NOAA Hydrographic Services Review Panel

Public Meeting

Portsmouth, New Hampshire, September 12 – 14, 2017

HSRP MEMBER Agenda (draft updated JUNE 6, 2017)

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**TOPICS to CONSIDER and to MOVE to FIT into the agenda as possible:**

1. **Multiple time slots for discussion of goals and deliverables: 2-3 issue papers; provide consensus advice on Autonomous Systems Roadmap document; other topics; one WG private discussion would work well on Wed, 7:30 - 9:30am slot & working breakfast;**

Dr. Dave Maune and Joyce Miller, chairs, HSRP Planning & Engagement Working Group

* + - 1. Precision Navigation issue paper
			2. Tech Transfer issue paper
			3. Informational or issue paper on private/public partnerships –***TBC Seattle request***
			4. Develop comments for [OCS Autonomous Systems Roadmap DRAFT](https://www.nauticalcharts.noaa.gov/ocs/hsrp/seattle2017/documents/Executive-Summary-OCS0-Autonomous-Systems-Roadmap.pdf)
1. **Update: implementation of externally sourced data *- Seattle request***
2. **Update: NOAA-USACE partnership, USACE speaker *- Seattle request***
3. **Arctic panel; NEEA study / hydrography; education *- Seattle requests***

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## Monday, September 11 – HSRP Member and Tri-Office staff schedule

## HSRP travel day Airport shuttle to hotel, *Hotel TBD, Portsmouth, NH*

**5:00-6:00 Informal meet and greet in the hotel lobby**

**6:15 HSRP Leadership Dinner – co-chairs and directors, restaurant TBD**

**6:00 meet in hotel hobby; walk to casual group dinner**

**6:15 Restaurant TBD,** Portsmouth, NH

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## Tuesday, September 12 – Day One *\*meeting times subject to change*

## Morning HSRP PUBLIC MEETING CONVENES, Paris Ballroom

***Hotel TBD, Portsmouth, NH 98101***

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**7:30 – 8:15 HSRP members/ NOAA staff working breakfast meeting:**

***Andy to introduce the UNH field visits***

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**8:30 – 10:00 Public meeting convenes: welcome, introductions, goals, deliverables**

* Bill Hanson, HSRP chair
* Rear Admiral Shepard M. Smith, director, Office of Coast Survey (OCS), and HSRP designated federal official

Bill and Admiral review ACTION/TIMING:

Autonomous Systems Roadmap - discuss and develop a consensus recommendation to NOAA during the meeting

* HSRP member self-introductions
* NOAA or National Ocean Service rep(s) TBD
* Congressional representative or staff
* (Proposed) USACE national level speaker TBD

**10:00 – 10:15 Break**

**10:15 – 12:00 Unmanned Systems for Hydrographic Surveying Panel *– Seattle request***

***(or put the Arctic panel and NEAA update / hydrography here & Autonomous Systems Panel on Wed / Thurs)***

Description and speakers TBD. How industry is moving forward to serve mapping, surveying, and charting, autonomous systems integration.

**Moderator**: TBD

* Speaker TBD *Thomas Chance, ASV - TBD*

***“Topic TBD”***

* Speaker TBD *Leidos - TBD*

***“Topic TBD”***

* Speaker TBD – *NGS/ RSD Ebee - TBD*

***“Topic TBD”***

*Notes:* **Autonomous Systems Panel** *possible suggestions include the following: Thomas Chance; Leidos; Z-Boats - high performance portable Remotely-Operated* Hydrographic Survey Boat; *Boston company / colleagues?; CARIS project; vaporware concept; other TBD.*

**12:00 Public meeting adjourns**

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**12:00 – 12:15 Drop stuff to rooms, meet in lobby for transport**

**12:15 Meet in lobby, transport to UNH/CCOM for site visit**

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## Afternoon Innovative charting: HSRP site visit with tour, demo’s, and speakers

**12:30 – 1:30 HSRP Member/NOAA HSRP staff working lunch at UNH**

**1:30 – 5:30 UNH tours, demos, and speakers -**

*Notes/ideas:* ***Andy Armstrong/Larry Mayer to recommend***

*Description and timing TBD.*

**Innovative charting / theme: research and development of technology for Navigation Services**

*Description and timing TBD.*

**Facilitator/ Moderator**: (notes/ suggestions)

* *Speakers TBD*
* *Dr. Brian Calder, Deputy Director / Professor (TBD)*
* *Dr. Diane Foster, School of Marine Science and Ocean Engineering (TBD)*

 **Break**

**5:00 – 5:15 HSRP discussion – recap on day 1**

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**5:15 – 5:30 Transport to hotel**

**5:30 – 6:30 Informal recap meeting in hotel lobby, Hotel TBD**

**6:30 Meet in hotel lobby, walk to group dinner - (members, staff, speakers)**

**6:45 Group dinner, TBD,** Portsmouth, NH

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## Wednesday, September 13 – Day Two

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**7:30 – 9:15 Working breakfast meeting, HSRP members/ NOAA staff,**

**TBD, Hotel TBD**

**Working group convenes at breakfast to go over issue papers, autonomous systems roadmap draft**

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## Morning HSRP PUBLIC MEETING CONVENES

**9:30 Public meeting**

* Bill Hanson, HSRP chair
* Rear Admiral Shepard M. Smith

**9:30 – 9:45 Overview and discussion of day one**

**9:30 – 10:30 Part 1 of 3: HSRP discuss and develop consensus advice on Autonomous Systems Roadmap, discussion of issue papers, other topics**

Dr. Dave Maune and Joyce Miller, chairs, HSRP Planning and Engagement

 Working Group

* Review comments, discuss and develop HSRP consensus recommendations for: [OCS Autonomous Systems Roadmap DRAFT](https://www.nauticalcharts.noaa.gov/ocs/hsrp/seattle2017/documents/Executive-Summary-OCS0-Autonomous-Systems-Roadmap.pdf)
* Review, discuss and finalize issue papers and recommendations:
	+ Precision Navigation issue paper
	+ Tech Transfer issue paper
	+ Other as appropriate, TBD
* Other topics – HSRP chairs, next meetings, topics of interest

***QUESTION: private/public partnerships was on the list proposed at the Seattle meeting. Is there consensus to do this paper? Is there a lead HSRP member?***

[OCS Autonomous Systems Roadmap DRAFT](https://www.nauticalcharts.noaa.gov/ocs/hsrp/seattle2017/documents/Executive-Summary-OCS0-Autonomous-Systems-Roadmap.pdf)
([Autonomous Roadmap - 1 pager](https://www.nauticalcharts.noaa.gov/ocs/hsrp/seattle2017/documents/Autonomous-roadmap-1-pager.pdf) )

ACTION/TIMING: Autonomous Systems Roadmap - discuss and develop a consensus recommendation to NOAA during the meeting

**10:45 – 11:00 Break**

**11:00 – 12:00 Panel: Emerging Arctic Priorities - update – *request from Lawson Brigham from Seattle meeting***

Description TBD.

**Moderator**: **Lawson Brigham and Ashley Chappell**

* Speakers TBD

***“Topics TBD”***

**12:00 -12:15 Public comment period and review of day and session – end day two**

**12:15 - 1:45 Lunch on your own (HSRP members / NOAA HSRP staff working lunch)**

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**12:15 – 1:45 HSRP members / NOAA HSRP staff working lunch**

Glenn Boledovich, NOS PCAD and Budget Director

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**1:45 – 2:45 National Ocean Service’s navigation services program updates - TBD**

* Richard Edwing, director, Center for Operational Oceanographic Products and Services
* Juliana Blackwell, director, National Geodetic Survey
* Rear Admiral Shepard M. Smith, director, Office of Coast Survey

**HSRP PUBLIC MEETING DAY 2 ADJOURNS**

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**Afternoon TECHNICAL SITE VISIT - HSRP MEMBER and NOAA STAFF – timing TBD**

**2:45 – 3:00 Drop stuff off in room, meet in hotel lobby for transport; timing TBD**

**3:00 Meet in hotel lobby, board transport and depart for vessel timing TBD**

**3:15 – 6:00 UNH marine facility and pier site visit,** Newcastle, NH **timing TBD**

**Gulf Surveyor research vessel, ASV demonstration; Andy Armstrong**

**NOAA/USCG facility: water level and tidal gauge visit / highlight?**

**6:00 – 8:00 Evening group picnic dinner: picnic/bbq, same location, timing TBD**

**8:15 – 8:30 Board bus and return to hotel, Hotel TBD**

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## Thursday, September 14 – Day Three

## Morning HSRP PUBLIC MEETING CONVENES

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**7:30 – 8:30 HSRP members/ NOAA staff working breakfast meeting,**

**TBD, Hotel TBD**

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**8:30 Public meeting convenes**

**8:30 – 10:30 Overview and discussion of day two and**

**Part 2 of 3: HSRP develop consensus advice on Autonomous Systems Roadmap document, discussion of issue papers and recommendations, other topics**

Dr. Dave Maune and Joyce Miller, chairs, HSRP Planning and Engagement

 Working Group

* Review comments, discuss and develop HSRP consensus recommendations for: [OCS Autonomous Systems Roadmap DRAFT](https://www.nauticalcharts.noaa.gov/ocs/hsrp/seattle2017/documents/Executive-Summary-OCS0-Autonomous-Systems-Roadmap.pdf)
* Review, discuss and finalize issue papers and recommendations:
	+ Precision Navigation issue paper
	+ Tech Transfer issue paper
	+ Other as appropriate, TBD
* Other topics – HSRP chairs, next meetings, other topics of interest

**10:30 – 10:45 Break**

**10:45 – 11:45 (Proposed) Updates (OR Datums update here):**

* **Update on implementation of externally sourced data *(Seattle request)***
* **NEAA update / hydrography, Ashley Chappell – *Dave Maune request***

*(Or move this to TUES?)*

*A briefing on the NEEA study, its expansion to cover bathymetry out to the edge of the EEZ, etc.  Ashley is seeking feedback on the questionnaire from the scoping study.*

* **Other updates**

**11:45 – 12:00 Public comment period**

**12:00 – 1:30 Public meeting lunch break – (HSRP members /staff working lunch**)

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**12:00 – 1:30 HSRP members / NOAA HSRP staff working lunch**

**Speaker possible**

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## Afternoon HSRP PUBLIC MEETING RECONVENES

**1:30 – 2:30 Terrestrial and Tidal Datums presentations (or “Updates” here)**

***HSRP members request this be short presentations no longer than 30 min and similar in style and timing to Carol Lockhart’s LIDAR presentation in Seattle.***

*It could include both terrestrial and tidal datums. This has an interesting tie-in to the future of navigation if you imagine a deep draft vessels opportunity to navigate directly on the ellipsoid with some of the proposed new satellite constellations.  Thus having broad understanding of our datums beyond our shorelines could be discussed long with its value to navigation, offshore construction, MSDI, exploration, etc.*

* Ms. Juliana Blackwell, Director, NGS

***“Title TBD”***

* Mr. Rich Edwing, Director, CO-OPS

 ***“Title TBD”***

**2:30 – 2:45 Break**

**Part 3 of 3: HSRP finalize consensus advice on Autonomous Systems Roadmap document, finalize issue papers, discuss other topics**

Dr. Dave Maune and Joyce Miller, chairs, HSRP Planning and Engagement

 Working Group

* Finalize HSRP consensus recommendations for: [OCS Autonomous Systems Roadmap DRAFT](https://www.nauticalcharts.noaa.gov/ocs/hsrp/seattle2017/documents/Executive-Summary-OCS0-Autonomous-Systems-Roadmap.pdf)
* Finalize issue papers and recommendations:
	+ Precision Navigation issue paper
	+ Tech Transfer issue paper
	+ Other as appropriate
* Other topics – HSRP chairs, next meetings, other topics of interest

**5:15 – 5:30 Review of day and meeting, actions, closing remarks, end of meeting**

**HSRP PUBLIC MEETING CONCLUDES**

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