

Virtual Public Meeting Agenda – Fall 2021*

NOAA Hydrographic Services Review Panel

Federal Advisory Committee

Wednesday, September 1: 12:45-5:30pm EDT

Thursday, September 2: 1-5:30pm EDT

*Topics, times and speakers are subject to change. Please refer to the website for the most updated agenda.

WEBINAR link: <https://register.gotowebinar.com/register/5627376790601178124>

HSRP meeting materials: <https://www.nauticalcharts.noaa.gov/hsrp/meetings.html>

Wednesday, September 1, 2021, 12:45-5:30pm EDT

12:45 – 1:15 *HSRP Panel Member Welcome, Introductions and Roll Call - alpha order*

- **Julie Thomas**, HSRP Chair - HSRP members provide name, title, organization, location

1:15 – 2:00 *Opening Session and Welcome Remarks*

- **Julie Thomas**, HSRP Chair
- **Senator Sheldon Whitehouse**, United States Senator for Rhode Island (via video)
- **Dr. Richard Spinrad**, Under Secretary of Commerce for Oceans and Atmosphere and NOAA Administrator
- **John Nyberg**, Deputy Hydrographer, Office of Coast Survey (OCS), National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA), and HSRP Designated Federal Officer
- **Nicole R. LeBoeuf**, Assistant Administrator, NOS, NOAA
- **Mark S. Osler**, Senior Advisor for Coastal Inundation and Resilience Science and Services NOS, NOAA

2:00 – 3:00 *Updates: Opportunities, Challenges and Priorities for NOS's Navigation Services Portfolio*

Moderator: **Julie Thomas**, HSRP Chair

Directors address NOAA's navigation services portfolio in support of "seamless data" including the data to support planning for resilience to climate change. Updates on topics such as: scientific seafloor mapping research; National Spatial Reference System (NSRS) modernization efforts; and the plans to address and implement two ocean and coastal mapping strategies – the Alaska Coastal Mapping Strategy (ACMS) and the "Establishing a

National Strategy for Mapping, Exploring, and Characterizing the U.S. EEZ” (NOMECE), including the Standard Ocean Mapping Protocol (SOMP); and other navigation, positioning and observation topics.

- **Capt. (NOAA, ret.) Andy Armstrong**, Co-Director, NOAA-UNH Joint Hydrographic Center (JHC), University of New Hampshire (UNH)

Research themes for the new FY21-2025 NOAA-UNH Cooperative Agreement for scientific seafloor mapping research at the NOAA-UNH JHC.

- **John Nyberg**, Deputy Hydrographer, OCS, NOS, NOAA

“OCS’s FY21 Accomplishments and Priorities for FY22”.

Update on the Standard Ocean Mapping Protocol (SOMP), Precision Marine Navigation, improvements to the Electronic Navigational Charts and RASTER chart sunsetting, and highlights of OCS priorities and programs.

- **Juliana Blackwell**, Director, National Geodetic Survey (NGS)

“NGS’s FY21 Accomplishments and Priorities for FY22”.

Update on the modernization of the National Spatial Reference System, Coastal Mapping Program activities, the Alaska Coastal Mapping Strategy implementation plans, and program highlights for FY21-22.

- **Richard Edwing**, Director, Center for Operational Oceanographic Products and Services (CO-OPS), NOS, NOAA

“CO-OPS FY21 Accomplishments and FY22 Look Forward”.

An overview of recent FY21 accomplishments for navigation safety, coastal resilience and inundation products and services, and future milestones for FY22.

- Discussion with the HSRP members

3:00 – 3:10 Break

3:10 – 4:50 Offshore Wind Energy and Ocean Mapping: A Paradigm for Geoscience Data and Information Sharing

Moderators: **Deanne Hargrave**, HSRP member, **Ed Saade**, HSRP member, and **Ashley Chappell**, IOCM Program Manager, NOS/NOAA

Offshore wind energy has the potential to transform renewable energy development, as well as ocean mapping with data sharing along the way. The session will focus on geoscience data needs and opportunities for data collection and sharing. Attendees will gain a perspective on the future for renewable energy technologies and applications beneficial to the blue economy and supporting climate change adaptation.

Opening remarks: **Nicole R. LeBoeuf**, Assistant Administrator, NOS, NOAA

- **Mary Boatman, Ph.D.**, Science Coordinator, Office of Renewable Energy Programs, Bureau of Ocean Energy Management
“Overview of the BOEM Renewable Energy Program and Current Activities”.
This presentation provides background and current activities about offshore wind on the outer continental shelf along the Atlantic Coast.
 - **Deanne Hargrave**, HSRP member, Geoscience Manager, Atlantic Shores Offshore Wind LLC
“The Role of Geoscience in Offshore Wind Development”. The exciting world of geoscience plays a huge role in offshore wind development, this presentation will give a preview into the types of data that are being acquired and how this wealth of information can be leveraged.
 - **Ruth Perry, Ph.D.**, Business Environment Advisor, Offshore Wind Americas, Shell Renewables and Energy Solutions
“An Integrated Renewable Energy Basic Outlook”. Shell Renewables & Energy Solutions will present on how offshore is part of broader integrated energy strategy for Shell, and more broadly how offshore wind can contribute to the growing U.S. Blue Economy.
 - **Elizabeth Dewing Andrews, Ph.D.**, Lead Geophysicist, Ørsted Offshore North America
“The Future Together”. Dr. Andrews discusses the new Memorandum of Agreement between NOAA and Ørsted, how a connected blue economy can be powered by offshore wind energy and data, and opens the discussion on opportunities to consider, collect, and leverage data going forward.
 - **HSRP member discussion**
- 4:50 – 5:00** *Public Comment Period – audience comments for the HSRP are welcome*
- 5:00 – 5:30** *Recap & Round Robin with HSRP members and NOAA leadership*
- **Sean M. Duffy, Sr.**, HSRP Co-Chair
An around the room with the HSRP members and NOAA leadership to provide a short meeting recap: review and summarize key meeting topics; and request topics to develop the NOAA recommendation letter.
 - **Julie Thomas and John Nyberg**, closing comments and end of day 1 of the meeting
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Thursday, September 2, 2021, 1-5:30pm EDT

1:00 – 2:00 *Round robin recap from day 1; HSRP discussion continues*

- **Julie Thomas**, HSRP Chair, around the room recap with HSRP members, NOS and NOAA
- **John Nyberg**, Deputy Hydrographer, OCS, NOS, NOAA and DFO

2:00 – 3:30 *Technology in Support of Shallow Water Surveys in Under 40 Meters and the Blue Economy*

Moderators: **Mr. Ed Saade**, HSRP member, and **Capt. (NOAA, ret.) Andy Armstrong**, Co-Director, NOAA-University of New Hampshire Joint Hydrographic Center

NOS works on coastal and ocean surveys to support a wide range of programs and projects to broaden the scientific knowledge and to increase existing and emerging coastal, social and ecological sustainability and hydrographic issues. New technology and frameworks are needed to generate products supporting resilient communities and promote coastal economies in areas such as Satellite Derived Bathymetry (SDB), Lidar and Multi-beam surveys.

- **Richard Stumpf, Ph.D.**, Oceanographer, National Centers for Coastal Ocean Science, Stressor Detection And Impacts Division, NOS, NOAA
“Satellite Derived Bathymetry: What SDB can offer for coastal mapping”. SDB can complement high accuracy bathymetric methods (like lidar) by providing rapid and repetitive estimates of shallow bathymetry for reconnaissance, mission planning, mapping of remote areas, assessing storm impacts, and monitoring of areas with dynamic bathymetry.
- **Carol Lockhart**, Vice President and Chief Hydrographer, Woolpert, Inc.
“Lidar Bathymetry Technology Overview”. The organizational process, and benefits, of a multi-sensor approach to efficiently map of 0 to 40m, using SDB, Lidar, and Multibeam.
- **Duncan Mallace**, Chief Strategy Officer, XOcean
“Optimizing shallow water survey operations using Uncrewed Surface Vessels”. This presentation will show how XOCEAN has optimized shallow water hydrographic surveys, over-the-horizon, using multiple USVs.
- Commenters:
 - **Capt. (US Navy, Ret.) Brian Cannon**, Vice President for Ocean Mapping, Saildrone
 - **CDR Briana Welton Hillstrom**, Chief, Hydrographic Services Division, OCS, NOS, NOAA
 - **Ed Saade**, HSRP member, Group Director Americas, President USA, Fugro Inc.
- Discussion with the HSRP members

3:30 – 3:40 *Public Comment Period – audience comments for the HSRP are welcome*

3:40 – 3:50 *Break*

3:50 – 4:30 *HSRP Discussion: HSRP Priorities, Issue Papers, Working Groups, other*

Moderator: **Julie Thomas**, HSRP Co-Chair

- **Dr. Qassim Abdullah, Capt. Anuj Chopra, Deanne Hargrave**, C-Chairs, HSRP Technical Working Group
- **Dr. Dave Maune and Julie Thomas**, Co-Chairs, HSRP Planning and Engagement working group – walk through and HSRP discussion on past issue papers and possible updates
- **Julie Thomas**, presentation of the HSRP priorities matrix and member discussion

4:30 – 5:30 *Meeting Recap & Round Robin with HSRP Members, Letter, and Wrap Up*

- **Julie Thomas and Sean M. Duffy, Sr.**, HSRP Co-Chairs, HSRP discussion
 - **Sean M. Duffy, Sr.**, HSRP Co-Chair
An around the room with the members and NOAA leadership to provide a two day meeting recap: review and summarize key meeting topics; develop the NOAA recommendation letter; topics for next meetings; and any other topics for discussion;
 - **Julie Thomas and John Nyberg**, final closing comments and end of the meeting
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