

Responsible Laboratory Select Country 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	Show
Hesperides	BRAVOSEIS_GALILEO2018	17.02.2018	05.03.2018	Show
Hesperides	TASMANDRAKE	11.01.2018	14.02.2018	Show
Hesperides	ZEEE2017	12.06.2017	12.07.2017	Show
Hesperides	RETRO_BMC	08.04.2017	28.04.2017	Show
BIO Hesperides	GALILEO-IHM	08.02.2017	13.03.2017	Show
BIO Hesperides	ZEEE2016	27.05.2016	26.06.2016	Show
Hesperides	INCRISIS	23.05.2016	27.05.2016	Show
BIO Hesperides	MIXTO	06.03.2016	19.03.2016	Show
BIO Hesperides	DISTANTCOM	04.02.2016	03.03.2016	Show
BIO Hesperides	GALILEO	03.01.2016	31.01.2016	Show
BIO Hesperides	PHARMADEEP	13.12.2015	30.12.2015	Show
BIO Hesperides	29HE20151204	04.12.2015	10.12.2015	Show
BIO Hesperides	ZEE 2015	01.06.2015	30.06.2015	Show
BIO Hesperides	MAFIA	03.04.2015	29.04.2015	Show

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
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

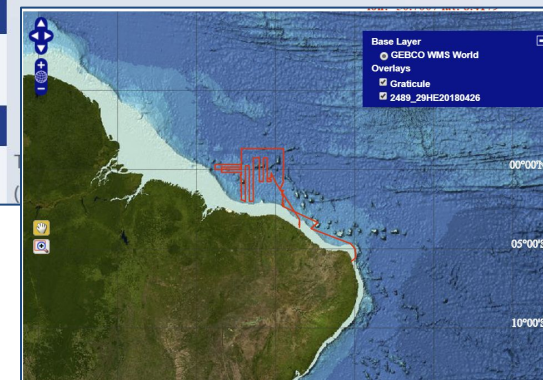
[Link to Charts](#)

PROJECT

Project Title /
Coordinating Body

OBJECTIVES

Description



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 EDMRP	 MARINE DATA SETS EDMED

Seadatanet

PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

SEADATANET COMMON DATA INDEX (CDI) V3

TOOLS

ENLARGE HELP POSITION INDEX

Datasets 0 BASKET RESET

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

SEARCH

Free search

Disciplines - Topics

Discovery parameters

Cruise/Station name

Projectname

Datasetname

Sea regions

Waterdepth (m) from

Originator

CDI partner

Country

Access restriction

TOOLS

ENLARGE HELP POSITION INDEX

Datasets 0 BASKET RESET

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

ADD TO BASKET

DETAILS

WHAT?

Data set name: SWIM2006

Discipline: Marine geology

Parameter groups: Gravity, magnetics and bathymetry

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

WHEN?

Start date: 20060531

Start time: 11:00:05

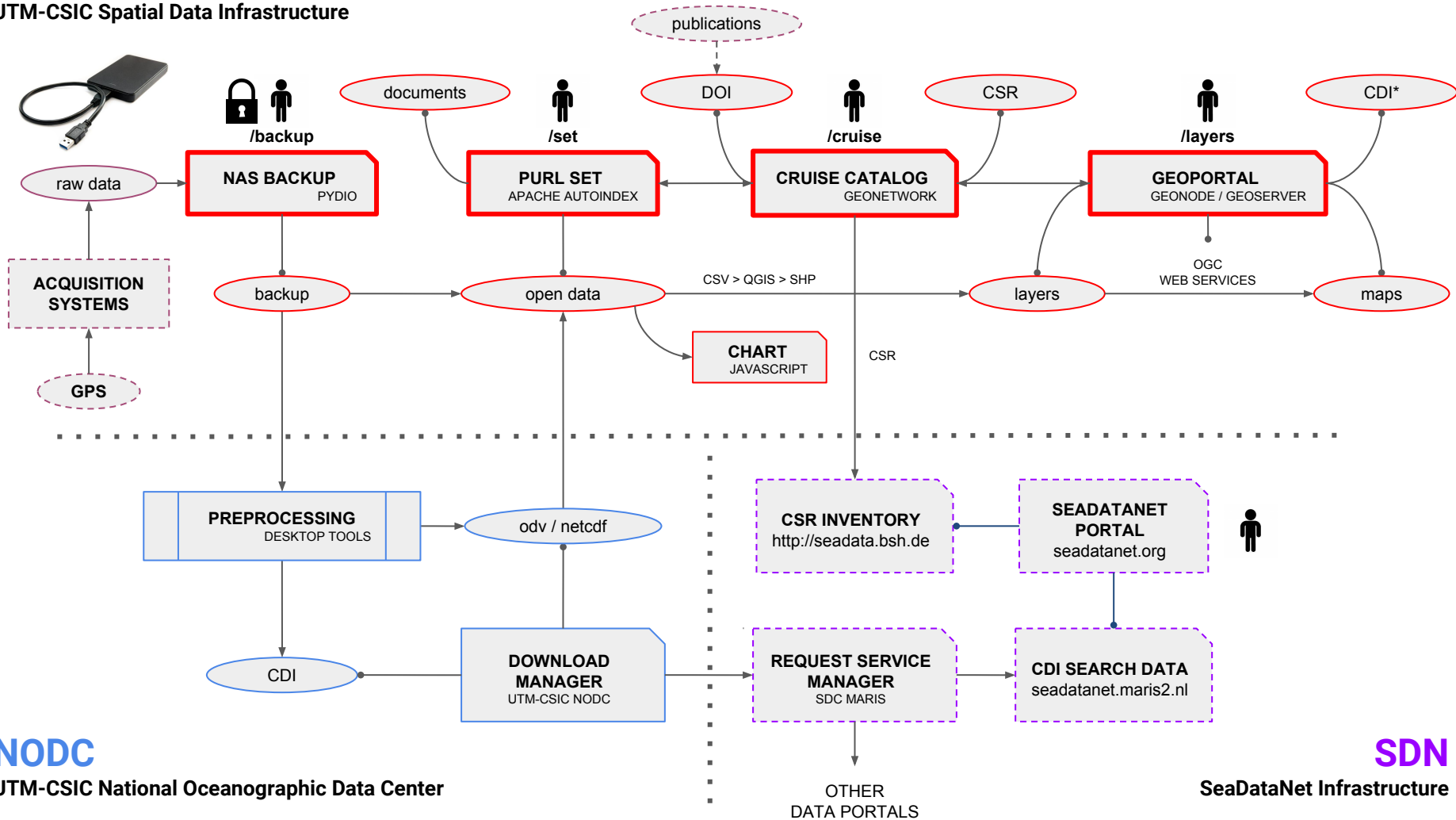
End date: 20060612

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)

<https://data.utm.csic.es>

data@utm.csic.es

