10/27/2022 <b>Topic</b>	Brief Description	Status as of 10/1/2022	Current/Future Action Needed/Recommended	
Integrated Ocean and Coastal Mapping (IOCM)	acquiring, integrating, and	inter- agency coordination with a focus on streamlining operations, reducing redundancies, improving efficiencies, developing	-Ashley Chapell spoke to the P&E Working Group meeting for an overview and update. Following actions will be discussed and assessed. Also check with OCS for latest updatesInclude development of datacenter and National data standards (geospatial accuracy, characteristics, etc)Julia Wallace (AHB) + Ashley to integrate bathy into NOAA from Christy Riser (NCEI) for ESD presentation, and where improvements could be made.	on-going

	Precise navigation	HSRP can help in: 1) connecting NOAA	Meet with F4 Directors to	March 2022
	during restricted	with the stake holders to open a	discuss topic further. If not, then	Virtual
		dialogue on the subject of precise	retire topic. (John)	Meeting
	play a role in: 1)	navigation in restricted visibility 2)		Presentatio
	providing precise and	Invite people with experience on the		n
	upuateu uata oi tile	topic (ports, manufacturers, academia,		
	navigation channels	etc.) to share their experiences 3)		
	and ports	Connection with regulatory oversight if		
	inirastructures. 2)	needed. 4) Provide recommendations		
	ilici ease real tillie	for NOAA on enhancing existing		
		products or the generation of new		
	3) Organize round	products to enable the precise		
	- / 6	navigation during restricted visibility		
	outreach between	,		
	mariners, academia,			
	and technology			
	manufacturers to			
	foster solutions for			
	the industry			

USACE-NOAA Example:	: Issues about the standards to	2017 Surveying and Charting	Updates from NOAA on ongoing	On-going -
Partnership which US charted in Not all ha	S harbors and channels are in USACE and NOAA surveys. arbors are charted to IHO Class rds. Standardizing datums	in US Channels, Harbors And Anchorages paper. Per Sean Duffy, Admiral Smith making key progress. Example is Smith's participation on the Mississippi River Coalition.	conversations with USACE.  Continue to highlight importance in	Continue to encourage and endorse

Coastal resilience, relative sea level change and coastal flooding	response and recovery, continuous improvement. NOAA's ability to respond to stakeholder needs and requirements.	Osler about the efficacy of combining coastal and port resilience in one Issue Paper.	SLR Issue paper outline - 1: geodetic observations, emphasizing common datums and standard output. 2: long- and short- term observation systems, 3: Tidal and statistical analysis tools, 4: Model coupling, 5: Public Education (CMTS, advisory committes, etc.). Obtained stats for US Coastal SLR and Subsidence Wrap into Coastal Resilience Issue Paper - Nicole Elko	22-Oct
	other coastal decision makers.			

6	Modeling and Validation	integration of observing system data. The need for data inputs to	In Progress - OCS will present a webinar on OFS during one of our future Working Tech telcons.	different regions of the US. San Francisco has their system, so good topic to add to the SF meeting agenda. Hydrodynamic models for ports could be part of aid to navigation.	SAN FRANCISCO 2022- 2023 (TBD) (There will also be a panel discussing Coastal Ocean Modeling in Support of Marine Navigation and the Blue Economy during the March 2021
7	Farm Development	President Biden's request for wind farm expansion and the on-going projects around the coastal U.S.	Tech WG presentations and updates from HSRP members.	Presentations at Virtual Sep 2021 Public meeting	Sep-21
8	NOAA benefit from the concept of Digital Twins?	Digital Twins concept is posing itself to be the modern way of managing infrastructure or a facility. Whether, it is for a port, a ship, or navigation channel, DT is the most efficient way to create a replica of the physical environment that can be used during planning, construction and management of the utility.		Invite few more speakers who had positive experience with the concept to learn from	

S	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 from Ben Evans and Briana Hillstrom, Honolulu 2022 Brennan	Regular fleet updates from NOAA.	TRACK
	Incorporating non	FORMAL RESPO			Cubwittod
10	authoritative sources into hydrographic products. Strategy for Mapping, Exploring, Characterizing the U.S. EEZ; NOAA	Crowd sourcing; satellite-derived bathymetry; IOCM and IWG-OCM work. The draft National Ocean Mapping, Exploration and Characterization Strategy (NOMEC) is expected to document innovative technologies and resources needed to map, explore and characterize the ocean floor through acoustic technologies and innovative platforms. Funding is expected to be an issue.	Should we submit one formal response including Arctic/Alaska along with NOMEC?		Submitted Sep 2020 with possible update 2023

11	, -	Emerging technology/innovation, NOAA strategy; Advances and challenges	Responded to NOAA's request for comments on autonomous strategy 2017	needed on NOAA strategy. Possible visit to Saildrone in SF.	SAN FRANCISCO 2022-2023 (TBD)
		ISSUE O	R WHITE PA	PERS	
12	for mapping the shoreline and nearshore of Alaska; NOAA	Strategy (ACMS) is expected to document tidal datum needs, seamless topobathy lidar needs for shoreline and nearshore mapping, and improvements needed for VDatum to cover all of Alaska. Funding is expected to be an issue.	prepare draft Issue Paper for future consideration by the		Virtual Sep 2020

13	·	·	Recommendations for post- disaster survey and enhanced information delivery and communication in Miami letter	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Submitted 5/2020
14	Expanding Maritime Services in the Artic	The opportunity exists for NOAA National Ocean Service (NOS) to leverage new technologies to deliver innovative product and service solutions. The challenges, needs and proposed solutions are summarized below.	ISSUE PAPER AUG 2019 - Ed Page Lead	Improve infrastructure and communications, additional water level sensors and updated bathmetry.	TRACK
15	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.	ISSUE PAPER AUG 2019	Statistical analysis tools, 4:  Model coupling, 5: Public  Education (CMTS, advisory)	Updated Issue Paper submitted Oct 2022

Enhanced Navigational Assistance  16  USACE-NOAA Partnership	Continued roll-out and expansion of PORTS. Types of observational data needed for safe port/harbor operations. Restricted visibility sensors could be addressed as part of this expansion.  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	ISSUE PAPER 2017 Surveying and Charting in US Channels, Harbors And Anchorages	conversations with USACE.  Continue to highlight importance in meeting	TRACK
17	I standards.		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
Marine and Geospatial Information Infrastructure	Critical information infrastructure that supports physical infrastructure. This includes managing big data, and making use of artifical intelligence.	May 2018 ISSUE PAPER	Keep track of issue following issue paper promulgation.	TRACK
		ARCHIVE		

Identify and quantify the benefits of NOAA's Hydrographic Services	hydrographic services is key to	Ashley Chapell on the review of the NGS' 3D Nation Elevation Requirements and	Russell Callendar asked that we look into this at Miami meeting Several HSRP members have submitted Mission Critical Activities for this study. The HSRP may be asked to review the draft study when completed.	On-going - Continue to encourage and endorse
Information Dissemination	Getting the wealth of data/information collected/aggregated/analyzed/etc.	Recommendation in Miami 2018 Letter to Acting Administrator -	Overlaps with Education and Public-Private Partnerships.	TRACK, merge with public
Hardening of Offshore Observing Sites	Strategic approach to hardening sites			
NOAA's application of IoT, AI and M2m (Ed Page)		Recommend exploring this new subject by the technology sub committee of HSRP.		Ed Page and Admiral Smith to follow up

## HSRP Priorities Matrix\_Oct2022PRINT.xlsx

23	Arctic Charting/Plan		Arctic issue paper 2016; Arctic report 2015(?)		Ed Page will replace this with Arctic Plan
24		Involving younger hydro professionals/students in HSRP. Goal: Further outreach to the academic community to promote	faculty to the HSRP meeting	invite hydro/oceano students to HSRP meetings; look into getting young scientists involved with HSRP (e.g. Sea Grant)	*