

Updated: 13Oct21

UNOLS 2021 Annual Meeting

3 November 2021

Pre-meeting Read Ahead

All times are in Eastern Standard Time

Wednesday, 3 November 2021

Instrumentation & Featured Speaker: U.S. Decade of Ocean Science

1600 Welcome - Dennis Hansell

1605 Rolling Deck to Repository (R2R) Update

The Rolling Deck to Repository (R2R) program provides fleet-wide management of underway data to ensure preservation of, and access to, our national oceanographic research assets. R2R catalogs and submits the underway environmental sensor data routinely acquired on research expeditions to long-term public archives, including the NOAA National Centers for Environmental Information (NCEI). Data from each cruise are submitted directly to R2R by the vessel operator, rather than by the science party.

R2R provides essential documentation and standard products for each expedition, as well as tools to document shipboard data acquisition activities while underway. Post-cruise quality assessment of selected underway data types is provided, designed to evaluate the completeness of data and data documentation and to provide measures of instrument operation. Assessment of underway meteorological data is implemented in near-real-time in partnership with the SAMOS program at FSU.



R2R's 2019 highlights can be found in their 2019 Annual Meeting presentation [here](#).

The R2R's 2020 presentation, which provides details of their facility can be found here: [R2R's 2020 Presentation](#)

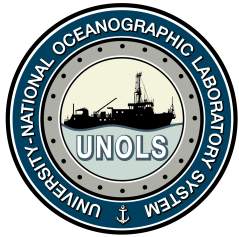
A recording of the presentation can be found here: [2020 Recording](#)

1615 Multibeam Advisory Committee (MAC) Update

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The Multibeam Advisory Committee (MAC) is a community-based effort with the goal of ensuring consistent high-quality multibeam data are collected across the U.S. Academic Research Fleet. MAC's strategy is to create a community of stakeholders including representatives from operating institutions, funding agencies, and key outside experts from the user and technical/engineering communities that can assist in providing guidance on a broad array of multibeam issues.

While MAC technical team activities are currently focused on deep water systems in the US Academic Research Fleet (ARF), the MAC recognizes that the community of stakeholders also includes operators and users of shallow-water systems. One of our primary goals is to facilitate the exchange of technical knowledge to promote the optimal performance of multibeam sonar systems used throughout the US Academic Research Community.

The Multibeam Advisory Committee (MAC) was established in Fall 2011. It is co-chaired by: Vicki Ferrini (LDEO) and Paul Johnson (UNH).

MAC's 2019 highlights can be found in their 2019 presentation to RVTEC [here](#).

The MAC's 2020 presentation, which provides details of their facility can be found here: [Multibeam Advisory Committee \(MAC\) 2020 Presentation](#)

A recording of the presentation can be found here: [2020 Recording](#)

1625 Acoustic Doppler Current Profiler (ADCP) Program Update

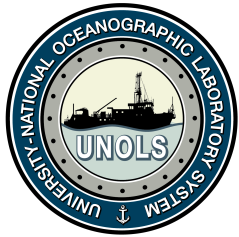
The UH Currents Group within SOEST (School of Ocean and Earth Science and Technology) at the University of Hawaii specializes in ocean current measurements, primarily using shipboard ADCPs (Acoustic Doppler Current Profilers). They develop Open Source Software centered on UHDAS; use it to acquire, process, and serve datasets to scientists at sea; provide services to the international oceanographic community; and conduct research. Daily monitoring of automated emails keeps systems calibrated and aids in troubleshooting. A list of the UHDAS installations supported by the Currents program can be found on this [monitoring page](#).

Technical highlights from the UH Currents program can be found in their 2019 RVTEC presentation [here](#).

The 2020 presentation, which provides details of their facility can be found here: [UH ADCP 2020 Presentation](#)

A recording of the presentation can be found here: [2020 Recording](#)





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1635 | Featured Speaker: Larry Mayer: US Decade of Ocean Science - Goals & Activities

Dr. Larry Mayer, Director of the Center for Coastal Mapping at the University of New Hampshire and Chair of the U.S. National Committee for the Decade of Ocean Science for Sustainable Development.



Dr. Larry Mayer is a professor and first Director of the newly established School of Marine Science and Ocean Engineering at the University of New Hampshire. He is also the Director of the Center for Coastal and Ocean Mapping and the co-director of the NOAA/UNH Joint Hydrographic Center at the University of New Hampshire.

He received a Ph.D. from the Scripps Institution of Oceanography in Marine Geophysics in 1979. After being selected as an astronaut candidate finalist for NASA's first class of mission specialists, Larry went on to a

Post-Doc at the School of Oceanography at the University of Rhode Island where he worked on the early development of the Chirp Sonar and problems of deep-sea sediment transport and paleoceanography. In 2000 , Larry became the founding director of the Center for Coastal and Ocean Mapping at the University of New Hampshire and the co-director of the NOAA/UNH Joint Hydrographic Center. Larry has participated in more than 90 cruises (over 75 months at sea!) during the last 35 years, and has been chief or co-chief scientist of numerous expeditions including two legs of the Ocean Drilling Program and ten mapping expeditions in the ice covered regions of the high Arctic.

He is the recipient of the Keen Medal for Marine Geology, an Honorary Doctorate from the University of Stockholm and the State Department's Superior Honor Award. He was a member of the President's Panel on Ocean Exploration, National Science Foundation's Advisory Committee for the Geosciences, and chaired two National Academy of Science Committees, one on national needs for coastal mapping and charting and one on the impact of the Deepwater Horizon Spill on ecosystem services in the Gulf of Mexico.

