



Report on the User Workshop 1

WP4 – Deliverable 4.15



HORIZON 2020

sdn-userdesk@seadatanet.org – www.seadatanet.org

SeaDataCloud - Further developing the pan-European infrastructure for marine and ocean data management

Grant Agreement Number: 730960

Deliverable number	Short title
D4.15	Report on User Workshop 1
Long title	
Report on the User Workshop 1	
Short description	
This deliverable report the results of the First user workshop of SeaDataCloud	
Author	Working group
E. Partescano, M. Vinci	WP4
Dissemination	Copyright terms
Public	

History

Version	Authors	Date	Comments
1.0	E. Partescano, M. Vinci	12/06/2019	Creation



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Acknowledgment

This document is a deliverable of the SeaDataCloud project. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 730960.



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1. Introduction

The SeaDataCloud user workshops are aimed at establishing more engagement of the marine scientific community for using more often the SeaDataNet data discovery and advanced services. These are a very useful toolkit and collaborative workspace for supporting research.

In the SeaDataCloud description of work a user workshop was planned for April 2019 (task WP4.4 under OGS responsibility).

At the end of the workshop a questionnaire was distributed to be completed by participants for evaluating and reviewing the Workshops and their experiences with the SeaDataNet services.

This report summarizes the workshop results with the goal to validate and to improve, if required, the set-up of workshops and project achievements.

The organisation of the workshop was agreed upon the support of the steering committee group.

Different solutions and locations were valued and proposed during the Steering Group Meetings:

- 4th Steering Group Meeting, Sopot, 24th April 2018
- 5th Steering Group Meeting, Barcelona, 9th November 2018

At the end, the best solution was to organise the 1st user workshop during the EGU conference planned from 7 to 12 April 2019 (in Vienna).

The workshop was arranged as a splinter meeting, scheduled on 11 April 2019, from 10:45 to 12:30. (<https://meetingorganizer.copernicus.org/EGU2019/session/33706>).

OGS sent invitations (beginning of March 2019) and reminders (beginning of April 2019) through the SeaDataNet/EMODnet/ODIP communities, asking partners to share with people from their institutes and projects.

Two posters were presented at EGU conference and during poster session promotion of the user workshop was done:

- “Italian NODC, from the ingestion to the publication of the European marine environmental data” by Matteo Vinci et al. ESSI4.1 - Data science, Analytics and Visualization: The challenges and opportunities for Earth and Space Science: Wednesday, 10 Apr 2019, 08:30-10:15

- “SeaDataCloud: a Pan-European infrastructure to improve the transition from data to knowledge” by Elena Partescano et al. Session ESSI1.1/OS4.35 - Informatics in Oceanography and Ocean Science - Thursday, 11 Apr 2019, 08:30-10:15

This workshop provided an overview of the SeaDataCloud services with the aim of helping all the possible stakeholders. The objective was to facilitate access to marine and oceanographic data collected from research, monitoring and survey programs by more than a thousand data originators and make more effective use of them to develop new products and services.



2. First User Workshop

2.1. Venue and Logistics

The first user workshop was organized during the EGU conference planned from 7 to 12 April 2019 (in Vienna).

The workshop was arranged as a splinter meeting, scheduled on 11 April 2019, from 10:45 to 12:30. (<https://meetingorganizer.copernicus.org/EGU2019/session/33706>).



SMP28

[SeaDataCloud: useful tools and services for supporting oceanographic research and improving the transition from data to knowledge](#)

Convener: Elena Partescano Q

Thu, 11 Apr, 10:45-12:30 ■ Room 0.16

The Splinter meeting is organized by SeaDataCloud partnership aims to present practically the different components of the SeaDataNet infrastructure: data services (discovery interface), metadata services and software tools (ODV and DIVA). The goal is to promote to the marine scientific community the SeaDataNet infrastructure, a very useful toolkit and collaborative workspace for supporting their research.

The SeaDataCloud is an EU H2020 programme, aims at considerably advancing SeaDataNet infrastructure and increasing its usage, adopting cloud and High Performance Computing technology for better performance.

SeaDataNet connects together more than 100 National Oceanographic Data Centres (NODC's) from 34 coastal states in Europe. At the moment SeaDataNet gives access to more than 2.0 million data sets for physical oceanography, chemistry, geology, geophysics, bathymetry and biology.

The key components of the infrastructure are:

-data services: data from more than 100 data centres active in data collection from ocean observation is available by means of a unique point of access. The architecture is based on a semi-distributed system with the central portal that provides the indexing services based on xml files, called CDI, compliant with ISO 19115 - ISO 19139 standard. The data standard formats are ODV (Ocean Data View) and NetCDF (CF).

-metadata services: SeaDataNet portal provides with free access an overview of the Marine organisations in Europe and their involvement in scientific cruises, data collection and marine projects.

-software tools: the project updates and makes software tools available allowing the data providers to perform their core functions like: data and metadata formatting, their transformation, analysis and finally their publishing.



To book a splinter-meeting room, we filled out the splinter-meeting request form.

The request was handled by Copernicus Meetings on a first-come, first-served basis, and the splinter meeting appeared in the splinter-meetings program.

The EGU Programme Committee Chair reviewed all splinter meetings two weeks prior to the conference. Hereby, EGU retained the right to reject splinter-meeting requests.



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The splinter-meeting room was equipped with a data projector. Laptops and microphones were not provided. All splinter-meeting participants had to be registered for the conference.

The deadline to submit the request was the 22 March 2019.

The room reserved was the 0.16 at the Yellow Level 0 (ground floor) facilities (37 persons).

2.2. Workshop Programme

The program was designed in collaboration with speakers:

10:45	Introduction	Matteo Vinci
11:00	Recent developments of discovery interface and access services https://www.seadatanet.org/Data-Access	Peter Thijsse
11:30	Ocean Data View (ODV) Software https://www.seadatanet.org/Software/ODV	Sebastian Mieruch-Schnülle
12:00	Data-Interpolating Variational Analysis (DIVA) software tool https://www.seadatanet.org/Software/DIVA	Charles Troupin
12:30	End of the session (questionnaire)	

The speakers are listed below:

Matteo Vinci	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)
Peter Thijsse	Marine Information Service (MARIS)
Sebastian Mieruch-Schnülle	Alfred Wegener Institute (AWI)
Charles Troupin	University of Liege, GHER

3. Participants Feedback

3.1. Questionnaire

To evaluate the quality of the organisation, the participants were requested to complete a questionnaire.

An example of questionnaire is inserted below:



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EGU 2019 - SeaDataCloud user workshop

questionnaire to collect comments and suggestions from stakeholders participating to the Sea Data Cloud Workshop

<https://meetingorganizer.copernicus.org/EGU2019/session/33706>

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Personal information

1. Name

2. e-mail

3. Institute

4. Have you ever visited SDCloud web site before?

(<https://www.seadatanet.org/About-us/SeaDataCloud>)

Contrassegna solo un ovale.

- Yes
 No
 Other

5. Have you ever used SDCloud services before?

Contrassegna solo un ovale.

- Yes
 No
 Other

6. If you already used SDCloud services please specify which



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7. Please let us know your comments about ODV software
(<https://www.seadatanet.org/Software/ODV> strength/weak points)

8. Please let us know your comments about DIVA software
(<https://www.seadatanet.org/Software/DIVA> strength/weak points)

9. Please let us know your comments about Ocean Browser products viewing service (strength/weak points)

10. Please let us know your comments about CDI data access service
(<https://www.seadatanet.org/Metadata/CDI-Common-Data-Index> strength/weak points)

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3.2. Results of questionnaire

(Original documents in ANNEX 1)

Personal information

1. Name (8 answers)

Raul Bardaji

Hans Pfeiffenberger

Josue Millan

Serdar Demirel

Maarten Plieger

Felipe Fernandez

Kanwal Shahzadi

Thorsten Kiefer

2. e-mail (8 answers)

bardaji@icm.csic.es

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jmillan1@sycamores.indstate.edu

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maarten.plieger@knmi.nl

fernandezf@unican.es

kanwal.shahzadi@studio.unibo.it

thorsten.kiefer@jpi-oceans.eu

3. Institute (8 answers)

CSIC-ICM/ Institute of Marine Sciences

Alfred Wegener Institute

Indiana State University

Alfred Wegener Institute

Royal Netherlands Meteorological Institute (KNMI)

Environmental Hydraulics Institute of Cantabria

University of Bologna

Joint Programming Initiative Healthy and Productive Seas and Oceans (JPI Oceans)



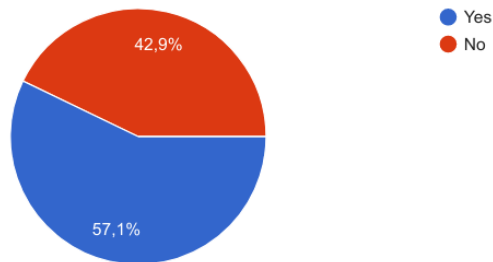
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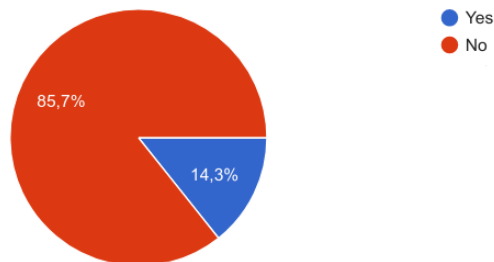
4. Have you ever visited SDCloud web site before?

(7 answers)



5. Have you ever used SDCloud services before?

(7 answers)



6. If you already used SDCloud services please specify which

(0 answer)

7. Please let us know your comments about ODV software

(5 answers)

Very handy

Like moving into the internet

Great visualization

User friendly

I use the ODV software for developing QC algorithms for it

(+) good visualization with nice looking images

(-) does not use standard (OGC)

Desktop ODV -> which are the differences between ODV software and a common GIS software (ArcGIS or Qgis)?

Cloud ODV -> it can make a difference

Can confirm from my part life as a paleoceanography that ODV was a game changer for the whole field



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8. Please let us know your comments about DIVA software

(5 answers)

The scientific community is moving towards Julia seems to "... " uniformity.
First is good but at what cost in scientific unity?

(+) nice interpolation software we could use in one of our projects

Interest the use of Julia, on the other hand it could be risky

DIVA is implemented in an environment that is easy to understand and use. I will request for some improvements documentation, like some free parameters.

If a user wants to modify them how one can do it by just reading the documentation.

Good to have this it seems. Also good to have the running in the background for most visualization application.

I hope that there is a learning loop for the algorithms.

The example from the Baltic suggests good potential for validation of item/extrapolation and them learning.

9. Please let us know your comments about Ocean Browser products viewing service

(2 answers)

I would like to see more interoperability options instead of GIS for download

Seems awesome :)

10. Please let us know your comments about CDI data access service

(1 answer)

I would like to see more interoperability options instead of GIS for download

4. Conclusion

Eight participants (not involved in SDCloud) attended the workshop. The attendees were affiliated to: ICM-CSIC (Spain), AWI (Germany), Indiana State University (USA), KNMI (Netherlands), IHCantabria (Spain), University of Bologna (Italy), JPI Oceans (Belgium).

The most of them have visited SeaDataCloud web site before and have already used SeaDataCloud services. Some of participants gave suggestions and some opinions about ODV software, DIVA, Ocean Browser and about CDI data access service, in general they seem appreciate the services.

All participants attended the workshop until the end and shown a real interest, asking questions and clarifications.

Nevertheless, the low attendance was disappointing for the organisers of the workshop, and the pending questions are “How to improve the next workshop” and “How to attract more people?”

Promotional material of the EMODnet Data Ingestion portal was distributed to all participants and the promotional video was shown at the end of the workshop.



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5. Annex 1: Original questionnaires

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questionnaire to collect comments and suggestions from stakeholders participating to the SeaDataCloud Workshop
<https://meetingorganizer.copernicus.org/EGU2019/session/33706>

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Personal information

Name

Raul Bardaji

email

bardaji@icm.csic.es

Institute

CSIC-ICM/ Institute of Marine Sciences

Have you ever visited SDCloud web site before? (<https://www.seadatanet.org/About-us/SeaDataCloud>)*

- Yes
 No
 Other



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Have you ever used SDCloud services before?

- Yes
- No
- Other

If you already used SDCloud services please specify which

Please let us know your comments about ODV software (<https://www.seadatanet.org/Software/ODV> strength/weak points)

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Personal information

Name

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Name

Josue Millan

email

jmillan1@sycamores.indstate.edu

Institute

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Personal information

Name

Maarten Plieger

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maarten.plieger@knmi.nl

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Royal Netherlands Meteorological Institute (KNMI)

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- (-) does not use standard (OGC)
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- (+) nice interpolation software we could use in one of our projects
-

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Environmental Hydraulics Institute of Cantabria

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Cloud ODV -> it can make a difference

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kanwal.shahzadi@studio.unibo.it

Institute

University of Bologna

Have you ever visited SDCloud web site before? (<https://www.seadatanet.org/About-us/SeaDataCloud>) *

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 No
 Other



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6. Annex 2: List of acronyms

Acronym	Definition
ArcGIS	Esri desktop GIS software
AWI	Alfred Wegener Institute (Germany)
CDI	Common Data Index (SeaDataNet catalogue)
DIVA	Data-Interpolating Variational Analysis
EGU	European Geosciences Union
EMODnet	European Marine Observation and Data Network
EU	European
GHER	GeoHydrodynamic and Environmental Research (Belgium)
GIS	Geographic Information System
ICM-CSIC	Institute of Marine Sciences (Spain)
IHCantabria	Environmental Hydraulics Institute of Cantabria (Spain)
ISO	International Organization for Standardization
JPI Oceans	Joint Programming Initiative Healthy and Productive Seas and Oceans (Belgium)
KNMI	Royal Netherlands Meteorological Institute (Netherlands)
MARIS	MARine Information Service (Netherlands)
NetCDF	Network Common Data Form
NODC	National Oceanographic Data Center
ODIP	Ocean Data Interoperability Platform
ODV	Ocean Data View
OGC	Open Geospatial Consortium
OGS	National Institute of Oceanography and Applied Geophysics (Italy)
QC	Quality Checks
Qgis	Quantum GIS
SDCloud	SeaDataCloud (H2020 European project)
SDN	SeaDataNet (Research Infrastructure)
WP	Work Package