

Updated: 03 Mar 2022

Minutes

2022 UNOLS DeSSC Fall Meeting

A Community Meeting

Friday 25 Feb 2022

1PM Eastern

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1300 Welcome & Introductions - Andrew Thurber/OSU/ DeSSC Chair

1305 Agency and UNOLS reports (5min each)

- NSF Report - Brian Midson
slideshow available: https://www.unols.org/sites/default/files/202110_ap02_0.pdf
- ONR Report - Rob Sparrock
Recommended reading the French Seabed Initiative to understand the importance of the seabed exploration. Indicated the US feels similarly.
- NOAA Report - Rachel Medley
slideshow available: https://www.unols.org/sites/default/files/202110_ap03_0.pdf
- UNOLS Q&A - Alice Doyle
slideshow available: https://www.unols.org/sites/default/files/202110_ap04_0.pdf

1330 NDSF & RV ATLANTIS Operations

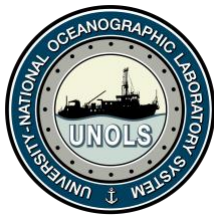
- Operations Summary - Korey Verhein/WHOI (5 min)
slideshow available: https://www.unols.org/sites/default/files/202110_ap05_0.pdf
- NDSF Scheduling Summary - Kerry Strom/WHOI (5 min)
slideshow available: https://www.unols.org/sites/default/files/202110_ap06_0.pdf
- DEIJ in the NDSF groups - Anna Michel and Micki Barboni/WHOI. (5 min)
slideshow available: https://www.unols.org/sites/default/files/202110_ap07_0.pdf
- Alvin SVC Update - Adam Soule/URI
The SVC was postponed due to the issues with HOV Alvin. The participant list was set but now due to the change in time, some participants might need to change. The group is still very committed to the SVC and verifying that HOV Alvin is scientifically ready to begin service.

1400 Break

1410 Deep Submergence Science Reports (8 min each, includes any questions in chat)

- Dan Fornari/WHOI - EPR Hydrothermal - ROV Jason/ AUV Sentry / RV THOMPSON
 - Shawn Arellano/WWU
slideshow available: https://www.unols.org/sites/default/files/202110_ap08_0.pdf
 - Jill McDermott /Lehigh
slideshow available: https://www.unols.org/sites/default/files/202110_ap09.pdf
- Craig Young/U Oregon - Seep Larval Dispersa - ROV Jason, AUV Sentry / RV THOMPSON
slideshow available: https://www.unols.org/sites/default/files/202110_ap10.pdf





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- Scott White/USCarolina - Stabilized Iron - AUV Sentry / RV REVELLE
slideshow available: https://www.unols.org/sites/default/files/202110_ap11_0.pdf
- Anna Michel/WHOI & Victoria Preston/MIT-WHOI - ROV Jason/ AUV Sentry / RV REVELLE
slideshow available: https://www.unols.org/sites/default/files/202110_ap12_0.pdf
- Deborah Kelley/UW - OOI Cabled Array + others - ROV Jason/RV THOMPSON (4 cruises)
slideshow available:

1500 Break

1510 NDSF Vehicle Post-Cruise Assessment Reports (5min each)

- **AUV Sentry** - Scott White / U of South Carolina (5min)
slideshow available: https://www.unols.org/sites/default/files/202110_ap14_0.pdf
Regarding the use of the Waveglider in conjunction with the AUV Sentry, the users felt it would be very useful to have two-way communication between the vehicles. On a cruise, the Sentry went off- course but the Waveglider did not indicate this so the dive was not successful.

David Caress felt it could be important to have a USBL beacon associated with AUV Sentry. Both the Waveglider and the Sentry are power limited, with the Waveglider being more so. A solution could be that the USBL head (which needs more power) is on the Sentry while a beacon is on the Waveglider, essentially the reverse of “normal” thinking. MBARI uses this set-up in their shallow AUVs. Deepwater would bring more challenges.

- **ROV Jason** - Andrew Thurber / OSU (5min) -
slideshow available: https://www.unols.org/sites/default/files/202110_ap15_0.pdf

1520 Alvin Updates & Return to Service - Andy Bowen/WHOI (20min)

slideshow available: https://www.unols.org/sites/default/files/202110_ap17_0.pdf

1545 ROV Operational Updates - Q&A

ROV Operators will provide a 5min pre-recorded presentation of operations for attendees to view prior to the meeting. Meeting attendees will use this time to ask questions of the ROV Operators

- Ocean Exploration Trust Operations – Allison Fundis/OET
slideshow available: https://www.unols.org/sites/default/files/202110_ap16_0.pdf
- ROV Lu’ukai – Max Cremer/U. Hawaii
slideshow available: https://www.unols.org/sites/default/files/202110_ap18_1.pdf
- ROV Subastian - Errol Campbell/Schmidt Ocean Institute
slideshow available: https://www.unols.org/sites/default/files/202110_ap19_1.pdf
- ROV Odysseus - Ed Cassano/Pelagic Research Services
slideshow available: https://www.unols.org/sites/default/files/202110_ap20_1.pdf





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- ROV Ropos – Keith Tamburri/Canadian Scientific Submersible Facility
slideshow available: https://www.unols.org/sites/default/files/202110_ap21_1.pdf
A question was asked about the drill head fabricated for ROPOS. There was some trial and error but in the end the drill head was able to drill. The current drill set-up was fabricated for a particular project. The ROPOS team would be interested in talking to anyone further about the current set-up and use for other projects. They would also be interested in talking about any other drill needs the community has.

1600 **Break**

1610 **Other DeSSC & Community Initiatives (8min each)**

- Fixed focus cameras and Imagery Training Update - Anna-Louise Reysenbach/PState & David Caress/MBARI

Discussion about the fact that currently this technology, although robust and useful, it is very labor intensive and the NDSF does not have time to process this imagery in addition to their current workload. It was recommended that users that would like to use fixed focus cameras work with the MISO group to get the resources (cameras, technical support) that are required.

It was mentioned that yes, the turnaround is a bit labor intensive BUT the tradeoffs (the fact that images are almost always in focus) could very well be worth it.

Dan Fornari, Andrew and David will have further conversations on this.

The DeSSC will host an Imagery Training on 12 and 19 April (2hours each day). This is being coordinated by Anna-Louise Reysenbach and will also include Evan Kovacs of Marine Imaging Technology. Items to cover include:

- Part 1: Overview of creating good images and Roles & Responsibilities
- Part 2: Will be more experiential looking at good and bad imagery and critiquing. Also an overview of what makes a good photograph from an artist's perspective v. a science perspective.
- Short videos for review at sea will be created as will "Cheat Sheets" for users
- Registration will be in early March

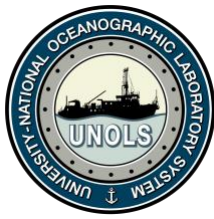
Adam Soule mentioned that the Cheat Sheet should include a reminder to QA/QC imagery while at sea.

- Waveglider Update - Andrew Thurber

The committee and NDSF are still working on a document in support of adding the Waveglider as a tool within NDSF. This would mean that the Waveglider could be requested in addition to an NDSF vehicle and not as its own entity. There was some concern that the Waveglider, in its current set-up with only 1-way communication is not ideal and may not be ready for regular operations.

Andrew Thurber, Anna Michel/NDSF Chief Scientist and the NSF will continue conversations.





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- Sentry Side-Scan data - David Caress/MBARI

slideshow available: https://www.unols.org/sites/default/files/202110_ap22_0.pdf

The processing of the sidescan data is very labor intensive. It seems unreasonable for NDSF to be tasked with processing this data with their current resources. David Caress outlined a few paths forward for further discussion.

Dan Fornari recognized that the processing is indeed labor intensive but that the data sets are incredibly useful not only for those onboard but for other PIs onshore. The data would be much easier to use and more accessible, if it was processed.

Adam Soule countered that there are a whole class of datasets that are not fully utilized and that the group should look at the cost implications to the dayrates.

Dan Fornari and the DeSSC will continue the conversation.

- U.S. Interridge participation - Ross Panell-Turner/SIO

slideshow available: https://www.unols.org/sites/default/files/202110_ap23_0.pdf

- COBRA Update - Julie Huber/WHOI

slideshow available: https://www.unols.org/sites/default/files/202110_ap24_0.pdf

Deb Kelley mentioned that it would be great if the different groups doing outreach could collaborate more in order to increase the audience.

Perhaps a workshop to bring these folks together, or a website (?)

DeSSC and the UNOLS office will discuss this further.

Someone mentioned that it would also be useful to simply document how to get NSF support for expanded bandwidth and then the best practices in using it.

DeSSC will discuss this further.

1650

Upcoming DeSSC Meetings

- 2022 New User program - Andrew Thurber/OSU
- 2022 Spring Meeting - Andrew Thurber/OSU

1700

Meeting adjourned

