



2019/2020 Scheduling Process

Doug Russell
2019 Annual Meeting
Hilton Old Town Alexandria

21-22 Nov 2019

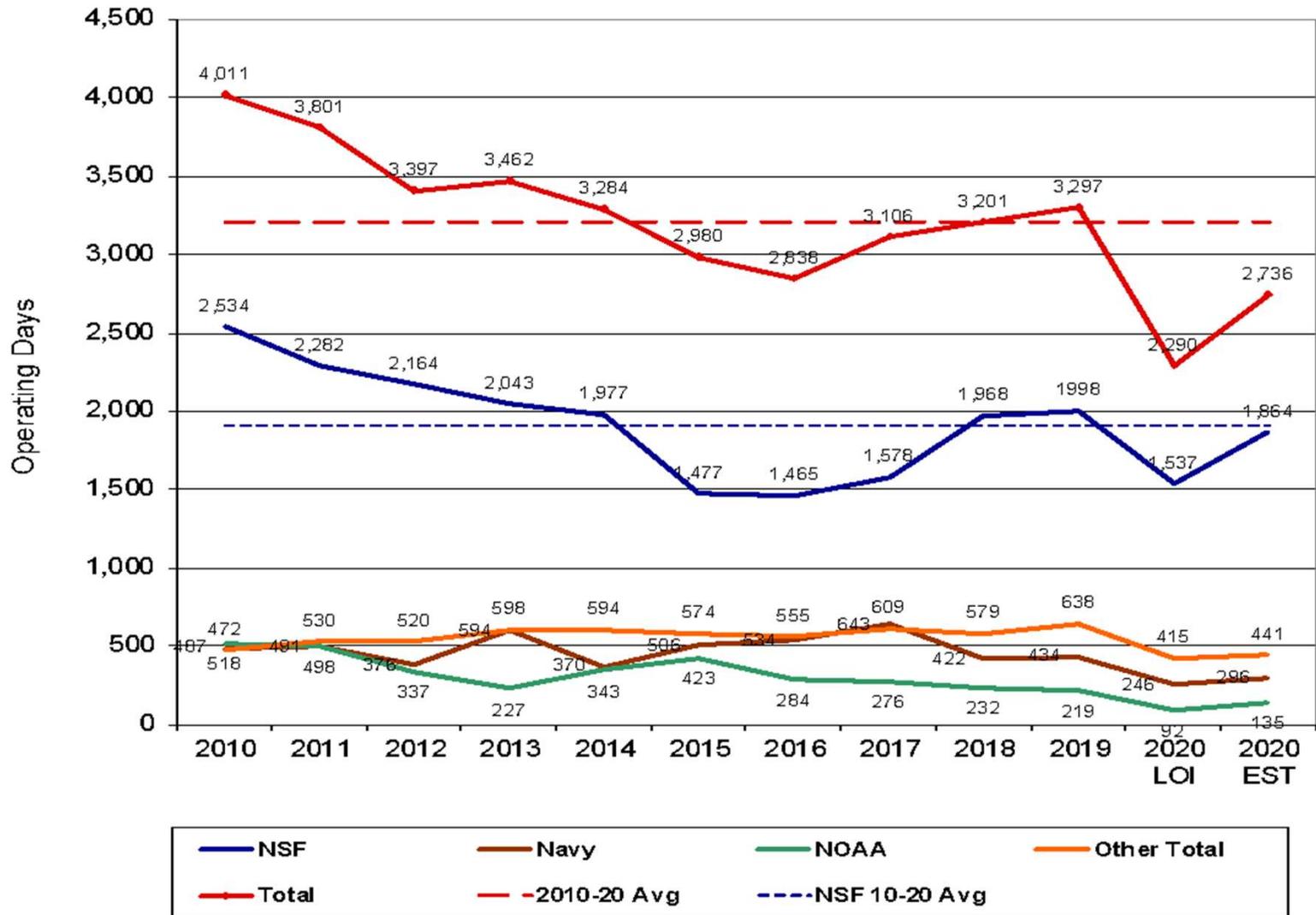


2020 Ship Scheduling

- Scheduling Meetings
 - In person at Seattle – 22 May – Ship Scheduling Committee, NSF, ONR, NOAA, OOI, OBSIC
 - Teleconferences – 12 June, 17 June, 27 June, 23 July, 29 Aug, & 5 Sept
- Most schedules finalized in September. A few lingering issues kept several other schedules from being finalized until October.
- Challenges / Issues of Note
 - *Roger Revelle* finishing up mid-life, *Atlantis* starting mid-life
 - High demand for ROVs
 - Last year of Oceanus operations

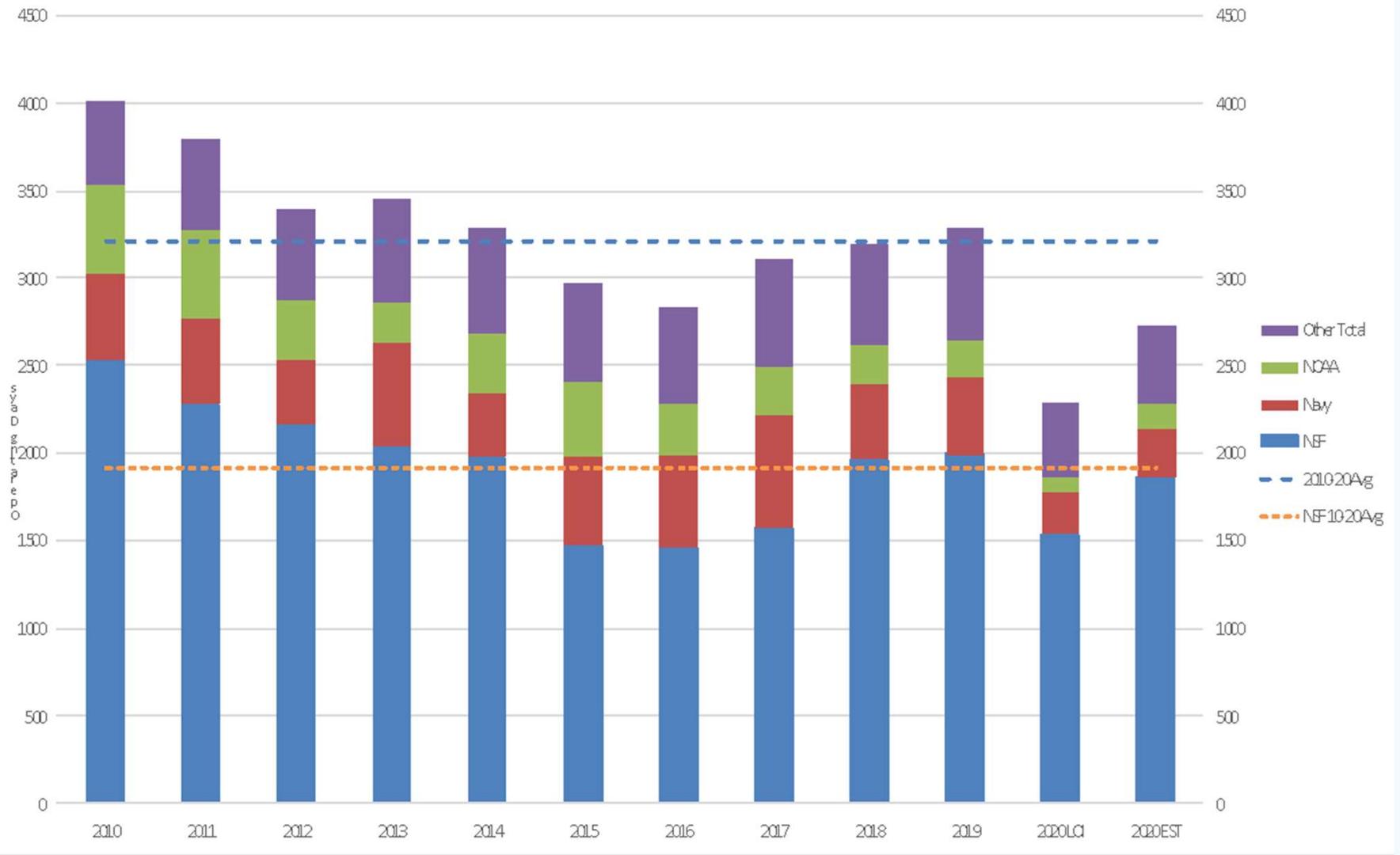


UNOLS Fleet Utilization (2010 - 2020)



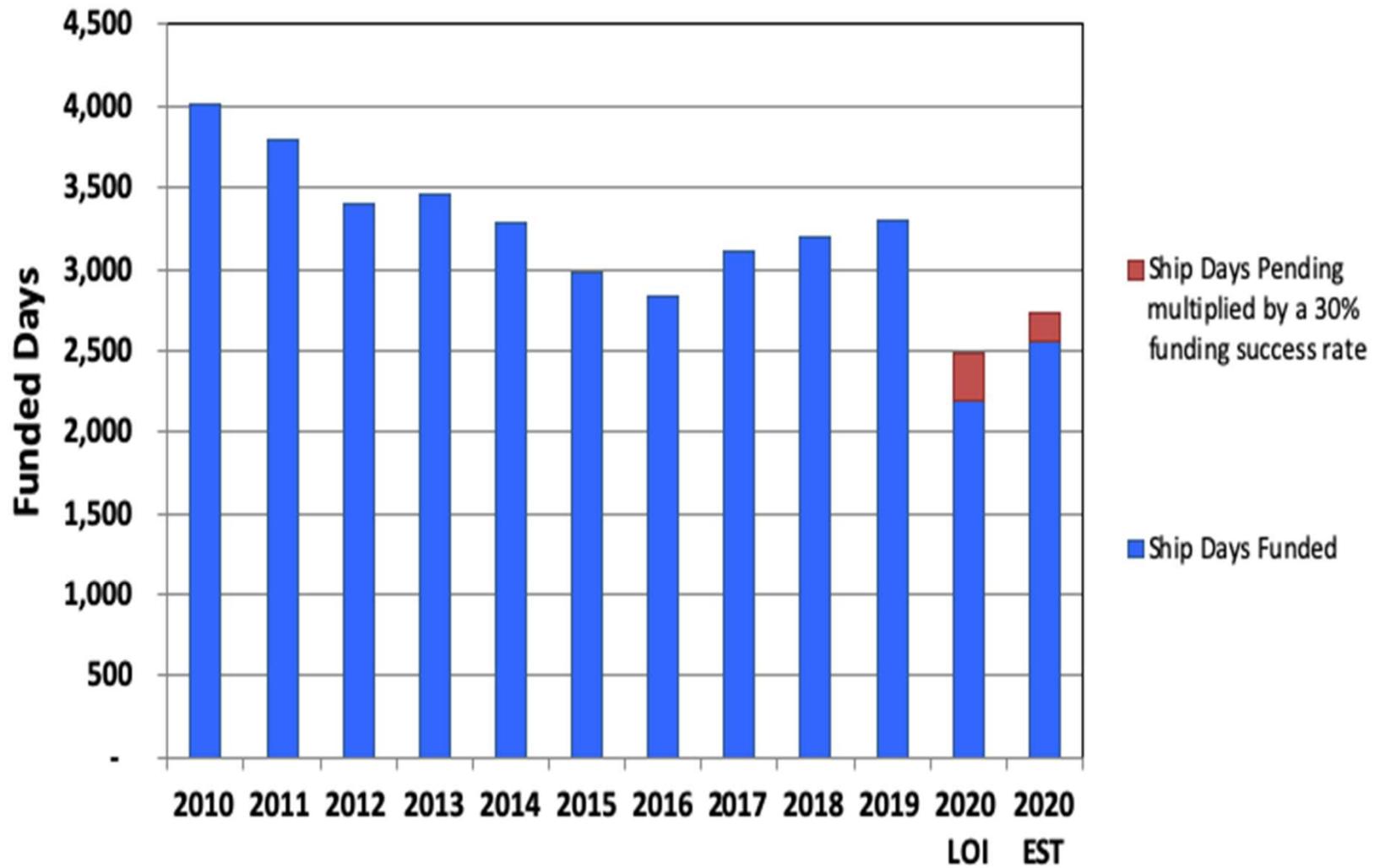


US ARF Vessel Utilization by Agency - 2010-2020



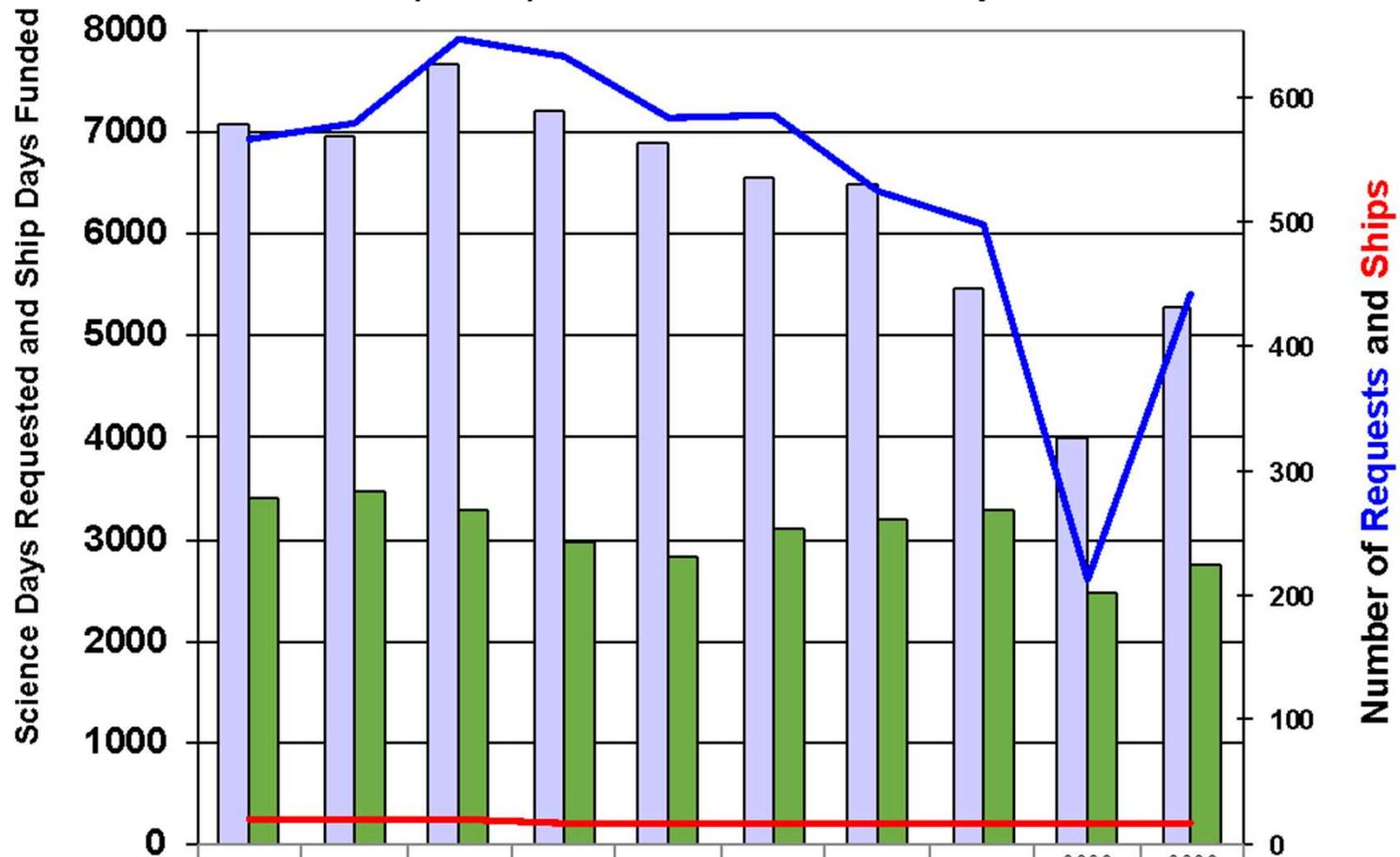


Fleet Operating Days





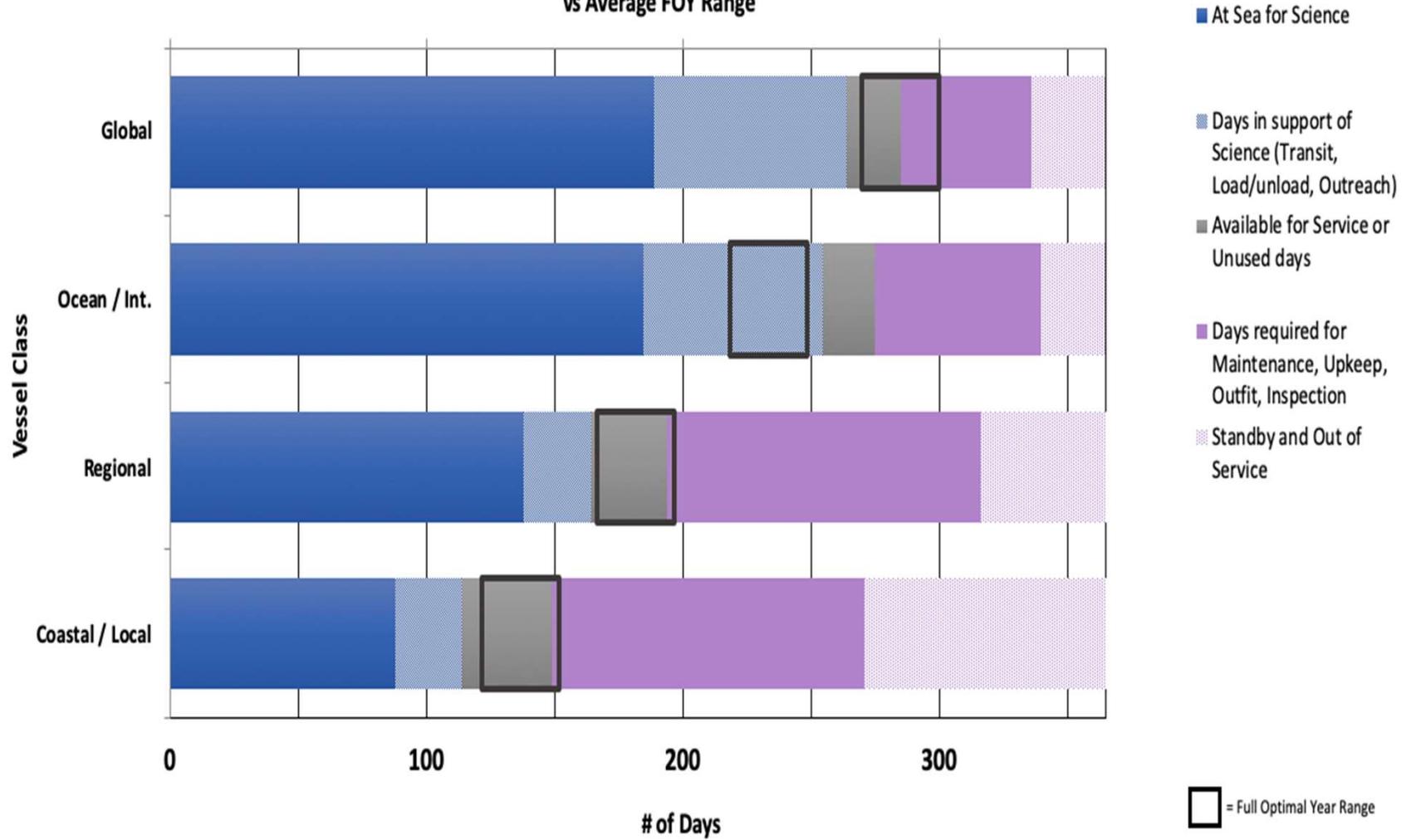
Ship Requests and Funded Days



| | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 LOI (May19) | 2020 EST (Nov19) |
|-----------------------|------|------|------|------|------|------|------|------|------------------------|------------------------|
| Days Requested | 7056 | 6942 | 7648 | 7210 | 6877 | 6543 | 6482 | 5462 | 3992 | 5281 |
| Ship Days Funded | 3397 | 3462 | 3284 | 2980 | 2838 | 3106 | 3201 | 3297 | 2482 | 2736 |
| # of Requests | 568 | 581 | 646 | 633 | 583 | 585 | 524 | 498 | 213 | 444 |
| # of Ships in Service | 20 | 20 | 20 | 17 | 18 | 18 | 18 | 18 | 18 | 18 |

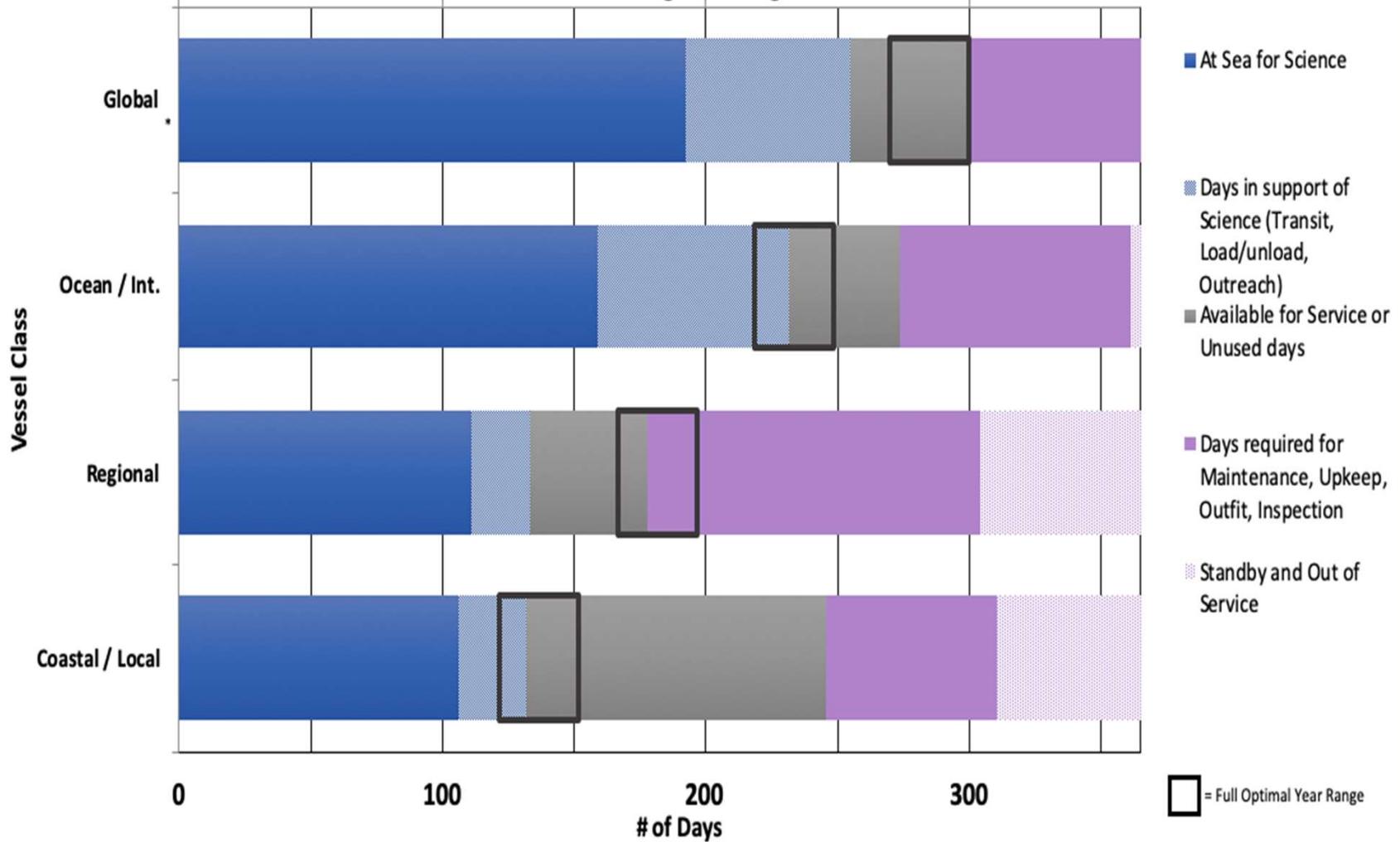


2018
Average Days per Activity by Ship Class
vs Average FOY Range





2019
Average Days per Activity by Ship Class
vs Average FOY Range



*Does not include RV REVELLE as this vessel was in mid-life refit for most of the year



2019 UNOLS Year in Review

Doug Russell
2019 Annual Meeting
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UNOLS 2019 Office Year in Review

- **January**
 - New UNOLS Office team met with the URI Team at GSO
- **March**
 - FIC & Council Meeting at URI
 - Salute to the URI UNOLS Office Team
 - UNOLS supported the Marine Seismic Workshop at NSF
- **April**
 - AICC Winter Meeting via Webex
 - RVOOC & Safety Committee Meetings at SIO (70 participants)





UNOLS Office Year in Review

• **May**

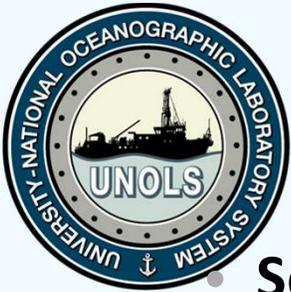
- New UW UNOLS Office on-line
- UW issued new contract with GW-Maritime Medical Services for support to ships
- Keel Laying for R/V *Resolution*
- Ship Scheduling Meeting at UNOLS Office
- DeSSC Spring Meeting at WHOI

• **June**

- Chief Scientist Training Workshop – R/V *Kilo Moana*
- Chief Scientist Training Workshop – R/V *Blue Heron*

• **August**

- Summer Council Meeting teleconference



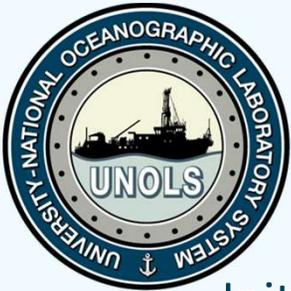
UNOLS Office Year in Review

- **September**
 - AICC Summer teleconference
- **October**
 - RVTEC Meeting at UAF (112 participants)
 - OBSIC-OS First Meeting at WHOI
- **November**
 - FIC Meeting
 - Council & Annual Meeting
- **December**
 - Winter DeSSC Meeting – AGU San Francisco
 - MSROC Annual Meeting - AGU San Francisco



STRS & PCAR Replacement

- **Marine Facilities Planning (MFP)** – see <https://maas-se.nl/mfp/>
 - Developed for NIOZ & NERC, since implemented for GEOMAR, being implemented by CSIRO
 - Modular, Cloud Based system that supports in integrated fashion:
 - Scheduling
 - Cruise Planning
 - Route Planning
 - Post Cruise Assessment
 - Equipment management
 - Supply management
 - Crew resource management
 - And more!
 - Development & Implementation supported by NSF & ONR



MFP Continued

- Initial meeting on 12 Nov with Beiko Maas of Maas Software Engineering (MSE – Groningen, NL) who developed & supports system
- Proposal submitted for requirements definition workshop in January 2020 in Seattle w/MSE
 - This will lead to fully understanding scope of effort => assemble cost & schedule estimate plus development/implementation plan
- Based on initial discussions – belief that system could be developed & implemented within a year
 - Many of the building blocks already developed & in use
 - What we do is very similar to other operators – just a bigger fleet & multiple operators involved.
 - It's more about understanding UNOLS processes & then integrating existing/new blocks to support necessary processes
- Target: Support 2022 scheduling process



MFP – see <https://maas-se.nl/mfp/>



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Groningen
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The Marine Facilities Planning system (MFP) is a NIOZ/NERC software development collaboration designed to integrate the different aspects of equipment management and ship programming, to streamline and integrate the process of delivering science cruises.

The MFP comprises a number of different modules designed to work as an integrated system or used as independent modules. The integrated system can be used as a complete system for voyage planning, equipment management, and cruise project delivery. Its modular design is able to be adjusted to each organisations specific requirements and scope of operation from large Global Class fleets to single regional vessels.

The MFP is available for use by other institutions and organisations internationally and we would be pleased to discuss your requirements and interest in accessing the system





RVSS Update

- RVSS is now 4 years old and due for a refresh
- Working with Safety Committee Chair Jeff Garrett on a rewrite/refresh plan
- Examples of some key areas that require attention:
 - **Chartering non-UNOLS Vessels / Chapter 18**
 - Draft of new guidance submitted for concurrence
 - **Aviation Operations / Chapter 19**
 - UAS Guidelines
 - No Helicopter capable ships
 - **Rope & Cable Standards / Appendix A**
 - Synthetic line?



UNOLS Calendar

- **2019**

- 7 Dec - DeSSC New Users Workshop – AGU San Francisco
- 8 Dec - Winter DeSSC Meeting – AGU San Francisco
- 8 Dec - MSROC Annual Meeting - AGU San Francisco

- **2020**

- 15-16 Jan - AICC Winter Meeting – USCG Base Seattle
- Feb-Mar – 2021 Ship Scheduling Initial Meeting – location tbd
- 28-30 Apr – RVOC – RSMAS Miami, FL
- 10 June – Chief Scientist Training Workshop – R/V *Endeavor*
- Sept – SCOAR Annual Meeting
- Oct – RVTEC



UNOLS Office & Social Media



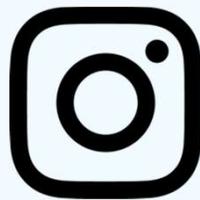
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