

U.S. DEPARTMENT OF COMMERCE

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
(NOAA)

HYDROGRAPHIC SERVICES REVIEW PANEL

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PUBLIC MEETING

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THURSDAY  
SEPTEMBER 1, 2016

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The Hydrographic Services Review Panel  
met in the City Club of Cleveland, Conference  
Room 200, 850 Euclid Avenue, Cleveland, Ohio, at  
8:00 a.m., Joyce Miller, Vice Chair, presiding.

MEMBERS PRESENT

JOYCE E. MILLER, HSRP Vice Chair  
DR. LAWSON W. BRIGHAM  
KIM HALL  
EDWARD J. KELLY  
CAROL LOCKHART  
DR. DAVID MAUNE  
CAPTAIN ANNE MCINTYRE  
SCOTT R. PERKINS  
EDWARD J. SAADE  
SUSAN SHINGLEDECKER  
GARY THOMPSON

## NON-VOTING MEMBERS

ANDY ARMSTRONG, Co-Director, NOAA/University  
of New Hampshire Joint Hydrographic  
Center

RICH EDWING, Director, CO-OPS, NOAA

DR. LARRY MAYER, Co-Director,  
NOAA/University of New Hampshire Joint  
Hydrographic Center

## STAFF PRESENT

REAR ADMIRAL SHEP SMITH, HSRP Designated  
Federal Official

MIKE ASLASKEN, Chief, Remote Sensing  
Division, NOAA/NGS

GLENN BOLEDOVICH, NOAA/NOS

DAVID CONNER, NOAA/NGS

DAVE HOLST, NOAA/NOS

CHRISTA JOHNSTON, NOAA/NOS

BRANDON KRUMWIEDE, NOAA/OCM

GARY MAGNUSON, NOAA/OCS

RACHEL MEDLEY, NOAA/OCS

LYNNE MERSELDER-LEWIS, HSRP Coordinator

RUSS PROCTOR, Chief, Navigation Services  
Division, NOAA/OCS

GREG SCHWEITZER, NOAA/ORR

DARREN WRIGHT, NOAA/CO-OPS

## ALSO PRESENT

JACKIE ADAMS, Environmental Scientist, Great  
Lakes Restoration Initiative, Great  
Lakes National Program Office, U.S.  
Environmental Protection Agency

CAPTAIN PAUL D.J. ARNETT, Chief, Preventive  
Division, 9th Coast Guard District for  
the Great Lakes and Saint Lawrence  
Seaway, U.S. Coast Guard

C-O-N-T-E-N-T-S

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1 P-R-O-C-E-E-D-I-N-G-S

2 8:02 a.m.

3 VICE CHAIR MILLER: Hello? I think  
4 Joyce wants to start the meeting everybody, in  
5 the hopes of getting out of here early, maybe.

6 Let's -- so, good morning and we call  
7 the third and final day of the HSRP fall meeting  
8 to order.

9 We had a fairly thorough summary of  
10 yesterday's happenings and we'll almost certainly  
11 rehash it again, well, we will certainly rehash  
12 it again in talking about the final letter.

13 So, instead of -- in lieu of that, I  
14 think I'd like to go around the table and get  
15 each members', I mean, you've heard what I heard  
16 in that -- in the summary. But, I'd like each  
17 member to point out the thing they thought most  
18 important and any other thoughts on the meeting.

19 Who wants to go first? Kim?

20 MEMBER HALL: I thought I did it  
21 yesterday. I think the biggest piece for me, and  
22 it's not anything specific to the Great Lakes and  
23 I do apologize to anybody's who's on the phone  
24 and listening about the Great Lakes.

25 But, just in understanding how our new  
26 DFO's looking at things. It's not significantly  
27 different than our previous DFO, but, the concept  
28 of, you know, training to ignore and a couple of  
29 other things of how we can, as a panel, help with  
30 the -- whether it's the clutter issue or  
31 something else to try to help resolve some of  
32 that or at least give some advice on where they  
33 could go with that.

34 So, that's where I kind of come out  
35 for the most important thing to me.

36 MEMBER KELLY: Yes, I think that's  
37 important. I think also, we need to look at  
38 interagency cooperation and I was kind of struck  
39 by the, not the overlap, but the underlap issue  
40 as we discussed a little bit.

41 And, I think that's certainly an issue  
42 for interagency, particularly with the Corps to  
43 examine and identify what those either overlap or  
44 underlap issues are for inter-service cooperation  
45 for the benefit of public good.

46 Because, there are some gaps with good  
47 intention on both sides, but there are some areas  
48 that maybe can be eliminated and/or that need to

1 take place.

2 I think that was probably one of my  
3 highlights on this.

4 MEMBER MCINTYRE: For me, what I,  
5 excuse me, for me, what I found the most  
6 interesting was just learning more about the  
7 Great Lakes and what the needs were here.

8 I just really had no idea that the  
9 trade was so robust and also that many of the  
10 needs that they have, they didn't feel were being  
11 met.

12 MEMBER BRIGHAM: You know, I, too, see  
13 all of the partnerships here and international  
14 partnerships, state and federal partnerships and  
15 relationships and all the dynamics of that.

16 A lot of people get it that it's  
17 economics and its viability of this and using the  
18 waterway. They get it better than a lot of  
19 people, I mean, in Washington, so, I think it's  
20 pretty robust and in action.

21 Of course, the size of the  
22 congressional delegation here is quite huge with  
23 all the states. And, so, that, you know, they  
24 have some leverage on things that related  
25 directly to our HSRP responsibilities.

26 So, it was a good meeting.

27 DR. MAYER: I said I'd reiterate a lot  
28 of what I've heard already because I guess I  
29 naively wondered why we were coming here. And, I  
30 really understand now.

31 And, I think in a kind of a microcosm,  
32 there are a lot of really good examples here of  
33 both successes and problems. And, I think the  
34 successes are, it's a place where there is a lot  
35 of interagency, intergovernmental, international  
36 cooperation and I think that's the good side.

37 I think the point about the gaps, you  
38 know, there's lots of overlap, but the point  
39 about the gaps is a critical one. I think that  
40 is something that this panel can pick up on and  
41 maybe do something about.

42 I think that's kind of the bottom line  
43 is that, as I, although I guess I've been on this  
44 panel on paper for a long time, but rarely ever  
45 here.

46 I think we have to really focus on the  
47 things that we can actually do in terms of making  
48 a contribution and try to find those in ways that

1 we can help the agency. And, I think this has  
2 been helpful in leading us in some of those  
3 directions.

4 MR. ARMSTRONG: So, thinking in terms  
5 of the presentations that we heard, I thought the  
6 most interesting thing or notable thing that I  
7 heard or that struck me was the need for  
8 bathymetry in the nearshore areas and in the  
9 lakes.

10 I have done surveys in the lakes and  
11 felt that, perhaps there really wasn't that much  
12 remaining survey mission here, but it seems that  
13 for a variety of reasons beyond navigation there  
14 are probably significant hydrographic survey  
15 requirements remaining here.

16 MEMBER PERKINS: Yes, just to build on  
17 what Andy said, that the map it once, use it many  
18 concept like I think we heard compelling  
19 testimony about there's a real opportunity, you  
20 know, here in the Great Lakes in that nearshore  
21 area, you know, to be able to apply that map at  
22 once, use it many, you know, concept.

23 A couple things that I heard that I  
24 just, and, I think we went over them rather  
25 quickly, but I thought they were significant.

26 And, that's that the agreement with  
27 the Army Corps of Engineers is now in place. You  
28 know, that was a recommendation that the panel,  
29 you know, put forward 18 months, two years ago.  
30 You know, so glad to see -- glad to hear it  
31 reported that that's now in place.

32 You know, the other piece that the  
33 Remote Sensing Division actually has a scripted  
34 mission assignment now with FEMA. You know, and  
35 that that technology that the oblique camera and  
36 in the rapid orthophoto processing that they've  
37 been able to do and deliver, you know, that they  
38 actually have a place in the response team with  
39 FEMA now.

40 I think that's significant and that is  
41 also something that the panel had addressed in a  
42 prior recommendation letter.

43 You know, the eye-opener for me, and  
44 I don't know if you can validate the economic,  
45 you know, data that was provided in the testimony  
46 that we heard, but the impact, if the Poe Lock is  
47 disrupted, you know, that the dollar, you know,  
48 30 days disruption on that lock and in the

1 significant that that will have to, you know, to  
2 commerce and navigation on the Great Lakes.

3 I thought that was really eye opening.

4 I think the last thing I would mention  
5 is that the coming changes in the datums. So,  
6 the international Great Lakes datum and the 2020  
7 datum and the challenge that NOAA will have in  
8 communicating that and how that's going to be  
9 addressed, you know, with the navigation  
10 products, you know, that NOAA provides.

11 And, I think that needs, you know,  
12 this needs a good PR campaign, you know, to help  
13 the public, to help the user understand, you  
14 know, what that means to them, you know, when  
15 they're either on their recreational boat or on  
16 their commercial boat.

17 MEMBER MAUNE: I'm really glad we came  
18 here. I learned so much about the Great Lakes.

19 When I saw that video of the ship  
20 going up the Cuyahoga River or down, which ever  
21 it was, the first time the guy said the joke  
22 about your too close to my bridge and you got  
23 slapped him, I thought it was a joke about a  
24 Donald Trump type of reaction that you slap back  
25 at somebody that criticized you.

26 But, the joke was that he was close  
27 enough to be slapped and I realized that when I  
28 saw how can they put that big ship up that little  
29 channel.

30 And, I guess the pilots, like Anne  
31 there, I came to appreciate -- I had no idea they  
32 were such narrow channels with these big boats.

33 I focus on the issue papers. I think  
34 we have three good issue papers this week. I  
35 have been given a few more recommendations as  
36 recently as this morning on how to maybe sharpen  
37 a couple of those papers and I'll see what I can  
38 do.

39 For our future issue papers, we have  
40 four possibilities. Anne is writing one on  
41 prevision navigation and she sounded like it  
42 would not take her long to get that to me.

43 Bill is going to write one on the  
44 Corps of Engineers and NOAA and that underlap  
45 issue is a good one.

46 Ed Kelly, if I'm not mistaken, and  
47 Gary Thompson were going to work with Mike  
48 Aslasken and other to put together one on NOAA

1 emergency response. I have no idea when you  
2 might be able to get that to me.

3 But we'll be starting our -- I presume  
4 we will resume our monthly meetings on the last  
5 Tuesday of September to review what we have and  
6 probably from Anne will be the first one out of  
7 the hopper.

8 And, we'll probably have one, unless  
9 you see a reason to change it anybody, the --  
10 we've been going with the last Tuesday of each  
11 month for our monthly meetings.

12 And, then, Susan was a maybe on  
13 recreational. So, it's been a maybe for a while.

14 MEMBER SHINGLEDECKER: It's not a  
15 maybe, it's just not tomorrow.

16 MEMBER MAUNE: Okay.

17 MEMBER SHINGLEDECKER: It's a definite  
18 with a little longer time horizon.

19 MEMBER MAUNE: Okay.

20 All right, that's all I have. Thank  
21 you.

22 MEMBER LOCKHART: So, for me, there  
23 was a couple of things that stood out.

24 We heard time and time again how there  
25 are many PORTS within the system, but it does  
26 have to be treated like a system, the Great Lakes  
27 and Saint Lawrence Seaways, a system.

28 And, that highlighted two things, I  
29 think. It highlighted again the problems we have  
30 with funding of PORTS which I know we talk about  
31 ad infinitum but I think it's glaringly obvious  
32 in a system like this.

33 And, then, the second thing, I think  
34 as taxpayers, we're very critical of the overlap  
35 sometimes between the Army Corps and NOAA. But,  
36 I think the thing that came out in this meeting  
37 which was really important was the fact that that  
38 underlap, if you will. And, I would echo what Ed  
39 said. I think that's a really critical issue.

40 And, so, I thought those are the two  
41 things that stood out for me.

42 MEMBER THOMPSON: One thing that stood  
43 for me is the paper I wrote on the reference  
44 frames. I think coming here was a good example  
45 of why we need to get an early start on PR  
46 because there are so many users of this will be  
47 impacted by the reference frame as this was a  
48 good example of the Great Lakes here because of

1 their new Vertical Reference Frame 2020 and then  
2 we go to the full in 2022.

3 So, I was glad we came here just for  
4 that reason and I think the timing was good for  
5 the paper.

6 I saw a lot of examples of cooperation  
7 between federal agencies. But, one thing did  
8 stick out, I think one of the presentations  
9 yesterday, someone mentioned that there was some  
10 data the Corps has that NOAA couldn't use because  
11 of format and something. So, those areas I think  
12 we need to continue to work on.

13 MEMBER SHINGLEDECKER: I guess my kind  
14 of echo those as well.

15 I was thinking that the systemic  
16 nature of the Lakes as a system and how, you  
17 know, one weak link in that system could bring  
18 navigation -- commercial navigation to a halt in  
19 the Great Lakes pretty quickly.

20 And, that just seemed really  
21 vulnerable to me.

22 In the systemic nature of it, the role  
23 that partnerships play, certainly in the  
24 international dynamic of that and, you know, what  
25 the impact of a lack of a physical navigation  
26 manager here has on those relationships or how  
27 they could be even further greater if that was  
28 there.

29 And, then, I think kind of, while it  
30 is a system, the differences between the Lakes,  
31 and specifically Lake Erie and the specific  
32 challenges that that Lake faces and, you know,  
33 the needs for current meters and water level and  
34 better understanding there to manage specifically  
35 at the Toledo end.

36 I mean, it's a small port. You've got  
37 regional economies up here that are still  
38 struggling that have not recovered. And, so, how  
39 do you overcome that funding challenge? Because  
40 I don't know that you're going to find it in the  
41 region given where they are in their recovery.  
42 But, the dire needs for that, for those gauges  
43 meters.

44 MEMBER HALL: I just want to add one  
45 thing, I learned how to use lipstick to show the  
46 water level.

47 MEMBER BRIGHAM: Joyce, could we have  
48 Lynne send us a copy of this new agreement

1 between the Corps and NOAA? Just so we -- just  
2 so Scott and I know this for setting the  
3 recommendation up the line.

4 VICE CHAIR MILLER: Yes, good thoughts  
5 and suggestions all.

6 I guess the thing I was amazed at, I  
7 had never really realized the seiche effect and  
8 what it could do to Toledo and it just -- I just  
9 can't even imagine.

10 And, if you had really a severe storm  
11 here, my goodness.

12 And, of course, since I'm a mapper, I  
13 have to echo Andy's statement that -- and Scott -  
14 - but, that the mapping needs are indeed good.

15 MR. ARMSTRONG: If I could give you  
16 anecdote, I was on a survey party. I was leading  
17 a survey party here surveying the upper Niagara  
18 River which is at Buffalo.

19 And, while I was here that summer, we  
20 had several days of strong winds blowing towards  
21 the southwest and piled up all the water over in  
22 Toledo.

23 And, then, the wind changed rather  
24 suddenly and people in downtown Buffalo had been  
25 down closer to the water and the seiche came in  
26 so fast that they basically had to run for their  
27 lives as the water rose to escape the rising  
28 water level here and that shift that happens so  
29 fast.

30 VICE CHAIR MILLER: Okay.

31 I think that was a pretty good recap  
32 of the meeting overall.

33 My next agenda item says, define  
34 questions for HSRP to address or develop plans  
35 for the next meetings.

36 We have developed a meeting schedule,  
37 I believe. We don't know the dates yet.

38 Besides the letter, I mean, basically  
39 our committees need to keep on making progress on  
40 their various issues with regular meetings.

41 And, I think we decided on a LIDAR  
42 topic for the next meeting. Are there any other  
43 suggestions for possible, especially being in  
44 Seattle.

45 I mean, one suggestion I thought of  
46 being in Seattle, they have a pretty extensive  
47 vessel control system there, I believe. I don't  
48 know that much about it, but that might be

1 something of interest for the next meeting.

2 Are there any -- are there other  
3 suggestions for the Seattle area that people  
4 would like to see?

5 Susan?

6 MEMBER SHINGLEDECKER: I had offered  
7 since the recreational representative didn't make  
8 it here in Ohio, I have offered to find someone  
9 in Seattle in the Pacific Northwest.

10 There's some interesting dynamics  
11 going on in Oregon and Washington. They have a  
12 very high number of paddle craft and the two  
13 states are working very -- in interesting ways to  
14 look at user conflicts with their large number of  
15 paddle craft. And, I'm sure that could come into  
16 play with such big ports up there as well. So,  
17 I'll see what I can do.

18 VICE CHAIR MILLER: Scott, did you  
19 have something?

20 MEMBER PERKINS: I was just curious,  
21 Admiral, will we have the or will you be able to  
22 report at the next meeting results of using the  
23 ROVs that are being -- that will be launched from  
24 the TH?

25 RADM SMITH: Yes, in fact I just took  
26 some notes over the course of the week of the  
27 things that I thought I heard more interesting  
28 hearing about.

29 MEMBER PERKINS: Thank you.

30 RADM SMITH: And, those, I have three  
31 that I think could be appropriate for next  
32 meeting, report on main systems, which is the one  
33 you just mentioned.

34 The charting of channels in Anchorage  
35 is I think a little bit more of a deep dive as to  
36 how that works now and where potentially the gaps  
37 are.

38 And, I clearly can work with Bill over  
39 the course of the next six months.

40 And, then, walk through our sort of  
41 hydro processing work flow. I think that would  
42 be appropriate for Seattle. And, it's -- I think  
43 it's easy from the outside to wonder what happens  
44 for months and months and months and then, but,  
45 you know, actually through it could be  
46 interesting. And, we've got some folks that  
47 could do that there in Seattle.

48 And, then, I think maybe later, maybe

1 in Silver Spring would be the place to sort of do  
2 a little bit of a deep dive as to how the  
3 charting system really works. Because I think we  
4 don't all know that either.

5 And, most people in Coastal Survey  
6 don't know that. So, I would offer those.

7 VICE CHAIR MILLER: This is Silver  
8 Spring?

9 RADM SMITH: Yes, for the charting  
10 one.

11 VICE CHAIR MILLER: For the charting  
12 one?

13 RADM SMITH: And, we'll do the hydro  
14 and -- we'll the hydro processing work flow in  
15 Seattle.

16 VICE CHAIR MILLER: Kim?

17 MEMBER HALL: Well, we talked a little  
18 bit about how to get more stakeholders and people  
19 working with, and I think academia there's a  
20 different, sorry, there's not just U&H, but the  
21 University of Washington has their advanced  
22 physics lab, I believe, as well. And, they're  
23 working on UAVs mostly with the Navy, but that  
24 might be a cool field trip to go and see what  
25 they're working on and some of their fun toys. I  
26 like seeing toys.

27 VICE CHAIR MILLER: Thank you.

28 One suggestion in a conversation  
29 sometime in the last two days, oh dear, I forgot.  
30 It'll come back.

31 Other suggestions?

32 DR. MAYER: If, depending on, I don't  
33 know if we've got the time, but one of the  
34 icebreakers is in -- well, one of them will  
35 definitely be up.

36 But, I was just suggesting that if one  
37 of the Healey or the polar -- working polars then  
38 we might be able to arrange a tour of that, too.

39 VICE CHAIR MILLER: Okay.

40 It sounds like it would be a very busy  
41 meeting. I suspect three days is going to be  
42 necessary if we cover even 70 percent of those  
43 topics because it's --

44 Oh, I know, especially in Seattle,  
45 because it's such a green state, I think we  
46 should make a real effort to include  
47 environmental groups, you know, in terms of, you  
48 know, hearing from the very green Seattle side,

1 too, about, you know, their perception of NOAA  
2 and, you know, how we can -- how, you know, how  
3 we serve them and how we can do better possibly.  
4 So, that would be my suggestion. I did remember.

5 Lawson?

6 MEMBER BRIGHAM: Well, it's here, it's  
7 a huge region with lots of congressional  
8 delegations and we need the full court press to  
9 get that, try to get either a Congressman, a  
10 Senator or even in a social thing and get the  
11 staff at the meeting.

12 So, there are lots of districts there  
13 with Tacoma and Seattle.

14 So, again, you know, it's hard to do,  
15 but, you know, we had Congressmen in LA, he spent  
16 the day with us. So, it's possible.

17 And, I think the delegations there are  
18 closer to the city and understand maritime issues  
19 better than other areas.

20 So, get the full court press, get the  
21 information out and see if we can arm twist some  
22 people to come.

23 GB: Yes, we'll be making a bigger  
24 press there. Plus, NOAA has a huge presence in  
25 the region and is very near and dear to the  
26 delegation out there.

27 So, I think we'll have a much higher  
28 rate of success there.

29 And, on the other side of the  
30 equation, we also have off the coast of  
31 Washington, of course, is the marine sanctuary,  
32 so, that might be an angle in terms of the NGO  
33 and the environmental community.

34 I'd be interested in how that  
35 community -- rather than perceive NOAA at large,  
36 kind of like here, how is our foundational data  
37 by them or value to them would be a good angle to  
38 get from them.

39 These folks here did a great job of  
40 tying on. We really don't have anything to do  
41 with navigation, but, boy, your stuff is really  
42 important to us in these other ways.

43 And, I don't know we'll get that from  
44 those folks, but, we can certainly make a try.

45 But, I think the congressional  
46 delegation thing, we will -- the governor of the  
47 state is a former Congressman, is a huge  
48 supporter of NOAA, Governor Inslee and several

1 levels I think we can get state and federal,  
2 we'll be focusing on that.

3 MEMBER KELLY: Just as a footnote on,  
4 if we're going to set up a panel NGOs or  
5 environmental groups, there's also a fairly large  
6 and active Native American Tribal organizations  
7 up there that primarily impact with the  
8 endangered species, some of the hunting, the  
9 fishing, et cetera.

10 We might want to get them for their  
11 viewpoint as far as applicability for how they  
12 use charting in that area as well.

13 RADM SMITH: I just wanted to pile on  
14 on Glenn's thought on the sanctuaries and their  
15 intersection between sanctuaries and mapping.

16 Because, particularly, out there,  
17 those sanctuaries have leaned forward much more  
18 and as building and mapping into their plans for  
19 how to manage their marine protected areas.

20 VICE CHAIR MILLER: Okay.

21 I certainly think that's quite a list  
22 for Seattle. And, at this point, I'd also like  
23 to thank Lynne and her -- and the Office of Coast  
24 Survey staff for all the hard work they do in  
25 setting up these meetings.

26 I know sometimes we're all sort of a  
27 pain in the neck, but we do appreciate it.

28 Ed, do you think there's, at this  
29 point, there's any cause to go through -- back  
30 through the papers or do you think we're at a  
31 state where we can do some final edits and send  
32 them out for one, you know, a final final look?

33 MEMBER MAUNE: I was asked if I could  
34 do anything to sharpen the opening sentences on a  
35 couple of those papers.

36 VICE CHAIR MILLER: Including mine and  
37 --

38 MEMBER MAUNE: Yours and Gary's as  
39 well. And, I would need to look at that to see  
40 what I could come up with.

41 Of course, that's -- Kim specializes  
42 in that, too. So --

43 MEMBER HALL: Well, I think what the  
44 -- with Gary's paper, I think the issue there is  
45 we either go and make it fully nontechnical and  
46 we speak to, you know, the general public who  
47 don't understand it, or, it's good as it is.

48 So, I just -- I don't know that

1 there's much more wrangling. I think the  
2 sentence that you added, it makes sense. It kind  
3 of was in maybe nobody's going to read the  
4 technical aspects of it.

5 But, you know, I'm kind of remiss to  
6 continue to play with these papers because we --  
7 they're never going to be perfect.

8 MEMBER MAUNE: Yes.

9 MEMBER HALL: Again, I think what we  
10 found with the PORTS paper is we finally figured  
11 out kind of our thesis statement and what the  
12 issue really was. And, it was the vulnerability  
13 to the funding mechanisms that we've seen.

14 So, if there's something else with the  
15 datum that we want to have a different way of  
16 approaching it, but to continue to try to put, if  
17 it truly is a pig, the lipstick on the pig.  
18 That's just not something I'm interesting in  
19 doing. That's kind of a waste of my time and  
20 Dave's time and Gary's time unless we want to do  
21 a different approach.

22 And, then, we'd need somebody, we'd  
23 need help with somebody going and who can really  
24 do that technical to nontechnical writing. But,  
25 that's -- because it's something I know enough  
26 about, I don't feel comfortable doing that.  
27 Other times, I've been able to do that.

28 As for Joyce's paper, and I'm not  
29 trying to make author's any blame. I think it's  
30 fine, again, the way it is. I think there were  
31 some great suggestions this morning by Glenn  
32 about how to make some comparisons that are  
33 compelling.

34 You know, do we want to do that?  
35 That's fine. I think we can do some tweaks  
36 there.

37 And, I think the PORTS paper is just  
38 fine.

39 So, I really am remiss to continue to  
40 -- we spend a lot of time on it, we spend a lot  
41 of time talking about it. Is there a point where  
42 it is good enough? It is the 80 to 90 percent  
43 solution. I mean, we're happy with it and it  
44 shows what the panel's actually trying to send up  
45 the chain.

46 So, that's kind of where I'd ask is if  
47 there really is a question about the datum paper,  
48 that's got to be a complete rewrite in a

1 nontechnical sense or it's just fine the way it  
2 is.

3 VICE CHAIR MILLER: Actually, one  
4 suggestion I had, I was starting the letter this  
5 morning. And, I went back to get the title of  
6 that. And, I thought, it's a very technical  
7 title that wouldn't necessarily draw in, you  
8 know, most people would say, well, I don't even  
9 know what those things are, so why would I read  
10 this?

11 And, I was wondering if one tweak to  
12 the paper might be to make the title something  
13 that datum changes and their impact on everyone  
14 or I just thought maybe that would help to make  
15 that paper more accessible.

16 MEMBER MAUNE: I think that's a valid  
17 suggestion. And, I can work with Gary on that  
18 part of it.

19 I can also -- it's really one  
20 paragraph in Gary's paper that is more technical  
21 that, perhaps, I can look at that to see if it  
22 can be a little less technical. So, I can work  
23 with Gary on that paper.

24 I've had suggestions that we need a  
25 better zinger up front on your paper. And --

26 VICE CHAIR MILLER: Yes, I've had that  
27 suggestion, too. And, I considered that and I  
28 thought it was in -- I don't know, I think  
29 legislative mandates are compelling to some  
30 people and that's the reason I started with them.

31 I mean, if the general feeling is we  
32 should make it bottom line up front completely,  
33 the bottom line is in the second paragraph, not  
34 the first --

35 MEMBER MAUNE: Yes.

36 VICE CHAIR MILLER: -- is the  
37 difference.

38 MEMBER MAUNE: We're trying to have  
39 some degree of consistency between all these  
40 issue papers so they have somewhat the same look  
41 and feel. And, we try to hit them hard with the  
42 opening sentence.

43 But, frankly, I need to take a look at  
44 that again. And, like some of -- like she said,  
45 sometimes you have to stop. It's not perfect,  
46 but it's close to being perfect and we --

47 One other point I wanted to make was  
48 that on the paper on PORTS, I really like that

1 map that had the three colored dots on it. To  
2 me, that sends an important message and I'm  
3 wondering, do we have way where we can  
4 appropriately get that issue paper in the hands  
5 of all the Congressmen and Senators who have red  
6 and yellow dots in their areas, that they might  
7 be able to influence something about, hey, this  
8 is unacceptable. We need this stuff, too.

9 Is there a way that we can get these  
10 papers to the Senators and Congressmen so  
11 affected?

12 GB: So, we've talked before on the  
13 ethical issues. You know, your job is to advise  
14 the Undersecretary, not so much your Congressman.

15 All the page group papers, when  
16 they're finished, should be posted on the website  
17 and any organization, including yours, can go and  
18 download them and share them with whoever they  
19 want.

20 This is -- don't say, I'm from NOAA's  
21 HSRP, this is where NOAA's interests ought to be  
22 recommended to anybody's member.

23 So, those, once they're up and freely  
24 available, it's not the panel's job to get them  
25 to Congress. It's the panel's job to make sure  
26 they're available for people who are interested  
27 in these programs to use.

28 Because your job kind of ends and  
29 that, you know, we've had this conversation with  
30 them. We need to be careful about that.

31 But, if the rules are, take your HSRP  
32 hat off and now I'm Ed Saade from Fugro or I'm  
33 Dave Maune from Dewberry, right? And, we've got  
34 these compelling papers that NOAA's Advisory  
35 Committee put out.

36 You're perfect -- there's a line there  
37 and as long as you stay on the right side of it,  
38 these papers are very useful and they're public,  
39 then you recommend to the Undersecretary's public  
40 and they are posted and that's kind of the  
41 avenue.

42 And, not just your organization, but  
43 any organization with an interest are free to use  
44 them and to develop their scheme for getting  
45 those to the Congressmen.

46 But, it's not going to be the agency's  
47 job, including you as part of the agency,  
48 especially government employees, it's going to be

1 somewhere else, I think, to make that.

2 Our argument is going to be compel for  
3 the transition. That is different than Congress.  
4 And, the administration, we can use these  
5 documents, you can advise your -- you're advising  
6 the administration, they're full cycle with your  
7 HSRP hat on.

8 But, externally, with Congress, you  
9 need to be a little bit careful. Because,  
10 technically, if you go to the -- if you go to  
11 Congress as an HSRP member, you've got to be  
12 clear through NOAA and DOC Affairs to do that.

13 So, it's a -- that's just the line.  
14 But, that's -- I think they're very useful. I  
15 think these documents are useful in many venues.

16 And, one final thought, on the kind of  
17 the punchy line, I've already talked with Joyce  
18 this morning about what's that cover document  
19 going to look like. And, that's where in each --  
20 one of these papers, we're going to have two  
21 sentences, that are going to be more important  
22 than the grab that's going to get them.

23 Because, there's going to be a paper  
24 on top of the six papers that's going to be for  
25 the transition. Right? That's going to talk  
26 about the importance of each of these. And,  
27 that's where you really need to have your strong  
28 hooks, I think.

29 So, that's going to be worked on, not  
30 here at this meeting, but I think in between and  
31 I think we've got a couple folks on the panel who  
32 are going to take a look at that and get that  
33 done.

34 VICE CHAIR MILLER: Yes, Bill and I  
35 are going to try to develop just a -- and this  
36 should definitely be just a one-sided, one page,  
37 one side letter that says, you know, as -- to  
38 whomever we are -- the transition team, the  
39 incoming permanent team, whoever, you know, we'd  
40 like to draw your attention to these papers that  
41 the hydrographic services review panel has, you  
42 know, has created and the six papers are, you  
43 know, title and whatever the zinger is.

44 So, Carol?

45 MEMBER LOCKHART: So, Glenn, when  
46 these things go up on the website and they're  
47 made public, I'm presuming or am hoping that  
48 there's some kind of measure there as to how many

1 times they're being viewed or downloaded.  
2 Because that would give us a measure of how  
3 useful, other than the internal up to the  
4 administrator, how useful they actually are.

5 Because everyone's spending a lot of  
6 time on these and if they're not ever downloaded  
7 or they're not ever viewed once they're on the  
8 website, I think that's a bit of a problem for  
9 us. Right?

10 MEMBER MAUNE: Do you track the hit  
11 rate on things like that?

12 GB: So, I don't track because they're  
13 from the Coast Survey's HSRP's site. So, we  
14 certainly have our communications division  
15 reports on the NOS website and how many hits it  
16 gets, so I assume at a program level they can do  
17 the same. Admiral, do you know?

18 RADM SMITH: Yes, I think we have the  
19 capability of doing that as part of a larger  
20 framework where we're usually counting hit rates  
21 in millions for chart downloads and stuff.

22 I don't think we usually pay as much  
23 attention to, you know, single documents and web  
24 pages. Do you know how that works?

25 MS. MERSFELDER-LEWIS: We could check  
26 that, but you would have to first point people to  
27 that website so that they would actually know  
28 that they're there.

29 So, it's important that I would say to  
30 you, think about how you want to distribute that.  
31 You could point them to the website. I could  
32 give you the hard copies. They're on the web,  
33 you know, however you want to do it.

34 But, no, I don't think that many  
35 people are wandering over. So, I'm sorry about  
36 that. But, just realistically speaking, we've  
37 have to make -- we need to gear up to think about  
38 how we want to use that.

39 MEMBER MAUNE: Okay. And, Joyce, you  
40 are putting some final touches on your paper, is  
41 that correct?

42 VICE CHAIR MILLER: I was going to  
43 discuss what we should do with you maybe briefly  
44 --

45 MEMBER MAUNE: Okay.

46 VICE CHAIR MILLER: -- before we  
47 adjourn.

48 MEMBER MAUNE: Okay, fine, thank you.

1 VICE CHAIR MILLER: Yes.

2 MR. ASLASKEN: I have one comment on  
3 the papers.

4 Of course, at NGS, we have lots of  
5 geodesy translation issues, as one might imagine.  
6 So, and, I don't know if we have seen or want to  
7 see, but we spend a lot of time on these  
8 translating this very issue into very  
9 straightforward terms that are two minutes or  
10 less.

11 So, I would point you there in the  
12 transcripts, maybe there's some wording there you  
13 can use to maybe simplify not only the datums but  
14 also maybe reference that in the paper because,  
15 you know, what we, you know, going through to --  
16 you know, when we have gone to The Hill trying to  
17 explain geodesy and why that's important is very,  
18 very difficult to folks who are typically history  
19 majors and attorneys. Right?

20 So, the library of videos, I'll  
21 forward that around to the panel, I think you  
22 ought to look at those and reference them. And,  
23 they gave us transcripts there that go through  
24 the entire flow. But, there's -- and, I don't  
25 know if CO-OPS and Coast Survey have similar  
26 references there, but that -- the visual has been  
27 a better way to sell our message.

28 VICE CHAIR MILLER: Okay, yes?

29 MR. ARMSTRONG: So, following up on  
30 the sort of getting the word out and what Glenn  
31 says, I suspect -- I know that I get, you know,  
32 score of newsletters every day, maritime, eco,  
33 boating.

34 I would think that one thing we  
35 certainly would want to do is when the papers are  
36 ready and we post them on the website, then put  
37 out a little communications note to all of those  
38 kind of daily summaries announcing that the HSRP  
39 results and position papers for the panel have  
40 been posted and the link. I think that would be  
41 one way to --

42 GB: Well, like the Brian's Maritime?

43 MR. ARMSTRONG: Yes, Brian's Maritime  
44 and EnergyWire or EcoWire or --

45 GB: And, so, I don't think, you know,  
46 that in terms of the administration, in my  
47 experience, your job is to advise the  
48 Undersecretary once those come in. NOAA's not

1 going to do that outreach, I don't think.

2 You've got your papers in to the  
3 Undersecretary, we're kind of done advertising  
4 them because we've got the panel's  
5 recommendations there. I don't think we're going  
6 to be doing a press release and that kind of  
7 stuff. We haven't in the past.

8 And, I just think internally, there's  
9 a little tension there. That you're job -- our  
10 job on the panel is to get your recommendations  
11 to the Undersecretary.

12 What happens with it after that, I  
13 don't know that NOAA's going to be inclined to do  
14 a lot of outreach.

15 VICE CHAIR MILLER: So, maybe we can  
16 send to --

17 GB: The Science Advisory Committee,  
18 and NOAA does not put out, you know, we put out  
19 the FYI notice at your meeting, but NOAA does not  
20 follow up with releases about what the advisory  
21 committees have done, that I've seen and I review  
22 every press article we put out and approve it.

23 And, there's a lot of advisory  
24 committees at NOAA. And, I just haven't seen,  
25 even the Science Advisory Board, which is the  
26 biggest giants in the -- you know, I don't see  
27 them putting out a lot press.

28 So, I don't think you're going to see  
29 that push coming from inside. I just don't think  
30 that's going to happen.

31 MEMBER BRIGHAM: But, these are  
32 technical kind of informational sheets. So, why  
33 are we doing them, I guess is the answer? Just  
34 to advise the administrator to read a very basic  
35 thing that she would, in fact, know already?

36 No, they're for outreach. So, how do  
37 we -- I've already sent out hundreds of people  
38 because of this arctic especially. I never  
39 identify myself as HSRP. And, of course, they  
40 can read the thing and see that I'm on the  
41 committee.

42 But, it's just, I send them all over  
43 as an arctic guy, so to speak. And, it's very  
44 helpful informational sheet to the research  
45 community, to the Arctic Research Commission, to  
46 staffers.

47 I get feedback that these are great  
48 things. So, send them to also to the website.

1 Take a look at a website what this --

2 So, I don't know, I'm part of their  
3 communication machine, but, in my academic  
4 specialty. I understand being careful not to  
5 identify myself as HSRP but I don't know how we'd  
6 use them other than that.

7 And, we're all experts, supposedly,  
8 you know, hydrographic services and that kind of  
9 thing. So, maybe in our communities like Ed and  
10 his commercial world, how would he use it?

11 I mean, I don't know. I'm still a  
12 little torn on what -- how we use them and how  
13 NOAA would use them. Still seems to be a bit of  
14 a question from my point of view anyway.

15 VICE CHAIR MILLER: Well, Dave and I  
16 are co-chairs of the Planning and Engagement  
17 Committee. Perhaps Planning and Engagement can  
18 come up with a strategy on that. I don't know,  
19 but, we need to think about it and --

20 MS. MERSFELDER-LEWIS: I have a very  
21 brief comment. The Admiral -- the past Admiral  
22 did use some of the issue papers. He actually  
23 took one of your letters and an issue paper to  
24 The Hill and said, oh, by the way, here is to  
25 Murkowski's staff an arctic charting and said  
26 look at the recommendations that we have had.

27 So, he -- there are being used, you  
28 know, that's a very, very specific and useful  
29 tool to be -- for some leaders to be able to, you  
30 know, occasionally use, even if the  
31 administration may not love that we did that.  
32 But, they -- you were able to -- it was a very  
33 helpful to have that in hand.

34 And, I think for some of the other  
35 ones as well, it will be the same kind of thing.

36 VICE CHAIR MILLER: Okay, so at our  
37 next Planning and Engagement meeting, we'll  
38 continue this discussion, I think.

39 Actually, I'm sorry, Kim, I wondered  
40 on the PORTS paper if there needs to be a  
41 partner's section or would it include the entire  
42 world?

43 MEMBER HALL: Listing who the partners  
44 are?

45 VICE CHAIR MILLER: Yes.

46 MEMBER HALL: I mean I think we did a  
47 -- we tried to put at least all the end users I  
48 think but that's a different focus.

1                   And, again, this goes to the right  
2 now, we've got partners and how that we're  
3 actually looking to actually shift a little bit  
4 of a still partnerships but not with the funding.

5                   So, I think it's a smart idea except,  
6 for now, the new objective of that paper about  
7 the funding.

8                   MEMBER KELLY: And, the partners would  
9 be too broad and diverse because we'd have to  
10 include all the people that have been wrangled  
11 into paying for some of this.

12                  VICE CHAIR MILLER: Yes, okay.

13                  MEMBER KELLY: And, it'd be, you know,  
14 and it's a different one in each place. So, if  
15 for 28 ports locations, you'd have a roster of  
16 some 28 partners plus the users, plus -- it'd be  
17 too big, which is the good news.

18                  PORTS is a tremendous product that's  
19 very well received. It contributes on a daily  
20 basis to the health and well-being of the  
21 American economy. It protects lives and  
22 property.

23                  And, I think the paper points to the  
24 key issue, is it's vulnerable to this very, you  
25 know, unstructured and unreliable funding system  
26 that can and has turned it dark in several  
27 locations.

28                  VICE CHAIR MILLER: Okay. All right,  
29 it was just a thought.

30                  Let's -- are there -- is there any  
31 more discussion on any other topic except the  
32 recommendation letter?

33                  MEMBER SHINGLEDECKER: I have one more  
34 thing on the datums paper, I almost hate to go  
35 there.

36                  It wasn't until we went around and  
37 said our thoughts and Gary mentioned something  
38 about the outreach that is needed to educate end  
39 users about the changes in the datums.

40                  I didn't take that as a need, I didn't  
41 get that when I read the paper. I might have  
42 missed it, but I'm worried if that really is a  
43 dire need, do we need to communicate that?

44                  Because, I've got a lot of rec boater  
45 end uses and I -- now I'm going, oh, what do I  
46 need to tell them? What will exactly change for  
47 that end user?

48                  And, I'm -- if I'm not aware of it,

1 I'm worried that something might be getting  
2 missed.

3 MEMBER THOMPSON: So, that's one of  
4 the recommendations in the paper is to work with  
5 groups to educate them.

6 MR. ASLASKEN: Correct. And, again,  
7 a big focus, the focus of the geo special summit,  
8 right? So, engaging at all user levels and doing  
9 that now. How we do that, again, is a lot like  
10 for this video that I just sent you all. It's  
11 one of the ways we're trying to do that.

12 Because, in layman's terms, as much as  
13 you can, you know, I have to agree with Gary,  
14 some of the stuff, you just can't not say, you  
15 know, this is only way to say it.

16 But, that those videos are part of it  
17 but the larger community and educating, that's a  
18 message that I think we ought to reiterate back  
19 to NGS as well. That, maybe going to  
20 nontraditional type outlets, conferences,  
21 education, you know, that type of thing might be  
22 good recommendations for you guys to push on as  
23 well.

24 MEMBER SHINGLEDECKER: I don't know if  
25 there's a way to play that up in the paper a  
26 little bit more. Because, a lot of those end  
27 users don't even know they're using datums. They  
28 don't know what a datum is.

29 So, it is a really technical paper and  
30 if you get to that fourth paragraph and you're  
31 like, whoa, I don't know what an ellipsoid is or  
32 I, you know, if you don't get down to the  
33 recommendation, if that is a really key takeaway,  
34 it's in there, I didn't really feel its weight  
35 until Gary said it.

36 So, we might want to -- I'm not saying  
37 rewrite the whole paper.

38 MEMBER HALL: But, the transcript that  
39 Mike just sent us is almost exactly what our  
40 paper should read like if we want something and I  
41 am not anti doing it, but if we read -- if you  
42 read through quickly, he sent the video as well  
43 as the kind of transcript from it. And, I think  
44 that's probably more of what some of us are  
45 looking for versus what's there.

46 I just, again, it's what is the  
47 objective of what we're trying to do? Is it to  
48 inform technical people, hey, you really have to

1 get this, you need to figure out how to  
2 translate? Or, are we supposed to translate for  
3 them up to the Undersecretary?

4 So, there's a kind of an issue here  
5 with what is our objective and what are we trying  
6 to hope to accomplish?

7 I think recommending the education is  
8 right, we're not the ones who's supposed to  
9 figure out what that education looks like.

10 So, I just, again, it becomes a little  
11 bit complicated on exactly what our end goal is.

12 MEMBER THOMPSON: So, let's do this,  
13 let me write a second paper, because I think the  
14 one that we've written is very important for  
15 NOAA. So, let me do a second paper and plain --  
16 a one-pager. So, let me give a shot at that.

17 MEMBER HALL: And, like I said, the  
18 stuff that Mike just sent us I think is there's  
19 some fodder there, obviously. And, I'm happy to  
20 help.

21 MEMBER THOMPSON: Okay.

22 GB: I think, to some, the paper's  
23 already achieved its purpose. The message is  
24 being received that the program that's doing  
25 these datum changes needs to have a very plain  
26 English outreach plan and strategy to do it.

27 And, some of the materials might,  
28 they're already aware of that, but we've gotten  
29 your reiterating it. But, the outreach campaign  
30 to educate the public is going to come through  
31 the program.

32 We've got that message from you folks  
33 loud and clear. To some extent, you've already  
34 won on this paper because it's really how to make  
35 the public aware.

36 I've already got it noted for  
37 something, how do I make the new Secretary aware  
38 this is coming and it's important, it's part of  
39 the transitioning. It's already on my list from  
40 being here this week.

41 So, I think we've got the message that  
42 we need to have a plain English -- we've got some  
43 great people in our plain English communications  
44 folks who do work similar to the kind of work  
45 Kim's done here this week.

46 So, I think we've got it and I think  
47 the programs are fully aware of it, Mike, and is  
48 already keenly aware.

1                   Now, the needs that go beyond the  
2 technical experts that need to know, I mean,  
3 what's that, you know, Al Roker last week went  
4 into the new Gozar satellite, it was on the Today  
5 Show. In two minutes, all of a sudden, everyone  
6 understood how the satellite was really  
7 important.

8                   We need a similar kind of a mechanism  
9 for this and we need to work on that. I think I  
10 got it, I heard it loud and clear from you folks.

11                   VICE CHAIR MILLER: Okay. All right.  
12 Okay.

13                   Yes, and I have just -- I just glanced  
14 at Mike's thing and it is plain English. It's  
15 very good.

16                   Okay, let's go to the letter in the  
17 hopes that we can get out of here in an hour and  
18 15 minutes or so.

19                   I had Lynne put this up but we've each  
20 got a copy of it.

21                   Let me tell you the -- or let me  
22 discuss the discussions we've had about what this  
23 letter should be.

24                   The general feeling of the people that  
25 I have talked to or had a chance to talk to is  
26 that we heard a lot of valuable information that  
27 we, in the Great Lakes area and gained an  
28 understanding of its complexities and its  
29 uniqueness, I guess I'd say.

30                   And, but, we didn't -- and, we heard  
31 four general areas of concern, communications --  
32 concern or congratulations, communications,  
33 partnerships.

34                   The title or the heading says PORTS.  
35 What I mean is the whole water level issue and  
36 multiple use of sensors which we've -- a lot of  
37 which we've got in the PORTS paper already.

38                   But, we heard yet again how important  
39 that is.

40                   And, then, finally, the last one is  
41 mapping needs.

42                   And, we have three strong papers that,  
43 in themselves, are recommendations. So, I  
44 haven't been able to sort of isolate one or two  
45 single driving issues that we heard. We heard a  
46 lot of different issues.

47                   And, so, in trying to write the intro  
48 to the letter, basically, based upon less or

1 Galveston's letter, I thought perhaps we would  
2 introduce --

3 Well, first of all, the thank yous and  
4 the, not boilerplate, but the sort of the  
5 introduction up front this was a meeting in the  
6 Great Lakes and we saw these, you know, how  
7 unique they are.

8 And, then, basically present our  
9 papers up front because we've put so much work  
10 into them and they do stand as recommendations on  
11 their own. And, so, use those as sort of, I  
12 don't know whether I'd call them major  
13 recommendations, but just use those.

14 Because, I think one of the most  
15 important things is the work we're doing when  
16 we're not sitting here, the papers and so forth.

17 And, then, in each of these four  
18 topics, discuss what we heard. And, a lot of our  
19 -- actually, it was Glenn that said it, we don't  
20 have any big R recommendations from the Great  
21 Lakes panel meeting.

22 We've got a bunch of little R  
23 recommendations, most of which we need to pass on  
24 to Coast Survey as, you know, we'd like to hear  
25 more about this. You know, this issue was  
26 brought up, the stakeholders said, whatever they  
27 said.

28 And, then, and maybe two to four  
29 bullets under each one of major topics that -- or  
30 -- and to pass along the request for more  
31 information.

32 We also heard a couple, you know, we  
33 heard a couple things that really aren't OCS, but  
34 we might pass along to other parts of the agency,  
35 the environmental sensitivity maps being one  
36 example of that.

37 And, so, I think in the order in the  
38 -- in terms of efficiency what would be best is,  
39 there's 12 of us here on the panel. There's four  
40 topics. We spend say, until 9:30 crafting a  
41 paragraph on each of those subjects and then  
42 we'll pass that back and review those paragraphs  
43 and I'll take the action to put them into a  
44 letter form.

45 Does that work for everyone?

46 And, I think there's some natural --  
47 so, look at the communications, partnerships, the  
48 PORT, this is not specifically PORTS, it's the

1 great need for the water level sensors and the  
2 NOAA sensors here in the Great Lakes are and then  
3 mapping needs.

4 And, there's some obvious ones Andy  
5 and I will probably do mapping. But, and anybody  
6 else.

7 So, communications, three people to  
8 work on communications. Anne?

9 MEMBER MCINTYRE: We'll be the three.

10 VICE CHAIR MILLER: You'll be the  
11 three?

12 Partnerships? Susan? You three?

13 Okay. And, that leaves, let's see,  
14 you two -- oh, we've -- hold it, maybe it's only  
15 two people per -- let's see, PORTS, well, we've  
16 got mapping, the water level sensors, you guys  
17 want to work on that, the two of you? Or, no,  
18 let's see, communications, partnerships, PORTS  
19 and water level sensors.

20 You two, would you? Yes. And, then  
21 the three us can work on mapping.

22 MR. ARMSTRONG: Okay, that would be  
23 current sensors, I mean, the current meters as  
24 well as the water level?

25 VICE CHAIR MILLER: Yes, current  
26 meters, water level, the, yes, what we heard.

27 And, so, I --

28 MEMBER HALL: I think we summarized --

29 VICE CHAIR MILLER: Pardon?

30 MEMBER HALL: We feel actually we  
31 should probably take the PORTS stuff on since  
32 we've been doing that and then trade with  
33 communications.

34 VICE CHAIR MILLER: Okay.

35 MEMBER HALL: Potentially.

36 MEMBER PERKINS: Thank you.

37 VICE CHAIR MILLER: Okay. You're  
38 doing communications.

39 Okay, and, you might think about some  
40 of the -- I was writing things down and you might  
41 think of -- we heard from each person what they  
42 thought was important. You might just repeat  
43 that and see, you know, see what kind of bubbles  
44 to the top as the most important item in any one  
45 of those.

46 MEMBER MAUNE: Did you say you want a  
47 paragraph from each of us or an opening sentence  
48 with several bullets behind it?

1 VICE CHAIR MILLER: That's -- yes, a  
2 third of a page, I guess I'd say.

3 MEMBER MAUNE: You'd like them for a  
4 third of a page however we format it?

5 VICE CHAIR MILLER: Yes, I think it  
6 would be good if they were formatted the same,  
7 you know, if -- bullets or not bullets?

8 I think bullets because in some of the  
9 items are kind of diverse under a single category  
10 and they might not flow well together.

11 Okay, guys, what do you think? I can  
12 do it here. So, what's our bottom line?

13 (Whereupon, the above-entitled matter  
14 went off the record at 8:56 a.m. and resumed at  
15 9:42 a.m.)

16 VICE CHAIR MILLER: Okay, once again,  
17 was we received inputs stressing the value of the  
18 PORTS system to safe navigation and commerce.  
19 Great Lakes data reported a regional need for  
20 additional water level and current sensors.

21 However, the establishment and  
22 maintenance of regional PORTS system are  
23 constrained by the comment cautionary and funding  
24 mechanism.

25 A need was expressed for VHF voice  
26 broadcast of meteorological and environmental  
27 data information in offshore areas where internet  
28 coverage is absent.

29 Sounds pretty good to me, everybody  
30 okay with that?

31 Partnerships, can you slow down?

32 (Off mic comments.)

33 VICE CHAIR MILLER: And, up at the top  
34 level, too?

35 And, we'll put the, what is it, a  
36 copyright trademark symbol on it? Yes, okay.

37 Okay, we witnessed the strong and  
38 unique nature of partnerships driving management  
39 of the Great Lakes system.

40 The involvement of groups like the  
41 Great Lakes Commission highlight the  
42 international collaboration present in the  
43 region.

44 We were pleased to hear that the  
45 panel's recommendation from the HSRP meeting in -  
46 - for a U.S. Army Corps and NOAA agreement has  
47 been finalized.

48 With a large number of stakeholders

1 and federal partners in the region at times,  
2 there can be a concern about overlapping missions  
3 and redundancies.

4 Instead, our stakeholder panels  
5 highlighted potential gaps -- well, instead  
6 doesn't make sense to me. I would say in  
7 addition our stakeholder panel highlighted  
8 potential gaps in mission and scope.

9 MEMBER SHINGLEDECKER: What we're  
10 trying to say there was, often times when you  
11 have multiple federal partners, there's a concern  
12 about redundancies.

13 Actually, we found the opposite.

14 VICE CHAIR MILLER: Okay.

15 MEMBER SHINGLEDECKER: So, that's what  
16 the instead was meaning to say. At times,  
17 there's concern for redundancies and overlap --

18 VICE CHAIR MILLER: Okay.

19 MEMBER SHINGLEDECKER: -- and that's  
20 not what we found here.

21 VICE CHAIR MILLER: Okay.

22 MEMBER HALL: I mean, I would almost  
23 say that, though, that we expected that with a  
24 large number of stakeholders and federal in the  
25 region there could be concern about overlap in  
26 mission, period.

27 Instead, our stakeholder panel  
28 highlighted potential gaps in mission and scope.

29 VICE CHAIR MILLER: Okay. So, at the  
30 first, with -- we say, instead we learned that or  
31 we expected that.

32 MEMBER HALL: Yes, yes. Well, we  
33 expect it with the -- or, yes, we expected with  
34 the large number of stakeholders.

35 VICE CHAIR MILLER: That with -- yes.

36 MEMBER LOCKHART: I don't know if I'm  
37 comfortable with saying we expected there to be a  
38 lot of overlap, just because there's  
39 partnerships.

40 MEMBER SHINGLEDECKER: I just think  
41 there's a tendency.

42 MEMBER MAUNE: There's a potential for  
43 an overlap.

44 MEMBER LOCKHART: Yes, there's a  
45 potential.

46 VICE CHAIR MILLER: Okay.

47 MEMBER LOCKHART: But, I think  
48 expected it, I didn't come here expecting that.

1 DR. MAYER: So, you're saying, just  
2 say with the large number of stakeholders and  
3 federal partners in the region, there is a  
4 potential for overlap in mission and scope.

5 VICE CHAIR MILLER: Okay.

6 DR. MAYER: However, we found.

7 VICE CHAIR MILLER: Yes.

8 There is a potential for. Yes, I'd  
9 use a -- I'd do either a period or a semicolon  
10 there. Yes.

11 However, our stakeholder panels  
12 highlight potential gaps in mission.

13 Well, instead's okay there, isn't it?  
14 Yes, let's leave instead.

15 (Off mic comments.)

16 VICE CHAIR MILLER: I would just say  
17 gaps. Yes, yes, so take out the second  
18 potential?

19 Okay, next one?

20 MEMBER HALL: I don't remember exactly  
21 why we made that recommendation. It was a need  
22 at this, but that's not good.

23 VICE CHAIR MILLER: Yes, okay, all  
24 right, I'll get to it. Don't worry about it,  
25 I'll just review notes. It was a while ago.

26 There is -- did you guys say anything  
27 about the Nav -- not having a full-time Nav  
28 Manager? The same one? Oh, okay.

29 (Off mic comments.)

30 MEMBER HALL: So, I don't know, is  
31 that redundant to what we had in the -- our PORTS  
32 one? Because it really relates to that.

33 MEMBER PERKINS: You know, I noticed  
34 that and I don't know how we -- I don't know, do  
35 we move it into just into communication? I think  
36 because we're talking about communicating that  
37 data to users it should be in the communication  
38 section. It's not just PORTS. It's not just  
39 PORTS data, though.

40 VICE CHAIR MILLER: So --

41 MEMBER PERKINS: So, I think you'd  
42 take it out of PORTS and you put in  
43 communication.

44 VICE CHAIR MILLER: Okay. All right.  
45 Can you just put a note up or can you move that?  
46 We'll take care of that.

47 So, the -- let's see, the director of  
48 the CMTS, that does not need a comma.

1 Recommended synchronization of U.S. Army Corps  
2 and NOAA data inputs and out, this is one more  
3 challenge -- of the more -- this is one of the  
4 more challenging issues. So, we need an of, yes.  
5 Okay.

6 MEMBER HALL: I just have a question  
7 about that. Does this, in some way then, connote  
8 that the panel recognized CMTS waterway  
9 harmonization process as something that's  
10 worthwhile? And, this kind of goes for anything  
11 that we put in here, that the value of that.

12 I don't want to say it is or it isn't,  
13 but --

14 VICE CHAIR MILLER: No, I don't think  
15 that says anything that other than they reported  
16 this as one of their challenging issues, yes.

17 MEMBER HALL: Then, I think I would  
18 put it that way. Take out that recommended piece  
19 there and just say, noted or something, that  
20 synchronization is one of the bigger challenges.

21 VICE CHAIR MILLER: Okay. So --

22 MEMBER HALL: Because it almost looks  
23 like then we're backing up a recommendation by  
24 somebody else.

25 VICE CHAIR MILLER: Noted that.

26 MEMBER PERKINS: How about testified?

27 VICE CHAIR MILLER: Testified? Okay.  
28 How about reported?

29 MEMBER HALL: All right, testimony  
30 issues are very specific connotation.

31 VICE CHAIR MILLER: And, then, I would  
32 say the synchronization -- and, then, I would say  
33 which is one of the more challenging issues  
34 facing the CMTS waterway harmonization process.

35 So, instead of this is one of the,  
36 yes. Yes, delete the --

37 I would say which comma which is one  
38 of the more challenging issues. Change the this  
39 to which.

40 Okay. Yes, comma. Good.

41 Okay, Great Lakes Mapping Issues, a  
42 number of stakeholders and members discussed  
43 issues related to mapping. Mapping is needed for  
44 a variety of reasons, including navigation,  
45 ability to monitor lake levels and ecosystem  
46 characterization and monitoring.

47 NOAA should review Great Lakes mapping  
48 needs and incorporate these into its overall

1 mapping priorities.

2 The HSRP learned about potential  
3 issues regarding the detection and charting of  
4 isolated dangers to navigation in federally  
5 maintained channels and anchorages.

6 We would like to learn more about the  
7 responsibilities of both the Army Corps of  
8 Engineers and NOAA with respect to detection and  
9 charting of such dangers.

10 Lake Huron has had changes in lake  
11 water levels. These changes cannot be explained  
12 without accurate, up to date mapping information  
13 in the lakes and connecting channels.

14 A representative from the Great Lakes  
15 Restoration Initiative expressed the need for  
16 both bathymetry and lake bottom characterization  
17 data. The uses include -- can you go down a  
18 little -- down more. Keep going.

19 Habitat classification, targeting  
20 specific depths to capture a range of  
21 depositional issues, development of Environmental  
22 Sensitivity Index Maps and the need for up to  
23 date depth data in order to develop statistics.

24 That's long, I'll work on it. I'll  
25 probably take some words out.

26 The representative also requested that  
27 the data be made available to the public quickly  
28 in various products and formats and be available  
29 on mobile devices.

30 The panel was pleased to hear that the  
31 mapping data from a commercial cable survey in  
32 another region is being given to NOAA and will be  
33 made publically available.

34 MR. ASLASKEN: Joyce, one point in  
35 that is this is an opportunity, especially in the  
36 ESI, that the foundation data, that this FACA  
37 oversees is critical to that data that it exists,  
38 it's just that the program that is responsible  
39 for that has not used that information in order  
40 to do that.

41 But, in a lot of the cases, what I  
42 heard, and I think I made the point earlier that,  
43 the foundation data that the three offices  
44 provide is a lot of what's used and what's needed  
45 in the Great Lakes.

46 And, I don't know if they were in the  
47 letter that you put, but I think that was a good  
48 takeaway that I had.

1 VICE CHAIR MILLER: You mean, in terms  
2 of mapping data or --

3 MR. ASLASKEN: Yes, the foundation  
4 data is there, whether it's the water levels, the  
5 charting, hydrography or the shoreline, the  
6 geodesy. The people appealed and --

7 VICE CHAIR MILLER: My impression was  
8 that, is it not fully mapped?

9 MR. ASLASKEN: Oh, the Great Lakes  
10 from the shoreline perspective has been updated,  
11 yes.

12 VICE CHAIR MILLER: Oh, the shoreline?

13 MR. ASLASKEN: But, I mean, a lot of  
14 the different applications for those data, not  
15 just charts. And, that the ESI map is one of  
16 those examples where they the NOAA shoreline and  
17 they classify it for that.

18 VICE CHAIR MILLER: So --

19 MR. ASLASKEN: They don't remap the  
20 shoreline completely. They'll take out a mean  
21 hour shoreline, in this case, classify it as a  
22 shoreline type for their ESI needs and then they  
23 move on.

24 MR. EDWING: You're saying ESI maps  
25 should not take an advantage of the --

26 MR. ASLASKEN: Well, I mean, I'm just  
27 using it as an example. There's lots of, you  
28 know, I was hearing a lot of what they wanted  
29 from a mapping standpoint is being supported by  
30 the foundation data of the three offices.

31 I don't know if that's, you know, a  
32 point we want to make or not, or do you want to  
33 make?

34 MR. ARMSTRONG: So I think, you know  
35 --

36 VICE CHAIR MILLER: Go ahead, Andy.

37 MR. ARMSTRONG: Yes, I think we heard  
38 that the bathymetry is not there and not  
39 adequate.

40 MR. ASLASKEN:: So, we have Army Corps  
41 LIDAR data that's working through the system of  
42 the nearshore, but that's just one component of  
43 recent data that have been collected in the last  
44 two years.

45 MR. ARMSTRONG: That's right. But, as  
46 I recall, the need was down to 30 meters. I'm  
47 sure there's no Army Corps or LIDAR data there.

48 So, yes, I -- we do have the JALBTCX

1 LIDAR, right? We have that and we have the  
2 shoreline. What we're missing is outside the  
3 JALBTCX in the areas that are not covered by the  
4 JALBTCX LIDAR, we need the bathymetry.

5 VICE CHAIR MILLER: Should we say in  
6 the first sentence of the third bullet should we  
7 say, and by -- especially in deeper waters or in  
8 --

9 MR. ARMSTRONG: Well, I guess if we  
10 want to get into that detail we can say we're in  
11 the nearshore areas where the LIDAR doesn't --  
12 where we don't have LIDAR coverage of the  
13 bathymetry or we don't have LIDAR bathymetry  
14 available.

15 MEMBER HALL: I don't think we -- I  
16 think it's broad enough at this point, I think we  
17 need to -- because we've gone not that deep into  
18 other things.

19 MR. ARMSTRONG: Yes, I agree. I --

20 MEMBER HALL: I still think it -- I  
21 think it doesn't say that you need new data, it  
22 doesn't say that you can't use the old data, it  
23 just says they need it to be used for that.

24 So, I just a little remiss to go too  
25 deep.

26 MR. ARMSTRONG: So, if the old data  
27 were okay, they'd be fine. So, right? There  
28 wouldn't be an issue if the old data were fine.

29 VICE CHAIR MILLER: So, is there a  
30 complete high resolution map of the lakes?

31 MEMBER HALL: I just have one more  
32 question. I know we were talking about that and  
33 as we get that up there, with regard to your  
34 comments about the responsibilities between -- is  
35 that the right characterization? And, maybe,  
36 Admiral, you can help us with that when it comes.

37 I think we know who's responsible for  
38 detection and how you chart that of the dangers.  
39 It's how you get it done.

40 MR. ARMSTRONG: I don't think so.

41 RADM SMITH: No, I think it's not  
42 clear who's responsible.

43 MEMBER HALL: Okay. I just wanted to  
44 make sure. Because there seemed to be a problem  
45 beyond that, too. Not who is responsible and  
46 then how do we actually get the resources to do  
47 it if you are?

48 RADM SMITH: And, that's the next

1 step. And, the other issue is how do we show the  
2 fact that that's not getting done on the charts?  
3 How do we describe the quality of the data in the  
4 channels if it is not, in fact, object detection  
5 sort of A-1 data?

6 MEMBER HALL: Yes, I just wasn't sure  
7 if there was some other characterization that  
8 needed to happen in that paragraph or if that, if  
9 this is a good start and then as we learn more  
10 about that, we can tell them that there's not a -  
11 -

12 RADM SMITH: I thought it was fine.  
13 The use of the word danger in navigation may be  
14 too much of a term of art for a general audience,  
15 talk about obstructions or something sort of  
16 physical sounding because danger in navigation is  
17 a little bit of a --

18 MEMBER HALL: And, also, the idiots on  
19 the water?

20 RADM SMITH: -- process type of  
21 description.

22 MR. KRUMWIEDE: So, Brandon Krumwiede,  
23 NOAA Office for Coastal Management, Great Lakes  
24 Geospatial Coordinator.

25 I sent a couple images to Lynne to  
26 share here today. So, for folks that may not be  
27 aware, our office has actually created a tool  
28 called the NOAA Lake Level Viewer. It creates a  
29 3-meter spatial digital elevation, topobathy  
30 along the coastal margins using, in this  
31 iteration, it is purely topobathy LIDAR data that  
32 we're using with this.

33 And, Lynne, if you can go to the next  
34 one?

35 We are actually in the current process  
36 of updating that and releasing it with new data.

37 And, what this is actually showing is  
38 a combination of topobathy LIDAR, bathy LIDAR,  
39 U.S. Army Corps of Engineers strategy survey, the  
40 one piece that's missing currently from this is  
41 the National Parks Service multibeam data that  
42 they've collected around those areas.

43 And, again, we're pulling those all  
44 together to create a seamless digital elevation  
45 model of the coastal nearshore environment,  
46 again, at 3-meters spatial resolution just based  
47 on the data.

48 Some of the challenges, and, again,

1 this is currently undergoing a QA/QC process that  
2 we're working on, is some of those things that  
3 were mentioned. You know, detection of different  
4 objects and talking with Rear Admiral Smith, you  
5 know, depending on who the user is, the  
6 resolution may or may not be at the quality  
7 needed.

8 But, based on whether it's fisheries  
9 management or even talking with our sanctuary  
10 folks in regards to archeological site detection  
11 and artifacts recovery there.

12 So, just wanted people to be aware  
13 hoping to share this with folks and I meant to  
14 send it to Jackie before she presented, but we  
15 are currently working on some of this.

16 And, again, the limitation, though,  
17 is, I will point out a couple areas here.

18 Sandusky Bay down here, you'll notice  
19 we don't have good coverage there, reasons being  
20 high turbidity, shell water environments.

21 And, those are the type of issue  
22 areas, especially from the environmental side of  
23 things when we look at wetlands and restoration  
24 efforts, it's nice to have the bathy, it's also  
25 one of the most challenging areas to get bathy  
26 due to costs and vessel operations.

27 So, thank you. If there's questions

28 --

29 VICE CHAIR MILLER: So, is all -- is  
30 that all the multibeam data that exists or not?

31 MR. KRUMWIEDE: There is not -- the  
32 only multibeam data that we're going to be  
33 including current will be some of the 2004.  
34 There is some multibeam data up between the  
35 islands. We're actually using that as part of a  
36 QA/QC process with the new -- I'm actually --

37 The reason I was not at the baseball  
38 game last night was I was actually working on the  
39 topobathy QA/QC for that area. So, yes, Larry?

40 DR. MAYER: Well, I pointed out to  
41 Brandon, there is Canadian multibeam data in not  
42 a good part, the western part in Rochester Basin  
43 in Lake Ontario and we'll make that available to  
44 him.

45 I just sent a message to the Canadian  
46 CHS to see what other multibeam data might be  
47 existent since then, since that was collected.

48 That multibeam data was submitted to

1 NGDC, but --

2 MR. KRUMWIEDE: Where it's at in the  
3 shuffle.

4 DR. MAYER: And it appears on the NGDC  
5 compilation maps but there's clearly  
6 communication issues.

7 MR. ASLASKEN: Ed Saade also mentioned  
8 it. Fugro did a bunch of work, LIDAR work on the  
9 community side that they're going to provide that  
10 data, make that data available as well.

11 MR. KRUMWIEDE: So, Ed, I talked with  
12 Ed about that. Ed Saade is actually this --  
13 right stretch right through here, that was some  
14 of the data he collected for us through actually  
15 Great Lakes Restoration Initiative funding  
16 through Coastal Services Center at the time, to  
17 get that completed in 2010/2011.

18 MR. ASLASKEN: This is data they  
19 collected for Canadian hydrographic services.

20 MR. KRUMWIEDE: On the Canadian side?

21 And, again, for this tool, we're  
22 primarily focused on the U.S. side of things at  
23 this time. The Canadians had its own interests  
24 and seeing that tool expanded on the other side.  
25 Of course, the big thing there for us is you've  
26 got to have some type of funding mechanism to  
27 work between Canada and the U.S. on that.

28 DR. MAYER: There is on, I think it's  
29 Tom Johnson at the University of Minnesota has a  
30 multibeam on his vessel and you get access to  
31 those data?

32 MR. KRUMWIEDE: So, part of the reason  
33 for formulating the Great Lakes Bottom Mapping  
34 Work Group was to bring all those different  
35 agencies together. There's quite a few academia  
36 folks.

37 So, there is a Large Lakes Observatory  
38 up in University of Minnesota Duluth, Michigan  
39 Tech Research Institute and Michigan Tech  
40 University have also got multibeam capabilities.

41 In Northwest Michigan College, I  
42 mentioned this to a couple of folks, Hans Van  
43 Sumeren received several millions of dollars from  
44 the governor to actually stand up a marine  
45 technology program there.

46 And, they'd have -- what's amazing is  
47 they have UAVs, ASVs, ROVs to the point where  
48 students are actually learning how to fix

1 hydraulics on ROVs right there at their college.

2 So, that is expanding across the Great  
3 Lakes as far as marine technology.

4 I know Guy Meadows up at MTU, he would  
5 love to have use their university and educational  
6 system as a test bed for RA conditions. Because  
7 we have ice here on the Great Lakes as well and  
8 how do you survey, say, under ice and things like  
9 that?

10 So, I just wanted to share these  
11 graphics to let people know that we are working  
12 on this as best as we can.

13 VICE CHAIR MILLER: Okay, let's go  
14 back to the mapping or the papers.

15 So, do we want to qualify our  
16 statement, Andy?

17 MR. ARMSTRONG: I don't think so.

18 VICE CHAIR MILLER: Maybe I'll put in  
19 back of the first sentence of the third bullet,  
20 particularly in deeper areas or something. No?

21 MEMBER LOCKHART: I don't know, Joyce.  
22 I mean, you look at that map and there's a lot of  
23 black space on it. I mean, I don't think it  
24 needs qualification.

25 VICE CHAIR MILLER: All right, we'll  
26 leave it, we'll leave it.

27 And, so, I mean, the gist of all of  
28 this is that, you know, just hopefully things  
29 that will help Admiral Smith push forward Coast  
30 Survey's mission basically.

31 I will take all of these hopefully  
32 within the next week, put them into a letter,  
33 probably Bill and Dave and I will or, I'm sorry,  
34 Dave and Bill and I will shove it around once or  
35 twice and then send it out to the entire panel  
36 for comment.

37 If you recall, our goal is to have the  
38 draft out within two weeks and the final letter  
39 within one month. So, that will be our -- we --  
40 I don't know if everyone's aware, particularly  
41 the new members, we wrote up a standard operating  
42 procedure for what happens so that we could try  
43 to keep to some sort of schedule in this rather  
44 than taking months to get a letter out.

45 So, at the next scheduled phone con  
46 for the entire panel, we can discuss this. Do  
47 you know when that is, Lynne? Early October,  
48 okay.

1                   So, please, please, please, I know  
2 you're all very busy people, but, you've seen  
3 most of this. If you have any comments, get them  
4 back to me quickly or to us quickly.

5                   Is there any other comment or business  
6 from the panel that we need to deal with?

7                   RADM SMITH: So, we had a couple of  
8 offline discussions about presentations during  
9 the monthly meetings. And, basically, wanted to  
10 ask the panel to guide us on what you would like  
11 to hear from us on and, if any, so that we can  
12 use that time productively.

13                   We want to be responsive to whatever  
14 it is that you think would be useful for between  
15 meetings.

16                   I've already taken a note and started  
17 arranging it for presentations on unmanned  
18 systems and the hydroprocessing for next -- for  
19 the next in person meeting.

20                   But, if there are in between  
21 presentations that would be helpful. You don't  
22 need to answer now, but we will essentially stand  
23 by for your guidance on that.

24                   VICE CHAIR MILLER: Yes, okay, one  
25 comment I have to make is, since I'm six hours  
26 behind you guys, the links to, and I very much  
27 appreciate, I think both Lawson and I do, you  
28 know, that most of our meetings are in the  
29 afternoon.

30                   Some of the recommended webinars are  
31 either in the -- are way in the morning and, you  
32 know, I'm not going to get up at 2:00 in the  
33 morning, I'm sorry, to hear a webinar.

34                   And, there was one or two that I have  
35 actually done it because I was interested. But,  
36 so, if we do have a topic and there's an  
37 associated webinar, you know, give us a lot of  
38 forward notice or give me a lot of forward notice  
39 if I have to plan on that because, a lot of  
40 times, you know, it's just not possible.

41                   So, I mean, I appreciate the webinar  
42 links and the notices.

43                   I don't particularly have anything.  
44 The only request I would make particularly for  
45 those with extremely busy schedules is that we  
46 have the business part first and the talk after  
47 and that the talks be say no longer than a half  
48 an hour including questions.

1                   It just, you know, there's a lot of  
2 people with a lot of things to do.

3                   MEMBER HALL: And, it's really hard in  
4 those kinds of formats, especially if somebody  
5 doesn't have slides and slides don't always work  
6 and whatnot, to sit for 45 minutes and be on  
7 receive. It needs to be much more interactive  
8 they're going to do it.

9                   This probably means more, potentially  
10 more preparation on our part which the notice  
11 piece is there, but, again, you know, I think all  
12 of us get answering emails and other things  
13 because it's just so hard and the telephone  
14 formats are really keep your attention.

15                  RADM SMITH: So, should we just -- it  
16 sort of sounds likes that's not a very useful way  
17 of doing things and maybe we should do less of  
18 it, too. Is that --

19                  MEMBER KELLY: Admiral, no, I don't  
20 think it's not useful, I think that just the  
21 reality is that the panel has to frontload the  
22 administrative part because if, for some reason,  
23 individual members may not be able to sit through  
24 the whole thing, it's more important perhaps to  
25 deal with the administrative piece and then maybe  
26 take a pass and just read whatever's been  
27 presented instead of sitting through the  
28 presentation.

29                  And, I think that's probably the key  
30 thing that we're saying here.

31                  I personally, a lot of this stuff, you  
32 know, I find is very interesting. Some of it I  
33 get 60 to 80 percent and some of the tech stuff  
34 goes over. But, I find it's very valuable to me.  
35 I think the presentations are valuable.

36                  MEMBER LOCKHART: Yes, I mean, I think  
37 for the working group I've been participating in,  
38 it's been really useful. But, I think, yes,  
39 there's a lot of stuff to discuss and sometimes  
40 those meetings can run kind of long.

41                  So, I think the key maybe isn't so  
42 much having admin first or having this second,  
43 it's more just sticking to the schedule.

44                  So, if you know the admin part's going  
45 to be at 1:30, then dial in at 1:30 if that's the  
46 only part you want to listen to. If you know the  
47 presentation's going to be from 1:00 to 1:30 and  
48 you don't want to hear it, don't hear it.

1                   But, which comes first and second, I'm  
2 not so concerned about, I think it's more just  
3 knowing what part you want to listen to and if  
4 it's going to be on schedule, then you can dial  
5 in when it's appropriate.

6                   And, the other thing I would say is,  
7 you know, we keep trying to use, you know,  
8 technologies to do these webinars, I think it's  
9 great. But, I think a lot of times, we seem to  
10 be defaulting to a different conference line.

11                   And, what that does mean for somebody  
12 like Joyce is, if we were using the technology  
13 properly and recording those webinars, she could  
14 go back and watch this presentation at a time  
15 when she is awake.

16                   And, so, I'm sure there's some  
17 technical reason why that's not working, but  
18 everybody else in the world is using it, so  
19 having a hard time understanding what the problem  
20 is.

21                   MS. MERSFELDER-LEWIS: Lawson Brigham  
22 refuses to call in. So, we've given him his own  
23 line.

24                   So, we never start a meeting that  
25 Joyce isn't invited to before 3:00.

26                   VICE CHAIR MILLER: No, no, I'm not  
27 talking about your meetings, I'm talking about  
28 other webinars that we might join.

29                   MS. MERSFELDER-LEWIS: Oh, I see.

30                   VICE CHAIR MILLER: Yes, you know,  
31 there are some of them that are either at noon or  
32 in the morning.

33                   MS. MERSFELDER-LEWIS: Well, and NGS  
34 and other people have their own things, we just  
35 pass it along, I can't influence their timing.

36                   VICE CHAIR MILLER: No.

37                   MS. MERSFELDER-LEWIS: And, we also  
38 always have the presentations in advance. So,  
39 but, I love the idea of doing the business  
40 meetings first, but I just wonder, will anybody  
41 stick around for the speaker?

42                   VICE CHAIR MILLER: Okay. And, this  
43 -- okay, Lynne has told me that with some missing  
44 responses, the best dates for the meeting in  
45 Seattle appear to be May 1st to 5th or February  
46 27th to March 3rd.

47                   That's good with me. Through March  
48 3rd, that's a --

1                   Okay, so hold May 1st to 5th on your  
2 calendar. That looks like the best dates.  
3 That's great, Seattle's really beautiful in May.

4                   All right, we are at 10:15. At this  
5 time, I'd like to invite any comments from either  
6 the audience here or elsewhere. Are there any  
7 folks that would like to make a comment?

8                   MR. CONNER: Yes, Dave Conner,  
9 National Geodetic Survey.

10                  I saw a note that -- mentioning  
11 concern over Lake Huron water levels and just  
12 would like to caution that Lake Huron and Lake  
13 Michigan are really all one lake and the Lake  
14 Huron was given as an example with concerns over  
15 the water levels.

16                  But, really, I think it applies to all  
17 the Great Lakes. So, yes, we've had some  
18 increased concern on Lake Huron for a couple  
19 reasons, but it's not really separate from the  
20 same concerns on the other lakes.

21                  Thank you.

22                  VICE CHAIR MILLER: Okay. So, they  
23 have all had changes in water levels unexplained?  
24 Yes, okay.

25                  MR. EDWING: I think, as I recall, a  
26 lot of discussion was to the lack of regular  
27 bathymetry along the interconnecting waterways.

28                  VICE CHAIR MILLER: Yes, and, we said  
29 that accurate channels.

30                  MR. EDWING: Yes, right, okay.

31                  VICE CHAIR MILLER: Okay. All right,  
32 that's noted and I will make that change.  
33 Obviously, there is a fair amount of editing to  
34 do.

35                  Lynne, do we have any comments on the  
36 web? Okay, no comments.

37                  By the way, Glenn left this. These  
38 are some copies of the legislative -- the various  
39 legislative acts he talked to us about the first  
40 lunch and there are extra copies of this if  
41 anyone is interested in having a copy of the  
42 various documents from the House and Senate and  
43 his -- so, I'll leave these up here if anybody  
44 wants to pick them up.

45                  That being said, I think we can say  
46 thank you to our new DFO. And, for an excellent  
47 meeting and to Lynne and all of the NOAA staff  
48 that have helped out. I think it's been an

1 excellent meeting.

2 Admiral, would you like to make any  
3 closing remarks?

4 RADM SMITH: I've been making remarks  
5 along the way, but, thank you all. This has been  
6 a very, certainly, I've shared your interest in  
7 everything we've learned about the Lakes and am  
8 newly inspired by the challenges up here, but  
9 also inspired by you and I thank you all for sort  
10 of joining us in the thinking about the direction  
11 we need to go and identifying gaps and  
12 opportunities.

13 So, thank you.

14 VICE CHAIR MILLER: Okay, and thank  
15 you for the -- for those in the audience for  
16 their participation. We learned -- I feel like  
17 I've learned a great amount.

18 So, I'd entertain a motion to adjourn  
19 the meeting.

20 MEMBER KELLY: So moved.

21 VICE CHAIR MILLER: Second?

22 MEMBER SHINGLEDECKER: Second.

23 VICE CHAIR MILLER: This meeting is  
24 adjourned.

25 (Whereupon, the above-entitled matter  
26 went off the record at 10:19 a.m.)  
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Before: NOAA

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