

JOINT EUROPEAN RESEARCH INFRASTRUCTURE NETWORK FOR COASTAL OBSERVATORIES

BIOLOGICAL DATA INTEGRATION

Flanders Marine Institute - VLIZ

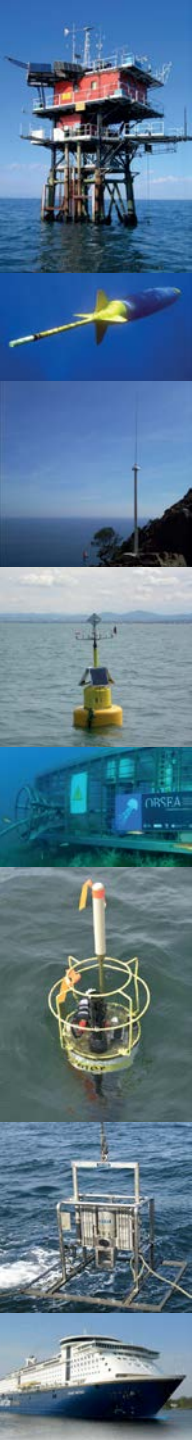
Name of the presenter

email: elisabeth.Debusschere@vliz.be

Elisabeth Debusschere , Klaas Deneudt, Paula Oset Garcia, Jonas Mortelmans, Simon Claus

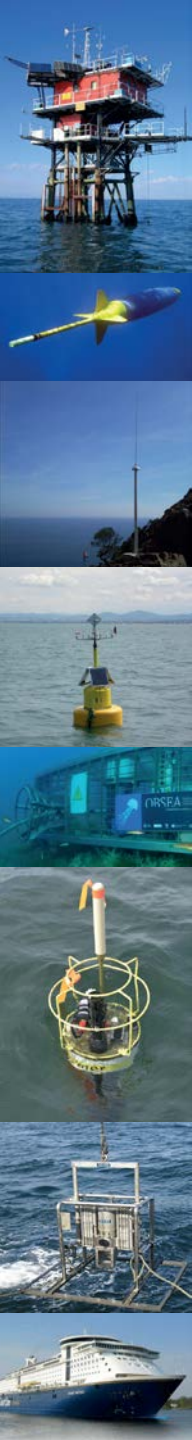
*Third JERICCO-NEXT Workshop on Phytoplankton Automated Observation/MIO/
Marseille/ France/ 19th to 21st March 2018*





- Overview Jerico Next Biological data management
 - Data management – objectives and activities
 - Metadata catalogues
 - Marine Data Archive
 - Data integration and standardization





1. Part of main objectives of the WP 5 – Data Management

Create an **operational link with EMODnet biology** in order to facilitate the data exchange between existing marine biological data networks and data generated by the project.



2. Presentation of the tasks

JRAP1/ Pelagic Biodiversity

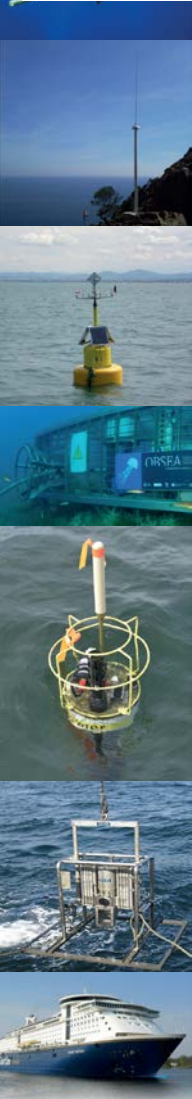
- Novel methods:
 - Imaging Flow Cytometry (in situ and on ship)
 - High Troughput sequencing of 16S and 18S rDNA
 - Data output is more complex, taxonomic annotations often last step
- Actions
 - Working on new obis env format for fcm data





Metadata

- Data collection JRAP1 & JRAP2 (currently 31 sets)
- Metadata overview being available in EMODnet Biology
- Linking from Jerico-Next website to collection
- <http://www.emodnet-biology.eu/data-catalog?module=dataset&show=search&spcolid=910>
- New: Geographic interface on data collection





BIOLOGY

Dive into data on Europe's marine life

[Home](#)[Data Catalogue](#)[Data Download](#)[Map Viewer](#)[Product Gallery](#)[Project](#)[Contribute](#)[Contact](#)[Blog](#)

Data Catalog

21 records found with search conditions : [No parameters entered]



[Expand all](#) [Collapse all](#)

- JERICOnext: Joint Research Activity Project 1: Phytoplankton Biodiversity**, [more](#)
 - Baltic sea UVP5 image data set (July 2017)**, [more](#)
 - Bio-optical measurements in Utö Baltic Sea, spring 2017-spring 2018**, [more](#)
 - CAMANOC 2014: Ferry Box CAMANOC 2014 cruise data (English Channel, 2014)**, [more](#)
 - IFCB110-SMHI: Imaging flow cytometry from SMHI in Tangesund 2016**, [more](#)
 - MAREL Carnot: MAREL Carnot data and metadata from Coriolis Data Centre (English Channel, since 2004)**, [more](#)
 - Phycocyanin fluorescence and cell counts of phycocyanin containing species, ferry Finnmaid Helsinki - Travemünde, summer 2016**, [more](#)
 - Phytoplankton biodiversity data from a North Sea Cruise with R/V Endeavour in June 2016**, [more](#)
 - Phytoplankton biodiversity data from a North Sea Cruise with R/V Simon Stevin in May 2016**, [more](#)
 - Phytoplankton biodiversity data from a North Sea Cruise with R/V Zirfaea in April 2016**, [more](#)
 - Phytoplankton biodiversity data from a North Sea Cruise with R/V Zirfaea in June 2016**, [more](#)
 - Plankton biodiversity data from a North Sea Cruise with R/V Simon Stevin in May 2017**, [more](#)
 - Silja Serenade ferrybox measurements between Helsinki and Stockholm, spring 2017-spring 2018**, [more](#)
 - A*MIDEX CHROME: Western Mediterranean automated flow cytometry surface sample from Ships of O/P crossing Tunis-Marseille and Tunis-Genova between October 2016-January 2017**, [more](#)
- JERICOnext: Joint Research Activity Project 2: Benthic Biodiversity**, [more](#)
 - Pagure-Next-2016: Benthic biodiversity cruise in the Bay of Brest in October 2016**, [more](#)
 - JERICOBENT: Impact study of Gironde input on benthic ecosystems of the West-Gironde mud-patch (2016-2018)**, [more](#)
 - Invasive species diversity in the Bay of Brest (2018)**, [more](#)
 - Macrobenthos collected in the Cretan Sea between 2016 and 2017**, [more](#)
 - Microbial diversity of the Cretan Sea between 2016 and 2017**, [more](#)
 - Physicochemical characterization of the Cretan Sea between 2016 and 2017**, [more](#)





Data Catalog

[\[report an error in this record \]](#)




IFCB110-SMHI: Imaging flow cytometry from SMHI in Tangesund 2016

Citation

Swedish Meteorological and Hydrological Institute (2016). Imaging flow cytometry from SMHI in Tangesund 2016.

Contact: [Karlson, Bengt](#) ; [Brosnahan, Michael](#)

Availability:  This dataset is licensed under a [Creative Commons Attribution 4.0 International License](#).

Description

An imaging flow cytometer, the Imaging FlowCytobot, was used to investigate phytoplankton abundance and diversity in a fjordal system on the Swedish Skagerrak coast. Samples of 5 mL were collected approximately every 25 minutes. An automated winch was used to move the IFCB to different depths. Chlorophyll fluorescence of individual organisms was used to trigger the camera in the instrument. Several thousand images were collected in each sample. Automated image analyses was used to analyse the images produced to identify and count cells of different plankton taxa.

Scope

Themes: [Biology](#) > [Phytoplankton](#)

Keywords: [Marine](#), [Flow cytometry](#), [ANE](#), [Skagerrak](#)

Geographical coverage

[ANE](#), [Skagerrak](#) ([Marine Regions](#))

Temporal coverage

9 August 2016 - 16 October 2016

Contributors

Swedish Meteorological and Hydrological Institute (SMHI), [more](#), data creator

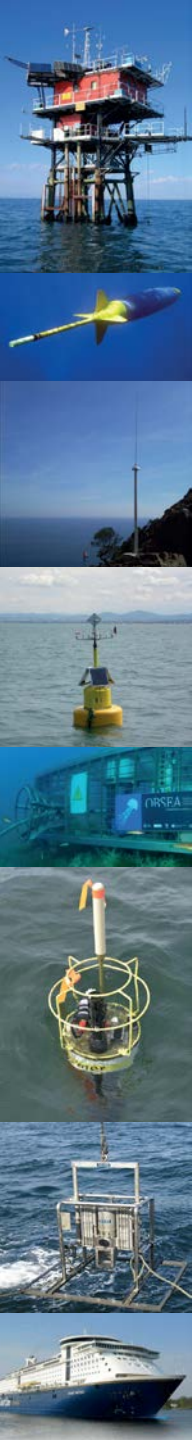
[Karlson, Bengt](#)

Woods Hole Oceanographic Institution (WHOI), [more](#)

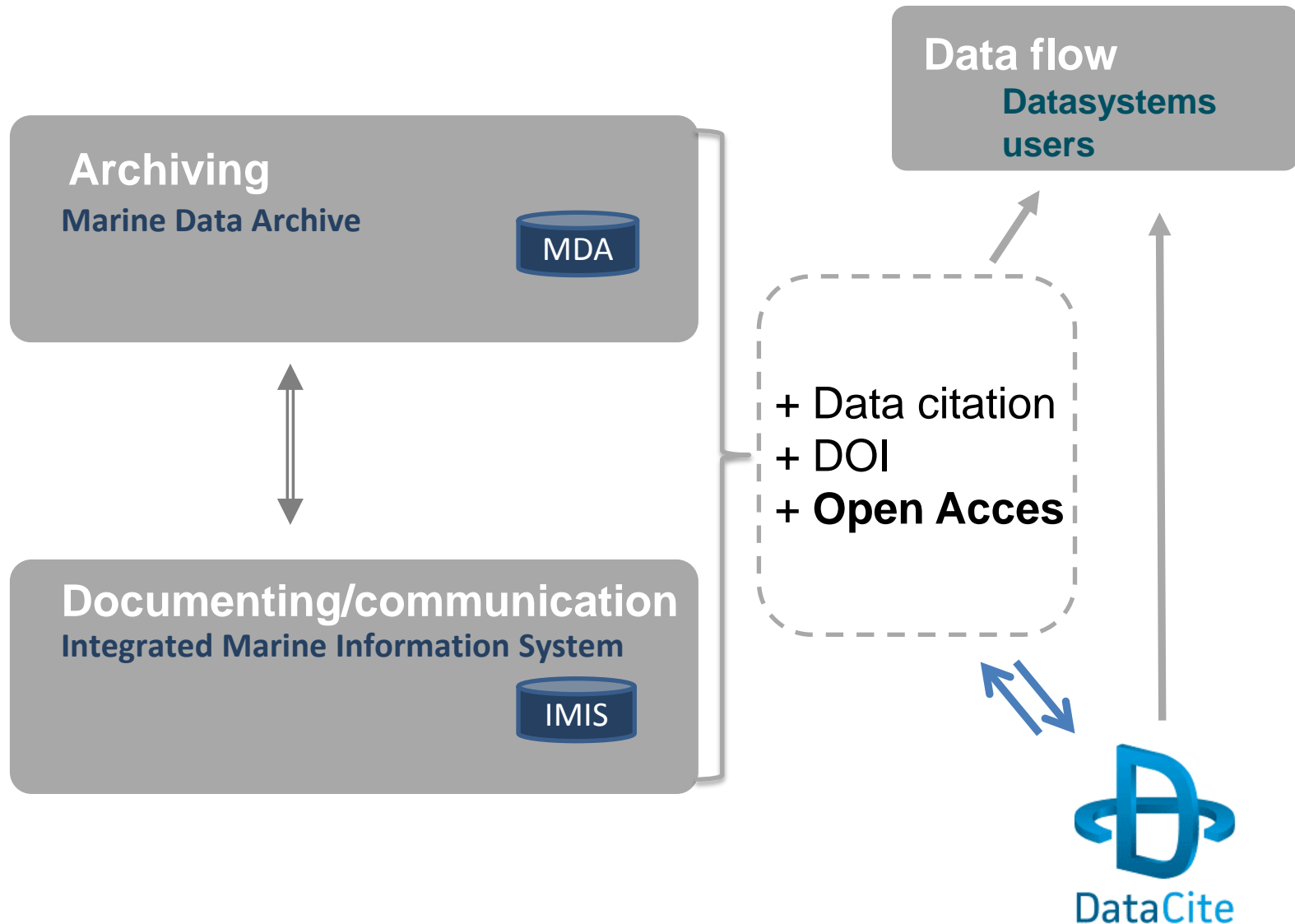
[Brosnahan, Michael](#)



The way forward with your data



The **Marine Data Archive** is used as a repository for DOI allocated files. VLIZ can assign a DOI for each dataset that meets the requirements.





Integration into Emodnet Biology



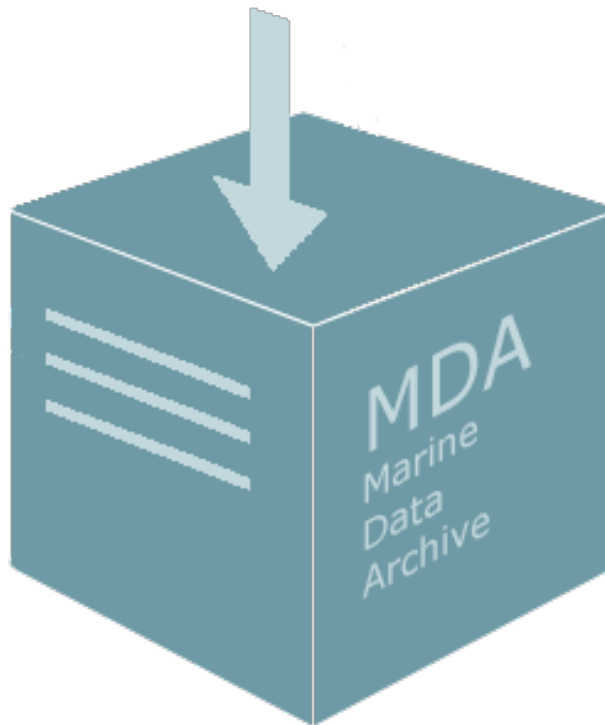
Data need to be reformatted into the **OBIS ENV format**

Currently we are working on the **guidelines** for the OBIS ENV format

Data from Jerico-next partners will be transformed into this format

Deadline: June 2018 to deliver processed fcm data.

MARINE DATA ARCHIVE



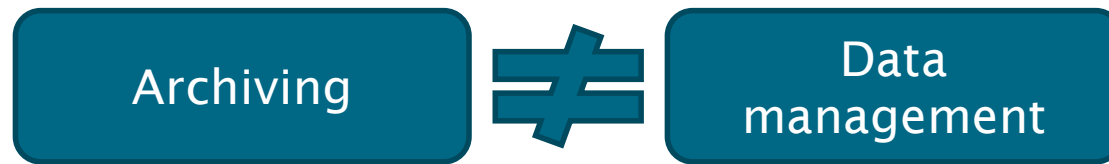
<http://mda.vliz.be>

Archiving?

- Preventing the loss of data files
- Allowing future re-use of data
 - Traceability
 - Availability of metadata information
 - Availability of technical/use metadata
- Fixed procedures

Usage?

- Personal back-up
- As an institutional data repository
- Centralise & archive the in- and output of a project, analysis, workshop, or product,
- As an Open Repository for data files (share & link, DOI,).



Archiving



Data
management



A vertical bar on the left side of the slide, composed of many small horizontal bars in various colors including yellow, green, blue, and grey.

Online, secured data system

Registration: <http://mda.vliz.be/account.php>

mda@vliz.be



Marine Data Archive

Menu bar

Account information



Intro Archive Manual Policy Register Contact FAQ

Free search Groenendijk-Bad

Action bar

Folder tree view

- Archive
 - NathalieDeHauwere
 - CREST
 - Quarantine (4)
 - 1_Waterlevels
 - 2_wave parameters
 - 3_wave overtopping measurements
 - 4_data on currents and turbulence
 - 5_meteorological data
 - 6_sediment characteristics
 - 7_sand transport fluxes
 - 8_bathymetric surveys
 - General data
 - Mariakerke Project
 - Monitoring Broersbank
 - Ecosysteemvisie Kust
 - LTV O-M projecten_ARCHIEF
 - LTV O-M projectmanagement_ARCHIEF
 - O&M Data Archief
 - O&M Projecten
 - O&M Projectmanagement
 - O&M T2009 data archief
 - O&M T2015 data archief
 - O&M Tijdelijke opslag (temp)
 - STARDUST
 - Visbestanden
 - Public datasets
 - Recommended Data Formats

Files	Type	Datatype	Data provider	Archive date
Bathymetric Maps - Eurosense - Groenendijk-Bad	fileset			2017-03-24
SIT_1983_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1983_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1983_1_MIWE08.JPG.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jpg.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1985_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1985_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1985_1_MIWE08.jpg.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1985_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1986_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1986_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1986_1_MIWE08.jpg.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1986_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1987_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1987_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1987_1_MIWE08.jpg.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1987_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1988_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1988_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25

File view

Archived by	De Hauwere Nathalie	Archive date	2017-01-25 08:29:03
Author(s)	De Hauwere Nathalie	Dataprovider(s)	Annelies Geldof
Start Year	1983	End Year	1996
Data type	Geographic data	File size	4.11 MB
Path	CREST/8_bathymetric surveys/Bathymetric Maps - Eurosense/Original files/Groenendijk-Bad/		
Summary	-		

File properties view

Folder tree view



Marine Data Archive



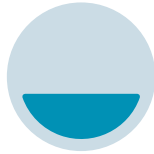
- Archive
 - NathalieDeHauwere
 - CREST
 - Quarantine (4)
 - 1_Waterlevels
 - 2_wave parameters
 - 3_wave overtopping measurements
 - 4_data on currents and turbulence
 - 5_meteorological data
 - 6_sediment characteristics
 - 7_sand transport fluxes
 - 8_bathymetric surveys
 - General data
 - Mariakerke Project
 - Monitoring Broersbank
 - Ecosysteemvisie Kust
 - LTV O-M projecten_ARCHIEF
 - LTV O-M projectmanagement_ARCHIEF
 - O&M Data Archief
 - O&M Projecten
 - O&M Projectmanagement
 - O&M T2009 data archief
 - O&M T2015 data archief
 - O&M Tijdelijke opslag (temp)
 - STARDUST
 - Visbestanden
 - Public datasets
 - Recommended Data Formats

Files†	Type	Datatype	Dataprovider	Archive date
▶ Bathymetric Maps - Eurosense - Groenendijk-Bad	fileset			2017-03-24
SIT_1983_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1983_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1983_1_MIWE08.JPG.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jpg.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1985_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1985_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1985_1_MIWE08.jpg.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1985_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1986_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1986_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1986_1_MIWE08.jpg.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1986_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1987_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1987_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1987_1_MIWE08.jpg.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1987_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1988_1_MIWE08.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1988_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25

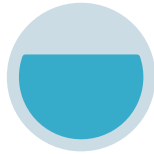
Archived by De Hauwere Nathalie
Author(s) De Hauwere Nathalie
Start Year 1983
Data type Geographic data
Path CREST/8_bathymetric surveys/Bathymetric Maps - Eurosense/Original files/Groenendijk-Bad/
Summary -

Archive date 2017-01-25 08:29:03
Dataprovider(s) Annelies Geldof
End Year 1996
File size 4.11 MB

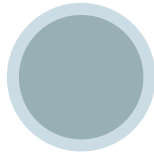




Private folder



Shared folders



Public folders

**ACCESS
RIGHTS**

Read only

Write limited

Write full



Free search Groenendijk-Bad

- Archive
 - NathalieDeHauwere
 - CREST
 - Quarantine (4)
 - 1_Waterlevels
 - 2_wave parameters
 - 3_wave overtopping measurements
 - 4_data on currents and turbulence
 - 5_meteorological data
 - 6_sediment characteristics
 - 7_sand transport fluxes
 - 8_bathymetric surveys
 - General data
 - Mariakerke Project
 - Monitoring Broersbank
 - Ecosysteemvisie Kust
 - LTV O-M projecten_ARCHIEF
 - LTV O-M projectmanagement_ARCHIEF
 - O&M Data Archief
 - O&M Projecten
 - O&M Projectmanagement
 - O&M T2009 data archief
 - O&M T2015 data archief
 - O&M Tijdelijke opslag (temp)
 - STARDUST
 - Visbestanden
 - Public datasets
 - Recommended Data Formats

Files:

SIT_1983_1				
SIT_1983_1				
SIT_1983_1				
SIT_1984_1				
SIT_1984_1_MIWE08.jpg	jpg	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jpg.aux.xml	xml	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1984_1_MIWE08.jpg.jgw	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1985_1				
SIT_1986_1				
SIT_1986_1				
SIT_1986_1				
SIT_1986_1_MIWE08.jpg.ovr	ovr	Geographic data	Annelies Geldof	2017-01-25
SIT_1987_1_MIWE08.jpg	jgw	Geographic data	Annelies Geldof	2017-01-25
SIT_1988_1				
SIT_1988_1				

Archived by De H
 Author(s) De H
 Start Year 198
 Data type Geo
 Path CREST/8_bathymetric_surveys/bathymetric_maps/EuroSense/Originalfiles/Groenendijk-Bad/
 Summary -

Quarantine folder

Empty (sub)folder

(Sub)folder



Explore, share, download

 Search

 View metadata

 Download file / fileset

 Download folder





Manage archive - folder



Add new folder



Delete folder








Edit folder



Move folder



Manage archive - files

-  Delete file
-  Upload new version
-  Edit file metadata
-  Move file(s) to another folder
-  Group in fileset



Archive files

Upload



- Bulk upload
- Drag & drop
- Only files, no folders
- Max 2GB

Describe



- Add metadata
- Forms ~ data type
- Temporary storage: 6 months

Archive



- Search files
- Share files
- Permanent storage
- Versions
- DOI

DESCRIBING USING FORMS & templates



Upload



Describe



Archive



APPLY TEMPLATE

Select template

New template

Summary of selected template

Cancel

Apply template

Upload



Describe



Archive



CREATE AND APPLY NEW TEMPLATE

File properties

Extra attributes

Description

Template name

METADATA

Author(s)

Debusschere Elisabeth

Dataprovider

Email Dataprovider

Condition of Use

Datatype

Summary

Underlined items are required to be able to archive your file(s).

Cancel

Reset


Save & Apply

Required

- Filename
- Author(s)
- Dataprovider
- **Datatype** ←

Not required

- Email dataprovider
- Condition of use
- Summary
- Changes

- 
- A vertical decorative bar on the left side of the slide, composed of horizontal bars of varying lengths and colors (yellow, green, blue) stacked vertically.
- 1 • Biotic data
 - 2 • In situ instrument data
 - 3 • Lab instrument data
 - 4 • Experimental data
 - 5 • Geographic data
 - 6 • Remote sensing data
 - 7 • Images and movies
 - 8 • Model data
 - 9 • Software & scripts
 - 10 • Documents

NEW

+ 11: flow
cytometer data

EDIT FILE METADATA

File properties

Extra attributes

Description

<u>Filename</u>	<input type="text" value="LW_2017_protocol_1 2017-05-08 15h00.cyz"/>
File creationdate	<input type="text" value=""/> <input type="button" value="select"/>
<u>Author(s)</u>	<input type="text" value="Mortelmans Jonas"/>
<u>Dataprovider</u>	<input type="text" value="Flanders Marine Institute"/>
Email Dataprovider	<input type="text" value="data@vliz.be"/>
Condition of Use	<input type="text" value="CC-BY"/>
<u>Datatype</u>	<input type="text" value="Flowcytometer data"/>
Summary	<input type="text" value="During the Jerico-Next cruise, 8-12 May 2017, the FlowCytometer on board of the RV Simon Stevin collected phytoplankton data following three protocols (pr1, pr2, pr3), every 30 minutes."/>
Changes	<input type="text" value=""/>

Underlined items are required.



File properties **Extra attributes** **Description**

Biotic composition ... phytoplankton ▼ +

Deployment Underway ▼

Sampling frequency < daily ▼

Sampling device ... Flowcytometer ▼

Parameters (biotic) ... Phytoplankton taxonomy-related biovolume ▼

Parameter(s) ... FL Yellow per particle ▼ +

... SWS per particle ▼ -

... FL Orange per particle ▼ -

... FL Red per particle ▼ -

... FWS per particle ▼ -

... Curvature per particle ▼ -

... FL Red 2 per particle ▼ -

Sea area(s) North Sea (MRGID2350) ▼ +

Coordinate reference WGS84 (epsg: 4326) ▼

Location Belgian, Dutch, French and British part of the north Sea

Max. longitude 2.883

Min. longitude 1.82

Max. latitude 51.226

Min. latitude 50.994

First date 2017-05-08

Last date 2017-05-08

Free labels ... Keyword ▼ : Jerico +

... Project ▼ : JericoNext 2017 -

... Report ▼ : http://seadata.bsh.c -

... Sampling platform ▼ : RV Simon Stevin -

Linked files [] ... +

Protocol values ... FI Yellow ▼ : 80 +

... smartrigger FL Red ▼ : 6 -

... Pump speed ▼ : 2µl/s / 6min -

... FI Orange ▼ : 80 -

... FI Red2 ▼ : 95 -

... SWS ▼ : 60 -

... normal trigger SWS ▼ : 33 -

... Protocol Description ▼ : Low pumpspeed an -

... FI Red ▼ : 95 -

... Protocol Local Name ▼ : Protocol 1 -

Underlined items are required.

Cancel Reset Save changes

EDIT FILE METADATA

File properties

Extra attributes

Description

Description

In 2017, a 5day R/V Simon Stevin North Sea plankton cruise was organized visiting multiple stations along the Belgian, French, British, and Dutch coasts. The following Jerico-Next partners were involved: VLIZ, RWS, CNRS-LOG, and NIOZ.

Main objective of this cruise was to study the spatial distribution of phytoplankton functional groups during the Phaeocystis/Diatom bloom from the E. Channel towards the North Sea.

The stored data files contain the raw, unprocessed output data of the FCM during the Jerico-Next 2017 campaign. Three different protocols (pr1, pr2, pr3) were used:

Underlined items are required.

Cancel

Reset

Save changes



Archive files

Upload



- Bulk upload
- Drag & drop
- Only files, no folders
- Max 2GB

Describe



- Add metadata
- Forms ~ data type
- Temporary storage: 6 months

Archive



- Search files
- Share files
- Permanent storage
- Versions
- DOI

Marine Data Archive



Jonas Mortelmans

- Intro
- Archive
- Manual
- Policy
- Register
- Contact
- FAQ

Free search

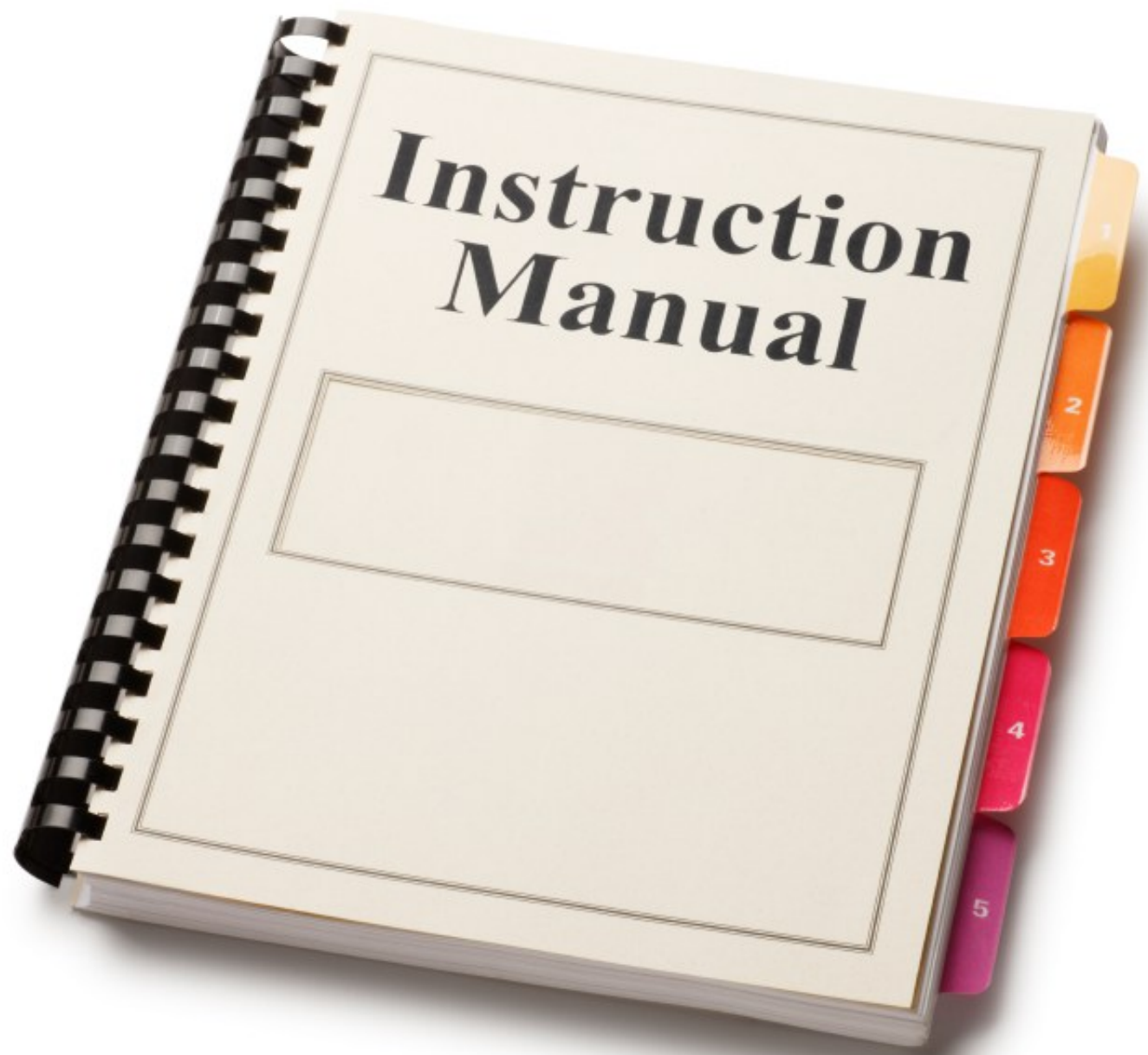


Files↑	Type	Datatype	Dataprovider	Archive date
LW_2017_protocol_1 2017-05-08 14h04.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 14h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 15h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 15h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 16h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 16h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 17h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 17h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 18h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 18h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 19h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 19h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 20h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 20h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 21h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 21h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 22h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 22h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 23h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-08 23h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-09 00h00.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08
LW_2017_protocol_1 2017-05-09 00h30.cyz	cyz	Flowcytometer data	Flanders Marine Institute	2018-03-08

- Jerico_NEXT
 - Quarantine (0)
 - JRAP1
 - CruiseRVSimonStevin_May20...
 - CruiseRVSimonStevin_May20...
 - Cruise data
 - CTD data
 - Flowcytometer data
 - Sea and meteo
 - JRAP2
- Public datasets

MARINE DATA ARCHIVE

- How does it serve Jerico-Next?
- Metadata attached to all datafiles
- Specific datatype, especially developed to store flow cytometry data
- Shared folder (with participants) and public folder for broader distribution
- Easily accessible to all partners
- ..



Instruction Manual



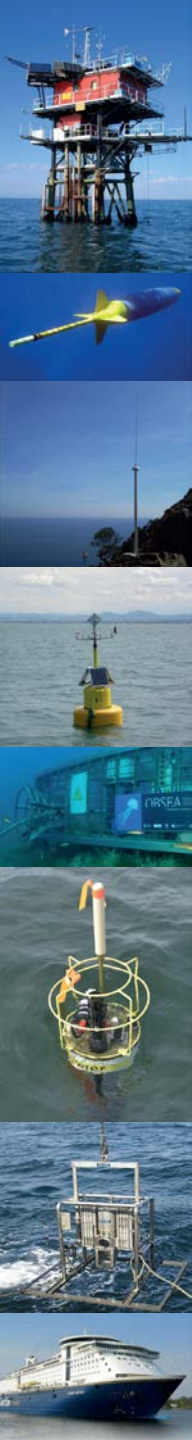
1

2

3

4

5



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654410.