



UNOLS Year in Review

UNOLS Office

2020 Annual Meeting – October 2020



UNOLS Year in Review

- **December 2019**

- AGU meeting – San Francisco
 - DeSSC Meeting
 - Deep Submergence New Users Meeting
 - MSROC Meeting
 - UNOLS Office supported R/V *Sally Ride* Open Houses as part of the AGU Centennial Celebration

- **January 2020**

- AICC Annual Meeting - Seattle
 - Recognition of HEALY's 20 years of supporting Arctic Science
 - Tours of R/V *Sikuliaq* & USCGC HEALY
- MFP Requirements Workshop with Developer - Maas Software Engineering (MSE)
- UNOLS Newsletter – Volume 34, No. 1



UNOLS Year in Review Cont'd

- **February**

- Ship Scheduling Committee – 2021 scheduling kickoff meeting at SIO
- Contract established with MSE for UNOLS MFP development

- **March**

- Keel Laying R/V *Gilbert R. Mason* – Houma, LA
- **Coronavirus Halts Science Operations**
 - 17 March – 30 Day Pause in Science Operations
 - UNOLS COVID-19 Web page developed
 - 30 March – Pause extended to ~ 1 July 2020
 - Online meetings with agencies and vessel operators
- R/V *Endeavor* returns to the U.S. from overseas deployment



UNOLS Year in Review Cont'd

- **April**
 - **Coronavirus Impact Continues**
 - 15 April – Initial UNOLS “Guidelines” promulgated
 - UNOLS establishes repository for COVID-19 related documents for use by vessel operators
 - UNOLS Office issues guidance for updating 2020 schedules with return to operations ~ 1 July
 - Prioritization of science
 - Risk assessments – focus on Low Risk cruises
 - Depart / Return to U.S. ports only
 - Conducted online meetings with PIs and UNOLS Operating Institution Directors
 - *R/V Thomas G. Thompson* returns to U.S. from overseas deployment
 - *R/V Atlantis* successful transit to shipyard for mid-life refit – first shipboard COVID-19 protocols document and Operator/Agency/UNOLS risk review
 - UNOLS Newsletter – Volume 34, No. 2



UNOLS Year in Review Cont'd

- **May**

- R/V *Marcus Langseth* returns to U.S. from overseas deployment
- R/V *Sikuliaq* successfully conducts 1st research cruise since the Pause – NGA LTER/Hopcroft. Preceded by UAF / Chief Scientist / NSF / UNOLS Risk Review
- R/V *Pelican* successfully conducts mooring cruise
- Other COVID-19 Related Activities
 - NSF / OCE held Town Hall Meetings
 - Virtual meeting – Agencies, Marine Superintendents & GW Maritime Medical
 - UNOLS Office virtual meetings with UW Medical & Discovery Health
 - Follow up virtual meeting with Marine Superintendents
- Completed shift of UNOLS Office IT Infrastructure
 - STRS moved to cloud-based computing – MS Azure
 - Moved to Google services – email, groups, calendar, drive, etc.
 - Closed out sub-award to University of Delaware
- AICC - Work with USCG Announcement reg. 2021 HEALY NWP & Baffin Bay Science of Opportunity. UNOLS posts notification seeking Letters of Interest from the Science Community



UNOLS Year in Review Cont'd

- **June**

- COVID Guidelines document further updated
- Jonathan Guttoff (Roger Williams University) named as Dennis Nixon's replacement in the UNOLS Risk Manager / Legal Advisor role upon Dennis' retirement at the end of 2020
- Conducted COVID-19 related Webinars
 - 2020 PIs for cruises that were scheduled on ARF vessels
 - Telepresence
- R/V *Neil Armstrong* successfully completes OOI cruise – the first of 4 successful cruises to the North Atlantic
- R/V *Atlantic Explorer* completes shipyard in Jacksonville & successfully conducts science on return trip to Bermuda
- AICC – Summer Meeting (Virtual)
- DeSSC – Annual Meeting (Virtual)
- Scheduling – restarted 2021 Cruise Planning Process via virtual meetings



UNOLS Year in Review Cont'd

- **July**

- Determination that remaining 2020 UNOLS meetings will be virtual
- UNOLS Return to Operations FAQs posted on website
- Conducted virtual Council Meetings
- Started ~ monthly Marine Superintendent Check-In virtual meetings
- UNOLS Office participation in the National Ocean Exploration Priorities in the Pacific workshops
- MSROC – Virtual Summer Meeting
- UNOLS Newsletter, Volume 34, No. 3
- NSF Announcement that Columbia University-LDEO would be purchasing R/V *Marcus Langseth* and ship operations will continue through 2024

- **August**

- RVSS Update – initial recommended changes by Safety Committee’s Jeff Garrett for upcoming 11th Edition
- RVTEC – developing virtual meeting format

- **September**

- Ship Scheduling - Major issues resolved - Posting 2021 Ship Schedules
- Revised Annual / Council / FIC meeting format to a series of 60-90 minute Webinars



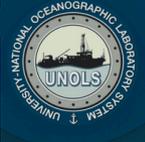
UNOLS Year in Review Cont'd

- **October**

- 72 cruises completed or in process since the restart of ARF science operations. Cruises vary in duration from 1 to 44 days
- First virtual UNOLS Annual Meeting
- Virtual RVTEC Meeting 26-30 October



MFP Update



MFP Marine Facilities Planning

[Request an account](#)

[About](#)

[Schedule](#)

Welcome to Marine Facilities Planning

This website allows scientists to request ship time on the vessels of the U.S. Academic Research Fleet.

Enter the system

[Forgot Password](#) [Login](#)





MFP Update Cont'd

MFP | Scientist Portal Doug Russell

HOME MY EQUIPMENT VOYAGES AND CRUISES WORKFLOWS MY PROFILE HELP & DOCUMENTATION

Hello Doug Russell,

Welcome to your personal UNOLS portal. Here you can apply for ship time and use of national marine facilities and/or pooled equipment. You can also manage your personal equipment.

To see an overview of the scheduled cruises have a look at the UNOLS [Schedules](#)

+ New Application v

Active Applications Archive ^



20/130 - TEST SME
[view workflow](#)

▲ The following requires your action:

- [Complete cruise request form](#)

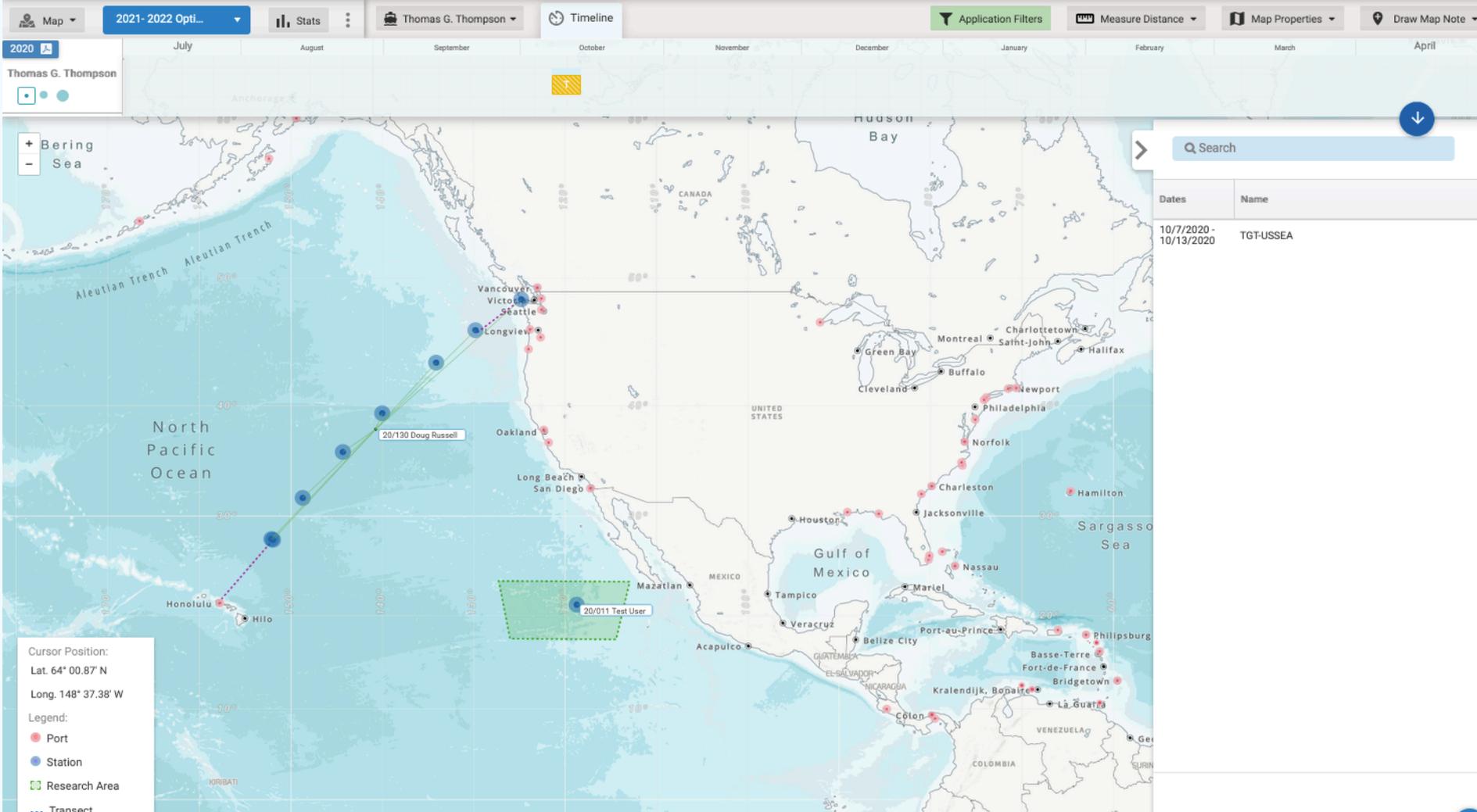
[Duplicate](#)



MFP Update Cont'd

MFP | UNOLS Schedule Construction

Doug Russell



October 2020

Annual Meeting



MFP Update Cont'd

Beiko Maas

File | Statistics | Link To MFP Application

LOCATION | STATION DETAILS | TIME TABLE

Total Time: **16d 19h** | Travel Time: **16d 10h** | Time at Stations: **0d 9h** | Total Distance: **3935nm**

Suggest Order | Export | Routing: ON

Seattle (Washington) - United States
(Lat:47° 36.48' N; Lon:-122° 20.61' W)

Order/Type	Station Meta	Ship Speed	Time Needed
	706.32 NM get route	10 knots	2d 22h 38m
1	Sampling Station - 2	-	0d 0h 45m
↓	375.53 NM get route	10 knots	1d 13h 33m
2	Sampling Station - 6	-	0d 0h 45m
↓	242.74 NM get route	10 knots	1d 0h 16m
3	Sampling Station - 4	-	0d 0h 45m
↓	164.38 NM get route	10 knots	0d 16h 26m
4	Sampling Station - 1	-	0d 0h 45m
↓	88.83 NM get route	10 knots	0d 8h 53m
5	Sampling Station - 8	-	0d 0h 45m
↓	85.43 NM get route	10 knots	0d 8h 33m
6	Sampling Station - 3	-	0d 0h 45m
↓	150.40 NM get route	10 knots	0d 15h 2m
7	Sampling Station - 9	-	0d 0h 45m
↓	48.38 NM get route	10 knots	0d 4h 50m
8	Sampling Station - 5	-	0d 0h 45m
↓	346.97 NM get route	10 knots	1d 10h 42m
	Honolulu (Hawaii) - United States (Lat:21° 17.02' N; Lon:-157° 48.02' W)		

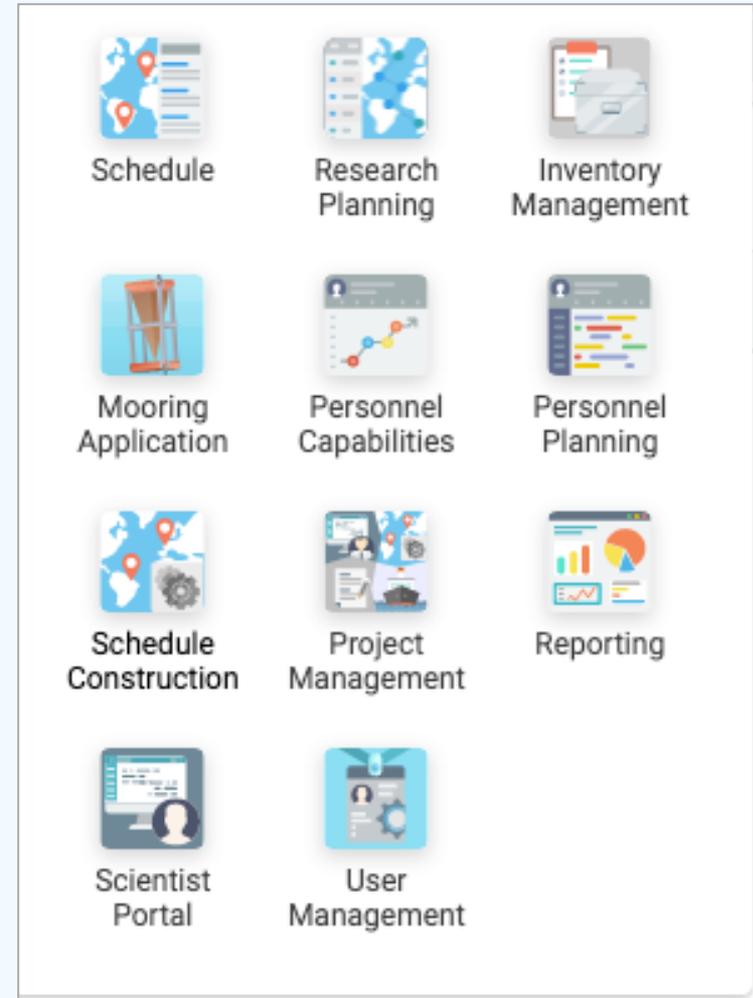
North Pacific Ocean

Map Options:
Base Layer: GEBCO Grid
Show on Map:
 EEZ
 MPA
[+ Add More](#)



MFP Update Cont'd

- This shows you the functions that are available
- Architecture adapted to support incorporation of additional U.S. entities (i.e. USCG) that could share appropriate data and utilizes similar modules & processes that are customized to the user's needs
- Current Status
 - Finalizing SME (Scientist Module)
 - Starting to test Schedule Construction module
 - UNOLS Office loaded many 2019 STRs so we can assemble them into schedules using MFP
 - Transitioning essential data from STRS to MFP
 - Funding sources
 - Organizational info
 - Developing generic PM Workflow to use as a starting point for the system
 - Developing a General Intro to the system & its capabilities in the next few weeks
 - Coordinating a demo of the Inventory Management module for RVTEC by the developer





MFP Next Steps

- Further Schedule Construction module development
- Test Schedule Construction
 - Initially with UNOLS Office
 - Incorporate changes
 - Bring in Several UNOLS Schedulers
 - Incorporate changes
 - Roll out Scheduling to UNOLS Schedulers
 - Customization for each operator - generally along Big Ship & Smaller Ship class lines
 - Develop 2022 Schedules in MFP
- Further develop Project Management & Inventory Management Modules so they can support cruise planning as well as vehicle / equipment / science van management