

**NOAA HSRP HSRP Public Meeting Agenda - 3 day meeting cheat sheet**

To receive meeting updates, email: [Virginia.Dentler@noaa.gov](mailto:Virginia.Dentler@noaa.gov), [Lynne.Mersfelder@noaa.gov](mailto:Lynne.Mersfelder@noaa.gov)

HSRP WEBINAR: <https://attendee.gotowebinar.com/register/7384771285594719747>

HSRP WEBSITE: <https://www.nauticalcharts.noaa.gov/hsrp/meetings.htm>

<https://www.nauticalcharts.noaa.gov/hsrp/hsrp.htm>

*\*ALL topics, times, speakers are subject to change; all times are Central Daylight Time (CDT)*

Tuesday, Aug 27	Wednesday, Aug 28	Thursday, Aug 29
<ul style="list-style-type: none"> <li>- <b>9am Opening</b></li> <li>- NOAA and NOS leadership</li> <li>- USACE, USCG, Lt. Governor, Port of New Orleans welcome</li> <li>- <b>10:45am Special session:</b> Precision Navigation</li> </ul>	<ul style="list-style-type: none"> <li>- <b>8:30am Recap on prior day</b></li> <li>- Working Group updates: discuss OCS strategic plan and issue papers</li> <li>- <b>Special session:</b> Unmanned Systems</li> <li>- <b>Public comment period</b></li> </ul>	<ul style="list-style-type: none"> <li>- <b>8:30am Recap on prior day</b></li> <li>- NSRS</li> <li>- <b>10am Special session:</b> Addressing Subsidence and SLR Challenges</li> <li>- <b>Public comment period</b></li> </ul>
<p>12-1:30 LUNCH ON YOUR OWN (HSRP members - WORKING LUNCH)</p>	<p>11:45-1 LUNCH ON YOUR OWN (HSRP members - WORKING LUNCH)</p>	<p>12-1 LUNCH ON YOUR OWN (HSRP members - WORKING LUNCH)</p>
<ul style="list-style-type: none"> <li>- <b>1:30pm Special session:</b> Stakeholder session</li> <li>- <b>Public comment period</b></li> <li>- 3:30pm NOS Tri-Office Director priorities,</li> <li>- Vdatum</li> <li>- HSRP working group discussion and issue papers</li> <li>- <b>5:30pm Meeting concludes</b></li> </ul> <hr/> <p><b>SPECIAL EVENT:</b></p> <ul style="list-style-type: none"> <li>- <b>5:30pm Gulf Coast Ocean Observing System (GCOOS):</b> High Frequency Radars dedication</li> </ul>	<ul style="list-style-type: none"> <li>- 1pm HSRP working group(s) discussion and issue papers</li> <li>- <b>2:30pm Meeting concludes</b></li> </ul> <hr/>	<ul style="list-style-type: none"> <li>- 1-4pm HSRP working group discussions, issue papers, and priorities: Planning and Engagement, Tech, and Arctic working groups</li> <li>- Small group discussion on issue papers, recommendation letter, OCS strategic plan</li> <li>- HSRP recommendations and letter</li> <li>- Meeting wrap up</li> <li>- <b>4:30pm Meeting concludes</b></li> </ul> <hr/>

## NOAA Hydrographic Services Review Panel

Public Meeting, New Orleans, LA, August 27-29, 2019

HSRP Agenda\*

\*Topics, times and speakers are subject to change. Times are in Central Daylight Time (CDT)

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### Tuesday, August 27 – Day One

**MEETING VENUE:** Hotel Monteleone, 214 Royal St, New Orleans, LA 70130

**RSVP for meeting:** [Virginia.Dentler@noaa.gov](mailto:Virginia.Dentler@noaa.gov) and [Lynne.Mersfelder@noaa.gov](mailto:Lynne.Mersfelder@noaa.gov)

**DRESS:** Business, business casual      **NOAA Uniform:** Service dress blues

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#### Morning                      PUBLIC MEETING DAY 1 CONVENES

**9:00 – 10:30**

- **Ed Saade**, HSRP chair
- **Rear Admiral Shepard M. Smith**, acting deputy assistant administrator, National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA); director, Office of Coast Survey (OCS), NOS, and HSRP designated federal official (DFO)
- **Nicole LeBoeuf**, acting assistant administrator, NOS, NOAA
- **RDML Tim Gallaudet**, Ph.D. U.S. Navy (ret), assistant secretary of Commerce for oceans and atmosphere and deputy NOAA administrator
- **Lieutenant Governor William H. Nungesser**, Louisiana
- **Captain Kristi M. Luttrell**, commander, Sector New Orleans, 8<sup>th</sup> U.S. Coast Guard District
- **Colonel Stephen Murphy**, commander, New Orleans District, U.S. Army Corps of Engineers
- **Brandy D. Christian**, president and CEO of the Port of New Orleans, CEO of the New Orleans Public Belt Railroad Corp.
- **Claire Trokey**, legislative director, Congressman Steve Scalise (R-Louisiana)

**10:30 – 10:45**                      Break

**10:45 – 12:00**                      **Precision Navigation Overview and Implications for the Mississippi River**

*A look at Precision Navigation requirements, traffic management, and the economic impact to Louisiana and the Mississippi River. A discussion among speakers and HSRP members follows.*

**Moderators and introduction:**

**Sean M. Duffy, Sr.**, HSRP member, and

**Captain Elizabeth Kretovic**, deputy hydrographer, OCS, NOS, NOAA

- **John G.W. Kelley**, Ph.D., physical scientist, Coastal Marine Modeling Branch, Coast Survey Development Laboratory, OCS, NOS, NOAA
- **Captain Stephen Hathorn**, president, New Orleans Baton Rouge Steamship Pilots Association (NOBRA)
- **Captain Michael Bopp**, president, Crescent River Pilots Association

- **Captain Michael Miller**, president, Associated Branch (Bar) Pilots
- **Darren Wright**, national marine program leader, Marine, Tropical and Tsunami Services Branch, National Weather Service, NOAA
- **Craig Winn**, portfolio manager for HD Mapping, Marine Chart Division, OCS, NOS, NOAA

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**12:00 – 1:30**                      **Lunch on your own** (HSRP members have a working lunch)

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**1:30 – 2:45**                      **Partnerships for the Future: The Mission of the Navigation Services – Data, Products and Services**

*The use of hydrographic and navigation services data, products, and services and the economic impact to Louisiana, the Mississippi River, and the region. Speakers will address gaps and offer suggestions for how NOAA can direct its finite resources to enhance safe, efficient, and environmentally sound maritime operations. A discussion among speakers and HSRP follows.*

**Moderators and introduction:**

**Sean M. Duffy Sr.**, HSRP member; **Tim Osborn**, navigation manager, OCS, NOS, NOAA

- **Dr. Jackie S. Pettway**, chief, Navigation Division, Coastal and Hydraulics Laboratory, U.S. Army Engineer and Research Development Center (ERDC), U.S. Army Corps of Engineers

***Innovative Applications of Hydrographic and Navigation Service Data***

*How various types of hydrographic and navigation data is applied in new ways to develop boundary conditions and parameters for numerical models, improve efficiency of dredging operations, and facilitate the transportation of goods on the Nation's waterways.*

- **Matt Lagarde**, assistant vice president Health, Safety, Security, and Environment, Ingram Barge Company

***The Challenges and Benefits the Inland River Towing Industry Faces with Changing Technology and Dynamic River Conditions***

*Ingram Barge Company operates a wide variety of tow vessels on different waterway systems. Changes in navigation equipment technology and constantly changing river conditions create unique training and product application challenges and benefits throughout the inland towing industry.*

- **Paul Aucoin**, executive director, Port of South Louisiana

***The Port of South Louisiana***

*Challenges related to growth in the largest tonnage port in the western hemisphere, efforts to address channel maintenance and maintain the flow of commerce.*

- **Mike Steenhoek**, executive director, Soy Transportation Coalition

***Transportation: Connecting U.S. Farmers with the World***

*The challenges and opportunities for the nation's multi-modal transportation system – including the lower Mississippi River – to connect U.S. farmers with international customers.*

- **Mark Wingate**, PE, deputy district engineer for Programs and Project Management, Executive Office, New Orleans District, U.S. Army Corps of Engineers

***The USACE, New Orleans District - Supporting the River Transportation System and Flood Protection of the Lower Mississippi River***

*The role and efforts of the USACE to support the Nation's largest port complex on the Lower MS River while reducing risk to Louisianans and infrastructure from severe floods.*

**2:45 – 3:00**                    **Public comment period – comments in room and via webinar**

**3:00 – 3:15**                    **Break**

**3:15 – 4:15**                    **Challenges, Concerns and Risks for the Navigation Services Portfolio**

*National Ocean Service's office directors will address navigation services topics such as the 2022 updates to the National Spatial Reference System (NSRS), datums, unmanned systems, mapping, surveying, charting, remote sensing, photogrammetry, positioning, and water levels in support of "seamless data." A discussion among speakers and HSRP members follows.*

- **Captain Elizabeth Kretovic**, acting director, Office of Coast Survey (OCS)
- **Juliana Blackwell**, director, National Geodetic Survey (NGS)
- **Richard Edwing**, director, Center for Operational Oceanographic Products and Services (CO-OPS)

**4:15 – 4:30**                    **Stephen White**, Remote Sensing Division, NGS, NOS, NOAA

***V-Datum: Current and Future Directions***

*Current activities of the VDatum Program, as well as challenges and future development efforts.*

**4:30 – 5:15**                    **HSRP working group discussions – issue papers, priorities, etc.**

**Planning and Engagement working group (P&E WG)**

Julie Thomas and Dave Maune, chairs, P&E WG

**5:15 – 5:30**                    **Recap and day 1 wrap up**

**HSRP PUBLIC MEETING DAY 1 ADJOURNS**

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**SPECIAL SESSION**        **ALL INVITED**

**5:30**                            ***Gulf Coast Ocean Observing System (GCOOS) and NOAA dedication for 2 High Frequency Radars***

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## Wednesday, August 28 – Day Two

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### Morning **HSRP PUBLIC MEETING DAY 2 CONVENES**

#### 8:30 – 9:30 **PUBLIC MEETING:**

- **Ed Saade**, HSRP chair and **Capt. Elizabeth Kretovic**, alternate DFO NOAA  
Day 1 recap and discussion
- **Planning and Engagement working group (P&E WG)**, **Julie Thomas** and **Dave Maune**  
OCS Strategic Plan, issue papers, other topics  
Issue papers: emergency response, sea level rise, Arctic

#### 9:30 – 9:45 **Break**

#### 9:45 – 11:30 **Partnerships and Unmanned Systems for Hydrographic Surveying**

*A look at how NOAA and industry are moving forward with autonomous systems to serve mapping, charting, and remote sensing for both marine navigation and aerial shoreline surveying. A discussion among speakers and HSRP members follows.*

#### **Moderators and introduction:**

**Deanne Hargrave**, and **Ed Saade**, HSRP Technology Working Group;

**Neeraj Saraf**, acting chief, Coast Survey Development Laboratory, OCS, NOS, NOAA

- **Rear Admiral Tim Gallaudet**, Ph.D., U.S. Navy (ret), assistant secretary of Commerce for oceans and atmosphere and deputy NOAA administrator

#### **NOAA's UxS Strategy**

*An overview of NOAA's new unmanned systems strategy.*

- **Michael J. Starek, Ph.D.**, associate professor of Geospatial Engineering, Texas A & M University Corpus Christi, Director of the Measurement Analytics Lab (MANTIS), Conrad Blucher Institute for Surveying and Science

#### **UAS for Coastal Zone Monitoring of the South Texas Gulf Coast and Beyond**

*Showcase current work related to the use of small unmanned aircraft systems (UAS) for surveying and monitoring of the coastal zone within South Texas and other Gulf regions including wetland resiliency, post-storm impact assessment, near-shore processes, and survey-grade UAS LiDAR.*

- **Neeraj Saraf**, acting chief, Coast Survey Development Laboratory, OCS, NOS, NOAA  
**Autonomous Surface Vessel Research and Development Program at the NOAA-UNH Joint Hydrographic Center and Center for Coastal and Ocean Mapping**

*A summary of the ongoing ASV research and development at the Center, the relevance to NOAA's navigation services mission, and examples of the research activities.*

- **Capt. Brian Connon** (U.S. Navy ret.), director, University of Southern Mississippi's Hydrographic Science Research Center  
*Research Projects in Unmanned Hydrography at the University of Southern Mississippi Hydrographic Science Research Center*

*An overview of hydrographic research at USM's HSRC with a focus on unmanned projects funded by NOAA OCS.*

- **Thomas S. Chance**, former CEO, C & C Technologies and ASV Global (retired)  
*USV's for Hydrographic Surveying*  
*A review of various unmanned vessels, optionally manned vessels, and minimally manned vessels that can be used for hydrographic surveys.*

- **Lt. Damian Manda**, chief, Hydrographic Systems and Technology Programs Branch, Coast Survey Development Laboratory, OCS, NOS, NOAA  
*Unmanned Systems Activities and Strategy in NOAA's Office of Coast Survey*  
*A summary of unmanned systems development and operational use to augment NOAA's hydrographic data collection capabilities, and Coast Survey's unmanned systems strategy updates.*

<b>11:30</b>	<b>Public comment period</b>
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<b>11:45 – 1:00</b>	<b>Lunch on your own (HSRP members have a working lunch)</b>
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<b>1:00 – 2:00</b>	<b>HSRP working group discussions – issue papers, priorities, etc.</b> <b>Issue papers:</b> Arctic, emergency response, sea level rise <b>Technology WG</b> , Deanne Hargrave, co-chair <b>Arctic Priorities WG</b> , Captain Ed Page, chair
<b>2:00 – 2:30</b>	<b>HSRP Day 2 wrap up</b> <ul style="list-style-type: none"><li>● <b>Ed Saade</b>, HSRP chair and <b>Captain Elizabeth Kretovic</b>, alternate DFO, OCS, NOS, NOAA</li></ul>

**HSRP DAY 2 ADJOURNS**

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## Thursday, August 29 – Day Three

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### Morning

### HSRP PUBLIC MEETING DAY 3 CONVENES

#### 8:30 – 9:30 Public meeting reconvenes and day 2 recap:

- **Ed Saade**, HSRP chair and **Captain Elizabeth Kretovic**, alternate DFO, OCS, NOS, NOAA  
Day 2 recap and discussion, working groups, issue papers

#### 9:30 – 9:45 **Galen Scott**, program analyst, Geosciences Research Division, NGS **National Spatial Reference System (NSRS) Modernization - Addressing Subsidence through Time-Dependent Positioning and Intraframe Velocity Models**

*In 2022, the National Spatial Reference System will be modernized to take advantage of improvements in surveying and mapping technology and accuracy, with new tools and models being made available to better serve communities in regions experiencing land motion such as subsidence or uplift.*

#### 9:45 – 10:00 Break

#### 10:00 – 11:45 **Addressing NOAA’s Existing and Potential Subsidence and Sea Level Rise Services for Hydrographic Services**

*A discussion about subsidence, the challenges and changing risks from sea level rise, and the critical observations and data from NOAA and partners needed to understand the impacts on communities, navigation services, and the constraints of the current planning system. Speakers will address gaps and offer suggestions for how NOAA can direct its finite resources to enhance safe, efficient, and environmentally sound maritime operations. A discussion among speakers and HSRP members follows.*

**Moderators:** **Julie Thomas**, HSRP member, and **Audra Luscher**, coastal hazards program manager, CO-OPS, NOS, NOAA

**Overview:** **Nicole LeBoeuf**, acting assistant administrator, NOS, NOAA

- **Clifford J. Mugnier**, C.P., C.M.S, FASPRS, senior instructor, Department of Civil and Environmental Engineering, Louisiana State University, and chief of Geodesy, Louisiana Spatial Reference Center, Center for GeoInformatics

#### **Research in the Physical Geodesy of Louisiana Subsidence**

*Chronicles the research of subsidence in Louisiana and support for the geoid model in 2022.*

- **Dr. Rick Luettich**, alumni distinguished professor and director, Institute of Marine Sciences and Center for Natural Hazards Resilience, University of North Carolina at Chapel Hill

#### **Living with Coastal Flood Risk in New Orleans**

*Information needs to properly assess and manage risk in coastal cities, such as New Orleans, that lie close to or below sea level.*

- **Renee Collini**, program coordinator, Northern Gulf Of Mexico Sentinel Site Cooperative Cooperative, Mississippi-Alabama Sea Grant, Mississippi State University

***'Tools: Renovate before you build' - and other bad analogies to explain what Gulf stakeholders need to address sea-level rise***

*A summary of feedback from science, service, and stewardship stakeholders in the northern Gulf on the ability of current NGS, CO-OPS, and OCS resources to address sea-level rise questions and needs.*

- **Brian Lezina**, division chief, Planning and Research, Louisiana Coastal Protection and Restoration Authority

***Implementing Louisiana's Coastal Program Facing a Dynamic Future***

*How Louisiana is using current and predicted data to understand present and future conditions to implement the State's multi-billion dollar coastal restoration and protection program.*

- **Windell Curole**, general manager, South Lafourche Levee District

***Improving Communities in the wake of Hurricane Katrina with GPS Elevations***

*An overview of the improvements in measuring water elevations and land movement in a subsiding delta.*

**11:45**                      **Public comment period**

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**12:00 – 1:00**              **Lunch on your own (HSRP members have a working lunch)**

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**Afternoon**                **HSRP PUBLIC MEETING RECONVENES**

**1:00 – 2:30**              **HSRP working groups follow-up: priorities, issue papers, OCS Strategic Plan, small group discussion, other:**  
Working groups: Planning and Engagement, Arctic Priorities, Technology  
Issue papers: emergency response, sea level rise, Arctic

**2:30 – 2:45**              **Break**

**2:45 – 4:00**              **HSRP member discussion and recommendations**

**4:00 – 4:30**              **Meeting recap**

**HSRP DAY 3 and PUBLIC MEETING CONCLUDES**

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