



SeaDataCloud

Report of the 2d Training Session WP3 Deliverable D3.4

Hong Minh Le and Marianne Schlessler - RBINS

SeaDataCloud 3rd Annual Meeting, Plouzané, France, 17-18 October 2019
sdn-userdesk@seadatanet.org – www.seadatanet.org

Summary

1. Objectives
2. Organisation
3. Workshop content
4. Feedback survey review
5. Conclusions

1. Objectives

- The 2019 SeaDataCloud training sessions address the whole range of new developments recently made to improve the efficiency of the infrastructure and of the services it offers.
- Some topics are relevant for the technicians taking care of the availability of the data through the network.
- Some others will be more relevant to data managers and data analysts, for example in the perspective of a better quality control of the data we provide to our customers or in the process of making data products.

2. Organisation

- Roles of the organisers
- Registration process
- Participations

Roles of the organisers

- RBINS:
 - Invitations of SDC partners and external data centers
 - Announcements and registration process in collaboration with IFREMER
 - Ensure effective participation of all SDC partners
 - Set-up and consolidation of the programme (late confirmation of some topics made it difficult this year to launch detailed announcement in due time)
 - Contact point with trainees and trainers
 - Travel and stay arrangements (incl. finances) for non-SDC beneficiaries
 - Preparation of on-site logistics with IODE P.O.
 - Contribution to on-site logistics (including remote participation support)
 - Contribution to feedback survey updates

Registration process

Invitation sent to data managers and technicians of:

- 48 SeaDataCloud partner data centers (participation mandatory)
- 76 non-partner SeaDataCloud data centers (participation costs covered)

Costs:

- SeaDataCloud partners have a provision in their budget for participation
- For invited non-partners SeaDataCloud participants, RBINS took in charge their travel and hotel booking as well as their registration and subsistence costs. Reimbursement of their costs have been treated and completed in September.

Participations

Face to face workshop with 2 similar sessions:

- 19 to 21 June 2019
- 24 to 26 June 2019

Were attending:

- 92 participants on site (51 for session 1 and 48 for session 2) including 15 trainers.
- 66 SDC partners participants and 26 non-SDC trainees
- 13 remote participants

from:

- 46 on 48 SeaDataCloud partners data centers
- 18 on 76 non-SeaDataCloud data centres

3. General content of the workshop

- Prototype of the SeaDataNet Virtual Research Environment (VRE) and VRE components (first two days):
 - WebODV with hands-on training exercises,
 - DIVA online with hands-on training exercises on Jupyter,
 - Online QC of biological data,
 - Online visualisation services
 - Outlook on advantages of cloud-based research, developments and uptake as envisioned for VRE in SDC, EMODnet and Pilot Blue Cloud projects.
 - Further plans for the VRE

At the end of each day, a feedback was asked to the participants to take into account their remarks, suggestions and wishes for further developments and uses.

3. General content of the workshop

- Upgraded CDI data discovery and access service (3rd day):
 - New CDI service architecture with new components (Replication Manager, EUDAT cloud and upgraded CDI User Interface)
 - Uptake of the data centres for supporting the migration to upgraded system
 - Improving CDI FAIRness
 - Workflow for preparing CDI metadata and ODV files (using NEMO, OCTOPUS, MIKADO) with hands-on session
 - Replication Manager: functionalities and configuration
 - EUDAT CDI services
 - New CDI user interface for searching, ordering and downloading of data
 - Subsetting services (using ERDDAP)

3. General content of the workshop

All training material will be accessible on:

- OT e-Learning Platform (need to register and enroll to course)
- SeaDataCloud website in sections
 - Second Training course
 - Technical documentation



SeaDataCloud

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Claudia Delgado

UNESCO/IOC Project Office for IODE

Roles of the Organisers

- UNESCO/IOC Project Office for IODE
 - Providing the venue/hosting the Face to Face Workshops
 - Hosting training contents online (OT eLP)
 - Recording sessions
 - Facilitate Remote Participation (both teachers and learners)
 - Coordinate local logistics
 - Providing extra laptops for participants

Organisation: Venue and local logistics



Venue

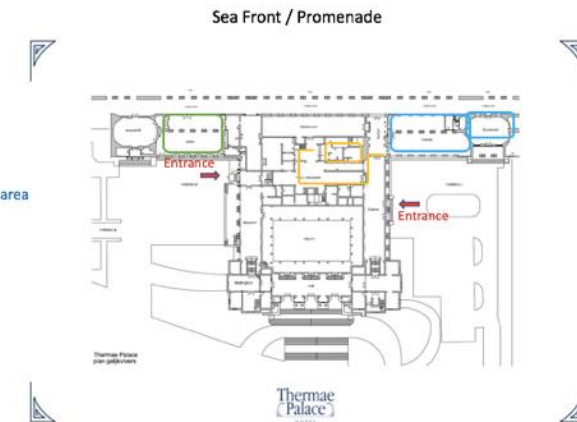
Main/Plenary room:
Fabiola Room

Break out Rooms:
Boudewijn / Fabiola / Coffee break area

Coffee Break area

Lunch: Astrid room

Toilets:
Hall / reception



Koningin Astridlaan 7

2nd SeaDataCloud Training Workshop
19-21 & 24-26 June 2019

Organisation

2 Face to Face Workshops:

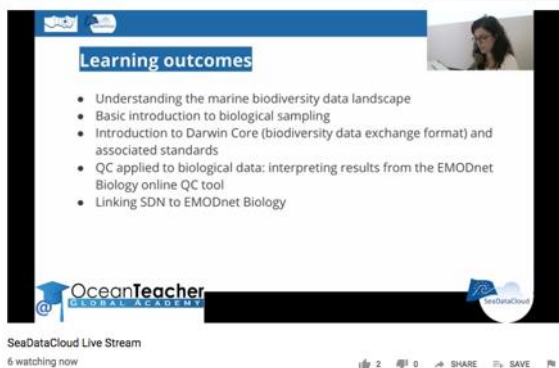
- 19-21 June 2019
- 24-26 June 2019



Organisation

Remote Participation

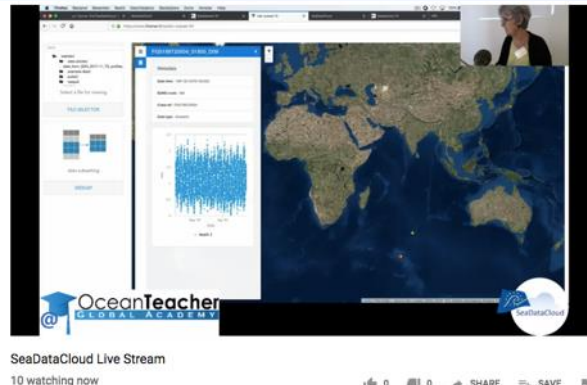
- 11 participants
- Preparation ahead: trainers and trainees



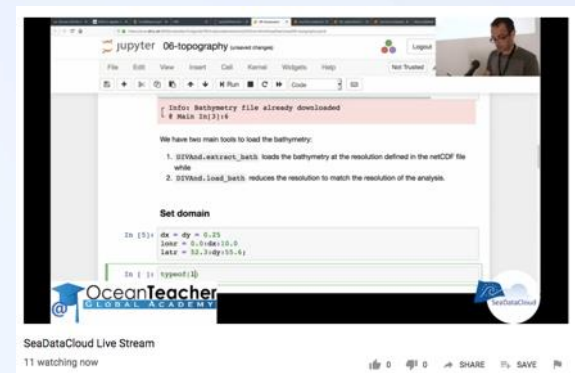
Learning outcomes

- Understanding the marine biodiversity data landscape
- Basic introduction to biological sampling
- Introduction to Darwin Core (biodiversity data exchange format) and associated standards
- QC applied to biological data: interpreting results from the EMODnet Biology online QC tool
- Linking SDN to EMODnet Biology

SeaDataCloud Live Stream
6 watching now



SeaDataCloud Live Stream
10 watching now



Info: Bathymetry file already downloaded
Main 2d[3]x4

We have two main tools to load the bathymetry:

1. `SEVAd.extract_bath` loads the bathymetry at the resolution defined in the netCDF file while
2. `SEVAd.load_bath` reduces the resolution to match the resolution of the analysis.

Set domain

```
In [5]: dx = dy = 0.25
latr = 5.04e-15.0
latr = 32.3dy(55.4)
```

SeaDataCloud Live Stream
11 watching now



Leading concept for SeaDataCloud

Added-value services and applications – Cloud Platform

Downstream Services

Upstream Services

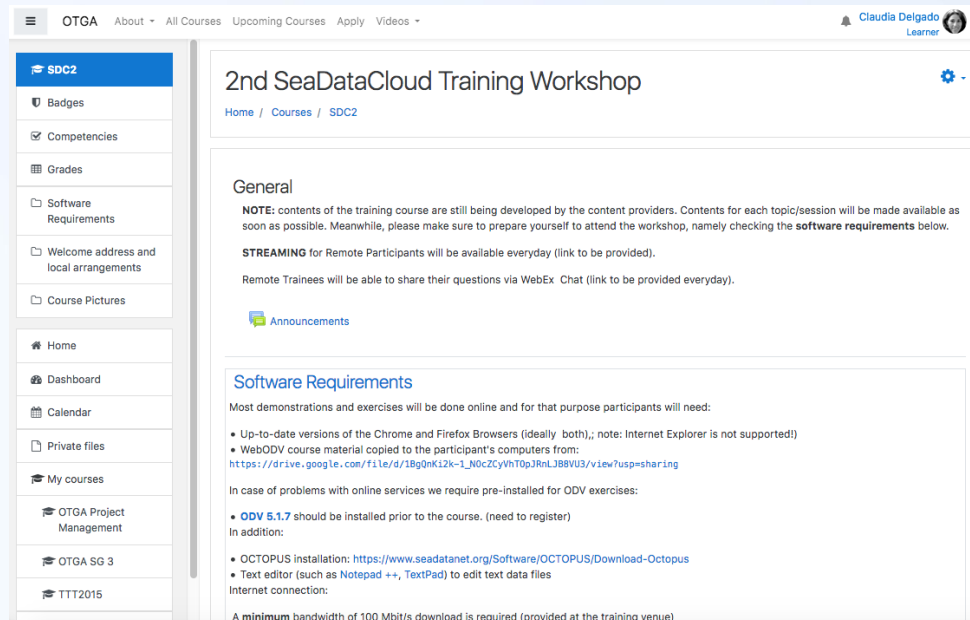
Discovery and access to datasets from many sources

- Providing a cloud platform with common services for data pre-processing, subsetting, analysis, visualizations, publishing, DOI...
- Applying common standards and interoperability solutions for providing harmonised data and metadata
- Providing harmonised discovery and access to data output from multiple sources, such as European research and monitoring data gathering, but also from other European and international data infrastructures

SeaDataCloud Live Stream
3 watching now

Workshop Programme: Training Resources

- Available on the OceanTeacher e-Learning Platform:
<https://classroom.oceanteacher.org/course/view.php?id=398>
 - Self enrolment
- Videos



The screenshot shows the OceanTeacher e-Learning Platform interface. The top navigation bar includes 'OTGA', 'About', 'All Courses', 'Upcoming Courses', 'Apply', and 'Videos'. The user 'Claudia Delgado Learner' is logged in. The left sidebar contains a menu for 'SDC2' with options: Badges, Competencies, Grades, Software Requirements, Welcome address and local arrangements, and Course Pictures. Below this is a 'Home' section with links to Dashboard, Calendar, Private files, My courses, OTGA Project Management, OTGA SG 3, and TTT2015. The main content area is titled '2nd SeaDataCloud Training Workshop' and includes a 'General' section with a note about content development, streaming information, and a link to announcements. A 'Software Requirements' section lists necessary software (Chrome/Firefox, WebODV), pre-installed services (ODV 5.1.7), and installation instructions for OCTOPUS, along with a minimum bandwidth requirement of 100 Mbit/s.

Workshop Programme

- Certificate of Attendance



Online anonymous survey

- 49 respondents:
 - 31 from Group 1 out of the 51 participants
 - 18 from Group 2, out of the 53 participants


SeaDataCloud: 2nd Training Workshop

[Home](#) / [Courses](#) / [SDC2](#) / [15-General Feedback Group 1 and Group 2](#) / [Final Workshop Feedback](#) / [Complete a feedback](#)


Final Workshop Feedback

Mode: Anonymous

Please assess the quality of the services provided by and/or outsourced to the IOC Project Office for IODE


44. Venue facilities (training room, coffee/lunch area, etc)  ☐ 4/Very Good ☐ 3/Good ☐ 2/Average ☐ 1/Poor ☐ 0/Very Poor


45. Computers provided and IT assistance ☐ Very Good ☐ Good ☐ Average ☐ Poor ☐ Very Poor ☐ Not Applicable


46. How do you rate the food served during the course (lunch and coffee breaks)?  ☐ 4/Very Good ☐ 3/Good ☐ 2/Average ☐ 1/Poor ☐ 0/Very Poor

47. What aspects could be improved?


Please assess the quality of the services provided by and/or outsourced to RBINS

48. Registration process  ☐ 4/Very Good ☐ 3/Good ☐ 2/Average ☐ 1/Poor ☐ 0/Very Poor

49. Information provided prior to the event  ☐ 4/Very Good ☐ 3/Good ☐ 2/Average ☐ 1/Poor ☐ 0/Very Poor

50. Structure of the training event (agenda)  ☐ 4/Very Good ☐ 3/Good ☐ 2/Average ☐ 1/Poor ☐ 0/Very Poor

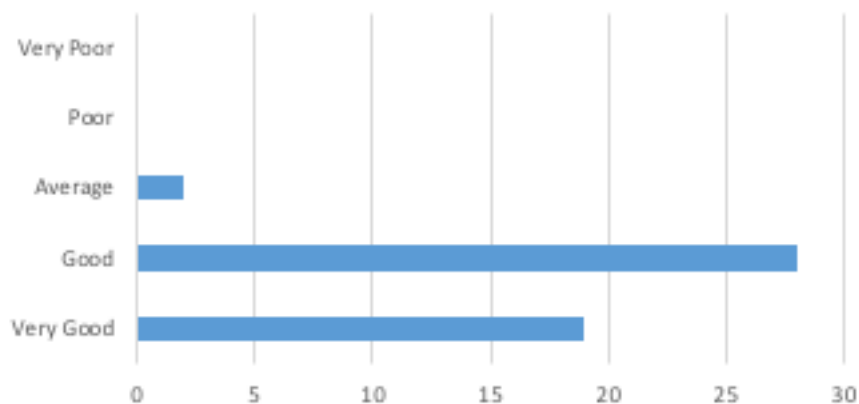
51. What aspects could be improved?

There are required fields in this form marked .

[Previous page](#) [Submit your answers](#) [Cancel](#)

General Outcomes of the Feedback Survey

How do you rate the training overall?



The course was overall considered good (57%) or very good (38%) (n=49 respondents).

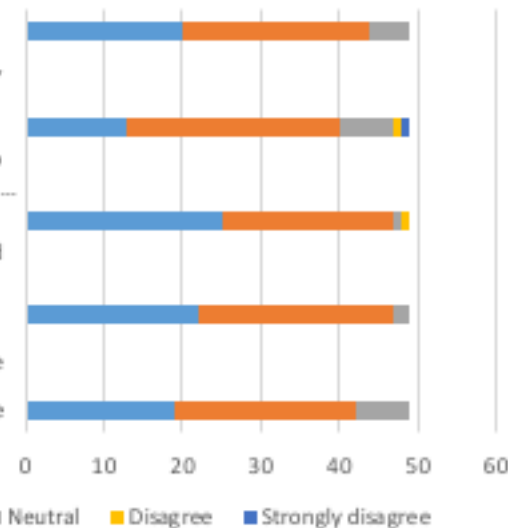
The methods used in the course (lectures, visual materials, assignments) were...

The training schedule was long enough to cover all topics announced on the course...

This training introduced new issues and topics for me

This training was useful for my institute

This training was useful for me



General Outcomes of the Feedback Survey

What aspects of the training could be improved (direct quotes)?

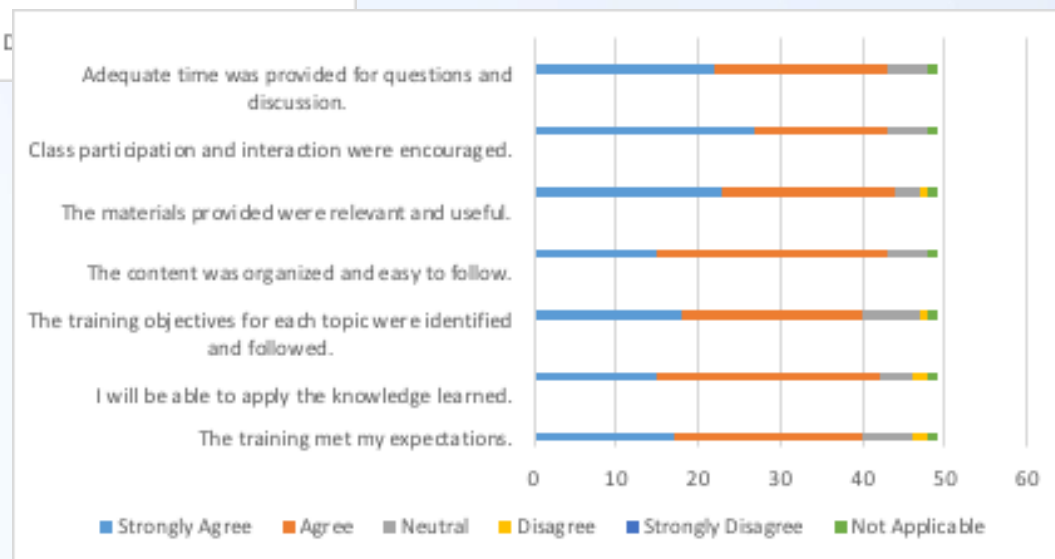
- *Not finish product. To short time for ex. Diva.*
- *smaller groups for hands on activities*
- *All required software should be available (just an issue at the "Sub-setting using ERDDAP...".*
- *Vision of projected information. Bad reading information on it.*
- *Pacing could be improved. A set list of exercises could be handed out, and then worked through at a faster pace by the speaker. The pacing was slow enough for me to loose focus and get distracted.*
- *more time to some courses (day 2), more practice time in programmes (day 2 and 3))*
- *some parts were to much a long demo*
- *There were various links for long list of information previous to the meeting. Maybe just some presentation of what we were going to find would be more useful. In the end all software was available online but I spent a lot of time downloading software.*
- *the DIVA training needs more time*
- *the status of the tools, the possibility to work with your own data*
- *Preparation for all participants beforehand to ensure resources are ready to take part in the course.*
- *remote lecture was difficult to follow, I would have enjoyed more time to play with some of the softwares*
- *provide ODV files for OCTOPUS so that we can see all possible QC output*
- *The DIVA presentations were more on Jupyter than on DIVA*
- *More hands-on exercises (Online QC of biological data & ERDDAP)*
- *I'm happy with the overall result. I think that every thingh runs okay and for that reason I do not have suggestions to improve.*
- *by doing a little bit more practice could have been mor appropriate for the new users*
- *LAN (issues with UTP cable vs WiFi at beggining of course)*
- *provide more time for practic exercises (there were not enough time to work with Julia (with DIVA))*

General Outcomes of the Feedback Survey

Evaluation of the specific workshops topics

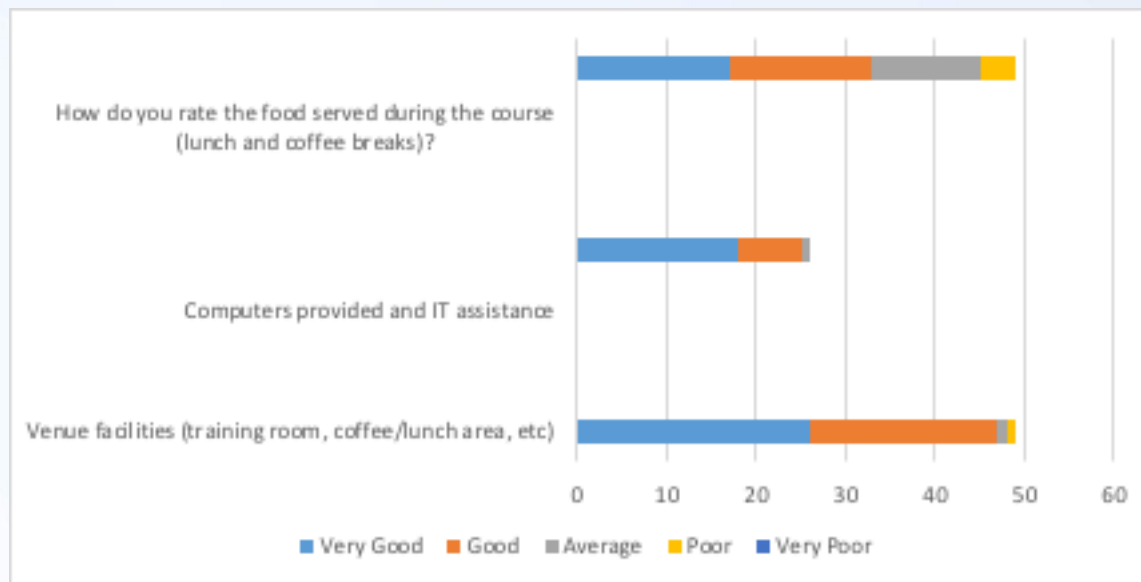


Regarding the hands on sessions

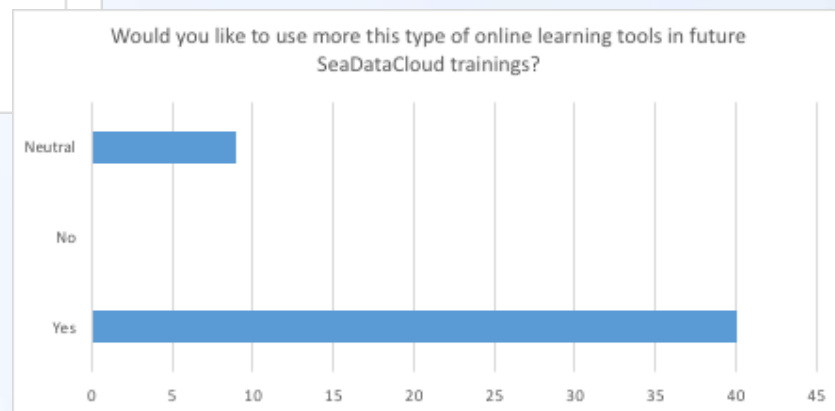
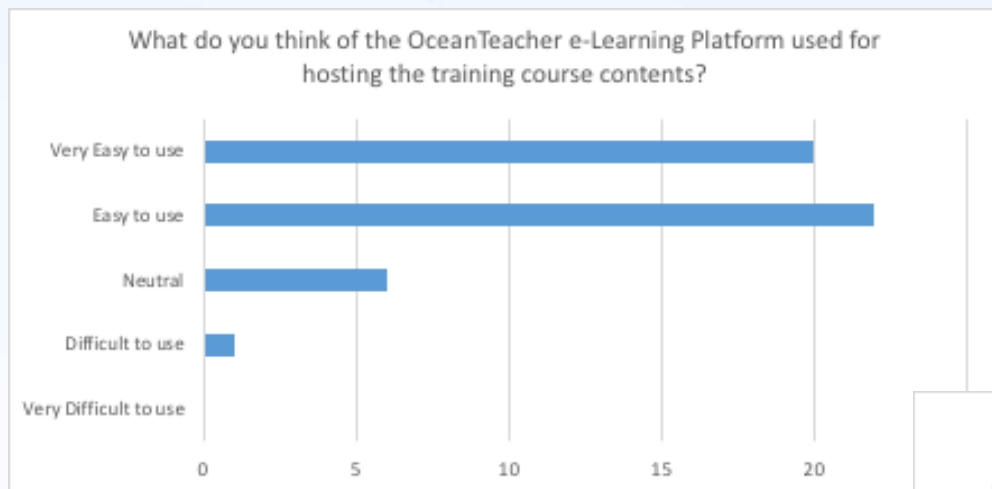


Venue & Local arrangements

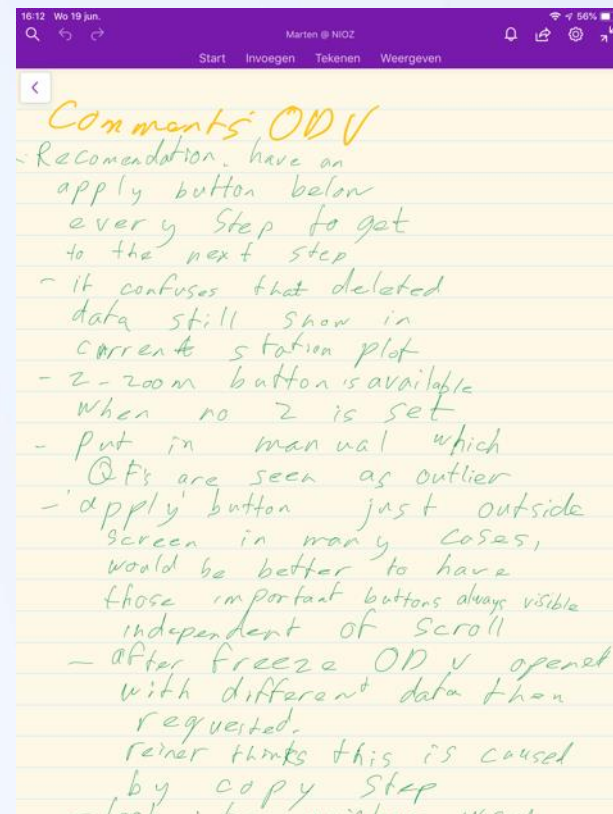
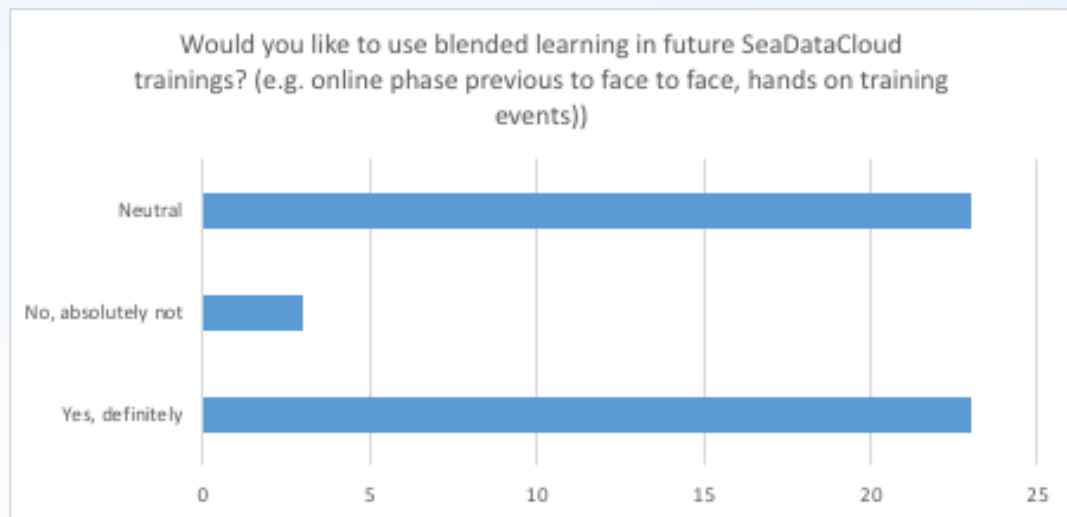
Quality of the services provided by and/or
outsourced to the IOC Project Office for IODE



Use of the OceanTeacher e-Learning Platform



Use of the OceanTeacher e-Learning Platform



4. Feedback survey review

- Some participants asked for more hands-on sessions (QC biological data, ERDDAP), more time to practice or smaller groups
- Remote training / trainers should be avoided
- Some participants regret that the training is focusing on a product still in development (VRE)
- Some participants says DIVA training needs more time, ran too fast, was more on Jupyter
- ODV and OCTOPUS files to be provided for exercises

5. Conclusions

- Training overall successful (95 % considered the training was good or very good!)
- Good to very good general organisation (registration process, announcements, agenda and venue facilities)
- For most of the trainees, expectations met and knowledge learned useful
- Long term access to training material and records of the training is appreciated
- 3/4 of the participants are still in favour of face-to-face workshops in the future. Remote training / trainers should be avoided

Questions?

