



# SeaDataCloud

## ***WP4: The communication, dissemination and exploitation development***

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2nd Annual Meeting, Barcelona, Spain, 8 November 2018  
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# Overview of activities during last year

## 1. The deliverables

## 2. Tasks:

- WP4.1 - Preparing and regular updating of a Promotion and Dissemination Plan
- WP4.2 Dissemination and promotion activities, incl. SeaDataNet portal
- WP4.3 - Organising 2 editions of the IMDIS Conference

## WP4

3) Links with other projects or initiatives

4) Future opportunities

Diss. activities are also carried out in other WPs, WP3 (training for data prov.) and WP11 (data products)

## WP4: The deliverables

- D4.2: “Promotion and Dissemination Plan version 1” was released by ENEA (19/07/2018)
- D4.5: “Poster-leaflet version 2” and a bookmark was released by ENEA (31/05/2018)
- D4.9: “Newsletter n° 2” was issued by MARIS and the collaboration of some partners (30/03/2018)
- D4.12: “Proceedings of IMDIS 2018” was released by OGS (October 2018)

## WP4: The deliverables

- D4.19: “Mid-term report on SeaDataNet AISBL”, by RBINS due at the M22, has been postponed at 31/12/2018 to have more progress
- D4.21: “IPR (Intellectual Property Rights) recommendations in the perspective of the cloud” are going to be released by RBINS in November
- D4.24: “MoU between SeaDataNet and CMEMS” was released by IFREMER and MARIS (04/05/2018)

## WP4.1 - Preparing and regular updating of a Promotion and Dissemination Plan

- It describes the overall strategy, objectives and the communication/dissemination policy foreseen for the project
- All the consortium partners are involved in the dissemination/communication activity
- The partners are invited to identify relevant events, seminars, conferences and fairs at national and international level, and inform the other partners via e-mail; this information is published on the infrastructure portal.

## WP4.2 Dissemination and promotion activities, incl. SeaDataNet portal

- SDC Project web portal
- Websites
- Promotional material (see D4.5)
- Newsletter (see D4.9)
- Videos
- Scientific/technical papers
- Presentations at conferences/workshops/events/fairs
- E-journals and Newspapers

## WP4.2 Dissemination and promotion activities, incl. SeaDataNet portal

### Web portal

- The portal is the main mean to disseminate information about the project, it is managed by IFREMER and it is regularly updated. The portal has a structure that provides easy access to data and all information related to the project and standards in use.

## WP4.2 Dissemination and promotion activities, incl. SeaDataNet portal

### Partners Websites

- Project partners have created an important online presence through a link to the SeaDataCloud portal in their own web site. This simple action contributes to increase the discoverability of the infrastructure.
- Most partners added a link to the SeaDataCloud portal in their websites.

## Websites

- The SDN infrastructure has been added as “Knowledge Management System” to the **Virtual Knowledge Centre “*The Digi-Gate for Marine and Maritime Knowledge in the Mediterranean*”** as well as the SDC project is also described with a link to the SDN portal.





## Tasks WP4.2

### MIO - Mediterranean Institute of Oceanography (France)



Accueil du site > Agenda > Actualités - Evénements > SeaDataCloud : Newsletter n°12

#### SeaDataCloud : Newsletter n°12



##### Vocabularies for handling flow cytometer data



Within the SeaDataCloud program, for the first time, a special focus is given to the flow cytometry data so as to make them interoperable with the SeaDataNet system. A preparatory work for building a flow cytometry common and standardized vocabulary is undertaken by CNRS/MIO, BODC and VLIZ and presented in the "Seadatanet Letter".

In order to update this vocabulary codes with a large consensus of FCM users, a questionnaire has been created and submitted to FCM users (more than 150) all over the world. It covers four main parts : FCM Group names and definitions, FCM Metadata, Sample Metadata and FCM Data. Results from it will mature the standard vocabulary for FCM. A future work will consist in integrating specific data from the high diversity of benchtop flow cytometers. Pictures collected by some flow cytometers only will go through an already defined way of taxonomical collection and management (automated images recognition tools and diversity established databases).

Voir en ligne : <http://seadatanet.maris2.nl/newslet...>



## Tasks WP4.2

### EMSO web-site


**IMDIS conference has been promoted during EGU, at session ESSI 1.1, at the ENVRI booth as well as by partners and other project web sites**

[www.emso-eu.org](http://www.emso-eu.org)

[Home](#) [What is EMSO](#) [Ocean Observatories](#) [TNA](#) [Members](#)

## News & Events

### TRANSNATIONAL ACCESS 2018



Are you a European marine enterprise or research organisation Interested In open ocean facilities, e...

[Read more](#)

### IMDIS 2018



EMSO ERIC encourages you to participate and contribute to "The International conference on Marine Da...

[Read more](#)

**IMDIS**

## Videos

- **1 video interview to Chris Ariyo (CSC) realised by EUDAT November 2017**

The video is available on the SDC portal, on Youtube and at the EUDAT website at the following web addresses:

<https://www.youtube.com/watch?v=-Qmknla1Npc>

<https://www.eudat.eu/chris-ariyo-on-seadatacloud-di4r2017>

- **Training videos on SeaDataNet software tools were realised by OGS in May 2017**

The videos carried out in the framework of EMODNet Chemistry are available in the section training of the SDN portal.

## Videos

- **Training videos on SeaDataNet software tools required to be a data provider were realised by IOC-IODE in June 2018.**

The videos carried out during the first training workshop for data providers held in Ostend, Belgium, are available on IODE's OceanTeacher Learning Platform and Youtube at web address:

<https://www.youtube.com/oceanteacherorgHome>

### Scientific publications

- S. Watelet, J-M. Beckers, A. Barth, 2017. [Reconstruction of the Gulf Stream from 1940 to the Present and Correlation with the North Atlantic Oscillation](#). Journal of Physical Oceanography, DOI: 10.1175/JPO-D-17-0064.1



## International conferences

### **Informatics in Oceanography and Ocean Science (ESSI 1.1)**

(chaired by Antonio Novellino and Simona Simoncelli)

3 oral presentations (1 related to EMODNet project that uses the same standards)

3 posters

#### **Oral presentations:**

- **Progress of SeaDataCloud with upgrading the Discovery and Access service and applying Linked Data, by Peter Thijsse, Dick Schaap, and Michele Fichaut**



**European Geosciences Union  
General Assembly 2018**

Vienna | Austria | 8–13 April 2018

EGU.eu





## International conferences

- **Physics: Tackling new challenges**, by Patrick Gorringer and Antonio Novellino
- **Sensor Web Developments in the ODIP II Project**, by Simon Jirka, Christian Autermann, Alexandra Kokkinaki, Matthes Rieke, and Dick Schaap

**Web-based Exchange and Processing of Environmental Data, (ESSI 2.6)** chaired by Benedikt Gräler  
**Poster: 1**



**European Geosciences Union  
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## International conferences

### **Metadata, Data Models, Semantics, and Collaboration**

(ESSI 2.1) chaired by Paolo Diviacco

**Oral presentation: 1**

**Poster: 2**

**Oral presentation:**

- **Exposing the SeaDataNet metadata catalogues as Linked Data: from metadata to data on the web**, by Rob Thomas and Adam Leadbetter



**European Geosciences Union  
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## International conferences

### Oral presentations in collaboration with the ENVRI community

- Pecci Leda and Simoncelli Simona - **The contribution of the SeaDataNet infrastructure in the Arctic studies**
- Pecci Leda and Simoncelli Simona - **The SeaDataNet infrastructure contribution to marine biological studies**
- Pecci Leda and Simoncelli Simona - **The contribution of the SeaDataNet infrastructure in the extreme weather events study**



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## International conferences

	Oral presentations	Posters
<b>ESSI 1.1</b>	<b>3</b>	<b>3</b>
<b>ESSI 2.1</b>	<b>1</b>	<b>2</b>
<b>ESSI 2.6</b>		<b>1</b>
<b>ENVRI community booth</b>	<b>3</b>	
<b>Total EGU</b>	<b>7</b>	<b>6</b>



## International conferences

### Tasks WP4.2

- Dick M.A. Schaap - **SeaDataCloud European Marine Data Exchange** - SDB day, 6th June 2018 in Herrsching, Germany
- Watelet Sylvain, Beckers Jean-Marie and Barth Alexander - **Taking the pulse of the Gulf Stream through variational inverse methods: is the North Atlantic Oscillation teasing it?** - FOCUS Young Scientists Day - 26 April 2018 in Liège, Belgium
- Simona Simoncelli - **From SeaDataNet to SeaDataCloud** - IQuOD workshop - 18 April 2018 in Oostende, Belgium



## International conferences

### Tasks WP4.2

- Schaap Dick M.A. - **SeaDataCloud: OGS SWE in SeaDataNet & EMODnet** - Oceanology International, 15 March 2018 in London, United Kingdom
- Schaap Dick M.A. - **SeaDataCloud: Towards a European Blue Cloud for management, discovery, access, and analyses of marine and ocean data** - Oceanology International, 14 March 2018 in London, United Kingdom



## International conferences

### Tasks WP4.2

- Serge Scory et al. (RBINS) - **SeaDataNet, a Network of Distributed Oceanographic Data Centres Now Going to the Cloud”** at the **International Workshop on Sharing, Citation and Publication of Scientific Data across Disciplines** in Tokyo (Japan), 5–7 December 2017
- Wichorowski Marcin and Sagan Slawomir (October 2017) - **Global challenges and Data-Driven Science How to accomplish interoperability of heterogeneous concepts? Multifunctional sensors and systems for in-situ monitoring of marine environment – CODATA conference**, St. Petersburg, Russia



## International conferences

### Tasks WP4.2

- Soumaya Lahbib et al. - **Ingesting, validating, long-term storage and access of flow cytometry (FCM)** - EUROMARINE, 21-22 March 2018, Marseille, France
- Soumaya Lahbib et al. - **The setting up of the new flow cytometry standardized and common vocabulary** - Third JERICO-NEXT Workshop on Phytoplankton Automated Observation, 19-21 March 2018 in Marseille, France



## Tasks WP4.2

### International conferences

#### Oral presentations

- Elena Partescano, Raymond Cramer, Alessandra Giorgetti, Lena Hallin-Pihlatie, Alessandro Sarretta and Dick Schaap, **Use case of INSPIRE data models to map EMODnet nutrients data, adopting and adapting SeaDataCloud solution** - INSPIRE conference Antwerp, Belgium, 18-21 September 2018.
- Lena Hallin-Pihlatie, Kathi Schleidt, Raymond N. Cramer, Seppo Kaitala and Dick M.A. Schaap, **Building a bridge between the SeaDataNet data and INSPIRE data models** - INSPIRE conference Antwerp, Belgium, 18-21 September 2018.



## Tasks WP4.2

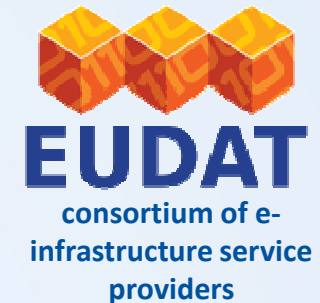
### International events

- Chris Ariyo (CSC) presented SeaDataCloud in November 2017 at the **DI4R** Conference Digital Infrastructures for Research in Brussels – Belgium, 30/11 - 01/12 2017
- Simona Simoncelli et al. (INGV) presented: “From SeaDataNet to SeaDataCloud: historical data collections, climatologies and new data products” to **MonGOOS Workshop on Mediterranean Observing System** – Athens (Greece) (14/11/2017)



## International workshops

### **EUDAT - SEADATACLOUD WORKSHOP, Porto, Portugal, 22-25 January 2018**



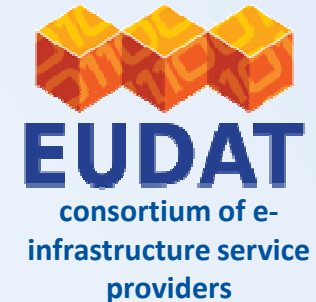
- 1) Introduction to SeaDataNet infrastructure - Michèle Fichaut and Dick M.A. Schaap
- 2) CDI Data Discovery and Access service – Dick M.A. Schaap
- 3) Linked Data for metadata directory services – Rob Thomas / Adam Leadbetter (Marine Institute)
- 4) Sensor Web Enablement ingestion service - Christian Autermann (52North)
- 5) Striving for INSPIRE compliance – Lena Hallin-Pihlatie (SYKE)
- 6) Common Vocabulary services – Alexandra Kokkinaki (BODC)



# **EUDAT - SEADATACLOUD**

## **WORKSHOP, Porto, Portugal, 22-25**

### **January 2018**



- 7) Generating validated and harmonised Temperature & Salinity data collections and climatologies – Simona Simoncelli (INGV)
- 8) Ocean Data View (ODV) software and the cloud - Sebastian Mieruch (AWI)
- 9) Data-Interpolating Variational Analysis (DIVA) software and the cloud – Charles Troupin - ULiege
- 10) Adopting and adapting SeaDataNet services for EMODnet Chemistry – Alessandra Giorgetti – (OGS )
- 11) Developing the SeaDataCloud Virtual Research Environment (VRE) – Merret Buurman – (DKRZ )



## International conferences

### Digital infrastructures for Research

Lisbon, Portugal, 09-11 October 2018

#### Oral presentation:

Interoperable systems for SeaDataNet community –  
Christopher Aryio (CSC-IT Center for Science)

#### Poster:

Virtual Research Environment for Marine Research  
Community - Sri Harsha Vathsavayi, Christopher Ariyo,  
Damien Lecarpentier (CSC – IT)



## Training course

20-21 February Mark Hebden (BODC) delivered **marine data management training in Saint Lucia, Caribbean**. The workshop was attended by ~ 20 OECS representatives (Organisation of Eastern Caribbean States) from various Caribbean island states (and Guyana/Belize). Training was delivered by MEDIN (Marine Environmental Data and Information Network) and the UK's National Oceanography Centre, as part of the UK government's Commonwealth Marine Economies Programme (<https://www.gov.uk/guidance/commonwealth-marine-economies-programme>). During the workshop SeaDataNet infrastructure has been promoted as a successful means of distributed marine data management between countries.



## International events

### Oral presentation

- Roy Lowry presented SDC at **HCMR**, Greece in October 2017 - Putting meaning into oceanographic measurements

### Poster

- Vittorio Barale (JRC) presented SDC at the 13 **MEDCOAST** Congress on Coastal and Marine Sciences, Engineering, Management and Conservation 31 October – 4 November 2017, Melleiha (Malta)

## Comm./Diss. at international fairs

- ENEA presented SDN/SDC by direct contacts in a booth using posters and promotional material at Sea Future, Exhibition and business convention, held in La Spezia, 19-23 June 2018



<http://seafuture2018.it/seafuture/>



## **Presentations at national level**

### **Tasks WP4.2**

**Oral presentation** - P. Nunes, A. Saramago, C. Borges, L. Veiga, S. Almeida - **As tendências das infraestruturas europeias de dados marinhos** - 5º Jornadas de Engenharia Hidrográfica - 19-21 June 2018 in Lisboa, Portugal

**Promotional material** - José Antão, who is the Portuguese National Contact Point and committee representative in the H2020 Research Infrastructures (including e-Infrastructures) Programme, made available promotional material at **National Infoday for the new Research Infrastructures** held on November 16, Lisboa (Portugal)

## Tasks WP4.2

### Presentation by the ENVRI community

ENVRI is the community of the Environmental research infrastructures.

SDN/SDC was presented with a mini poster and some slides by the ENVRI community at GEO week 2018 in the ENVRI booth in Kyoto, Japan (29/10/2018-02/11/2018)



### **Links with other projects or initiatives**

- Data Interoperability EMODnet Chemistry, EMODnet Bathymetry, EMODnet Physics, EMODnet Biology are linked for the adoption of standard for data/metadata, vocabularies and/or for the data management system
- EMODnet Data Ingestion represents a chance to increase the number of available data
- SeaDataNet was active in the Ocean Platform (ODIP) project that has had the aim of exploring and demonstrating common standards and interoperability with leading data management infrastructures in USA and Australia projects.

# EMODNet Physics

# Other projects

Date	Location	Title	Internal/External + Short Description
2-5/10/2017	Bergen (Norway)	EuroGOOS conference	External - International conference on Operational Oceanography. EMODnet Physics - and hence SeaDataNet as one of Physics pillar- had an oral presentation and synergies, links, interoperability etc were widely cited and discussed during the conference.
25/10/2017	Sopot (Poland)	HELCOM State & Conservation meeting	External - We presented the EMODnet program with a focus on EMODnet Physics and Data Ingestion, and hence SeaDataNet services and features that can support HELCOM activities.
25-26/10/2017	Capri (Italy)	RITMARE project final meeting	External - Final meeting of the Italian RITMARE project on observing systems. EMODnet Physics was invited to show the European framework and discuss on data management and data access.
8-11/11/2017	Torrelodones (Spain)	TG NOISE	External - Meeting of the EU Technical Group on Underwater Noise (EU TG-NOISE).
11/11/2017	Madrid (Spain)	EuroGOOS Tide Gauge Task Team	Internal - The meeting was focused on discussing the integration and presentation of the sea level trends as computed by SONEL and the development of a Sea Level Anomalies product.
14-16/11/2017	Athens (Greece)	MONGOOS annual meeting	External - Annual meeting of the Mediterranean Operational Network for the Global Ocean Observing System (MONGOOS). We gave an update about activities and collaboration between EMODnet Physics and Data Ingestion.
12/12/2017	Webcall (SOCIB)	Glider data interoperability	External/Internal - Technical meeting to discuss on how to connect more (international) Glider data to EMODnet Physics and its pillars
23/01/2018	Porto (Portugal)	EUDAT Conference - SeaDataCloud Workshop	External – workshop on cloud based data management. The roles and cooperation between EMODent and SeaDataCloud were presented
31/01/2018	Oostende (Belgium)	IODE - ODIS meeting	External – The roles and cooperation between EMODent and SeaDataCloud were presented
13/02/2018	Galway (Ireland)	EuroGOOS, EMODnet Physics and Data Ingestion Workshop	External - Workshop to discuss about programs, projects, data management and connections between local providers and integrators to European ones.
14/03/2018	London (UK)	Oceanology International 2018	External - presentation on SeaDataNet - EMODnet for Ocean ICT programme
15/03/2018	London (UK)	Oceanology International 2018	External - Sensor Web Enablement (SWE) Workshop. Real time data flow in the context of EMODnet Ingestion, Physics and SeaDataCloud
20-21/02/2018	Paris (France)	EMODnet Physics core team annual meeting	Internal - Annual meeting of the consortium core team
14/03/2018	London (UK)	OI, Oceanology International	External - Presentation on EMODnet in general and Physics in detail
15/03/2018	London (UK)	JERICONEXT WP5 meeting	External - European Coastal observatories data management



## Tasks WP4.2

### **Links with other projects or initiatives**

- SeaDataCloud and EUDAT are involved in the pilot project “Blue Cloud” to contribute to the overall architecture of the European Open Science Cloud (EOSC). The platform will define virtual environment services for storage, management , analyses and re-use of ocean data.
- SeaDataCloud collaborates with the existing global infrastructures such as the IOC-IODE Ocean Data Portal (ODP), GEOSS and the International Council for Science World Data System (ICSUWDS).



## Tasks WP4.2

2nd Annual Meeting, Barcelona, Spain, 8 November 2018

### **Links with other projects or initiatives**

- The MARINERG-i project is already exploring how best to leverage the SeaDataNet infrastructure by adapting and extending the core standards and tools to the offshore energy domain.

Projects/Infrastructures	Contributions
<b>Copernicus Marine Environmental Monitoring Services (CMEMS)</b>	providing long-term archives and standards
<b>Marine Strategy Framework Directive (MSFD)</b>	providing infrastructure, standards and data collections for several indicators
<b>GEOSS - EuroGEOSS</b>	feeding GEOSS portal with SeaDataNet in-situ data collections from large community of European data holders (> 100 data centres; >600 data originators)
<b>Large ocean monitoring systems (EuroGOOS, AtlantOS, Euro-ARGO, JERICO-Next, EuroFleets, ..)</b>	providing standards and validation + long-term archiving services

Projects/Infrastructures	Contributions
<b>European Open Science Cloud (EOSC)</b>	shaping the pilot Blue Cloud
<b>European Marine Observation and Data Network (EMODnet)</b>	driving and serving many EMODnet thematic portals. In particular the <b>EMODnet portals Physics, Chemistry and Bathymetry</b> use standards and/or the SeaDataCloud data access mechanism and give access to datasets hosted by SeaDataCloud and develop products using that data

## Task WP4.2

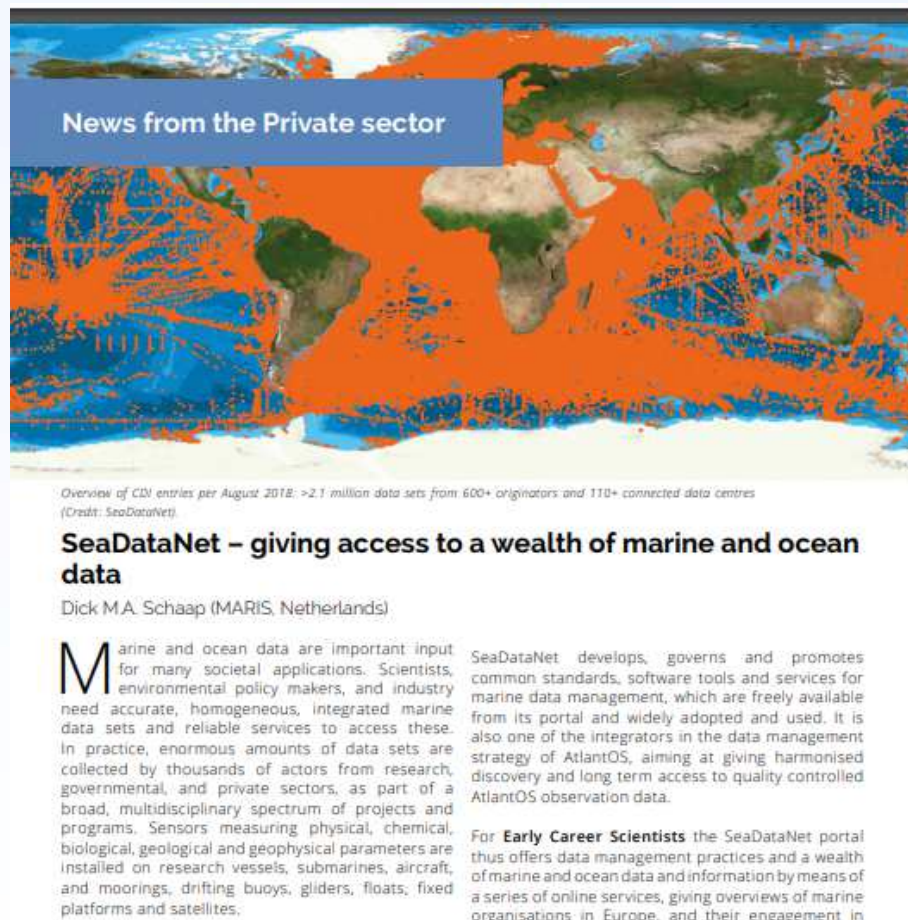


The SDN infrastructure and the SDC project are going to be presented, by ENEA, in a **supplement** of the “Il Sole 24 Ore”, a business daily newspaper that is published by Confindustria, the Italian employers’ federation. Platinum n. 63 November 2018 Research&Innovation.

Platinum is distributed in newsstands and by direct mailing with the “Il Sole 24 ore” in: Italy, France, Spain, Germany, UK, Netherlands and Belgium, in English language; via web in OpenAccess mode <http://www.platinum-online.com/ricercainnovazione-luglio-2018/> (clicking on the English flag)

## Task WP4.2

- The SDN infrastructure and the SDC project is presented in the AtlantOS **newsletter** by Dick Schaap
- <https://www.atlantosh2020.eu/download/Media/newsletters-briefings/AtlantOS-Newsletter-4.pdf>



[https://www.atlantosh2020.eu/download/Media/newsletters-briefings-apers/AtlantOS-Newsletter-4.pdf](https://www.atlantosh2020.eu/download/Media/newsletters-briefings/AtlantOS-Newsletter-4.pdf)

## Task WP4.3 - Organising IMDIS Conference



- The IMDIS (International Conference on Marine Data and Information Systems) conferences are multidisciplinary international events organised every 3 years.
- The series of conferences is going to proceed with a next edition in October 2020



**imdis**

International Conference  
on Marine Data and Information Systems

- IFREMER managed the organisation of the conference (EasyChair system, the communication with the conference committee and the website).
- UTM-CSIC, as Spain partner, gave logistical support for the organisation of the conference
- OGS took care for the production of proceedings
- 178 papers have been submitted for evaluation by the conference committee;



**imdis**

International Conference  
on Marine Data and Information Systems

Participants: 184 from 36 countries

	Oral presentations	Posters
<b>SeaDataCloud/SeaDataNet</b>	<b>7</b>	<b>9</b>

## Tasks WP4.2

### **Future opportunities**

- 11th International Symposium on Digital Earth (ISDE11), to be held on 24 - 27 September 2019 at the Palazzo dei Congressi in Florence, Italy