

HSRP Priorities Matrix

	Topic	Brief Description	Status as of 2/20/2019	Current/Future Action Needed/Recommended	
	Restricted visibility - Can the suite of NOAA products help?	What can the committee do to increase the availability and accuracy of restricted visibility forecast products in order to			On-going
	Relative Sea Level Rise and high tide flooding	Advocate for the continued measurements of relative sea level rise (sea level rise + subsidence) in coastal areas. Continue measurements by CO-OPS and by NGS in collaboration with NASA and USGS. Critically important for storm water managers and other decision makers	Possible candidate for issue paper after HSRP discusses further internally.	Possible issue paper outline - 1: geodetic observations, emphasizing common datums and standard output. 2: long term observations, 3: Climate and statistical analysis tools, 4: Model coupling, 5: Public Education (CMTS, advisory committes, etc.)	On-going
	National Policy issues	The mechanism for addressing the policy is with the CMTS. (Examples: Expand Precision Nav, develop regulations for UAV, develop more accurate restricted visibility sensors, develop further coordination and partnerships with industry)			On-going
	Hardening of Offshore Observing Sites	Strategic approach to hardening sites			Follow up with Larry A.
	Artificial Intelligence (AI)	Related to disaster recovery	Need more info from Lindsey regarding specific problem/issue statement/area of concern		Follow up with Lindsey Gee
	Public-Private Partnerships	Blue economy-related - precision nav, resilience. Connect with local IOOS How NOAA can facilitate partnerships		Russel Callendar asked that we look into this at Miami meeting; coordinate summary of identifiable examples and targets for evaluation and commentary.	Glen B. to follow up
	NOAA's application of IoT, AI and M2m (Ed Page)	Enhance the process of receiving and disseminating navigational data to and from vessels applying latest technologies....moving from a dated publications e.g. Coast Pilot, to dynamic real time data dissemination via apps, text messaging, AIS, etc.	Recommend exploring this new subject by the technology sub committee of HSRP.		Ed Page and Admiral Smith to follow up
	Incorporating non-authoritative sources into hydrographic products	Crowd sourcing; satellite-derived bathymetry	Improving Access issue paper; finalized May 2018.		TRACK
	Arctic Charting/Plan		Arctic issue paper 2016; Arctic report 2015(?)	Ed Page leading update of Arctic issue paper	Ed Page will replace this with Artic Plan

USACE-NOAA Partnership	Example: Issues about the standards to which US harbors and channels are charted in USACE and NOAA surveys. Not all harbors are charted to IHO Class I standards.	2017 Surveying and Charting in US Channels, Harbors And Anchorages paper	Updates from NOAA on ongoing conversations with USACE. Continue to highlight importance in meeting letter/notes. There are many topics that overlap with the USACE. Examples of the USACE funding many observations which feed into disaster response/modeling. Continue the valuable partnership.	TRACK
Identify and quantify the benefits of NOAA's Hydrographic Services	Documenting stakeholder requirements for and benefits from hydrographic services is key to Congressional funding support	NGS' 3D Nation Requirements and Benefits Study will be completed in 2020.	Russel Callendar asked that we look into this at Miami meeting No further action needed. Ashley Chapell has reached out to HSRP members for inputs. Expect to be asked to review draft study for comment in 2020.	TRACK
Enhanced Navigational Assistance	Continued roll-out and expansion of PORTS. Types of observational data needed for safe port/harbor operations. Restricted visibility passages could be	Precision nav issue paper, revised May 2018; Recommendations in Miami letter	Keep track of issue following issue paper promulgation	TRACK
Marine and Geospatial Information Infrastructure	Critical information infrastructure that supports physical infrastructure. This includes managing big data, and making use of artificial intelligence.	May 2018 Issue Paper	Keep track of issue following issue paper promulgation	TRACK
Hydrographic Survey Fleet	The need to replace the NOAA ships Rainier and Fairweather for Arctic/Alaska survey needs.	2018 Hydrographic Survey Fleet paper updated; update at Miami meeting	Regular fleet updates from NOAA	TRACK
Information Dissemination	Getting the wealth of data/information collected/aggregated/analyzed/etc. Related to public-private partnership	Recommendation in Miami 2018 Letter to Acting Administrator -	Overlaps with Education and Public-Private Partnerships.	TRACK
USCG and AIS	The need to disseminate NOS PORTS and other data via USCG AIS.	Recommendation in Miami 2018 Letter to Acting Administrator -	Follow up with NOAA on further steps the committee can take	Mention in letter to Administrator
Autonomous Vessels - surveying	Emerging technology/innovation, NOAA strategy; Advances and challenges	Responded to NOAA's request for comments on autonomous strategy 2017	RADM Gallaudet requested HSRP attention 2018 ; Tech WG tracking for future ideas/needs; follow up as needed on NOAA strategy	New Orleans
Chart of the Future - supplementary/navigation data management and distribution (Lindsay Gee and Ed Saade)	Similar to Ed Page additional item and relates to better use of current technology in the receipt, management and distribution navigation and related data	Tech WG webinar May 9, 2018 Briana Sullivan, followed by briefing by Ed Saade		New Orleans

	Disaster Response	NOAA function - products and services for response and recovery, continuous improvement. NOAA's ability to respond to stakeholder needs and requirements.	Focus of April 2018 meeting; Recommendations for post-disaster survey and enhanced information delivery and communication in Miami letter	More specifics are needed here. Neeraj just gave a nice presentation on the importance of accurate observations and modeling during extreme events.	New Orleans
	Education	Promoting hydrographic education/ Involving younger hydro professionals/students in HSRP. Goal: Further outreach to the academic community to promote hydro/geodetic/etc. programs through exposure to HSRP and NOAA/OCS	Invite Southern Miss hydro program students and faculty to the HSRP meeting in New Orleans with the goal of getting them in the room and participating.	Within the scope of the panel, invite hydro/oceano students to HSRP meetings; look into getting young scientists involved with HSRP (e.g. Sea Grant)	New Orleans
	Hydrodynamic Modeling and Validation	The need for data inputs to hydrodynamic modeling as it pertains to navigation within the nearshore.			Hawaii