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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
HYDROGRAPHIC SERVICES REVIEW PANEL

Volume I

Anchorage, Alaska

August 14, 2006

Attendees:

Voting HSRP Members

- Jon Dasler
- Elaine L. Dickinson
- William Gray
- Captain Sherri Hickman
- Dr. Lewis Lapine
- Adam McBride
- Captain Andrew McGovern
- Captain Minas Myrtidis
- John Oswald
- Scott Rainey
- Tom Skinner
- Rear Admiral Richard West (telephonic)
- Larry Whiting

Non-voting Members

- Captain Andrew Armstrong
- Dave Zilkoski
- Michael Szabados

Designated Federal Officer

- Captain Steven R. Barnum

HSRP Decision Maker

- John H. Dunnigan

P R O C E E D I N G S

1  
2 (On record at 8:00 a.m.)

3 MR. RAINEY: Let's go ahead. This first session is going  
4 to be a administrative session for just the members and our NOAA  
5 representatives to talk about some things and then we'll open it  
6 up later at 1:00 for our -- to start our public session. So  
7 this will give us a chance to talk about a few things that are  
8 in the pipeline that are not -- that's not public information as  
9 yet.

10 Thanks to everybody for coming. We are going to try to --  
11 we've set up an opportunity to phone in for Admiral West and  
12 Admiral Larrabee who both couldn't make the meeting physically  
13 but they may try to check in with us this morning for some time  
14 for some of the discussions. Glad we finally got here to  
15 Alaska, I know we've been aiming at that for awhile. Thanks for  
16 NOAA for supporting that and getting everybody up here, it's a  
17 great group of NOAA representatives that we have with us this  
18 meeting. And also NOAA has enabled us to have John Rayfield  
19 from the House of Representative staff come and join us and John  
20 was instrumental in the -- on the front end of the HSIA. And  
21 since we're looking at some of those issues and reauthorization  
22 coming up that it'll be nice to have a chance to have a dialogue  
23 with John. Thanks to John Oswald, Larry Whiting and, you know,  
24 our Alaska members for all the help in logistics, getting this  
25 set up here on the ground to bring us to Alaska and really

1 appreciate that and we're looking forward to a really good  
2 meeting.

3         Just a real quick overview of this morning. We've got a  
4 briefing on the fiscal year '08 budget, some things that are  
5 going on there, and then a chance to talk a little bit about the  
6 HSIA if there's some questions that we want to talk about this  
7 morning. We have a scheduled presentation, Glen Boledovich  
8 who's been with us previously and is back again today. We'll  
9 talk about that in our public sessions as well, that's one of  
10 our things we're going to do. And then we'll have a fair amount  
11 of time this morning to talk about the special report that we  
12 distributed and hopefully everybody had a chance to take a look  
13 at that. And Ann Boese is the writer who's on contract to help  
14 us publish that and she's here and she'll be back in for that  
15 this morning.

16         So that's kind of where we're going this morning in our  
17 administrative session. The other piece of business I'd like to  
18 take care of this morning would be to, you know, solicit  
19 interested folks. As you know, Helen is now the Executive  
20 Director, the Secretary for the Committee on Marine  
21 Transportation System, and she's going to be working on those  
22 issues and so she's now a federal employee and we're looking  
23 forward to working with her down the road through our advice to  
24 NOAA. So -- and I'm not sure what your -- so -- and so we need  
25 to elect another Vice Chair or a Deputy Chair so I'd like to do

1 that this morning. Steve, could you -- do you have.....

2 CAPTAIN BARNUM: No, I'd just also like to welcome  
3 everybody here to Alaska and I'm glad everybody could make it  
4 and I'm looking forward to some good discussions today and  
5 tomorrow. And certainly want to echo your comments and thanks  
6 to Barbara and the team that put this all together. I know it's  
7 no small task. So, welcome.

8 (Pause)

9 MR. RAINEY: Okay. If -- I think, you know, to begin the  
10 public session maybe we'll have, you know, members introduce  
11 each other or anything. Does anybody else have any comments or  
12 anything that they'd like to say at the outset and then we'll go  
13 ahead and proceed with the information? Okay. Any questions  
14 about -- I guess any questions from anybody on what we want to  
15 try to cover this morning? Okay. We don't know -- we've got --  
16 like I said, we've got it set up for the Admirals to call in, we  
17 don't know, we tried calling their offices this morning so we  
18 don't know if in fact they'll be able to join us. But maybe we  
19 can go ahead and roll into, you know, the Deputy Chair, maybe  
20 that would be appropriate to start out if there's -- what I'd  
21 like to do -- you know, we know how the last one turned out so  
22 we can -- maybe this time suggest that we -- you know, people  
23 can just write it down and then, you know, we can tally the  
24 votes. But first off I haven't really heard from anybody, you  
25 know, in the interim or between the meetings if there's interest

1 out there, if, you know, people are interested in that. So I  
2 think the first cut would be to see if there's folks that would  
3 be interested in serving as the Vice Chair and, you know, then  
4 assuming we've got a couple folks interested then we can go from  
5 there and we can make a selection. But -- Bill Gray.

6 MR. GRAY: Yeah. I've just got a point. Just looking  
7 briefly at the (indiscernible) for this morning and then for the  
8 rest of the session. Maybe we have but I didn't see it but this  
9 draft paper that you sent to us, is -- are we going to get the  
10 opportunity to discuss that at some length?

11 MR. RAINEY: Yes, absolutely.

12 MR. GRAY: (Indiscernible) don't think it's on the agenda.

13 MR. RAINEY: Okay. It's -- yeah, absolutely, we're going  
14 to try to take as much time as we can to focus and work on that.  
15 There's -- in the -- this morning after we get through the  
16 briefing on the budget and some discussions on the HSIA to the  
17 extent there are some and the balance of this morning we'll be  
18 working on that and our writer will be coming back in, rejoining  
19 us and specifically spend the balance of the morning kind of  
20 introducing, you know, sort of the process and -- so we'll sort  
21 of set the stage for that. We've scheduled in -- we've got some  
22 key briefings through the rest of the meeting, Dave's got a NGS  
23 briefing, Glenn on the HSIA. So we have a few things that will  
24 help feed into I think the -- you know, the special report and  
25 we've tried to also schedule in ample time for public comment,

1 we have a specific Alaska stakeholders panel but also some other  
2 public sessions. As we can find time in that -- and we've also  
3 scheduled as much time as we can to keep working on the report.  
4 So everything I think on this meeting is focused on that with  
5 some briefings that'll help us on certain sections I think. And  
6 so we'll start out -- the bigger part of this morning will be on  
7 the special report and then we'll just keep going from there.

8 MR. GRAY: Well, I just thought I had a -- I mean I think  
9 it's a very good start. Having said that I think we really need  
10 to -- we can't all sit here and write a report.

11 MR. RAINEY: Right.

12 MR. GRAY: But we can give views that those writing it  
13 could -- the second thing, because it is a draft isn't it best  
14 probably done in this closed session rather than in the open  
15 session? I don't know what the protocol is on that. I believe  
16 that takes you guys to tell us -- as long as we're doing a draft  
17 of this committee as this committee I think we should be able to  
18 talk about it without doing it in front of public comment yet.

19 MR. RAINEY: Okay.

20 UNIDENTIFIED MALE: And I think it is, it's here at 10:00  
21 o'clock, right?

22 MR. RAINEY: Yeah, we're going to start at 10:00 or  
23 earlier if we can and absolutely that's my intent. It's -- it  
24 is just a start, I think it's a good start but there's clearly,  
25 you know, every intent to pull the panel in to see where we are.

1 And what I'd like to do, and I talked with Ann Boese again this  
2 morning and my intent as we lay this out and just ask  
3 everybody's kind of -- you know, kind of patience and  
4 forbearance as we kind of try to lay the stage for it. But what  
5 I'd like her to do is sort of explain where we've been and I'd  
6 like us to try to at least at the outset start out with let's  
7 talk about the structure of it, what we're trying to do with it  
8 and kind of stay at the -- sort of the macro level if you will  
9 rather than zooming in and saying, well, we need to change this,  
10 you know, headline. Because we want to kind of frame the house  
11 and then we can start moving the furniture around, you know, in  
12 the next round. We're going to have -- we'll have ample time  
13 and support to kind of just bring this thing all into focus. So  
14 at least this morning we can kind of set the meets and bounds of  
15 it and the scope and what we're doing, I think it'll flow from  
16 there, so. All right.

17 MR. GRAY: Okay. I'm sorry, I didn't see -- I was looking  
18 for critical connections but I see it is the 10:00 o'clock thing  
19 this morning.

20 MR. RAINEY: Yes, sir. Okay. And we do have a transcript  
21 being made so as we -- it'd be I think particularly important in  
22 our public sessions as our practice just to -- at least at the  
23 outset go ahead and -- I know I didn't do it here but just give  
24 your name and then we'll start in and we'll try to go one at a  
25 time. These are not voice activated so it's a push to talk

1 system and it's just -- you'll figure that out quickly I'm sure.  
2 All right. Any other questions or comments? Well, could I open  
3 the floor up then for either nominations or folks that just, you  
4 know, would have an interest in serving as the Vice Chair?  
5 Making -- maybe making that known and we could have a discussion  
6 or see who may be interested and then we can have an opportunity  
7 to select somebody this morning. Is anybody interested?

8 CAPTAIN HICKMAN: Tom, are you interested?

9 MR. SKINNER: You spoke first.

10 MR. RAINEY: Captain McGovern, Andrew.

11 CAPTAIN MCGOVERN: Just a suggestion, maybe we could put  
12 the selection of the Vice Chair off till tomorrow morning and  
13 have today to try to.....

14 MR. RAINEY: All right.

15 CAPTAIN MCGOVERN: .....work it out amongst ourselves  
16 over.....

17 MR. RAINEY: Okay.

18 CAPTAIN MCGOVERN: .....during the breaks and.....

19 MR. RAINEY: All right.

20 CAPTAIN MCGOVERN: .....(indiscernible) and such.

21 MR. RAINEY: Sure, that's a good idea. Because we haven't  
22 had a chance really to talk and people can talk today.

23 CAPTAIN MCGOVERN: We have to twist somebody's arm and  
24 it's going to.....

25 MR. RAINEY: Yeah.

1 CAPTAIN MCGOVERN: .....take some time.

2 MR. RAINEY: All right.

3 CAPTAIN MCGOVERN: Thanks.

4 MR. RAINEY: Okay. All right. All right, let's go with  
5 that, I'm fine with that. I guess let's go ahead and then just  
6 proceed and if we could -- I'm -- again, I'm extremely pleased  
7 that Mr. Dunnigan could make it with us, his support's been  
8 very, very helpful and we're looking forward to continuing that  
9 partnership here and working on our special report and  
10 everything and so if I could I'll turn the floor over to Jack.

11 MR. DUNNIGAN: Thank you, Scott, very much. Good morning  
12 everybody, welcome. I remember the days when I was a much  
13 younger professional in this business and I worked out of  
14 Seattle and Alaska was part of what we covered and we couldn't  
15 stay in the Captain Cook because they didn't have a government  
16 rate. This was the hoity-toity hotel in town. So now years  
17 later here we are, we get to do this. It's great. And Alaska's  
18 a wonderful place. Commander Doug Baird drove me down to Seward  
19 yesterday so I hadn't made that trip in -- since 1988 and I got  
20 to spend a couple of hours on board the Rainier with the XO and  
21 some of the other officers and get a good tour of that hydro  
22 services vessel, understand some of their problems, see a little  
23 bit of it and -- we talked a lot about their mission in Alaska,  
24 about their partnerships with other -- with contractors both for  
25 at sea observations as well LIDAR, got a really good sense of

1 what some of their current missions and priorities are. So it  
2 was a very, very good thing for me and I'm going to take some  
3 time later in the week to get around the state and get to meet  
4 some of the other folks that are involved in the maritime  
5 transportation community. So I'm really glad to have that  
6 chance.

7 Let me just mention something else. I got to give a  
8 little bit of an opening last Wednesday morning on board a Coast  
9 Guard buoy tender in San Francisco and I opened my comments with  
10 this. I said I have bad news for you, there has been a  
11 collision offshore between a bulk cargo carrier and an oil barge  
12 that was under tow. It happened last night at about 11:30 and  
13 at the moment the barge is leaking oil fast, the bulk cargo  
14 carrier has lost its steerage and it is sheening oil, we have to  
15 respond. And what this was was a setup for a drill that we did  
16 off of San Francisco last week, we call it Safe Seas '06. And  
17 it was just a tremendous cooperative, collaborative effort on  
18 the part of so many agencies. The State of California, Cal Fish  
19 and Game really bought in, they had about 40 people involved.  
20 There were 400 people involved in this exercise. And as much as  
21 possible we tried to play through what would be happening, how  
22 the Coast Guard would respond, how NOAA would respond, the Fish  
23 and Wildlife Service and the Park Service, which both have  
24 significant assets in the Golden Gate area, were very actively  
25 engaged. So it was one of those things -- it's the second time

1 we've done this, the first one was in the Florida Keys last year  
2 and that went very well too and everybody came out of that, you  
3 know, having learned so much that they wanted to do it again and  
4 so we had the setup for Safe Seas '06 this year. I think it's a  
5 good statement about the commitment that we all have to being  
6 ready. Because you don't ever expect or want an event like this  
7 to happen but shame on us if we're not ready to handle it when  
8 it comes. So it's -- it was really an outstanding event. And I  
9 -- so I've been on the west coast now, this'll be two full weeks  
10 by the time I get home on Saturday morning so I'll look forward  
11 certainly to getting home.

12 This morning -- oh, one other informational thing. Scott  
13 mentioned Helen's new role, that she finally got brought into as  
14 the Executive Secretary of CMTS. The other little just  
15 informational piece there is that of the four major agencies  
16 that are helping to stand up to CMTS, that'd be NOAA, Coast  
17 Guard, Corps of Engineers and MARAD. Each of them has promised  
18 a senior staff person, GS-15, to go and work with Helen and  
19 basically to be her staff and to provide all of the liaison back  
20 and forth with the major agencies. So far NOAA's the only one  
21 that's been able to get its person on board. But you may know  
22 Gary Magnuson who's been on our staff for a long time and we've  
23 selected Gary for that position and he's already working with  
24 Helen so that's beginning to stand up. We've had a little bit  
25 of an issue in some of the agencies because of turnover. MARAD

1 just got a new director -- a new administrator last week, they  
2 were very short in their leadership. In the Coast Guard Admiral  
3 Bone has been appointed now to that position, they've done some  
4 reorganizing over there. So I think the CMTS is going to start  
5 gearing up a little bit more here over the next month or so and  
6 Helen will have a lot to do and Gary will be there to work with  
7 her. But you should know that NOAA has gone ahead and we have,  
8 you know, created that GS-15 position and we put Gary Magnuson  
9 in it and of course if you know Gary you know he's terrific and  
10 it's going to work very well.

11 So let me go ahead and talk a little bit about what the  
12 presentation's going to be here this morning. Captain Barnum  
13 and I are going to do a little bit of a tag team on this one.  
14 But the last time we were together it was apparent that the  
15 committee didn't really -- the panel didn't really understand,  
16 not that we do, all of the different ways that our agency  
17 decides, you know, how it creates priorities and how it decides  
18 to propose budgets and just sort of how it all works. PPBES is  
19 what it's called, it's a system. And so we thought we would  
20 want to come to you and talk to you a little bit just so that  
21 you would understand the kind of processes that we have to go to  
22 for our out year program planning. Those of you who've worked  
23 in NOAA at various times of your career, you've seen a million  
24 different ways for us to do this. This is the way we're doing  
25 it today. It's not rocket science, it's a little complicated

1 and it's got a lot of transaction costs, it's not inexpensive to  
2 do. But the -- but Vice Admiral Lautenbacher basically felt  
3 that and I feel that we don't do a very good job all the time of  
4 telling our story. And the whole idea is how can NOAA come  
5 together with a cohesive and comprehensive view as to what we do  
6 and to make a sense of the vitality of this for the American  
7 public and frankly the economic security of our country, you  
8 know, understandable and come alive for people who end up having  
9 to make these decisions. And that's really what this is all  
10 about. PPBES was brought by the Admiral from the Navy. In  
11 different parts of DOD they use a little different terminology.  
12 PPBES is actually an Army term but we added that in after about  
13 a year. P stands for planning, P stands for programming, B is  
14 for budgeting. So it's a planning programming and budgeting  
15 system and we've added the E and the E stands for execution, to  
16 sort of, you know, get this understanding that you not only plan  
17 and program a budget but then once you get a budget somebody's  
18 got to carry it out. And you want to make sure that the carry  
19 out is done consistently with the programming that might have  
20 been done two years before. So that's what planning,  
21 programming, budgeting and execution is.

22 As we go through this presentation this morning it's going  
23 to be a mix of things that you can talk about outside this room  
24 and things that you shouldn't talk about outside this room.  
25 Anything that has to do with dollars and specific dollar amounts

1 is something that ought to stay inside this room, especially if  
2 it has to do without your budget plan. And I don't know how  
3 much of that, you know, Steve and I will ultimately get into but  
4 we will answer whatever questions you have. So just keep in  
5 mind that if we're talking about policies and priorities, that's  
6 pretty much something that we ought to have a good broad  
7 discussion about with stakeholders and in the community at  
8 large. If we're -- if we end up talking about some specific  
9 dollar amounts in out years that are not public yet that has to  
10 stay inside the room and we appreciate that. But we're going to  
11 be as open with you as possible. And I'd like to keep the  
12 discussion very informal. So ask questions as we go through,  
13 raise your hand and we'll have some discussion, don't sort of  
14 wait until the end and then expect to, you know, go back to, you  
15 know, 10 slides or so and see how we go. Okay?

16 All right. Let's have a slide.

17 UNIDENTIFIED FEMALE: (Indiscernible - away from  
18 microphone).

19 MR. DUNNIGAN: Oh, are we going to dial in? Sure.

20 UNIDENTIFIED FEMALE: (Indiscernible - away from  
21 microphone).

22 (Pause)

23 UNIDENTIFIED FEMALE: (Indiscernible - away from  
24 microphone).

25 MR. DUNNIGAN: So we're it. One including us. Okay. So

1 what we're going to do is just give you basically an overview of  
2 PPBES as it's executed in NOAA and NOAA does it a little  
3 differently than the Navy or the Army. We're going to talk then  
4 specifically about one of the four mission goal areas and you'll  
5 see on the next slide I think or next couple of slides what I'm  
6 talking about there. But within NOAA in our planning structure  
7 we have four mission goals that are taken out of our strategic  
8 plan. Commerce and transportation is one of them, ecosystems is  
9 one, climate is one and weather and water is the other one. So  
10 we're going to talk to you, and this is what Steve will be doing  
11 a little bit more specifically about what the commerce and  
12 transportation goal is all about and what the out year  
13 priorities and planning looks like there. And then I'll come  
14 back and we'll talk towards the end here a little bit about what  
15 we see as some of our future challenges. Elaine.

16 MS. DICKINSON: Elaine Dickinson. Quick question, is this  
17 a system that is used government wide or is it just unique to  
18 NOAA?

19 MR. DUNNIGAN: It is used in a number of different  
20 agencies. It was basically developed in the military back in  
21 the MacNamera days. All right? So that's the Lynden Johnson  
22 administration. And, you know, DOD's always had challenges  
23 trying to, you know, bring, you know, the wide diversity of what  
24 they try to do together and MacNamera basically helped develop  
25 this system. Actually this system was the PhD dissertation for

1 Alice Rivlin. And I don't know if you know that but Alice  
2 Rivlin ran the congressional budget office for years and  
3 ultimately was the OMB Director I think at some point in the  
4 Carter administration. But that's where it came from. When  
5 Vice Admiral Lautenbacher came he looked at the planning and  
6 programming processes we had. They were pretty defused at that  
7 time and he wanted it to be much more structured. So he  
8 basically was very familiar with this system, he had run the  
9 PPBES system for the Navy in one of his billets and he recruited  
10 Bonnie Moorehouse who is now our Director of Programming to come  
11 over from the Navy and they worked to implement this system in  
12 NOAA. Now as we're doing it in NOAA it's different, you know,  
13 because we've tried to mold it to make it meet our specific  
14 issues and needs and capabilities and personalities but the  
15 overall structure of it is the same. It's used in a number of  
16 places, I don't know what all of them are, but it's basically a  
17 military system and the NOAA implementation of it is unique to  
18 NOAA.

19           So it is a tool. One of the things that Vice Admiral  
20 Lautenbacher thought when he came here was that we were way too  
21 stove piped, that if you were in NOS you never explored the  
22 possibility of synergies with the National Marine Fisheries  
23 Service or with the National Weather Service. What we find is  
24 and have learned over the last couple of years, that there are a  
25 lot of efficiencies and cross collaborations that we can do

1 within NOAA that make us more effective. And that's one of the  
2 benefits that I think has come out of the system. It's a long  
3 term planning system. It's like the old Yogi Bear quote, if you  
4 don't know where you're going you're likely to get there. And  
5 so we try to evaluate things that we want to do in terms of  
6 where we'd like to be five years from now and have that kind of  
7 a sense. And then it's a system for setting some priorities and  
8 allocating resources. It starts with stakeholders which we need  
9 to do on a regular basis. In my view we don't do this  
10 effectively enough. Some of you may have been engaged in  
11 stakeholder meetings in Washington, D.C. or around the country  
12 that we've done a couple of times. I've had an initial meeting  
13 with NOS stakeholders about two months ago. I know I need to do  
14 more of that. Our goal team leads, and Captain Barnum is the  
15 goal team lead for commerce and transportation, are being looked  
16 to to get out and find out what it is that our stakeholders  
17 want, and certainly the panel in an important place on our  
18 commerce and transportation goals for us to start. But the  
19 pictures in this slide basically come from a stakeholder meeting  
20 that was held in March of 2004 where we, you know, brought folks  
21 in, probably 200 people, and had them split up and talk about,  
22 you know, what they saw NOAA doing and where they thought we  
23 could improve and move forward.

24           Okay. So why is PPBES critical now? The defense budget  
25 is going to grow more than 50 percent over the next decade. The

1 U.S. Government only has, believe it or not, so much money. And  
2 we can keep printing it. It bothers me that my grandchildren  
3 are going to have to pay for it but we're living in a world of  
4 limits and there are some things that are happening sort of on a  
5 grand scale that play out. The Medicare drug benefit, \$1.2  
6 trillion, it dwarfs the President's original price tag. There  
7 are spending restraints. The President has indicated that he  
8 would like to see negative growth in discretionary spending  
9 across the U.S. Government. And here's a quote from a newspaper  
10 article in February of '05 talking about the President's budget,  
11 talking about eliminating dozens of politically sensitive  
12 domestic programs. Let me tell you what's going on here I  
13 think. You know, this is not a political statement. But we do  
14 appear to live in a country that wants to fight two wars, save  
15 social security, have tax relief and bail out people who get  
16 caught in serious storms. Now as long as those are the  
17 priorities of the country programs that we work for and are  
18 passionate about and know contribute to the economic security  
19 are going to be hard pressed to find a voice. And that's what  
20 is behind NOAA trying to spend some real time in a very  
21 concerted and disciplined way of articulating what our  
22 priorities really are. It's very much a question of priorities.  
23 As we like to say, the future ain't what it used to be. So the  
24 PPBES system is trying to give us an opportunity to look at what  
25 all of our requirements are, what are the things we have to do,

1 recognize we can't do all of them and try to make some decisions  
2 about which of those are most important.

3       Yeah, go ahead. In NOAA, when Vice Admiral Lautenbacher  
4 came in he saw a structure that was, as I said, very stove  
5 piped. You had a research component, you had a satellite  
6 component, an ocean component, a weather component, programming  
7 and planning and fisheries and vessel and aircraft operations.  
8 And what he said was, you know, there's too much commonality in  
9 what I can see across what we do and so when I can see  
10 crosscutting our goals that apply mainly to all of these  
11 programs. So what you see up on the slide really is a matrix  
12 and the major goals that he saw were for, as I said, ecosystems,  
13 climate, weather and water, commerce and transportation and  
14 mission support. The one thing that I will say since we're  
15 staying in the room here with this discussion is that too often  
16 in my view in NOAA we've referred to commerce and transportation  
17 as goal four with all that that implies in terms of priority.  
18 And I think we all appreciate the critical role that these  
19 programs and services play and I want to find a way to get NOAA  
20 really excited about all of its programs, including its commerce  
21 and transportation programs.

22       Now the other thing that he did, and I don't think we have  
23 a slide for this, was he looked across NOAA under each of these  
24 four strategic mission goals and then -- and said I see about 40  
25 different themes that play out and these themes he called

1 programs. So, for example, there is a Marine Transportation  
2 Systems program in NOAA, there's a Fisheries Management program.  
3 I was -- before I came here I was the ecosystem goal team lead  
4 and we had nine programs and those programs drew resources from  
5 different parts of the line structure across the top. So what  
6 he was trying to do there was to create a matrix system that  
7 gave us all an opportunity to share, to share responsibilities,  
8 to share assets, resources in a very programmatic and hopefully  
9 effective way that could be more tuned towards outcomes. And  
10 what he did was he empowered the goal teams and the programs,  
11 and Steve will be talking about the C and T programs when it's  
12 his turn. But he empowered the goals and the programs to do the  
13 planning and the programming and the budgeting and then the line  
14 offices, like NOS, are responsible for executing. So the system  
15 works on a continuing basis. For any one fiscal year you start  
16 with planning in March and -- no, back up. And the -- there's  
17 an annual guidance memorandum that Vice Admiral Lautenbacher  
18 signs that comes out in June and that gives guidance to the goal  
19 teams. Each one of the 44 programs then writes an operating  
20 plan and the goal team does a portfolio analysis. All of this  
21 is aimed at getting us a baseline for where we are and what's  
22 important. And beginning in September we move into the  
23 programming phase and that's where the goal teams really make  
24 their money, or really do their jobs. They write a program plan  
25 for a specific fiscal year. Now this September Steve and the

1 other goal team leads will be writing their program plans for a  
2 five year period from '09 to '13. So that's -- this is '06 and  
3 they're working on the '09 program plan this September. That's  
4 a little bit of a sense of the lead time that it requires and  
5 we'll see that in a slide. Leadership will approve this at the  
6 beginning of January and then the Vice Admiral will write a  
7 program decision memorandum at the end of January. That's  
8 basically direction to the budget office, tells the budget  
9 office go ahead and write the budget for '09 based upon this  
10 approved program plan that we have for the period '09 to '13.  
11 So budgeting will take over in February and they'll start  
12 preparing the budget which has to be approved by the Department,  
13 has to be approved by OMB and ultimately the following -- that  
14 takes a year, the following February the President will send  
15 that budget up to Capitol Hill. So -- and of course the process  
16 for '10 will have started again before, you know, we're done  
17 with budgeting for '09. So there's a number of cycles that are  
18 going on here all of the time. Once Congress is done and we  
19 have an appropriation then the line offices are given, you know,  
20 their opportunity to write a spending plan. We have to go back  
21 to the program plan that was approved two years before and say  
22 Congress gave us this money, this is -- these are the  
23 programming issues that we're supposed to be giving priority to  
24 and we have to execute. So in this system the line offices, our  
25 people are working in planning, programming and budgeting to

1 make that happen, it's not a separate staff. But where we  
2 really have an operational responsibility is on the execution  
3 side. So in any fiscal year we write operating plans, we do  
4 monthly and quarterly execution reviews, we have milestones that  
5 we have to be meeting, if we're not meeting our milestones we  
6 have to, you know, come up with plans to do so and at the end of  
7 the fiscal year when it's over with we have to do the final  
8 closeout. Next slide.

9 MR. RAINEY: Can I -- could I ask you one question?

10 MR. DUNNIGAN: Yeah, go ahead, Steve.

11 MR. RAINEY: Before I get too far behind you. One of the  
12 questions I've had in this process is, and I guess I'm -- it  
13 goes back a slide or two here, it was on -- when you talked  
14 about the crosscut goals. And I really appreciate the comment  
15 about commerce and transportation because I've done so many of  
16 those strategic planning things where it was an issue whether we  
17 would even be a strategic goal and so to see that elevated. But  
18 my question goes to -- I -- one of the points I've been trying  
19 to make over the years or push is that the hydrographic services  
20 that we're focusing on here, I think the first order obvious  
21 mission support is commerce and transportation. But in  
22 reviewing -- you know, like this -- been going through a lot of  
23 the different reports out like this is the geospatial framework  
24 for the coastal zone and everything. I mean it's -- it -- one  
25 of the things I'd like to try to have our panel emphasize is

1 that not only is this just simply, you know, for navigation but  
2 -- you know, in this report for example they're recognizing  
3 wildly across all of coastal zone stakeholders that the need for  
4 bathymetry is, you know, right a -- a top priority and things.  
5 And so many of these programs and services support priorities  
6 and programs, I think that's the whole idea of the crosscutting,  
7 and I'm wondering if as we look at the percentage that kind of  
8 goes to commerce and transportation and the -- you know, the  
9 traditional promote safe navigation type programs if there's a  
10 way to get credit or, you know, to account for the benefit that  
11 you're getting on these other goal systems. I mean can the  
12 ecosystem goal provide some resources to some of these programs  
13 because they're benefiting from the -- you know, from these  
14 datasets as well, I mean the bathymetry, the -- you know, the  
15 back scatter for habitat, we've talked about a lot of the  
16 multiple uses. Is there an ability to say that -- you know,  
17 when we're looking for -- when NOAA's looking and having to make  
18 these hard choices is it going -- are we going to be keeping  
19 limited to the small percentage of the NOAA budget that sort of  
20 -- I don't want to use the word earmark, but identified as  
21 commerce and transportation or can you look across the suite of  
22 NOS or, you know, NOAA funding and say, well, you know, gosh, we  
23 need this data too and so we -- you know, this is coming up  
24 short and -- can you look across that, is that part of the PPBES  
25 system, is that ability to do that?

1 MR. DASLER: Jon Dasler. Yeah, along the same lines as  
2 Scott. I mean we see it a lot, the solicitations that are out  
3 for hydrographic data acquisition or bathometric data from  
4 Coastal Services Center or Fisheries mapping of habitat on coral  
5 reefs. And I think that's one thing where it's really been  
6 lacking is the data that -- and I know it's progressing along  
7 those lines, but the data that HSD is providing in their  
8 bathometry acquisition and imaging of the bottom, it really has  
9 these multiple uses which has really been I think understated.  
10 And it's one of the few acquisition programs of that kind of  
11 data where it can be used, you know, across the board for both,  
12 you know, habitat mapping and inundation modeling. So it does  
13 seem like there is a lot of this different acquisitions within  
14 NOAA that somehow if that could be interlinked could be a  
15 tremendous benefit.

16 MR. DUNNIGAN: Yeah. Let me -- if you get the impression  
17 that this is a system that takes a lot of energy to run you're  
18 right. Okay? If there's any benefit that has come back to us  
19 from that system it's that we have a lot more talking back and  
20 forth all the way across NOAA now than we've ever seen before.  
21 When we used to do planning, strategic planning and budgeting  
22 strictly by line office we did it all within our line office.  
23 And with all of this crosscutting that we're doing there are  
24 lots of opportunities. Let me give you an example or two. When  
25 I was the ecosystem goal team lead I got together with the

1 climate goal team lead and I said we have a problem in the  
2 Arctic, it's called receding ice. And we actually talked to  
3 Charlie Challstrom when he was still with us here about the  
4 implications that retreating ice would have for marine  
5 transportation across the northern part of our planet. And  
6 those kinds of discussions probably never would have happened if  
7 we didn't have this kind of a system that made it work. The  
8 goal team leads got together one day and decided that they  
9 wanted to be able to talk to each other without having any adult  
10 supervision. And so they decided to have a discussion about  
11 droughts and all of a sudden they became known as drought  
12 meetings and it was sort of this little internal understanding  
13 that if there was a meeting on the schedule that said drought  
14 meeting it was the goal team leads sitting down and talking to  
15 each other about things that they didn't want to have NOAA  
16 interfering with them on. And of course ultimately everybody  
17 knew the key so it sort of broke down. But they still have  
18 these meetings regularly and they still call them drought  
19 meetings. That's not to be distinguished from the Mexican water  
20 quality meetings which was basically a -- an elevated drought  
21 team meeting that was held at Mi Rancho (ph), a Mexican  
22 restaurant near our building. So there is this discussion that  
23 goes on back and forth. The Fairweather right now is doing --  
24 you know, it's just a hydro vessel, is doing a fisheries habitat  
25 piece of work and I think it's up in Bristol Bay they told me

1 but I'm not entirely sure. So there is that ability too. We're  
2 finding that our hydro vessels are able to do a lot of habitat  
3 mapping and one of the things that commerce and transportation  
4 and ecosystems are trying to come together on is integrated  
5 ocean and coastal mapping, you know, having a consolidated  
6 program to recognize that we have requirements in a couple of  
7 different places of our agency, are there things that we can do  
8 to try to meet those requirements more effectively by deploying  
9 assets to do things that traditionally we wouldn't have thought  
10 of, we would have said the Fairweather's a hydro vessel, you  
11 know, get out there and do those types of surveys. Well,  
12 actually the Fairweather can do a lot of interesting things and  
13 as a matter of fact the fisheries survey vessels that are out  
14 there from time to time are going to be in a position to be able  
15 to do some mapping as well, they can carry sonar. So there's a  
16 lot more of this cross stuff that's going on. There is in the  
17 long term NOAA plan a large re-capitalization of the fisheries  
18 survey fleet that's underway. And we -- last year in the  
19 process we got to the point between ecosystems and commerce and  
20 transportation about talking about is that really the right  
21 thing to do. Because commerce and transportation was arguing  
22 for a replacement for some of our, you know, very aging, you  
23 know, hydro mapping vessels and -- but we had a commitment by  
24 NOAA to build six or seven or eight actually new fisheries  
25 survey vessels. You know, so which one makes sense. I was

1 ecosystems at the time so I was fighting for fish vessels, Steve  
2 was fighting for hydro vessels, now I'm on the other side. And  
3 -- but what came out of our programming last year was a  
4 direction to the ecosystem goal team lead, which is now Steve  
5 Murowski, and -- to Captain Barnum as the commerce and  
6 transportation goal team lead to sit down and look at their  
7 requirements and find out whether or not we could be developing  
8 platforms in the future that would be able to meet more than  
9 just one mission requirement. So that you wouldn't think of the  
10 Rainier as an NOS vessel or as a hydro vessel, you know, you'd  
11 think of the Rainier or some other vessel that we could build  
12 that could be multipurpose as a platform to do lots of different  
13 missions. That kind of discussion together has not been a part  
14 of the NOAA culture until we implemented this program. So those  
15 are some examples of how this I think is helping to broaden out  
16 the discussion within NOAA and I'm sure Steve will have an  
17 example or two to tell you as well. Okay. Yes, sir. No.

18 DR. LAPINE: Can you hear me now?

19 MR. DUNNIGAN: No.

20 DR. LAPINE: Can you hear me now?

21 MR. DUNNIGAN: Yeah.

22 DR. LAPINE: Okay. Going back even further.....

23 UNIDENTIFIED FEMALE: Closer to the mic.

24 DR. LAPINE: Closer to the mic. There we go. Whoever  
25 thought they'd need a mic to hear me. At any rate, going

1 further back when the Admiral issues this yearly guidance memo,  
2 who helps him write that? Because obviously that impacts the  
3 whole process.

4 MR. DUNNIGAN: Back earlier in the slides you saw the line  
5 offices in -- yeah, here we go. Research, satellites, oceans,  
6 weather, operations, fisheries, right in the middle there,  
7 program planning and integration. That's a new line office that  
8 Vice Admiral Lautenbacher created, Mary Glackin is the assistant  
9 administrator and they're in charge of the planning part of  
10 doing this and also in charge of trying to get the line offices  
11 to integrate better. So there's two major things that Mary  
12 Glackin's line office does. But PPI has the lead for doing the  
13 annual guidance memorandum. The other products, the program  
14 decision memorandum which comes out of programming is written by  
15 our programming analysis and evaluation office, PA and E.

16 DR. LAPINE: How do the folks in this PPI, how do they  
17 know what the programs are doing? I mean they seem so far  
18 removed from the day to day and the operations and the trauma of  
19 the programs. How do they have enough expertise to give Admiral  
20 guidance on what NOAA should do?

21 MR. DUNNIGAN: Well, two ways. First of all, their  
22 leadership is very engaged on an ongoing basis both with the  
23 assistant administrators and with the goal team leads. Mary  
24 meets regularly with the goal team leads and with the program  
25 managers. She knows every one of those 44 managers and is

1 talking to them on a consistent basis. The other thing is this  
2 office has almost no budget. They get their staff from the  
3 lines and the goals. So we have a couple of NOS people that are  
4 sitting over there staffing that, they'll be there for a year or  
5 two years and then come back. So that sort of keeps them fresh  
6 all the time and keeps people working on their programs who've  
7 been involved and understand and can see how these things work.

8 CAPTAIN HICKMAN: Is it -- it's okay to speak about the  
9 22nd, am I correct? Well, something -- it's ironic that you ask  
10 that because the -- Mary Glackin and Bonnie Moorehouse and  
11 Maurine -- her last name?

12 UNIDENTIFIED MALE: (Indiscernible).

13 CAPTAIN HICKMAN: She's not. Okay. They're going to be  
14 in Houston on the 20 -- well, the 21st for other reasons, I  
15 guess the Ronald Brown which I actually piloted out Saturday  
16 before I came here, just happened to be there. They're checking  
17 air quality now but we were joking as the pilots that we had to  
18 hire somebody or somebody -- the government's paying to tell us  
19 our air stinks in Houston but we already knew that but that's  
20 what they're doing, air quality right now. But Mary is going to  
21 be on the pilot boat, we've -- we're going to take one of our  
22 pilot boats and they'll be on the boat for about four hours so  
23 they can see our nav systems, the ENC's, how we run the ports  
24 program, so that's part of the education of -- or where they get  
25 their background on the actual ongoing of what NOAA provides.

1 So that's -- I think is extremely important, coming up for that  
2 visit.

3 CAPTAIN BARNUM: If I could add something to that. And  
4 that all came from dialogue with Mary. Mary had asked me one  
5 day -- Mary's background is from the Weather Service, she worked  
6 in NSBS (ph), and said she'd like to learn more about commerce  
7 and transportation, she was going to be in Houston the 21st and  
8 like to stay an extra day and I said Houston would be a perfect  
9 place to tell you about commerce and transportation, to talk  
10 about the importance of height modernization and Vdatum and  
11 ports and bridge heights and, you know, on and on and on and on  
12 and put in on the water and actually seeing it in action. So  
13 that's going to be both Mary and Bonnie together so two parts of  
14 that PP, the two P's, right at the front end. And so it all  
15 goes into educating folks, it's one my challenges to educate and  
16 have a story and make it compelling them -- for them to include  
17 the priorities in the AGM and include the priorities in the  
18 program plan, which ultimately gets reflected in the budget.

19 MR. DUNNIGAN: Do we have somebody on the phone now?

20 ADMIRAL WEST: I don't know if I should announce myself or  
21 not.

22 MR. DUNNIGAN: Yeah, you should.

23 ADMIRAL WEST: Snowing up there?

24 MR. DUNNIGAN: No, it is not snowing up here, it's a  
25 beautiful balmy 85 degrees and the sun is shining. You can see

1 right through me, can't you Admiral?

2 ADMIRAL WEST: (Indiscernible). Whenever somebody speaks  
3 into the mic clearly I can hear you, other than that it cuts  
4 out.

5 MR. DUNNIGAN: Okay. Getting a little bit of feedback  
6 here. Why don't we make sure that if you're not speaking your  
7 mic is off, the green light's off. And if you -- it does have  
8 to be on the whole time? Oh, okay. All right. That sounds  
9 like Admiral West, am I right?

10 ADMIRAL WEST: Speaking.

11 MR. DUNNIGAN: Welcome.

12 ADMIRAL WEST: Thanks.

13 MR. DUNNIGAN: So let -- as I was saying, we have any  
14 number of different fiscal years at various stages of this  
15 process going on at any one time. And so let me say this is  
16 August. We're currently right now executing the fiscal '06  
17 budget. In October we will start closing out the '06 budget and  
18 we will begin executing the '07. But today we're executing the  
19 '06 and we're hoping that Congress is going to give us an '07  
20 budget. It would be nice if it came before the beginning of  
21 fiscal '07, but that's not likely to happen. The latest  
22 intelligence we have is that the '07 budget is going to be  
23 delayed a long time. And so we'll be funded under a continuing  
24 resolution. Problem with a continuing resolution is that  
25 they're pretty conservative usually. They limit you to

1 sometimes the lowest of the available marks that are out there,  
2 sometimes to last year's budget if that's lower. So we end up  
3 having to run somewhat of a shoestrings operation during the  
4 first couple of months of the fiscal year until Congress gets us  
5 our money. But nominally we will be -- begin to execute the '07  
6 budget in October. Right now we're -- the '08 budget is gone  
7 through planning and programming and budgeting at NOAA, it has  
8 left NOAA and gone to the Department, the Department has given  
9 it back to us and we've made some changes and the Department  
10 will in the next two weeks be submitting the '08 budget, the one  
11 that the President will announce next February, we'll be  
12 submitting that to the Whitehouse. And what will happen is that  
13 goes to OMB, they'll review it, they'll have questions and  
14 priorities, it'll, you know, iterate its way around at least  
15 once, maybe twice, before the final decision is ever made and  
16 all packaged up so that the President can announce them. For  
17 '09, we're right now in the process for doing '09 and it's a  
18 five year program and every year, as I was saying earlier, we  
19 start planning in March, so we started the '09 process last  
20 March, and right now we're still doing planning, programming for  
21 '09 will start in -- right after Labor Day and then we'll move  
22 ahead and by next February we'll finish programming and we'll  
23 begin our budgeting for '09. So -- and then as a part of the  
24 programming, it's a -- it's always a five year program so we've  
25 started thinking about what we want our profiles to look like

1 for '10, '11, '12 and '13 as a part of the '09 process. So you  
2 can see that at any one point you've always got at least four  
3 fiscal years of program, planning and budgeting going on at any  
4 one time. And the out year planning of it is actually a little  
5 bit broader than that. So you're looking at about eight years  
6 worth of work at any one time. But, you know, in order to  
7 backtrack from when Congress has to appropriate, the President  
8 has to propose and we have to get our work done, there isn't  
9 really any other way to do it. And that's not new by the way, I  
10 mean this has been sort of a part of the federal budgeting cycle  
11 for a long time, this sort of very extended, attenuated set of  
12 opportunities to deal with these issues. Okay.

13           So we do this because, as Admiral Lautenbacher has said,  
14 society needs the work that we do, things are changing,  
15 population growth, competing demands for limited resources,  
16 increasing expectations for highly reliable weather and climate  
17 information are all driving the critical responses that NOAA  
18 has. And we're fairly unique in our ability to be able to deal  
19 with them. So his view, and I think it's true, is that NOAA can  
20 only be successful by building a team that works and thinks  
21 together. And that's what we're getting as a part of our matrix  
22 management process.

23           What I'd like to do now, the -- what we've been talking  
24 about, let me just do a check of the group here and make sure  
25 that we're all together. We've been talking about the big

1 process that we go through at the NOAA level for programming and  
2 planning and budgeting and sort of how it works and just to open  
3 you to how complicated it is and how it fits into the matrix  
4 vision for what NOAA does. What we're going to do now is we're  
5 going to drill down a little bit into that to something that the  
6 panel is more actively engaged in and that's that goal that  
7 deals with commerce and transportation that Captain Barnum is  
8 the goal lead for. But before we drill down I want to make sure  
9 that we're okay, that we've got -- have some sense of how the  
10 bigger picture works which is what I've been talking about.  
11 Anymore questions there? Bill.

12 MR. GRAY: Far be it for me to argue with a system that  
13 the government has adopted. It strikes me as one that is so  
14 complex that it's almost impossible for an outsider to  
15 understand what it's all about. I really have the feeling, as I  
16 have for many years, that the importance of hydrographic  
17 information just gets lost and it has gotten lost for a very  
18 long time indeed. And the National Academy of Science has  
19 commented on this, others have, we did an INTERTANKO, we  
20 produced the MTS report and so forth. And the long and the  
21 short of it is in what's getting done nothing has changed, the  
22 priorities haven't been increased at all. And I don't know  
23 whether that's a system flaw or the fact that there's just so  
24 much going on here at one time. We heard in San Diego a year  
25 and a half ago, I can't remember who it was, whether it was Mike

1 or Charlie or somebody like that, talking about how this process  
2 worked. And I asked him afterwards, I said how much of your  
3 time is spent on all this planning stuff and the answer came out  
4 just over 50 percent and I thought, well, you should be doing  
5 things instead of making multi-year plans that are all going to  
6 be impacted by decisions that are yet to be made and it just  
7 strikes me as hugely complex and -- the fact of the matter is  
8 commerce and transportation is getting the back of the hand of  
9 the government just as it always has in my experience.

10 MR. RAINEY: Tom.

11 MR. SKINNER: Trying to get this on. Is that on?

12 MR. RAINEY: Yep.

13 MR. SKINNER: Tom Skinner. I just wanted to respond to  
14 Bill's point and it is very complex and halfway through I just  
15 sort of think where am I in this whole process and how are we  
16 ever going to get to the end. I think it's critical for us to  
17 know it and figure out how the system works for the very reason  
18 that you raised, Bill, in that so far -- particularly you've  
19 been at this a lot longer than I have, that you haven't seen any  
20 change. So I think this is really critical to sort of say,  
21 well, how do you change the system or how do you get -- where do  
22 you find the pressure points to actually effectuate some change.  
23 So I think this is very useful. I agree with you that it's very  
24 complex, it's complex at the state, local, any level where you  
25 do a budgeting and planning process, but I think it's pretty

1 critical.

2 MR. GRAY: I would just re -- my experience was when you  
3 wanted to get money the final decision was made on a memorandum  
4 that was never allowed to be more than two pages long. Whether  
5 you wanted to build an oil refinery or 15 ships or anything else  
6 like that you had to justify it to the people holding the purse  
7 strings which was the management committee in two pages and  
8 there were certain things that had to go into that and that's  
9 the way they made their decisions. And -- excuse me? They  
10 still do the same thing, I can tell you.

11 MR. DUNNIGAN: You know, you're right when you point out  
12 that this seems to be a complicated system. NOAA's a big  
13 agency, it's a very complicated business that we do when you  
14 add, you know, all the satellite programs and of course those  
15 have made the front page lately too, you know. So I -- the  
16 issue -- I try to simplify. All right? And the simple approach  
17 that I have to this is I have to figure out a way, Steve has to  
18 figure out a way to make this stuff come alive to the people in  
19 our agency who are making decisions. And that's a struggle,  
20 that's something that we have to continually work on. NOAA has  
21 a lot of very important things it has to do, commerce and  
22 transportation is one, ecosystems obviously is another. You  
23 know, we're in hurricane season and the Gulf of Mexico and the  
24 south Atlantic and the Atlantic coast and in Hawaii, almost got  
25 hit by a hurricane there three weeks ago. So, you know, and

1 NOAA's expected to respond to all of this. You know, how do we  
2 fight to make sure that commerce and transportation gets the  
3 recognition that the people need to have it to get is one issue.  
4 How NOAA fights to get, you know, the kind of recognition that  
5 we think NOAA needs for all of our important programs, you know,  
6 in a world where there are so many of these priorities. And,  
7 you know, that's why I think that the effort the Corps led to  
8 bring together this Friends of NOAA group and fight for a --  
9 they ended up fighting for a budget that as a federal official I  
10 can't support because the -- it's more than the President  
11 wanted. But, you know, they argued for a four and a half  
12 billion dollar NOAA. And it was really one of these times when  
13 the NOAA community started coming together and, you know, rather  
14 than having all of the pieces come in and ask for, you know, my  
15 little piece here, your little piece there. And you see that  
16 the Senate mark on our budget for '07 is \$4.4 billion, \$4.3, you  
17 know, pretty close to the number that the Friends of NOAA group  
18 has been trying to promote. You know, the other side of that is  
19 the House budget. The House budget is a 46 percent reduction  
20 for the National Ocean Service from our current year funding.  
21 So -- you know, and right now the conference is going to have to  
22 figure out how to make that. What we can do is to help tell the  
23 story about why these things are so important and this is giving  
24 us a very structured way of doing that. You know, it's one  
25 thing for me to go off the reservation and go up to Capitol Hill

1 and try to trade and get some things done. It's another thing  
2 for me -- and that'll last as long as I'm here and then it's  
3 gone. It's another thing for me to try to build a system in  
4 NOAA over the long term that can help articulate priorities and  
5 move the thing forward and that's what this is all about. You  
6 know, if you were to ask me today in this room is all of this  
7 worth it I would say I'm not sure and most people who are  
8 involved would say they're not sure. But I think we would say  
9 that it is giving us a very structured way to understand what  
10 our priorities are and to evaluate priorities against each  
11 other. And so in that sense I think it's a worthwhile thing for  
12 us to do. But, Bill, you're right, it is not perfect at all and  
13 it's not the end of the game. We have to do a lot more I think  
14 to carry this on. Elaine.

15 MS. DICKINSON: Elaine Dickinson. It sounds like you're  
16 pretty locked into this system now because, as you said, Admiral  
17 Lautenbacher wanted it and it's the structure you've been using.  
18 You know, in a couple years we might have an entirely new  
19 administration, well we will. Does that mean that this whole  
20 system could go out the window and you're back starting all over  
21 with something entirely different or do you think it's this is  
22 it for the foreseeable future?

23 MR. DUNNIGAN: Well, certainly for the foreseeable future  
24 on the assumption that our current leadership stays in place  
25 until January 20th of 2009. And it typically takes a year to

1 get new leadership, new political leadership in. So, you know,  
2 for the next three years, which is always the foreseeable future  
3 in a government bureaucrat's life, I think we're going to have  
4 this to deal with. Over in the Defense Department the word is  
5 that, you know, the MacNamera people brought this system in and  
6 over the years it's been frustrating and they've wanted to get  
7 rid of it and every time they try to get rid of it they find  
8 they can't. It may be a system that, you know, develops enough  
9 of a foundation of its own that, you know, it does continue and  
10 it continues to get some attention. But you're right, I can't  
11 predict that, you know, new political leadership coming in  
12 wouldn't look at this and have the reaction that many of us have  
13 and say, you know, we got to find a different way to do it. Or  
14 they might -- may just modify it. But that we really can't  
15 speculate about.

16 So -- well, then let's shift, let's talk specifically  
17 about the commerce and transportation goal and the programs that  
18 are underneath it and the best person to do that is the goal  
19 team lead and that's Captain Barnum. So I'll turn this over to  
20 him now.

21 CAPTAIN BARNUM: Thank you, Jack. This is Steve Barnum.  
22 It's a pleasure to be here to talk to you about commerce and  
23 transportation because it's something I certainly believe in.  
24 It's a dual hat for me. In addition to the Director of Coast  
25 Survey I'm also the goal team lead for commerce and

1 transportation and.....

2 UNIDENTIFIED FEMALE: (Indiscernible).

3 CAPTAIN BARNUM: Yeah, it's on. Is that better?

4 ADMIRAL WEST: Yeah, you're cutting out.

5 CAPTAIN BARNUM: How about that? All right. Steve  
6 Barnum, commerce and transportation. I'll just repeat that  
7 commerce and transportation is certainly the -- something that I  
8 believe in, something that I think has a strong role within NOAA  
9 and commerce, it fits well with being under the Commerce  
10 Department. It's all about what we phrased in the -- in telling  
11 our story about information that moves America and that is  
12 meaning that American people has a ability to know where they  
13 are. Can you go to the next slide please? I'm sorry, the  
14 previous slide, we're missing one. That one. Know where they  
15 are, get to go -- get where they are going safely and  
16 efficiently, make appropriate decisions for safe, secure and  
17 efficient environmentally sound transportation network and that  
18 these system of services go uninterrupted during times of  
19 emergencies or critical events.

20 Next slide please. Some of this I showed in the Houston  
21 meeting so I apologize for the repetition. This is a new slide  
22 I don't think you've seen. But this is a slide the Admiral  
23 asked for from all of the four goals and wanted to know what our  
24 national interests are, such as we are the largest trading  
25 nation. We -- the marine transportation network carries over

1 three-quarters of the weight of all international freight.  
2 These are statistics that the Admiral can use in his discussions  
3 with the Hill and commerce. And what does that mean for NOAA  
4 investments? It means that marine transportation, safety and  
5 efficiency through nautical chart products and services, real  
6 time water levels and currents, accurate weather for surface,  
7 marine and aviation. Spill response, Jack was talking earlier  
8 about the safe seas, that we need to be prepared, god forbid, if  
9 there were a split that we'd be able to respond to it and  
10 effectively clean it up. And also satellite based search and  
11 rescue is within a commerce and transportation goal.

12 Next slide please. These are the programs that make up  
13 commerce and transportation, these are the seven or six  
14 programs. There's actually seven programs, there's one called  
15 commercial remote satellite licensing that is kind of an oddball  
16 program that is under review now to be moved to another program  
17 under satellite services. But the core components or core  
18 programs of commerce and transportation are the Marine  
19 Transportation System, geodesy, aviation, marine weather,  
20 surface weather, emergency response. All these programs go into  
21 fit making our transportation network more efficient and keeping  
22 it up and going if there were an incident.

23 MR. GRAY: Steve.

24 CAPTAIN BARNUM: Yes.

25 MR. GRAY: Sorry to bother you, but you put something up

1 like that, I guess it's under geodesy that you've got water  
2 depth, tide, current, all these things. And you got three  
3 weather things and nothing even mentions tides, currents or data  
4 -- water depth information.

5 CAPTAIN BARNUM: That's -- I don't want to say it's  
6 buried, but it's.....

7 MR. GRAY: It is buried.

8 CAPTAIN BARNUM: .....within Marine Transportation System  
9 and I'll go -- drill down a little bit further. But to be able  
10 to wrap this up into a larger message to -- that the Vice  
11 Admiral can then, you know, as a package so to speak about  
12 commerce and transportation, the services within that, how do  
13 they fit into the American economy of making it move more  
14 efficiently, making the supply chains of getting goods and  
15 services on the ships and getting them into the ports and  
16 getting them on a rail, getting them on the planes, getting them  
17 to the Walmarts, getting them to the Home Depot. So the  
18 commerce and transportation is more than just currents and water  
19 levels and charts.

20 MR. GRAY: It's a lot more than that. All I'm trying to  
21 say is in marine we have got information that's hundreds of  
22 years old being used on ships that are brand new.

23 CAPTAIN BARNUM: Agree.

24 MR. GRAY: We have aviation, they've got good maps,  
25 they've got current maps and things like that, we don't. Those

1 points don't get across in something like this.

2 CAPTAIN BARNUM: Well, to be fair, some of the issues with  
3 aviation weather, they do have some antiquated systems, they do  
4 not get digital -- one of the issues in aviation weather is  
5 getting digital four dimensional weather information into the  
6 cockpit so that they can make more critical decision.

7 MR. GRAY: (Indiscernible - away from microphone).

8 CAPTAIN BARNUM: Right. Right. Well, their issues in  
9 aviation weather is more, you know -- you know, the delays that  
10 you see in the airport. So I hear you, I hear.

11 Next slide please. Marine Transportation System. This is  
12 integrating elements, this is where I'm drilling down further,  
13 of Coast Survey, NGS, CO-OPs and National Weather Service to  
14 promote safe and efficient navigation. This picture was taken  
15 at the Tacoma Narrows Bridge where they are building a new  
16 bridge. So, again, the issue of water depth, obstructions,  
17 height of the bridge to be able to fit this equipment through.  
18 And these are the slides that I use and the same messages that I  
19 use both to senior leadership, NOAA, and also on the Hill, so  
20 talking about these services and how they affect the economy of  
21 the nation.

22 Next slide please. Geodesy, infrastructure for  
23 consistent, accurate, timely positioning; models and tools for  
24 describing phenomena for positioning the national spatial  
25 reference system; and enhancing local capacity for accurate

1 positioning. Certainly important to what we've seen after  
2 Hurricane Katrina, Rita and the rebuilding. I continually see  
3 articles from our navigation manager in Louisiana talking about  
4 the needs for accurate heights and that the -- there is so much  
5 concern about the FEMA maps and the questions with those and so  
6 now people can't rebuild their homes, they're on hold on whether  
7 they can rebuild their homes. So it's bringing to light the  
8 importance of accurate heights. And of course that all plays  
9 into the larger picture of, you know, how high is a bridge,  
10 what's the gap of the bridge, what's the actual datum for the  
11 bottom, et cetera.

12           Aviation weather, talked a little bit about this earlier.  
13 This is having accurate and timely information into the cockpit,  
14 a four dimensional aviation gridded digital database. Right now  
15 it's pretty much text based. Being able to look further into  
16 the future how -- similar to the Marine Transportation System  
17 how are we going to cram more aircraft into the same amount of  
18 airspace.

19           Next slide. Marine weather. Certainly fits with the  
20 services that we provide to the mariners, he needs good weather  
21 to be able to get in and out of port, to be able to sail across  
22 the seas safely and get to his destination on time. Working in  
23 this arena to improve our models and improve the delivery and  
24 quality, timeliness of the data. Certainly marine weather is  
25 also very critical in evacuation of ports for Marine

1 Transportation System. Where is a hurricane going to hit, where  
2 do the ships need to go to evacuate or don't need to evacuate.

3 Next slide. Surface weather. Similarly this is fledgling  
4 program within commerce and transportation. This is basically  
5 integrating the numerous mesonets that are across the country.  
6 Many states have their own weather observing systems along this  
7 -- the highways, interstates. Taking those and leveraging those  
8 investments into a system where we can basically assimilate that  
9 data, quality control it and then put it back out to the users  
10 for value added. That information would also be used for  
11 quality control, it'd be also used for improving our surface  
12 models so that we can then do better jobs of routing surface  
13 transportation, knowing when they need to salt the roads,  
14 knowing when potentially black ice is ahead of you on the  
15 interstate before you hit it, those kind of things. This is  
16 where this is going with surface weather. All again tied into  
17 how do we get the goods off the ship, get them to the port, get  
18 them on the rail, get them on the highway, get them on the  
19 airplanes and get it to the destinations at the Walmarts and the  
20 Home Depots and the grocery stores.

21 Emergency response. This is, again, heaven forbid that if  
22 something were to happen, but we certainly saw it happen in  
23 Katrina, Rita. We practiced it in Safe Seas in San Francisco  
24 last week. This is preparedness to respond, responding to  
25 emergencies. Certainly the NRT's and the Office of Response and

1 Restoration responding, working with the Coast Guard to help  
2 mitigate the numerous oil spills and contaminated --  
3 contaminants that were sent up into the marshes and into the  
4 wetlands.

5 Next slide. The C and T FY '09 priorities. This came out  
6 of the -- pretty much out of the AGM and that was increase  
7 timeliness, quality and usability of navigation products,  
8 positioning weather information, emergency response, integrated  
9 products and services to mitigate impacts from extreme events,  
10 again on a high level.

11 Next slide. Critical issues for us in the future.  
12 Certainly nautical chart updates. Katrina, Rita, we're just  
13 beginning to scratch the surface of what happened down there and  
14 understanding all the debris that went in the water. Updated  
15 elevations, certainly for the area trying to understand -- to  
16 modernize height modernization and -- on a regional basis so  
17 that we can do a better job at predicting emergency escape  
18 routes, determining storm surge inundation, determining how best  
19 to rebuild the infrastructure. Water levels and PORTS certainly  
20 play into that also. That's some of the cross goal coordination  
21 that the water levels and PORTS are important to the Weather  
22 Service because they help predict storm surge inundation. This  
23 is some of the connections that John was talking about and some  
24 of the others of this cross communication that -- why suddenly  
25 they should be interested in water levels and also the PORTS

1 data. Certainly for emergency response the PORTS data is  
2 critical for being able to predict a spill. I know that in  
3 Calcasieu, when you had that spill, Adam, down in Calcasieu they  
4 had a spill down there. If they had had a PORT system I think  
5 everybody would have had better information on how to boom it  
6 and deal with that incident. Yes.

7 MR. MCBRIDE: Thanks for mentioning that, Steve. Adam  
8 McBride. And I wanted to bring that up. At the end of June in  
9 the Calcasieu waterway we had an oil spill, some 100,000 barrels  
10 of crude oil into our waterway and ultimately about 50 percent  
11 of that was contained in the various bayous and sections before  
12 it hit the main channel. But we did end up shutting down the  
13 channel with about 40,000 barrels of oil, the 12th largest port  
14 in the nation was shut down for over two weeks. We're hearing  
15 right now about the Prudhoe Bay pipeline cutting supply to the  
16 U.S. by some 400,000 barrels a day. Well, we have 500,000  
17 barrels a day that wants to move in and out of our waterway that  
18 was affected. We went to the strategic petroleum reserve and we  
19 were out of business from a waterways point of view for over two  
20 weeks. Now during that time Coast Guard and the offending oil  
21 company, Simco, certainly took the lead in responding. But one  
22 of the areas that would have been, you know, tremendously  
23 important and one of the areas we did not have good information  
24 on was accurate tidal and current models. And given the  
25 waterway systems in Louisiana the entire team, unified command,

1 could have responded much, much better in terms of positioning  
2 its equipment and resources if they had known in which direction  
3 that product was going to flow more accurately, more than just  
4 the intuitive sense of those of us who were in that waterway,  
5 the pilots and the captains, et cetera, and we could have done a  
6 lot better. And when I asked that question at the daily  
7 briefings everyone was just, you know, tremendously clear that  
8 good tidal information, good water flow information would have  
9 aided that response. And it's something that I come back to and  
10 I've come back to over and over and that is this PORT system  
11 even in the straights that it's in right now in terms of funding  
12 and the difficulties that we're seeing with it should not be  
13 limited to those ports that have the money available, safety is  
14 not a function of who can afford it. Priorities need to be set  
15 of course but the PORT system needs to move up that priority  
16 list. We've said this over and over, we certainly have not been  
17 adequately heard as a group on this subject, not only from this  
18 panel but the industry for many, many years. And I just want to  
19 reinforce the fact that, you know, 100,000 barrels of oil went  
20 into the water. Surprisingly little federal or national press  
21 coverage on that, didn't seem to get very much attention which  
22 it looked -- what it did do was it forced the price a barrel of  
23 oil up \$3.00 which affects everybody. The PORT system could  
24 have aided that response, got us back to work much, much sooner.  
25 And that's not to detract in any way from the response efforts

1 that NOAA, Coast Guard and others made, but we could have done  
2 better with better information the PORT system would have  
3 provided. Thanks, Steve.

4 CAPTAIN BARNUM: Thank you, Adam. A very important port  
5 in -- point in that, again, this is some of the messages that I  
6 take to certainly internal NOAA leadership and certainly on the  
7 Hill is that these systems have dual use, that they're for  
8 protection of and efficiency of commerce so they give people the  
9 data up front so they don't have the latest information to be  
10 able to safely -- or move these large vessels through these  
11 ports. So they have the accurate data in hand and then if  
12 something happens then we have the system there to help us  
13 respond to it quickly and efficiently. Next slide.

14 CAPTAIN ARMSTRONG: Steve, could I ask a question?

15 CAPTAIN BARNUM: Yeah, go ahead.

16 CAPTAIN ARMSTRONG: Andy Armstrong. Steve, I see that we  
17 have a goal that's called weather and water and then we have a -  
18 - we have the commerce and transportation goal and in that  
19 there's aviation, surface and marine weather. And I just wonder  
20 is the incorporation of weather into commerce and transportation  
21 providing any synergy or benefit or enhancement to the other  
22 parts of marine transportation or is it simply spreading weather  
23 into more goal teams to increase the leverage for that  
24 particular part of NOAA.

25 CAPTAIN BARNUM: This happened before my time, I kind of

1 inherited that hand of programs that was set up. Jack may have  
2 some history on that. But as I see it and how I've woven it  
3 together is this -- basically through the present measures on  
4 the committee and the Marine Transportation System. So we had  
5 the President's backing, all these things fit into the bigger  
6 picture of commerce and how do we move -- this is information,  
7 again, we -- as we -- I phrased it earlier, information that  
8 moves America, giving information to the folks that are trying  
9 to move commerce either on surface, rail, certainly on the  
10 Marine Transportation System. So I see it as a benefit I think  
11 having those programs within the commerce and transportation.  
12 Does that answer your question? Great. Yes, Mike.

13 MS. SZABADOS: Steve, I'd like to -- can you hear me? Is  
14 this on? Okay. Mike Szabados. I'd like to add to that a  
15 little bit is that it's -- it is crosscutting and in some  
16 respect I'll take the Water Level Program. In the -- the water  
17 and weather is actually -- has identified funding increase to  
18 the National Water Level Program in that part of that portfolio,  
19 that goal there. Specifically they increased the -- we have 16  
20 -- I'm sorry, 15 new tsunami stations which are inland stations  
21 which are used for marine transportation. They fund that as  
22 well as -- they also -- for densification of the inland stations  
23 in the Gulf of Mexico. So there is some crosscutting and some  
24 benefit of -- and the program is being integrated like that.

25 MR. DUNNIGAN: Let me just comment on two things that were

1 a part of Steve's presentation. One is to note that in this  
2 concept of a matrixed approach to the agency. Steve, as he  
3 said, wears two hats. He's an office director for Coast Survey  
4 but he also at the NOAA level is a goal team lead for all of the  
5 commerce and transportation programs which may not be executed  
6 within NOS. A lot of what he is responsible for as a goal team  
7 lead gets executed elsewhere in NOAA, mainly in the National  
8 Weather Service. So -- but they're a part of commerce and  
9 transportation because of the way that they provide the  
10 information that moves America. And so it gives us an  
11 opportunity to tell that part of a comprehensive story of how  
12 NOAA supports commerce and transportation, you know, without  
13 having to just say this is what NOS does and let the National  
14 Weather Service people deal with what they have. So that's the  
15 whole idea behind this whole approach of matrix management and  
16 taking a very thematic view in our programming and planning at  
17 least of what it is that we're trying to do.

18 The second thing that I would point out to you, just to go  
19 back. Could we go back two slides? Yeah. Right now this is  
20 what Steve's working on for '09 and because of the decision that  
21 NOAA made in the guidance memorandum, the annual guidance  
22 memorandum, he is lining up his priorities for '09 to '13  
23 according to these bullets. You know, that -- I would say that  
24 looking at this slide his top priority as the goal team lead is  
25 to focus on navigation projects. And then positioning capacity

1 and then weather information, emergency response. Not that  
2 there's -- I don't know if -- you wouldn't say there's a  
3 priority to these or not, Steve.

4 UNIDENTIFIED MALE: (Indiscernible).

5 MR. DUNNIGAN: Yeah.

6 CAPTAIN BARNUM: There's not a priority to these.

7 MR. DUNNIGAN: But these are where he's going to focus his  
8 FY '09 programming decisions. And coming out of that will be  
9 direction next February to the budgeting for '09. So these are  
10 really very important and he and me to help him, we got to  
11 figure out ways of trying to make this story come alive as we  
12 try to do this. And then in the next slide I think you see, you  
13 know, the take that the goal has on where some of the longer  
14 term issues are. So this is very directional in a sense as to  
15 where NOAA sees that it needs to go. So these are -- from the  
16 standpoint of the commerce and transportation goal and what it's  
17 doing right now these are the two slides that are telling you  
18 what is on Steve's mind as the goal team lead. So, you know,  
19 and I know he would, you know, love to have your help in helping  
20 to sort through the opportunities and the priorities that are  
21 here.

22 MR. RAINEY: John. This is Scott Rainey. Could I just  
23 follow right in on that? And as we said as the panel, I mean I  
24 had a question as far as the slide you show where, you know,  
25 you're working on a number of budgets over there. One of them

1 is a process question about, you know, where can we engage with  
2 you or interact with you to, you know, help just as a process  
3 timing question, you know, in the PPBES project process. And  
4 then the other one is we talked a little bit in our meeting  
5 earlier about, you know, the substantive issues if there are --  
6 as you look at this list here are from the three program offices  
7 we primarily deal with up there, specific substantive issues  
8 that you could use input from the committee on if anybody had  
9 some ideas on that. But just -- you know, we learned at our  
10 last meeting it sounds like there's a little shift in how NOAA's  
11 going to do business about getting stakeholder's input. You  
12 talked earlier in the presentation about the -- what had been  
13 seeming to be a fairly structured annual stakeholder strategic  
14 planning thing, it sounded like it shifted a little bit where  
15 you could provide comments and things. So just knowing where --  
16 how we can set the panel up either on a schedule or to interact  
17 with you so we can have a, you know, effective -- provide some  
18 assistance in the process.

19 CAPTAIN BARNUM: Steve Barnum. Yes, certainly the input  
20 that the panel provides and the recommendations provides me  
21 support as I go and tell my story and providing support within  
22 making my case to NOAA leadership, making my case to Mary  
23 Glackin and Program Planning and Development, the AGM. I can  
24 say to my -- personally say how important this is but with the  
25 support or the recommendations from this panel provides the

1 background or the reference of why this stuff is important. As  
2 is also hearing from our constituency such as the Maritime  
3 Safety Navigation Coalition, so hearing from those folks.  
4 Hearing from the other constituents within the community talking  
5 about how important NOAA's services are. And I can then  
6 reference those as we move forward in making a case. So as far  
7 as interacting with the panel for the Marine Transportation  
8 System part of the portfolio I think it's very appropriate to  
9 weigh in on that. And certainly you could probably weigh in on  
10 the other issues to, how they fit into the larger picture. Yes,  
11 Bill.

12 MR. GRAY: Bill Gray. But -- okay, having this as more or  
13 less your work list, as Jack has said, for '09 planning and so  
14 forth, what do you do with these things? For example, complete  
15 nautical chart updates on the critical areas. Is that all going  
16 to be done within two years or 10 years or 20 years? How about  
17 ports, we've got ports at -- 10 or 12 ports around the country  
18 but 100 and some have been named. From a commercial point of  
19 view there's probably 50 or 60 of them where it's very  
20 important. When are we going to get those done, two years, 10  
21 years, 20 years? I mean what do you do with -- these are words  
22 and how can we help you do that. Or another one, Andrew  
23 mentioned this when we talked about after the Athos I, that he  
24 found in New York when they brought in after something had  
25 happened to see what do the Army engineers do, is that channel

1 as deep as they say it is and you found out no, there's stuff in  
2 it just like there was stuff in the Delaware River. How do you  
3 take those things and get them to we will do this in the next  
4 three years and this is how much money we need, now damn well  
5 give it to us?

6 CAPTAIN BARNUM: That's what I try and do without maybe --  
7 more diplomatically. But certainly it all goes -- again, we  
8 talked about the process and making the case and then, you know,  
9 certainly there -- we provide our 100 percent of where we want  
10 to be if we had all the money in the world, that's the planning  
11 part, what will we do. And then we have to come through the  
12 realities of the programming where we are giving a -- given a  
13 figure or top line and then we have to figure out within that  
14 constraint of funding what are we going to do and I have to look  
15 at the portfolio and look at where I'm going to put the emphasis  
16 within there. Certainly I made the case to -- in the program  
17 plan and looking at my portfolio am I going to -- taking the  
18 analogy of a mariner, am I going to go to sea with crappy  
19 weather and a good chart and then get my rear kicked out there  
20 with -- risking the ship or I'm going to have a -- you know,  
21 good weather and a crappy chart and potential of running  
22 aground. So these systems have to fit together and they have to  
23 work as a system. And so that's my message to these folks, you  
24 can't really cherry pick it, we need to put emphasis on the  
25 whole system. You can't put full emphasis on, oh just say water

1 levels and currents, you need the chart data and the surveys.  
2 You also need the spatial reference system that goes with that.  
3 So it has to be looked at as a complete system.

4 MR. RAINEY: Steve, is there -- I mean we talked about the  
5 system being a tool and, as Bill said, this is helpful kind of  
6 in the annual guidance memorandum, but is there -- does the  
7 system generate decision documents that has some specificity?  
8 In other words when you have to make hard choices between  
9 certain programs or different levels. We've talked a couple  
10 times about the 100 percent requirement, for example. Is that  
11 something, could we get to the specificity of that where would  
12 it be beneficial to have -- if we could be agile enough to  
13 respond, I mean would there be any value to you in us looking at  
14 a little bit more specifics and just giving our two cents worth  
15 on we think we agree or just a -- you know, on that level of  
16 detail? I mean I'm just wondering when it really -- when push  
17 comes to shove, and we looked at the -- you know, the future  
18 ain't what it used to be type of an idea, there's going to be  
19 tremendously difficult decisions that you'll have to make and  
20 prioritization and sub-optimization as you move forward. And I  
21 just don't know if we're getting any traction or if our  
22 recommendations that -- what we've been able to put forward are  
23 going to be specific enough beyond all this is important and we  
24 need to do it all. And I don't know if there's any way if this  
25 group could ever get to the level to help, you know, comment on

1 some of those really specific details or if that's just too far  
2 into the weeds as far as your perspective on how we could --  
3 would operate. Because I -- it just seems like -- I'm just kind  
4 of picking up on Bill's point and then a couple others on some  
5 specific issues and I don't know if there's a way that we can  
6 better focus our recommendations or be of anymore assistance in  
7 that process because I think it looks -- from a goal team and  
8 program, you know, view it's going to -- there's going to be a  
9 lot of hard choices in the future.

10 CAPTAIN BARNUM: I think getting down to the specifi -- to  
11 the weeds I think might be a much -- for this panel I think  
12 stand at a higher level in supporting the goal at a higher  
13 construct I think would be more constructive certainly for the  
14 process. The -- as I mentioned earlier, the programming and the  
15 particularly planning base all their decisions based on what  
16 they're hearing from the constituents. If they're not hearing  
17 from us where they hear -- then they -- you know, they -- the  
18 squeaky wheel gets the grease so to speak. I know that we --  
19 you've provided input in the past and the Marine Transportation  
20 System constituents have provided input in the past but there's  
21 some other constituents out there that NOAA has which have  
22 pretty strong voices out there too. You're talking about the  
23 weather community, you're talking the folks out there.  
24 Certainly with the ecosystems and the fish docks and -- some  
25 pretty loud voices out there and -- compared to what the Marine

1 Transportation System. The MTS is -- I participated in some of  
2 the CMTS meetings, is pretty quiet pretty much in the government  
3 compared to some of the other folks that speak up. I know that  
4 in the recent strategy for -- it was a workshop, Andy McGovern  
5 was there, that was the CMTS strategy session and -- Bill, were  
6 you there? Trying to think. No. They were talking about the  
7 -- basically is that we have an urgent need right now, it's got  
8 to happen now, we can't think 20 years from now. The  
9 infrastructure and the pieces that we have to put into effect to  
10 be able to address this potential doubling of trade have to be  
11 effected now, not five years from now.

12 MR. GRAY: Again, Steve, one of the things that happened,  
13 the whole commerce and transportation issue and safety of it  
14 with what we did with our port terminal safety study, that  
15 really got a kick going, it got the MTS going and so forth. But  
16 since 9/11 as far as I can see nobody's interested in that  
17 there, it's all security now and security is eclipsing  
18 everything else. And that's the way I view what the government  
19 is doing, I mean and the Coast Guard, everything else like that.  
20 And the things we talked about five, 10 years ago, they've  
21 totally lost traction.

22 CAPTAIN BARNUM: It's interesting you mention that and I  
23 will agree with that because in the Harbor Safety Committees it  
24 was all about the safety of transportation and then the pendulum  
25 swung to the other side of security. I think that the pendulum

1 is swinging back the other way, maybe a little bit more  
2 balanced. I can tell you that NOAA is in discussions with Navy  
3 and Coast Guard about repeating what we did in 2002, 2003 with  
4 the Homeland Security Surveys and potentially providing that  
5 service on a repetitive basis. In addition to such data not  
6 only for the security of our transportation system for having  
7 accurate data for charts, water levels, currents. In addition  
8 if something -- somebody put something bad in the water, again  
9 like the PORT system, they'd have a good idea where it went.  
10 Same thing if somebody put something in the air. So we are  
11 looking at that angle of working with the folks in DHS and Navy  
12 and Coast Guard.

13 MR. GRAY: Well, I know -- I guess it was the API meeting  
14 in June, I was not there for API but I've talked to a number of  
15 people that were there. And they said oh, right, people came,  
16 they talked about the wrong things. And the ones that I've  
17 talked to that were there say they really are not that  
18 interested in what happens after Katrina or something like that,  
19 that's really not got much to do with shipping. It's not got  
20 much to do with the Marine Transportation System in the context  
21 that we did with -- when you're talking about the Marine  
22 Transportation System. Now that may sound like anathema to you  
23 because I mean you've got to deal with what's going on in the  
24 aftermath of Katrina and other natural disasters like that and  
25 the problems Adam's got down in -- all true, but I mean it --

1 those things all have to be addressed together. But the point  
2 I'm making is the bad things that happen with poor data, marine  
3 data, in this nation have never gotten on the public's radar  
4 screen the way having a good hurricane could do for you. Let's  
5 be blunt about it. Just the same as even though pipelines spill  
6 six times as much oil as ships, unless it's the kind of pipeline  
7 problem that BP's got up on the North Slope, you don't hear  
8 about it everyday or anything like that. The public doesn't  
9 even know about these things except when you get something like  
10 Athos I and they say, oh, it's a damn single hull tanker again.  
11 Well, it was the government's fault. So I mean that's why I'm  
12 so rabid on these things, I just -- I say what can we do to say  
13 something that will really get people's attention. Thank you.

14 CAPTAIN BARNUM: Jon Dasler.

15 MR. DASLER: Well, maybe just to follow up on what Bill  
16 was saying. I mean we've been doing some charting in the  
17 Chesapeake for NOAA and, you know, there's a number of things  
18 that -- laying out there that are uncharted, barges, sailboat  
19 wrecks and actually an aircraft that ac -- when we did a search  
20 on it was reported by NTSB, it was an aircraft that went down in  
21 1989 that's laying in a shipping lane. So there is a lot of --  
22 and it doesn't get attention, I don't think the public knows  
23 that this kind of stuff is just lying in weight out there that's  
24 uncharted. But I did have a question back on the critical  
25 issues and what the issue is on the vessel removal. Can you

1 clarify that a little?

2 CAPTAIN BARNUM: (Indiscernible). That was working with  
3 Coast Guard, that was office response and restoration. That's  
4 working with -- after Katrina, Rita and moving all the vessels  
5 that were blown up into the marsh and hinterland. So that's  
6 what that was about, mitigating any potential chemicals or  
7 petroleum that was aboard, that was it. Yes. That's going to  
8 be ongoing I think for a long time, I think as Adam will  
9 testify. In the bigger picture, moving along here, mention --  
10 oh, I'm sorry. Andy.

11 CAPTAIN MCGOVERN: Andrew McGovern. Yeah, I guess I was  
12 kind of the same place Bill had -- said where we've got to get  
13 the word up, and I guess you said it, you know, at -- you know,  
14 there's a lot of other loud voices out there. I guess, you  
15 know, you've got all those goal teams and it seems like, you  
16 know, we've got to get our message through NOS and commerce  
17 before it even gets -- well, the classic example is the PORTS  
18 system. We were -- we had this committee up over a year before  
19 we finally found out that -- we thought that it was Congress  
20 that was killing the appropriation for PORTS and then found out  
21 it never made it out of either NOAA or Department of Commerce  
22 depending on the year. And so I guess that's the question I had  
23 was, yeah, who makes that critical decision between planning and  
24 program. I mean that's the -- let's face it, that's where the  
25 money is. I mean that's where, yeah, the plan is -- yeah, this

1 is, you know, what would you do if you had a million -- you  
2 know, if you had all the money in the world and then, okay, you  
3 don't so therefore this is what you're going to do. Who makes  
4 that decision because those are the people we have to get to,  
5 you know. Because I mean I look at this, I mean the typical  
6 government reactive thing, I mean everything on your critical  
7 issues is post Katrina, everything. And, you know, a lot of it  
8 has to do with Marine Transportation System and a lot of it  
9 doesn't but it's going under transportation. You know, like  
10 vessel removal. Well, that's -- removal in a channel is one  
11 thing, that's removal up in a -- you know, that's way up in a  
12 marsh. It's out of the way now. As Bill said, you know, it's  
13 like not my problem anymore. You know, it's another -- like  
14 who's paying for that, is that coming out of the  
15 transportation's -- you know, Marine Transportation's little  
16 budget or is it coming out of, you know, the.....

17 UNIDENTIFIED MALE: Ecosystem.

18 CAPTAIN MCGOVERN: .....the ecosystem. You know, this is  
19 what I mean. This is where -- but where should it come from.  
20 And this is I think some of the arguments we had. Even you talk  
21 about the height -- you know, getting height modernization.  
22 Well, some of that has to do with Marine Transportation System  
23 but a lot of it has to do with the housing and things like that.  
24 That's not Marine Transportation. So therefore how are we  
25 getting I guess, you know, down to that hard line because we

1 still haven't gotten PORTS and we -- I thought we've made about  
2 as much noise as we can on that. But we still haven't gotten  
3 that, in fact it got zeroed out -- instead of going up we're  
4 going down, you know, depending on whose budget you look at, you  
5 know. At the -- you know, if you look at the congressional -- I  
6 mean at the House mark, I mean we're going backwards. And  
7 that's when we went and we had this national -- this strategy  
8 session for the new CMTS, I mean it was right after the House  
9 mark and I went in there and said why are we even bother here  
10 because the House obviously feels that, you know, there is no  
11 Marine Transportation System or they're not going to fund it at  
12 least, so. I guess that's my big question is who is that person  
13 or persons that decides between planning and program, you know.  
14 And then you're going to have to deal with when they say -- you  
15 know, within your different line offices, all right, this is how  
16 much money I got, I have to now make my hard choices. But who  
17 makes that choice above that I guess is my big question and do  
18 we try to interact with them to fight for our piece of the pie.

19 MR. DUNNIGAN: Jack Dunnigan. Good question, Andy, and  
20 it's got a couple of answers. All right? Ultimately for NOAA  
21 the person who makes all these decisions is the Undersecretary,  
22 it's Vice Admiral Lautenbacher. And let me tell you, this guy  
23 goes down the hall to the blue carpet where the Secretary is and  
24 fights and overreaches and is willing to take his lumps in  
25 return because he believes in a lot of this stuff so much

1 himself. The more significant question I think is what do these  
2 people respond to. So OMB or the Department, you know, will  
3 come back and say, okay, this is your priority, pay for it  
4 someplace. And I have responsibilities to execute ecosystem  
5 programs as well as commerce and transportation. So, you know,  
6 it's hard for me to have to sit down and rob Peter to pay Paul.  
7 And in the long run for all of us I don't think that's the right  
8 game to play. Somehow we've got to make the pie bigger. And  
9 that's how we have to think about, you know, where are the  
10 people that can do that and at that point you're talking about  
11 really very high levels of government and you have to impact  
12 those people at every stage. You know, there are some people in  
13 our stakeholder community who had success walking into the OMB  
14 examiners and saying this is what -- this is our take on the  
15 problems that NOAA has to deal with, just want to make sure that  
16 you know it. I think that having -- you know, at a lower level  
17 what we're planning to do for Mary Glackin and Bonnie Moorehouse  
18 in Houston on the 22nd is a good thing because, you know, this  
19 will sort of make all of this come alive to them. And, you  
20 know, when they -- they're involved in setting these numbers.  
21 You know, they will be advising the Vice Admiral when Steve  
22 right after Labor Day is going to get a planning target, he'll  
23 be given a hard number for '09 and he will be told design me the  
24 best commerce and transportation program for '09 that you can  
25 within this limit. Well, of course you want that limit to be as

1 big as possible and it's always bigger than the Department wants  
2 it to be. So that's how they can move forward. It's important  
3 I think for you to understand what we've been talking about,  
4 that it's an ongoing cyclic process and it isn't something you  
5 can, you know, find the person or the entry point and be  
6 engaged, it requires -- you know, to be effective at it it  
7 really requires being engaged on a consistent basis.

8 MR. RAINEY: Jack, this -- Scott Rainey. Do you have to  
9 the extent you can show us any idea -- I mean what -- PPBES has  
10 been around a little bit and we've all been doing our part. Any  
11 thoughts on why there's a 46 percent cut in the House side on  
12 NOS? I mean that -- I mean other than the slide that you showed  
13 with the defense and other priorities. But -- I mean does that  
14 -- did that -- it seems a little bit of a shock with everything  
15 that's going on.

16 MR. DUNNIGAN: Well, it -- to be -- I got to be fair here.  
17 It's a 46 percent cut from the '06 enacted level. It's a 22  
18 percent cut from the President's budget. But that's on top of  
19 -- our '06 enacted level was 10 percent lower than our '05. So  
20 it's -- to me it's -- there's a cycle that's going on here. You  
21 know, I don't know, maybe -- and Admiral West who has, you know,  
22 been involved in this in a lot of detail or others who may have  
23 could comment on why the House did what it did. You know,  
24 traditionally there's been this little game between the House  
25 and Senate, the House lowballs a numbers, the Senate highballs a

1 number, we normally have ended up closer to the Senate number  
2 except in '06 we did -- in '06 we were a lot closer to the House  
3 number and it was a big hurt. You know, how it ended up, you  
4 know, coming out, it's just that the House had other priorities.  
5 You know, we're mixed in a budget on the House side that  
6 includes a lot of science agencies, includes NASA and NASA has a  
7 lot of support in the House and so they put their priorities  
8 there and not on NOAA. And it's.....

9 ADMIRAL WEST: Can I add something there?

10 MR. DUNNIGAN: Yeah, go ahead Dick.

11 ADMIRAL WEST: Yeah, you know, you're right, historically  
12 the House has always lowballed and the Senate's come back. But  
13 there's a big missing feature, it's called Senator Hollings. He  
14 let it be known that we would go the higher Senate mark, he's  
15 gone away. We don't have that champion anymore. You saw the  
16 results of that last year. And if there's no pain -- still  
17 there?

18 MR. DUNNIGAN: Yeah. The technician has asked me to  
19 announce if we can maybe -- do we have cell phones? Either turn  
20 them off or at least get them away from the mics. And I think  
21 that might be also true for people on the phone. That's one of  
22 the things that tends to interfere with the process, so if we  
23 can get our cell phones well away from our microphones it'll  
24 help. Go ahead, Dick.

25 ADMIRAL WEST: Yeah, I'm sorry where I cut out there. But

1 in any case, we didn't have the support last year and if you  
2 don't show some pain it's going to get continually worse and  
3 that's what drove us to the front with NOAA. Just as a follow  
4 on to that, we had a (indiscernible) membership on Friday. What  
5 you want to do is get to the comparees and outline the  
6 importance of NOAA and from our perspective you all talked about  
7 the importance of, you know, the transportation part of it. So  
8 get a hold of your congressman and, you know, senators and let  
9 them know that NOAA's important so when they come back this fall  
10 and they get into conference or actually quite better if we  
11 (indiscernible) that we make out better than we did last year.  
12 That's kind of where we're going with the strategy right now.

13 MR. DUNNIGAN: Yeah, thank you. And the other thing is,  
14 you know, people like Senator Hollings or Senator Brow (ph) and  
15 even people like Senator Stevens who's involved now, we've had  
16 some champions in the House of Representatives in the past. You  
17 know, they don't just happen, they need to be cultivated over  
18 time and you have to continue to work with them. So one of the  
19 strategic things that we need to be thinking about, and by we I  
20 mean a big community and, you know, people that are helping to  
21 organize that like Admiral West, you know, need to be looking  
22 at, well, where's the future leadership of the House going to  
23 be. You know, they turn over every six years. Frank Wolf is  
24 leaving his position as Chairman of the subcommittee that  
25 handles our budget, he's a big NASA supporter. And, you know,

1 who's next in line, you know, what can we do to be cultivating  
2 that person and the person behind them. That's how you have  
3 strong relationships, by staying in here and playing for the  
4 long term. And if you could criticize NOAA for anything and the  
5 NOAA community for anything it's that we haven't come at it with  
6 this sense of, you know, having a solid set of NOAA goals and  
7 programs, you know, can float all boats in the long term. You  
8 know, it's been, you know, different parts of our community  
9 coming in and trying to get their piece of the budget and it's  
10 just -- it's been too fractionated. So that's one of the things  
11 that's going to be coming I think out of this programming and  
12 planning process. There's a big emphasis on thinking about NOAA  
13 and that's what the Friends of NOAA did, they came in not with,  
14 you know, well, we need, you know, more money in Marine  
15 Transportation, we need more money in Fisheries Management, they  
16 said you got to fight for a big NOAA. And I support the  
17 President's budget.

18 MR. DASLER: Yeah, Jon Dasler. I think also NOAA could  
19 help itself a little bit, especially HSD if they really -- I  
20 think CO-OPs does a great job, like this pamphlet that came out  
21 in promoting their products and services and -- one thing I  
22 think that would be very interesting to see is what's the number  
23 of wrecks and obstructions that have been discovered like in the  
24 last '06, if that kind of information -- because I think people  
25 would be pretty awestruck at the number of features that are

1 being uncovered every year and added to the charts. And I think  
2 that would help move things a lot along that avenue in gaining  
3 recognition for those programs and funding and try to turn the  
4 tables a little bit.

5           CAPTAIN BARNUM: Any other comments before I move on? All  
6 right. In the bigger picture, C & T and the Ocean Action Plan,  
7 I talked about that theme of tying the purpose, why does  
8 commerce and transportation exist because -- I can point to the  
9 President's Ocean Action Plan and within that the committee on  
10 the Marine Transportation System which suddenly now involves the  
11 President and the Commerce Secretary, why is commerce and  
12 transportation important to the Secretary. My boss always says  
13 in public what interests my boss fascinates me. So -- but the  
14 -- from Admiral Lautenbacher's perspective to the Commerce  
15 Secretary. So there's certainly a large chain of folks that --  
16 being able to tell our story and why we're relevant.

17           Certainly coordinate ocean and coastal mapping activities,  
18 John mentioned that earlier on being able to collect data. Our  
19 goal within NOAA, certainly is my goal with commerce and  
20 transportation, is map once, use many times. It's -- NOAA has a  
21 lot of mapping activities within it and in HSD it's all  
22 coordinated through one central point. The same cannot be said  
23 for some of the other mapping interests that occur across NOAA  
24 but we're working to try and coordinate that. And finally  
25 ultimately to improve navigation, give the data to the mariner,

1 the critical information they need to move commerce safely.

2 Next slide please. So, again the committee on  
3 transportation, we've talked about that, we'll move on. Next  
4 slide. Within the ocean government structure this aquabox was  
5 stood up to oversee the Ocean Action Plan. I won't go into any  
6 detail on this, this slide here, unless somebody has any  
7 questions. Next slide please. Future challenges.

8 MR. DUNNIGAN: Can I.....

9 CAPTAIN BARNUM: Yes.

10 MR. DUNNIGAN: If you go back to that slide. This is  
11 pretty significant. You know, this is the one thing that came  
12 out of the Ocean Action Plan that is really oriented towards how  
13 we coordinate and make decisions above the NOAA level. Where  
14 we're talking here about all of the agencies and you have a  
15 cabinet level committee that's been meeting twice a year. We've  
16 never had that for the oceans really before. You have the  
17 integrated committee on ocean science. The box is yellow in the  
18 slide. Actually in the Ocean Action Plan it was aqua and so we  
19 called this the aqua box because trying to say ICOSARMI was so  
20 inelegant. But this is the Admiral Lautenbacher level of  
21 collaboration and they meet on a quarterly basis and you can see  
22 who all of the various groups are. The real work that gets done  
23 in this system is at those two lower levels, the JSOST and  
24 SIMOR. What's interesting is that NOAA is the only agency  
25 that's a co-chair on both sides. And so I think it emphasizes

1 how critical these things are for NOAA. Rick Spinrad is the  
2 NOAA lead for the Joint Subcommittee on Ocean Science and  
3 Technology. And Mary Glackin, whom we've talked about and will  
4 be going down to Houston on the 22nd, is the NOAA lead for the  
5 Subcommittee on Integrated Management of Ocean Resources. So --  
6 and these groups are meeting monthly and SIMOR has an action  
7 plan for moving forward. So there is a lot and it's -- I think  
8 it's more than just, you know, spinning wheels that's going on  
9 to try to focus on interagency collaborations. Hopefully what  
10 will come out of this I think is a sense of priority at a  
11 broader government level so that if these groups can agree that  
12 something like the Marine Transportation System is a priority  
13 thing to do all of a sudden you have an opportunity to get  
14 traction at OMB or get, you know, the whole administrative --  
15 the administration apparatus working behind a budget on the  
16 Hill. So I think this coordinated ocean government structure is  
17 still sort of playing itself out to see how effective it's going  
18 to be but it's something that we want to keep our eyes on as an  
19 opportunity to make sure that the priorities are well  
20 understood.

21 CAPTAIN BARNUM: Okay, thank you. Finally, just wrapping  
22 up, future challenges. My number one -- I have three here, the  
23 rebuilding of Gulf, preparing for future hazards, but the number  
24 one really is this gorilla in the middle of the room, this is  
25 the doubling of trade over the next 20 years and how is NOAA

1 going to be postured to work with the other agencies to make  
2 sure that we have the critical data there for the  
3 infrastructure, to support the infrastructure of moving this  
4 doubling of trade and getting the ships in, getting them  
5 unloaded and getting them back out. So -- yes.

6 MR. GRAY: Steve, who chairs the CMTS?

7 CAPTAIN BARNUM: That -- currently it is Secretary of  
8 Transportation.

9 MR. GRAY: Secretary of Transportation.

10 CAPTAIN BARNUM: Yes.

11 MR. GRAY: And for NOAA, Admiral Lautenbacher goes to.....

12 CAPTAIN BARNUM: For -- no, it's Secretary Gutierrez.

13 MR. GRAY: Oh, Se -- okay.

14 CAPTAIN BARNUM: The -- it's the Secretary level.

15 MR. GRAY: Okay.

16 CAPTAIN BARNUM: So -- and then below that Admiral  
17 Lautenbacher is representative for the Coordinating Board and I  
18 want to say -- not General Strock but the Corps of Engineers is  
19 chairing that Coordinating Board. And of course Helen is the  
20 Executive Secretary that supports that Coordinating Board.

21 MR. GRAY: Right.

22 CAPTAIN BARNUM: Any questions?

23 MR. OSWALD: The -- in the planning process what figure do  
24 you use for growth rate, using like a two percent or three  
25 percent? You must have a standard figure. For 2009, 2013, so.

1           CAPTAIN BARNUM: That's a good question. That's some of  
2 the profile that the numbers that I'm given to work with. We  
3 try to look at at least -- not rooting for inflation. So that  
4 profile is given to us by programming, Bonnie Moorehouse, when  
5 we're given our line.

6           MR. OSWALD: And then -- well, okay.

7           MR. RAINEY: Yeah, a little more. For out years we're  
8 assuming current year dollars. So the growth profile is only  
9 significant in the first year that you're planning for. So  
10 he'll be given a ceiling for fiscal '09 and he'll be expected to  
11 crank into that ceiling a certain inflation or whatever rate.  
12 But then '10, '11, '12 and '13 will be calculated on that same  
13 basis, that becomes his current program. To be honest with you  
14 the government doesn't do this very well. We're consistently  
15 budgeting, for example, a two percent salary increase and we  
16 know that we always get a three and a half or -- percent or so  
17 salary increase. So we're consistently falling behind and under  
18 budgeting. And this isn't just NOAA, this isn't just the  
19 Department of Commerce, it happens all over the government.  
20 It's a part of why trying to do this stuff in the government is  
21 often quite unrealistic.

22           MR. OSWALD: And then a -- somewhat of a follow up is this  
23 -- for instance maybe take 2002 budget, like in the National  
24 Geodetic Survey for instance, we went through this process of  
25 PPBES but potentially their budget could be twice -- almost

1 twice what the budget -- what the President recommended, you  
2 know, the administration recommended. So sort of how do -- I  
3 know there's -- I've heard different figures, \$600 million NOAA  
4 over all this. How do you deal with that in this PPBES  
5 reprogramming of additional funds that are coming from the --  
6 basically from Congress?

7 MR. DUNNIGAN: Well, if Congress gives us money that we  
8 didn't ask for then we're later in the budget process so that's  
9 when the line offices have to make decisions about how best to  
10 move forward. And we're limited by what Congress told us to use  
11 the money for and we're limited by what our program plan said we  
12 wanted to do in that year. So as soon as we get the money for  
13 fiscal '07 we at the line office now wearing that hat rather  
14 than a planning hat will have to go back and say what was in the  
15 '07 program plan because these were NOAA's priorities for this  
16 year and how might those have changed since we made those  
17 decisions. You know, we did that budget -- or that program plan  
18 long before hurricanes Katrina and Rita hit, long before the  
19 Calcasieu River oil spill, you know, all of these things. So,  
20 you know, we have to allow for some change. But that's really  
21 where that happens. When the line offices are given the money  
22 after the budget is done is when you have to sort of make those  
23 decisions about how you're going to deploy those resources.

24 MR. RAINEY: Jack, can I just ask a quick follow up on  
25 John's? Maybe this is a different way of asking the same thing.

1 But are the other -- is the sense in NOAA as they look across  
2 the other -- the goals, are there equally as compelling  
3 requirements? I mean if you look -- commerce and  
4 transportation, we're talking about the doubling and tripling of  
5 the need or the requirements and the stress on that particular  
6 goal system. Are there equally compelling -- as compelling  
7 increases in requirements as NOAA sees it across those other  
8 goals? In other words are -- is there an ability in the system  
9 not to just move up sort of incrementally from where everybody's  
10 kind of pegged now but to take a look at the changing needs or  
11 requirements across these goals that the nation's facing and,  
12 you know, consider that in the process as well? I mean because  
13 I think that we've got some pretty hard number requirements, you  
14 know, so we can make a pretty compelling story and I'm just  
15 wondering how that's sort of evaluated across the board of  
16 NOAA's programs.

17 MR. DUNNIGAN: I think -- I personally think that the  
18 arguments that are made across the board in NOAA are very  
19 compelling. And, you know, in this context I want to make sure  
20 that Marine Transportation and commerce and transportation is  
21 getting its due. But as a matter of fact from my days with the  
22 ecosystem goal team I can tell you that the nature of the  
23 problems that they're dealing with both on providing science and  
24 making and applying management policy to issues that people care  
25 about are critical. I mean what's the biggest thing that the

1 President of the United States has done for NOAA programs in the  
2 last 10 years? The Marine National Monument in the northwest  
3 Hawaiian Islands. And President Bush personally made those  
4 decisions within 24 hours before the announcement. I mean it  
5 was astounding to me to see that level of engagement from the  
6 President of the United States. Very compelling arguments there  
7 can be made. And if you think about, you know, weather  
8 preparedness, you know, what we're finding about storms is a big  
9 deal. I mean last week Vice Admiral Lautenbacher announced that  
10 they'd done a revision on the probability of hurricanes this  
11 year and, you know -- and we reduced the likelihood of having an  
12 abnormal year from 80 percent to 75 percent. We still have a 75  
13 percent chance of having, you know, above normal storms this  
14 year. So, you know, that's a part of the NOAA portfolio. I  
15 mean over my career -- that's why I've loved working in this  
16 business and for this agency because what we do across the board  
17 is so critical really to what the people want. Now -- so I mean  
18 I'll fight hard for NOAA, I'll bet you there's somebody in  
19 agriculture that'll do the same thing and somebody in education  
20 and energy that can also do the same things. But, you know, we  
21 -- there are tough challenges, people are going to make some  
22 tough decisions and I got to make sure that our priorities are  
23 there.

24 MR. DASLER: Jack, how much -- under the Hydrographic  
25 Services Improvement Act of 2002, I mean they pretty much laid

1 out some guidelines for authorization of appropriations and it  
2 seems like that should be the bare minimum. I mean they set  
3 some pretty specific numbers for '07 and that that should at  
4 least be the minimum used for planning and budgeting. Can't  
5 that be used in the argument for appropriation of funds, that,  
6 you know, the Hydrographic Services Improvement Act has kind of  
7 set some guidelines for funding? They get pretty specific  
8 under, what is it, Section 306 for the authorization of  
9 appropriations. And I mean right now budgets are under what's  
10 under the Hydrographic Services Improvement Act.

11 MR. DUNNIGAN: First of all, I don't think that  
12 authorization levels contained in bills -- I got to be very  
13 careful how I say this. They're not the most significant part  
14 of determining where our budget ought to be. Sometimes an  
15 appropriations committee will come back to an authorizing  
16 committee, say the commerce approps committee will come back to  
17 the committee on commerce and say, well, we're not going to give  
18 you that money because you don't have an authorization for it or  
19 you're asking for a lot more than is in the authorization. But  
20 that's a part of the negotiating game that goes on back and  
21 forth. What's important about the HSIA is not so much what's in  
22 that last section about authorizations. As it is what's there  
23 in the purposes and policies and the missions that we are  
24 required to do. So that when Steve sits down and writes his 100  
25 percent requirement for the programs that are a part of the goal

1 he'll go back to the sections of the law that say NOAA must do  
2 this, NOAA must do that and cost it out. And he'll end up doing  
3 that I think in a more realistic evaluation of what he thinks  
4 his needs are rather than starting with authorization levels  
5 that are in a bill. Actually the administration's view, and  
6 this has been consistent for republicans and democrats and  
7 conservatives and liberals, is that bills like the HSIA should  
8 not have specific authorization limits in them at all, they  
9 should just say -- you know, they should authorize such sums as  
10 may be necessary to be appropriated. The House and the Senate  
11 sometimes like to include big numbers in there to try to make it  
12 sound like they really want something big to happen. But in an  
13 operational sense I don't think they end up becoming that  
14 significant. I think that was a politically correct way to say  
15 that.

16 DR. LAPINE: This is Lou Lapine. Can you hear me?  
17 Doesn't sound like it. You know, Congress puts things in the  
18 NOAA budget because they think those things are important and  
19 it's their constituents who tell the Congressmen what's  
20 important. You're worried about how to grow the NOAA budget.  
21 Why don't you let Congress help you grow it and once those add  
22 ons slash earmarks are appropriated why don't they become part  
23 of your planning process the following year. Instead of say,  
24 well, thank you Congress and we'll do your little business for  
25 you but yet it doesn't show up in the following year NOAA slash

1 presidential budget. I mean the Vice Admiral is a very powerful  
2 man but his authority is set by commerce. Commerce has a fixed  
3 amount that they're allowed to ask for. Here Congress is trying  
4 to help NOAA build their budget. And being the benefactor of  
5 one very small part of that I can tell you it is doing a  
6 tremendous good in South Carolina. Now why PORTS constituents  
7 can't get money added to the Congressional budget is beyond me.  
8 It's so important but no Congressmen are willing to step to the  
9 plate and add money for their ports. And that's something I  
10 think we can work on. But if you want to grow your budget let  
11 Congress help you grow your budget. It doesn't seem like that  
12 ever happens.

13 MR. DUNNIGAN: One of the things that we do consistently,  
14 and the program managers and the goal team leads are being asked  
15 this all the time, is what can you do to incorporate earmarks  
16 within your current program. But they're not given the money to  
17 do it. So their choice is to drop something out of their  
18 program that they believe is essential in order to pick up  
19 earmarks because the ultimate budget is always much more than  
20 the President is willing to ask for. As I said, the President  
21 has told the federal agencies to plan for negative growth of two  
22 percent per year for the next 10 years because of all these  
23 other priorities that were in that early slide that we put up.  
24 So it becomes very difficult for a program manager or goal team  
25 lead to say, well, yeah, I want to pick up that height mod

1 earmark, I want to pick up that PORTS earmark, because to do  
2 that he's got to drop something and what position does he find  
3 himself in for dropping. The other part that makes that even  
4 more difficult is that the minute a goal team lead comes forward  
5 and says I want that height mod earmark, I'm willing to pick it  
6 up and I'm willing to lose piece Y. Well, what's likely to  
7 happen is piece Y will get taken away and he won't get the  
8 earmark. So it's a very touchy part of the game to play and  
9 that's why -- I mean there are a lot of -- I'm a big fan of  
10 CELP, Conservation Estuarine Land Program. It's a \$60 million  
11 earmark in some years, I think last year it was \$35 million,  
12 where we go out and we buy land, you know, build it and they  
13 will come. And I'd love to see more of that earmark get picked  
14 up within the NOAA budget but I'm not sure that I'd want to, you  
15 know, put up \$60 million worth of cuts in order to do that. And  
16 it's a zero sum game and that's the problem, that's why that's  
17 so hard.

18 MR. DASLER: I would think that -- and I don't know if  
19 this is done, but are the earmarks, do they actually fund the  
20 programs? I mean I see that as another detriment to NOAA is  
21 you're starting to pick on so many -- pick up so many pet  
22 projects and earmarks and is the funding that you're getting to  
23 support these earmarks cutting into operational funds. I mean I  
24 -- it seems to me that that is tending to happen. And I don't  
25 know, like the vessel removal program, that seems like that

1 should be a Coast Guard function and is the funding that comes  
2 for that, does that pay for the level of effort that goes into  
3 that, is that looked at or are you cutting into operational  
4 funds?

5 CAPTAIN BARNUM: The vessel removal, that -- we're not  
6 doing the vessel removal, we're just working with them on  
7 mitigating the -- from Office of Response and Restoration, the  
8 fuel oils and the other chemicals that may be aboard that. So  
9 we're not doing the removal, we're just working with them to  
10 provide our expertise in that area. But as -- I don't know if  
11 you want to talk about earmarks. But the earmarks often, when  
12 we're assigned an earmark it gets weighed -- it gets rolled into  
13 the top line so it actually ends up being a cut to the agency.  
14 So we may have a \$3.9 million top line we've asked for but if  
15 there's earmarks tossed in there then something's given up, zero  
16 sum gain as Jack talked about. And so that money has to be made  
17 up somewhere else to fund those, so. Yes.

18 UNIDENTIFIED MALE: That's why we have to grow the pie.

19 MR. GRAY: Bill Gray again. Jack about 10 or 15 minutes  
20 ago mentioned something that I think is very important to this  
21 overall issue. And that is in commerce and transportation or  
22 the Marine Transportation System we have no champions at all in  
23 Congress right now. Fifteen years ago John Brow (ph) and Billy  
24 Tausin and people like that from Louisiana knew something about  
25 it because they were involved with the industry and so forth and

1 people would come and speak to the Congress about them and speak  
2 to the public about it. In this whole business there are many,  
3 many things going on in the Marine Transportation System now  
4 that are just terrible, the criminality of sea fares, all this  
5 stuff, because the industry itself isn't known and doesn't come  
6 out and speak up where the public can see it and where the  
7 elected people can see it, the senators and the representatives.  
8 And the -- in my experience, I mean Coast Guard does a good job,  
9 NOAA does a good job, Army Engineers I guess, I don't know, I  
10 mean they're very hard to deal, we -- they're hard to locate  
11 actually, they get a hell of a lot of money but they don't  
12 cooperate with anybody. But the component -- and MARAD really  
13 doesn't do very much at all. The thing that is needed is for  
14 the Marine Transportation System to be recognized and known by  
15 the public in a positive way and known for what it does for the  
16 good of the citizens of this country and so forth. And that's  
17 really what's missing in the bigger sense. To make a quantum  
18 jump in the amount of money that is devoted to making the Marine  
19 Transportation System work more safely and more environmentally  
20 acceptively. And how we get there I don't know. I mean the --  
21 I will tell you most ship owners will always duck if a  
22 microphone is thrown in front of them and they hope that they  
23 won't be the next one to the -- whatever it is, the Athos I or  
24 the Cougar Ace or something like that. And that's -- it's a  
25 problem. I mean NOAA is very, very competent in what they do

1 and they've done marvelous things to figure how to use  
2 technology better to -- but we haven't got any champions in the  
3 Congress.

4 MR. DUNNIGAN: And I think there's -- let me tell me you a  
5 really great story. One of the impressive things about Safe  
6 Seas last week was that the company that owned the barge that  
7 got hit that was leaking the oil was actually a real company,  
8 Harley Marine operating in cal -- along the whole California  
9 coast, headquartered in Alameda. And this company made I  
10 thought a fairly bold and brave commitment to put their name out  
11 there and actually play as a part of this exercise. And they  
12 did it because they're committed to doing their job the right  
13 way. And they brought tremendous expertise to the table so that  
14 we could learn how these things would play out. We didn't have  
15 to invent, you know, a responsible party for this story. Now,  
16 you know, that -- Harley ought to get recognized for that, in  
17 the industry, in the community at large, you know, ought to find  
18 a way to say, you know, that here you have a very clearly, you  
19 know, responsible company that wants to learn to do things the  
20 right way and collaborate with the incident command system in  
21 order to make this stuff work. And I'm picking on that because  
22 that story's fresh in my mind. I'm sure that there are stories  
23 from across the industry that we could do and we could maybe  
24 partner to try to get those out there and sort of elevate the  
25 profile. Because I think you make a good point. You know, a

1 lot of shippers are afraid that they're going to be the next  
2 Exxon Valdez and so they do run away from microphones. In this  
3 case you had a company that was willing to stand up and be a  
4 part of the system and play the game and understand and be very  
5 responsible and those are the kinds of stories that we have to  
6 learn about and figure out a way to tell.

7 CAPTAIN MCGOVERN: Two things. Andrew McGovern. Yeah,  
8 well, the main reason why most of the shippers want to stay away  
9 is because the only press you ever see about the Marine  
10 Transportation System is negative, you never see any positive  
11 for us. Number two, like Jack is saying, you know, we've got to  
12 grow the whole pie and I agree with that but the reason why I  
13 think the different constituent groups go in and just ask for  
14 their piece of the pie to grow is because, well, you love NOAA  
15 and the fact that it is so diverse, that's one of its problems  
16 is that the Marine Transportation community does not want to go  
17 in and ask for NOAA's -- you know, the big -- the pie to grow to  
18 find out that all the growth goes to ecosystems let's say. Or,  
19 you know, the -- I mean this is the big, you know, thing.  
20 They're so -- I hate to say the word conflicts, but there are  
21 different -- there are conflicts between those line offices I  
22 guess or between the constituents of those different line  
23 offices and where they -- you know, what people think are  
24 important and they don't want to go in there and lobby real hard  
25 to get NOAA's -- the big pie to grow to find out that their

1 piece stays the same size or gets smaller. So I guess that's :  
2 one of the issues I think is -- that's why they go in and say  
3 this is my piece, this is what I'm fighting for and let the  
4 ecosystem people fight for their, you know.....

5 UNIDENTIFIED MALE: I understand.

6 CAPTAIN MCGOVERN: So this is -- that's one of the  
7 problems for doing that. I don't know if, you know, some of the  
8 other Departments are more, you know -- they're more -- I guess  
9 more focused so therefore people can go in and, you know, grow  
10 that but it's -- they know they're going to get a part of that  
11 where with NOAA you don't know that and that's the big fear.  
12 And that's -- you know, being from the Marine Transportation  
13 System side the industry feels that they have been historically  
14 shortchanged by NOAA, you know, in the budget part, that it's  
15 the scientists that get -- you know, NOAA is run by scientists  
16 and the science stuff -- you know, the neat stuff gets the money  
17 and the -- you know, the practical stuff doesn't necessarily get  
18 the money. That's the perception out there just to let you  
19 know, I mean that's -- you know. I mean, you know, when all the  
20 directors have doctor in front of them people are like, you  
21 know, that's where the money's going to go. You know, they're  
22 going to put a -- you know, and I mean a classic was our tide  
23 gauge broke at Bergen Point in New York and we were told there's  
24 no money to fix it. This was years ago, probably 10 years ago.  
25 But there was no money to fix that tide gauge in the NOAA

1 budget. Okay. Maybe next year. But then I'm talking to the  
2 head of that maintenance program, this guy Brad Wynn, and he had  
3 just had his fourth trip to Antarctica to install a tide gauge.  
4 And I'm like, well, okay, we can't put a tide gauge in New York  
5 but we can put one in Antarctica. Where's the -- you know. And  
6 there is -- I'm sure way back there is -- you know, there's a  
7 reason for that but, you know, the one in New York was fairly  
8 important too, so -- but there was no money for that. So that's  
9 where -- you know, that's where the -- I guess the Marine  
10 Transportation people feel and that's why maybe they're afraid  
11 to go and say let's grow NOAA's big pie because they don't feel  
12 like they're going to get any of it.

13 MR. RAINEY: All right. Well, thanks for the discussion.  
14 I think what I'd like to do -- Admiral, I don't know if you can  
15 -- what your time availability is but I would suggest maybe we  
16 take a break and then we resume here in just a few minutes on  
17 the -- some initial discussions about the special report and how  
18 we can -- you know, the progress we've taken so far and how we  
19 can keep working on that to kind of focus our message, picking  
20 up some of our recommendations since we've been in place and  
21 getting it pulled together and something that we can all get  
22 behind and kind of try to make our voice heard on some of these  
23 issues and, just as we've been discussing this morning, you  
24 know, there's certainly some challenges for these programs ahead  
25 and I think that this will be an effective way for us to kind of

1 get our views, you know, introduced into the dialogue. So why  
2 don't we go ahead and take a -- we're running a little bit out  
3 of time, can we try -- shoot for the, you know, five minutes or  
4 10 on the outside and then we'll go ahead and bring Ann in and  
5 talk about that? Okay, thanks.

6 (Off record at 10:24 a.m.)

7 (On record at 10:45 a.m.)

8 MR. RAINEY: Let me introduce -- Ann is working to help  
9 support us on this idea of the special report and it's been some  
10 work getting a draft here and it -- just -- let me just turn it  
11 over here to Ann without tying it up too much and we can kind of  
12 go through sort of the parameters, what we're working with and  
13 just kind of introduce it to you and start the process. So,  
14 Ann, if you could.

15 MS. BOESE: Sure. Hello. My name is Ann Boese and my  
16 company, Laughing Gull, provides editorial and publishing  
17 support to the Special Projects Office at NOS through RSIS, it's  
18 -- I'm a contract worker. I have been working with Scott and  
19 Barbara and some others at NOAA on this publication which will  
20 also include a complimenting brochure when we're finished called  
21 Critical Connections. And the group asked me to attend the  
22 meeting. Our hope is that we can get some feedback, some  
23 comment and actually if the time permits us to do so I'd like to  
24 come back with some concrete information by chapter as to what  
25 the panel thinks needs to be included, perhaps what the panel

1 thinks to be deleted. Since there wasn't really a specific time  
2 segment set aside for this I put together -- and you should each  
3 have three sheets before you, I put together basically a punch  
4 list of things that we would ideally like to get through. And  
5 it does look like a lot but we'll do the best that we can. I --  
6 just to briefly go over that format. This morning I'd like to  
7 just go through some -- a brief discussion, general comments,  
8 consensus hopefully that everybody thinks this is the right  
9 direction, the right way to go, and I'd like to talk a little  
10 bit about some of the reasons that we laid it out in the way  
11 that we did. And then hopefully we can go through chapter by  
12 chapter and some chapters are obviously I think going to be of  
13 more interest or require more discussion than others. And then  
14 I am going to use a sheet -- I gave you one so you can see how  
15 I'm organizing my thinking. It says punch list form chapters so  
16 that I come away with hopefully this is what the panel does want  
17 to do in this chapter, this is what the panel doesn't  
18 necessarily want to do, these are the HSRP recommendations that  
19 we will include, and then any other suggestions. And we have  
20 Art that we are working with but we're not actually at that  
21 stage. This is a work in progress. The other sheet is the  
22 punch list form for vision which is, as you can see, two pages  
23 that needs to be panel generated so we may move that up in the  
24 schedule.

25 So I guess I could just start by talking a little bit

1 about the document that you have, the draft, Critical  
2 Connections, Recommendations for NOAA's Contributions to the  
3 U.S. Marine Transportation System. Basically the 24 page  
4 document is -- has been organized in a way that will be useful  
5 to the readers. The reader that we're keeping in mind as we're  
6 doing this is a person perhaps on the Hill who needs to know  
7 about what NOAA does, what the Marine Transportation System is  
8 and HSRP's recommendation as to how the Marine Transportation  
9 System and NOAA are going to move ahead in the next century. So  
10 without -- with the limited amount of space, which in a way is a  
11 good thing, what we're trying to do is to produce a document  
12 that can be easily navigated by a person who doesn't necessarily  
13 know a lot about the Marine Transportation System or what  
14 hydrographic services are. We want something that is accurate  
15 and detailed but we want something that, for instance if we move  
16 ahead to the chapters we have -- and these chapters all really  
17 actually need to be re-titled, it is -- we are rough. But each  
18 chapter talks about an area of NOAA responsibility, pulls out  
19 information pertaining to NOAA's role that matches up with the  
20 types of things that HSRP has made recommendations on and so a  
21 person who's reading it can say, oh, this is -- let's say for  
22 instance emergency response, opening paragraph, oh, I realize  
23 that NOAA responded to say something that they know, a  
24 newsworthy item, Hurricane Katrina, something that puts it into  
25 kind of a practical application realm where NOAA emergency

1 response actually means something to them in terms of something  
2 that they might be familiar with or definitely would be familiar  
3 with. And then they can go over to -- the way it's set up  
4 graphically, to what the HSRP recommends. Hopefully when they  
5 get those three pieces of information they'll want to go back  
6 and read through the entire piece. Which is relatively short  
7 and we are going to work on the copy until it reads well,  
8 hopefully reads easily and we are going -- this is not a color  
9 copy but we have highlighted things that need to be highlighted  
10 in a different color which happens to be brown. I know that the  
11 panel had wanted something that was easy to navigate, I know  
12 that the panel had wanted something that had a lot of artwork.  
13 We're at the stage now where we're filling out all the  
14 foundation pieces in terms of copy and content and then we'll  
15 trim it back and add as much artwork as we can, still keeping  
16 the message intact for each section.

17 So basically that's it in a nutshell. And I think at this  
18 point, Scott, did you want to just take general comments and  
19 questions?

20 MR. RAINEY: I guess -- thanks, Ann. That's a great kind  
21 of overview and just -- not at all to back it up from there, but  
22 I -- this is an attempt I think to sort of capture, you know,  
23 our best work. And the things that we were talking about this  
24 morning, to me I think this is a vehicle where we can, you know,  
25 put our views out there in a coherent way that, you know, our

1 task is to advise NOAA Administrator. Hopefully it'll resonate  
2 with all the things that we know that they're trying to do and  
3 support these programs and present the information in a way that  
4 NOAA can have this document and use it as they see fit in the  
5 broader context of putting their agenda before the Committee on  
6 Marine Transportation System, for example, we talked about and  
7 all of these different entities that are involved at the high  
8 levels of deciding and prioritizing. So in my mind the idea is  
9 to, you know, kind of take the HSRP's best hits and, you know,  
10 put our best foot forward in a succinct and coherent way. And I  
11 very much appreciate NOAA leadership's support of this to help  
12 us, you know, be able to pull this together.

13         So that's sort of the genesis and the idea behind doing  
14 this and I think the timing is appropriate with the  
15 authorization, with the HSIA being reauthorized here shortly and  
16 a NOAA organic act on the horizon and all of these things that  
17 are moving out. I think it would be great for us to try to  
18 focus on this document and have something -- put a -- kind of  
19 put a marker in the water as all this ramps up. So I received a  
20 few initial e-mails back from the panel in response and it  
21 sounds like at least from the initial feedback everybody is --  
22 or a lot of people think that, you know, we may be on to  
23 something here we're doing. And I think this will help focus  
24 our efforts a little bit. We've always had a little bit of  
25 problem where we have a great dialogue and some good exchange

1 and then as we leave the meeting it's like, okay, next step or  
2 now what. But if we can use this as a vehicle to kind of, you  
3 know, focus our work and put it into this I think we can pull  
4 from recommendations we've already made. And then there's --  
5 you know, there's some presentations in this meeting and  
6 certainly opportunity for public input and things. We may have  
7 things yet that we need to fill in or areas that, you know, we  
8 come up with some new recommendations as well.

9         So what you have in front of you I think is an excellent  
10 start and I truly believe in this project. And I -- you know,  
11 like I said, I've been involved, it's kind of come together here  
12 with the timing from getting things going from our last meeting  
13 and also it -- sort of adjusting time delivery if you will of  
14 the draft. But I've tried to put in and working with Ann and  
15 also, you know, Barbara and Ashley Chappell and NOAA staff and  
16 others to try to get in at least some placeholders here so you  
17 can kind of start to see the scope and the idea behind the  
18 document with floating in some of our recommendations. But I  
19 think initially the best way to attack this is just try to --  
20 let's kind of look at the overall document and kind of look at  
21 the big picture, if -- you know, if we think this is a good way  
22 to go forward and maybe try to identify some major themes that  
23 we want to hit in these different breakdowns and try to capture  
24 sort of the framework if you will and then we can keep going and  
25 refining that as we go. But -- Bill.

1           MR. GRAY: Thanks, Scott. I was very positively impressed  
2 with this and I think it's a very good start at what could be a  
3 very, very useful document. But I have one sort of overriding  
4 criticism and that is it's totally too rosy. It describes a  
5 very smoothly functioning, very desirable, everything is working  
6 well system. And I'm just curious whether as the document  
7 progresses we can weave in some of the here are the terrible  
8 things that are not being done that could be done that would  
9 improve the Marine Transportation System, commerce and  
10 transportation. And for example, things like we put in the Port  
11 Terminal Safety Study 11 years ago, our government has created a  
12 number of trust funds. There's a highway trust fund, there's an  
13 aviation trust fund, there's a harbor maintenance trust fund,  
14 there's oil spill liability trust fund. And I know trust funds  
15 aren't barrels of money and so forth like that, but the fact of  
16 the matter is if you're flying planes or you're running trucks  
17 or something else like that all the money that's collected from  
18 us taxpayers, most of it goes back to that mode of  
19 transportation. In our system, Marine Transportation, the  
20 harbor maintenance trust fund, oil spill liability trust fund, a  
21 very small amount ever flows back to improve marine safety. And  
22 that's way above -- all facets of Marine Transportation are  
23 adversely affected by that. I've also put down, and I sent to  
24 you, Scott, I think Helen Brohl now for her new role with the  
25 MTS asked for what do we think, me and INTERTANKO and some other

1 people like that, what are the three or four biggest problems  
2 that we want solved with it. I think some of those types of  
3 things should be considered to be put into this same document.  
4 Three months ago when Jack was good enough to sit and listen to  
5 us and when he first met us in Dick West's office I made a one  
6 pager which was saying here are some things that I think are  
7 problems that are not NOAA's -- basically not of NOAA's making  
8 but they are disgraceful in the overall sense of here are these  
9 problems hanging out there and we haven't got anybody's  
10 attention yet. Now we spent the last half hour or so of the  
11 earlier part of the session this morning talking about these  
12 things, we don't have champions in the Congress, other things  
13 like that. But I think in this document somehow I would like to  
14 see the flavor of these other things get in there so it really  
15 says why is it important that people who might be able to do  
16 something for the Marine Transportation System to take note of  
17 these things and weave them into an overall set of priorities or  
18 something like that. And so that's my basic phil -- other than  
19 that, I mean lots of specific little things and we'll all go  
20 through those I'm sure and so forth and I'll try and fill out  
21 the forms that you want, Ann, and so forth like that. But  
22 that's sort of my overriding comment, that let's get this in  
23 perspective. We -- man, this place -- this whole activity has  
24 been shortchanged to a fair thee well and we want to correct  
25 that.

1 MR. RAINEY: Bill, I hope -- I agree with what you're  
2 saying and part of this exercise will be with the space that  
3 we're going to have to really take a couple cuts through and  
4 tighten it up. But one of the vehicles that I'm hoping the  
5 panel will agree and support has been this idea or notion of a  
6 HSRP most wanted improvements list and I'm hoping and my view of  
7 this is that that will sort of be our opportunity I think to  
8 really -- I'm hoping that this document will distinguish itself  
9 in that we can get it to the next stage where instead of citing  
10 the obvious or just sort of parroting back, you know, all of  
11 these studies and we've all participated in all this stuff.  
12 That we can really cut to the chase on some of these things,  
13 talk about NOAA's accomplishments but also acknowledge that  
14 there's tremendous unmet needs and requirements and then cap it  
15 with this most wanted list because to me that's the thing that  
16 can be that punch list or that action item and I'm hoping, you  
17 know, the panel will, you know, resonate with that vision.  
18 Captain.

19 CAPTAIN MYRTIDIS: (Indiscernible - away from microphone).

20 THE REPORTER: Microphone please.

21 CAPTAIN MYRTIDIS: Better?

22 THE REPORTER: Yes.

23 CAPTAIN MYRTIDIS: Just want to remark what I would like  
24 to see us doing is set a deadline for the delivery -- I mean  
25 completion and delivery of this report. If we are not careful

1 we can go with this forever and ever and ever and we know new  
2 things are going to come about throughout our meetings then we  
3 make another report. I really would like us to agree on a  
4 deadline and we say, I don't know, in a month or two or three or  
5 six, whatever is that this is going to be done and we deliver.

6 MR. RAINEY: Yes, thanks for that and let me just jump  
7 right to that. We've absolutely thought about and discussed  
8 about it. I met with Mr. Dunnigan recently and we also checked  
9 on what we talked about as the very likely situation where we'll  
10 have a continuing resolution and -- just to make sure our  
11 contract and carry through and we checked into that. And so --  
12 and I've had some discussions and -- with NOAA about, you know,  
13 the production, you know, timeline and schedule. So we'll  
14 definitely leave here with that, you know, kind of hammered out.  
15 And what I'm hoping is -- we're kind of all seeing this, it's  
16 all late breaking news, but to go through it, kind of agree on  
17 the main sections and then I -- to my mind, and there's certain  
18 individuals with some particular expertise or emphasis and  
19 experience in some of these areas that I'm hoping and thinking  
20 that certain panel members may have, you know, interest and  
21 ability to really focus in on maybe some of the details and just  
22 confirm with us. And I'll just throw one out there and I  
23 haven't talked -- had a chance to really talk to anybody about  
24 it. But in our last meeting Jack talked about his initiative  
25 and vision within NOS about resilient communities and going to

1 the notion that you want to frame things in language of things  
2 that are -- and go forward. I know Tom's had a great deal of  
3 experience in, you know, coastal zone management and their  
4 different resilient communities so for us to kind of all get  
5 together about, okay, how do these programs, hydrographic  
6 services, bridge over into this new initiative on resilient  
7 communities and, you know, drawing on some of our expertise in  
8 making some of these bridges and making them relevant and timely  
9 and pertinent to what -- you know, some of the things that are  
10 moving, so just as one example. And in the education and  
11 outreach, Admiral West worked obviously at Corps and the Friends  
12 of NOAA and all that. I mean we've got some special expertise  
13 across all these different channels and I'm hoping everybody  
14 will, you know, in the first instance think that this is a good  
15 idea and then look for ways where they can, you know, really  
16 tighten us up with, you know, the advantage of that expertise  
17 and involvement, what you're doing. So -- but we definitely are  
18 going to try to, you know, outline a specific production  
19 schedule and then we -- and I've talked about some ideas about,  
20 you know, how many iterations we can handle here. We want to  
21 try to pull this together and then the -- some initial talk  
22 about trying to have then a -- ever a smaller group for kind of  
23 a final editorial review and I have a couple folks of mine I'd  
24 like to help with that, so. Anyway, there's -- those are  
25 definitely, we've got to get the mechanics of this because it

1 can certainly draw out or get out of hand. But I think  
2 initially we're looking at trying to have something that's --  
3 that we've got out produced on the street before -- I think we  
4 were saying it would be good if we could do it before the  
5 convening of the next Congress because that's -- you know, we  
6 advise the NOAA Administrator but it'd sure be nice if he had  
7 this from us and could then use as he saw fit, you know, when  
8 the next Congress convenes and all of these things I just spoke  
9 about happen. So I think that's a very rough gauge of what  
10 we're looking for and we've got to back it out with, you know,  
11 Ann's contract particulars, GPO and just kind of walk it  
12 backwards from when we want to have it on the street.

13 ADMIRAL WEST: Scott, can I ask a question?

14 MR. RAINEY: Yes.

15 ADMIRAL WEST: Is this document meant to live on or is  
16 this a one time report or is this something we update  
17 periodically or what's your intention?

18 MR. RAINEY: Admiral, my hope would be is that it would  
19 have some shelf life, that I think some of the issues that we  
20 would focus on have been kicked around for awhile and I think  
21 we've made some -- we've had some good deliberations in -- you  
22 know, in our New Hampshire meeting and others where we've talked  
23 about some things that have been in the public arena. But -- so  
24 I would hope that it would not be a -- I would hope it would  
25 have some shelf life and be able to carry forward but with the

1 expectation that, especially I guess with regard to if we move  
2 forward on the most wanted list that that would certainly be  
3 something I would think that the -- there would be a periodic  
4 review and update of, you know, depending on evolving national  
5 needs and the available resources and things that were brought  
6 to bear. So I guess the idea is to put something out that's  
7 more than just, you know, the results of one particular meeting  
8 or something where I've gone up in the past and briefed the Vice  
9 Admiral about kind of our current round of recommendations, try  
10 to pull it together in a strategic way that this would have some  
11 ongoing, you know, usefulness to guide some things but that it  
12 would hopefully be reviewed periodically. I don't see this --  
13 if you're asking, I think we've come off the idea that this  
14 would not be -- this is bigger than sort of an -- something we'd  
15 expect to have an annual report, this would be used over --  
16 we're calling it a special report and that's what we're  
17 proposing now. But it would hopefully have some shelf life and  
18 then something that could be periodically reviewed.

19 ADMIRAL WEST: Well, let me go on with a concern that --  
20 about that it's too good. We asked in Houston where the post-  
21 action report was on Katrina. FEMA thought that there were some  
22 good stories that the NOAA hydro services provided. I don't  
23 know whatever happened to that report but I think you'll find  
24 that in the '07 budget a lot of those things that did a good job  
25 down in the Gulf Coast are being cut.

1 MR. RAINEY: Okay, Admiral. And so the -- I'm not sure  
2 I'm following what you're suggesting or what -- just to put that  
3 in the -- as one of the pieces of information in this is.....

4 ADMIRAL WEST: We got a problem, this thing keeps cutting  
5 out. I'm getting about every third word or so here, so. No,  
6 I'm not saying that this report should do it but if we want to  
7 report some influence on the budget cycle, which I think we do,  
8 if it's not this document, of course the timing's not exactly  
9 right. But we asked for the post Katrina report last -- in  
10 Houston and I think some of us thought they did a good job but  
11 you look at the '07 budget and a lot of that was cut. So you  
12 got to make some comments on that somehow I think.

13 MR. RAINEY: Okay. I think that's a good point. I mean I  
14 don't have too many specific details other than what you stated,  
15 other than to just restate it back. I mean we didn't -- there  
16 was an offline conversation after that that I talked to a person  
17 that was involved I think as a co-chair in working on the report  
18 but I didn't -- you know, I know that -- I think it's -- I don't  
19 even know actually if it's been completed yet. But I'm hoping  
20 this document I guess would be more in line with a -- sort of a  
21 strategic prioritization. So to the extent it would discuss  
22 that, Admiral, you're right, I -- in my vision anyway this would  
23 be a -- more of a policy statement, an endorsement from us to  
24 say, look, these -- this response capability, and just in my  
25 words, you know, it's a unique capability within the federal

1 government. As I pointed out in Houston, it's not recognized in  
2 the national response plans, only the -- some of the NOAA  
3 scientific and weather support stuff is, none of the hydro  
4 services are even recognized as an essential support function in  
5 the national response plans. They do it every time there's an  
6 incident and, you know, these -- so my view of that section  
7 would be more on the -- you know, the criticality of it, the  
8 uniqueness of it, the need to have a greater capacity. We used  
9 half of the nation's capacity for these -- for that function  
10 down there, and that we got to try to do some cost accounting  
11 and recovery so that we don't pull away from the day to day  
12 mission. I think maybe to try to comment specifically we could  
13 do a -- use a different tool or vehicle to make some comments  
14 specifically about what we learned in the -- you know, the post  
15 Katrina debrief and then maybe make some specific suggestions,  
16 we could pass those along separately. But I -- my.....

17 ADMIRAL WEST: (Indiscernible). Like last year, if nobody  
18 feels the pain of the NOAA cut they'll keep being cut. So I  
19 think it's our responsibility if we recognize something that's  
20 important to the nation. And particularly however it responds  
21 to Katrina, that it's being cut year, we (indiscernible).

22 MR. RAINEY: Okay.

23 MR. DASLER: Scott, maybe something like that could be  
24 addressed in another section that's added about concerns and  
25 recommendations or something towards the end. Just, you know,

1 like what we see happening in the figure and what's happening  
2 now and concerns and maybe just adding a section like that  
3 that.....

4 MR. RAINEY: Sure.

5 MR. DASLER: .....could address those kinds of issues.

6 MR. RAINEY: Yeah. Okay. Yeah, Elaine.

7 MS. DICKINSON: Elaine Dickinson. I think this is a great  
8 first start and I'd be happy to work with you all on tweaking it  
9 to get it to where we want. I -- my only problem is that  
10 recreational boating is practically invisible in all of this  
11 copy. Every fact and figure that is given is about cargo and  
12 shipping and tonnage and all that great stuff and 78 million  
13 Americans who go boating apparently don't have much visibility.  
14 So I have all kinds of statistics or things that we could use if  
15 we could incorporate them in here. And even -- I've got tons of  
16 boating pictures too. So when we get to that point -- I mean I  
17 would really like to get more of a presence in there. I only  
18 saw one mention of recreational boating, so.

19 MR. DASLER: Yeah, Jon Dasler. Again, if I -- I'd second  
20 that, I think it's an excellent first cut, it really makes me  
21 feel like we're accomplishing something and getting it down and  
22 putting it on paper. I think the general outline is good, I  
23 think it needs -- there's some word smithing, I took my copy and  
24 have a lot of comments and things and I think some of the  
25 preamble is a little bit off the mark. And I don't know how

1 much in this we want to go through but we could go through some  
2 of those comments and things. I think I -- all due respect to  
3 Admiral West, but I think I'd get rid of the Navy patrol boat on  
4 the front page and -- and possibly add the graphic that's on the  
5 back panel over there, the ship coming down the channel. And to  
6 meet Bill Gray's concerns is maybe move that wreck into the  
7 channel. But, anyway, there's a number of things that -- again,  
8 that I've highlighted and I don't know if -- at this -- now we  
9 want to go through some of those, but -- or we can just provide  
10 feedback and go through it. But I think it's an excellent first  
11 cut.

12 MS. BOESE: Can I add something? Am I -- can you hear me?  
13 Just so everyone knows, this is the time to add blocks like  
14 recreational boating. So just so that you have an idea of how  
15 this document has come together, I was given a manuscript and  
16 the list of HSRP recommendations and I have in a short period  
17 tried to match up the recommendations with some portion of the  
18 manuscript in a way that makes sense in terms of what NOAA does  
19 and the Marine Transportation System. So this -- what we're  
20 looking for I think today and tomorrow are if something is not  
21 in there that should be let's just say it could go -- you know,  
22 recreational boating and then it can go in. Because this has  
23 really been a -- taking a block from here, a block from there,  
24 we're not even near the overall polishing point. Although it  
25 would be -- you know, any -- as we go through chapters, you

1 know, a word here, a word there is probably going to change from  
2 this point on but an idea or obviously missing information. And  
3 I can see, and this is of course up to the panel, but the idea  
4 of -- that Admiral West was discussing could be incorporated  
5 into the chapter on emergency response. By the same token Mr.  
6 Gray's comments, of course, you know, it's -- for me it's kind  
7 of difficult to work backward from a recommendation to a copy  
8 and matching it up and if the reasons for these recommendations  
9 are not in this copy we just need to -- you just need to bring  
10 it up and put it in. Because it's coming together kind of in a  
11 slow way and now we're at the point of interface where, yes,  
12 that is a good idea, that is what the base copy should reflect,  
13 the reasons for the HSRP recommendations. So that's great  
14 information and the more specific that we can make that in terms  
15 of this foundation block's not here, this isn't here would be  
16 really great.

17 CAPTAIN MYRTIDIS: And if you're looking for artwork I  
18 have some beautiful pictures of beautiful white cruise liners.  
19 But they carry millions of passengers in the U.S. coastal  
20 waters. I'm going to be more than happy to share with you.

21 MS. BOESE: Well, I think anybody who -- that sounds  
22 wonderful, maybe I need to take the shots myself. I think that  
23 any artwork could be sent to -- to be e-mailed or sent to Scott  
24 and or Barbara and then they will send it to me and we'll --  
25 when we get to that stage put it -- start, you know, placing

1 them in the right spots. But definitely send artwork.

2 UNIDENTIFIED MALE: (Indiscernible - away from  
3 microphone).

4 MS. BOESE: Huh?

5 UNIDENTIFIED MALE: (Indiscernible - away from  
6 microphone).

7 MS. BOESE: Okay.

8 MR. RAINEY: Has -- I mean on that note has -- have you  
9 had some time or could we talk about, you know, looking at the  
10 sections as they're proposed now? And again, not word smithing  
11 the little subtitles or whatever but the idea of the -- sort of  
12 the major breakouts is -- as we've got it. The idea of the  
13 connections, I think the major theme as I see it is is that the  
14 programs that we're fighting for here or advising NOAA on, in my  
15 mind they support Marine Transportation clearly and everybody  
16 gets that, commerce and transportation, all that. And so, you  
17 know, we talk about that and lead with that but there are also  
18 critical connections to an awful lot of everything else that  
19 NOAA is doing and bigger than NOAA even. You know, the entire  
20 nation, I make the arrogant comment in there, I've taken a shot  
21 at trying to put some things in there. But in my mind, you  
22 know, arguably the MTS system is maybe perhaps, you know, if not  
23 the but one of the biggest or most critical pieces of national  
24 infrastructure we have I mean when you look at everything that  
25 is, you know, impacted by it. And so to try to make -- the

1 overriding theme I think is is that this -- these programs  
2 aren't just, you know, the right side of the decimal on NOAA's  
3 budget and that's all we should care about them. I mean these  
4 things, they truly do crosscut a tremendous amount of national  
5 priorities and we can't forget that and we need to try to get --  
6 that's at least one of the main things I'm trying to make here  
7 is that these programs support, you know, not just, you know,  
8 commerce and transportation, as if that wasn't enough. But, you  
9 know, it truly, these are framework data for a tremendous amount  
10 of things we're trying to do. And so that's kind of one of the  
11 themes in there. And so as we, you know, look at the layout of  
12 the chapters and, you know, talking about, you know, opening it  
13 up sort of with the role of the navigation services and talking  
14 about that, sort of the way it's -- you know, the importance of  
15 it quickly but not to spend too much time on that and then, you  
16 know, how these programs interact. One of the -- you know, one  
17 of the -- just to cite back to a couple of the few reports that  
18 are out there and what's giving -- you know, what's in motion  
19 now that the -- the MTS is coming out, that report back in 1999  
20 and now the new CMTS coming up so tying into some of that work.  
21 You know, just to cite in that report that, you know, the number  
22 one need identified by the stakeholders there was, you know, the  
23 accurate and timely arrival of hydrographic information, that's  
24 right out of page 84 of that report back in '99. The HSRP  
25 bottom line that these are -- these services are recognized as a

1 priority and among the best public investment, so those kind of  
2 themes. Then the next chapter goes and talks specifically kind  
3 of about some of these programs that support -- that we're  
4 talking about, a little bit of description about what they do  
5 and the services that they provide. And then, again, as Ann  
6 said, to try to explain here's the little background but here  
7 are the action items or the recommendations from the HSRP  
8 separated out and highlighted down there. And again, we can go  
9 back and take a look and see if we picked up our most important  
10 ones and the cardinal ordering of them, et cetera.

11 I thought that it would be a good idea to talk  
12 particularly about emergency response because that's an area  
13 where these programs I think are critically important. Just  
14 what Admiral West said, and I -- you know, I misunderstood what  
15 he was asking me there. I'm not in disagreement, I think that  
16 we should have a comment that says look how incredibly important  
17 this is and, you know, then turns around in the next cycle and  
18 this stuff's not recognized, it's cut. But to talk about -- you  
19 know, what we heard in Houston and what we know is that, you  
20 know, if you don't get these things back up and running in 48  
21 hours you have major consequences and that these -- all of these  
22 programs play a unique and critical role in emergency response  
23 and they need to be recognized. And, again, the idea on the --  
24 again, sort of just keep broadening it out as we go. Talking  
25 about, you know, how these crosscut into resilient communities

1 and -- so that's sort of the flow and then the importance of  
2 education and outreach. And the thought I have there was sort  
3 of expressed here earlier this morning again and that is that,  
4 you know, we need to -- in my mind need to broaden that out to  
5 not just the people who are directly involved in the Marine  
6 Transportation System, kind of preaching to the choir, but take  
7 it out again to what I would call the MTS beneficiaries, you  
8 know, the public, but also your shippers and your manufacturers  
9 and folks that, you know, depend on the MTS every single day but  
10 aren't really directly involved in the operation of it and  
11 trying to expand the education and outreach and build the bigger  
12 Friends of NOAA kind of community. And that would even include  
13 I would think trying to find ways to look at -- you know, again  
14 building on what they're already doing with the other federal  
15 partners, NOAA, Navy and, you know, all of the other folks that,  
16 again, are still using the same products and services. So --  
17 and talk about, you know, research and development and  
18 expediting moving from -- you know, from the research into  
19 applied technologies and implementing that. And then a last --  
20 kind of a next steps or a vision chapter to kind of cap it off  
21 and saying that, you know, looking at the challenges that we  
22 have and areas to -- of, you know, particular concern to the  
23 panel and focusing back and then hoping that all of that would  
24 tie back into and feed back into the HSRP most wanted list.

25 So that was kind of my thinking on how it would hold

1 together and what I'd maybe wonder now is if people see a  
2 chapter that isn't there that should be or one -- you know, vice  
3 versa. If the main kind of the blueprint for the document, if  
4 it makes sense to everybody and -- you know, in the major  
5 pieces, if we've got the framing set up, if it makes sense,  
6 maybe was a first step. Dave.

7 MR. ZILKOSKI: Yeah, Dave Zilkoski. I guess I got a  
8 question about the report itself. Are you -- the group planning  
9 to do more reports? Because, as you may know, and you'll hear  
10 more about, geodesy is more than just part of MTS. There's a  
11 lot different aspects of it that aren't covered in here. I  
12 think this report is good for what it's trying to focus on  
13 although I think that the supporting resilient coastal  
14 communities needs some work which was indicated that there was a  
15 lot of blanks there so we can talk about them. I think Tom  
16 would have some great insights into that as well as -- that fits  
17 into some of geodesy with their height modernization program.  
18 But there's a mot more to geodesy than just the Marine  
19 Transportation System. So is the -- and it is part of the  
20 Hydrographic Service Review Panel's responsibility. So are you  
21 planning on doing something where you might say critical  
22 connections, recommendations for NOAA's contribution to geodesy?

23 MR. RAINEY: No. But I didn't come up with the -- one of  
24 the things I would like to do, and I talked to Ann about it, and  
25 again this is just the nature of the draft. I'd like us to not

1 -- my suggestion down the road whenever it's appropriate to the  
2 panel would be that we don't say that this is just only about  
3 the MTS. The point I'm -- the whole point I'm trying to make  
4 with this is that we're all about hydrographic services and  
5 everybody gets it that it supports the MTS. And certainly  
6 that's a place where we want to have traction and it's the most  
7 clear application of things. But I am hoping that without  
8 diluting the impact of what we have to say about how it helps  
9 MTS that we have and we set this out as a bigger tent kind of  
10 idea and that we're structuring it so, you know, you state the  
11 obvious, yes, we need navigation support, we got to get -- you  
12 know, ships can't keep running into stuff in the channels. But  
13 my view and my hope on this is that it's broad enough and we're  
14 pulling in, and that's why I was -- I'm really -- I know you're  
15 going to talk to us about some geodesy things. I'd like us to  
16 do in this -- not that there won't be further reports or this  
17 wouldn't be further refined and, you know, the emphasis change  
18 over time. But I'm hoping this will be big enough to cover our  
19 entire footprint and not just -- you know, just all of a sudden,  
20 you know, just have a narrow bandwidth on strictly MTS. And  
21 that's part of what I'm asking right now from the panel is do  
22 you agree with that scope. I'm not trying to dilute the MTS  
23 thing but I'd like to see it talk about -- because to me I think  
24 what we've heard over the years is how interdependent these  
25 things are. And as much as -- hard as we're pushing on, you

1 know, reducing the critical survey backlog if you don't have  
2 money in the mapping and charting division to do something with  
3 that data it's just -- you know, we're just out there -- you  
4 know, we -- you know, you've got to balance the delivery and the  
5 production of these services across the line. So I'm hoping  
6 that you'll be in agreement and we can do it in a way that  
7 doesn't, you know, dilute what we have to say that hits on the  
8 priorities for NGS, for CO-OPS, for Coast Survey, and ties it  
9 together to try to -- the message I'd like to show people is  
10 critical connections, all this stuff is connected across the  
11 thing so we don't have to get in the zero sum game or maybe we  
12 -- this is our argument to the zero sum game when they sit down  
13 and say, well, you know, we got a 46 percent cut here, you know,  
14 but we can't cut these hydro services because they are important  
15 completely across the board and we need this bathymetry or we  
16 need this height mod or Vdatum in ecosystem management, not  
17 just, you know, commerce and transportation. So that's, again,  
18 just my thinking. But that's where we got to kind.....

19 MS. BOESE: You know, that.....

20 MR. RAINEY: .....scope it right.

21 MS. BOESE: .....if I can ask you, that's actually -- in  
22 terms of all the things that I've heard that to me would -- if  
23 that is the direction that the panel would like to go that is a  
24 -- that's a different -- it's a different focus but it's one  
25 that could be done. Critical connections and the importance of

1 hydrographic services and information in -- more than just the  
2 MTS and we could restructure the chapters to reflect that.  
3 Because right now we have an MTS lens.

4 MR. RAINEY: It certainly leads that way and to me it  
5 makes sense to lead it that way and what I was hoping is that we  
6 could -- and frankly just in the -- I think it's fair to say the  
7 front end of this got more editing, there were more drafts on  
8 the front couple chapters. And so as you go through here, you  
9 know, we haven't had as much discussion or thought process going  
10 into that. But, you know, we have a limited space and that's  
11 sort of -- these are kind of the threshold things to get this  
12 thing to where the panel thinks we can make the most impact with  
13 it. But I don't see it as the only report ever but it's not  
14 something that we'll probably be able to do, you know, on an  
15 annual basis. And my thought process was that we could try to,  
16 you know, hit all the high points across the board, but.

17 CAPTAIN ARMSTRONG: Andy Armstrong. It seems like the  
18 questions to ask is who is the audience for this and then the  
19 audience would determine whether it's going to be an MTS  
20 document or a critical connections contributions to, you know,  
21 the American way of life or something like that. You know, if  
22 we want the audience to be the cabinet level MTS group then we  
23 should focus on MTS group. If we want to put this out in the  
24 discovery centers around the country and generate sort of grass  
25 root support then it ought to have a different title because --

1 you know, if this comes to my house and -- you know, and I see  
2 the Marine Transportation System I'm going to yawn and toss it  
3 in the recycling. On the other hand if I'm on the Marine  
4 Transportation System cabinet board then I'm going to pay  
5 attention to it and sort of it's a -- I think it's a fundamental  
6 issue of who is the audience for this report and is one report  
7 going to be our major push or are we going to publish a series,  
8 MTS safe environment, you know, storm response and so on.

9 MR. RAINEY: Well -- okay, I mean that's exactly right  
10 that -- and maybe that's a proper question. I don't know -- we  
11 have support to do a report and the -- sort of the flippant  
12 answer, I mean obviously we -- the audience for us technically  
13 is obviously we're working to advise the NOAA Administrator. I  
14 think quickly though we realize our obvious hope is is that we  
15 have something of value to say that he can then use, NOAA will  
16 be interested in using to support, you know, their program at  
17 these different agendas. The CMTS is standing up, the HSIA is  
18 up for reauthorization, you know, so there are several -- you  
19 know, a number of things that I think this could be timely and  
20 used for, you know, by NOAA. What -- I mean there's a question  
21 or a suggestion in that question and let me just put it out to  
22 the panel. I mean I kind of -- I think I've sort of thrown out  
23 there my vision for this but I -- again, we don't know whether  
24 NOAA could support us doing a multiple series and all that but  
25 does the panel -- is it your sense that we would be more

1 effective to focus this, you know, primarily if not exclusively  
2 on the MTS with the hope that we could then do subsequent -- you  
3 know, have as you say a series, you know, on some of the other  
4 issues, do you think that would fire for effect better than to  
5 try to cover it in one document. Andrew.

6 CAPTAIN MCGOVERN: Well, I-- I'm in agreement with Andy, I  
7 think you have to -- you either have to decide to do one general  
8 document or a series of documents, you just can't have this --  
9 you can't do the MTS and then walk away I don't think if you're  
10 just going to focus on the MTS. I guess my question would be to  
11 Jack is as far as for NOAA figuring that this is going to be a  
12 -- some -- you know, is going to be a handout material  
13 eventually where do you see the best bang for buck here, is it  
14 better to do a general report on hydrographic services across  
15 the board, you know, how they affect, you know, yeah, the  
16 general American way of life or is it better to focus  
17 individually and pick those people -- you know, maybe that's why  
18 it goes to different subcom -- you know, goes to the MTS and  
19 then it goes to here and -- I don't know. I mean I guess you're  
20 more the expert on this than anyone else here I would think and  
21 maybe Admiral West would be another one that would probably be  
22 the most attune to that.

23 ADMIRAL WEST: Well, it's hard to get a report like this  
24 out anyway, as you're already finding out. What I would suggest  
25 is you could put everything you need in one report and we can

1 pull the excerpts out we need and use them anywhere anytime for  
2 whatever cause and that's probably the best thing. As reported  
3 in the HSRP, da, da, da, da, da, the following, et cetera.  
4 Because if you try to get a whole bunch of reports out I think  
5 we'll be probably unsuccessful.

6 MR. DUNNIGAN: Yeah, I would agree. And what I thought  
7 was good about this report was that, you know, it was focused on  
8 trying to make in a very user friendly way the work that you've  
9 been doing for the last couple of years more out there. You're  
10 going to continue to do work and as you do and as you look at  
11 things and as you come up with more recommendations another  
12 report will be a useful thing to have as well. But I think  
13 Admiral West is right in terms of, you know, having a product  
14 that can serve a number of purposes and you can pull out pieces  
15 that you need to pull out but it's something that consolidates a  
16 lot of stuff together in a way that's very attractive and very  
17 engaging.

18 MR. RAINEY: This is Scott again. The one thing I'm  
19 hoping, and maybe it's obvious now, but I'm hoping that, you  
20 know, as much as we try to cover that we delve down into  
21 specifics and that we don't want to recite the seven societal  
22 goals that IOOS is going to solve and then stop there. I don't  
23 want this to kind of be brochure wear, I want this to be here's  
24 -- just what -- going back to what Bill Gray said, that's  
25 exactly what I want. I want this to say, man, this stuff is

1 important and we've got some serious unmet need here and here's  
2 our thoughts on it, here's our recommendations. These are  
3 things that the Admiral can look at and say, okay. You know, I  
4 mean I want to put it -- I want us to take it to the level that  
5 however broad a brush we try to go with this thing and that's  
6 where, you know, I fully understand and want to admit up front,  
7 you know, the resilient community thing isn't there yet, I mean  
8 we just didn't get to it in the draft. But in each section that  
9 we talked about I'd like us to have specific recommendations  
10 that can be acted upon or at least, you know, used as a  
11 measuring stick or a goal that can maybe inform these 100  
12 percent requirements we're hearing about in the PPBES or  
13 something. I mean I don't want it to just simply say, you know,  
14 we need to put more attention on this and we need to do all  
15 things and all that. I mean to try to really distill it down  
16 into -- I mean I'd rather say nothing than just to go blah,  
17 blah, blah, you know. I really want this to be something that  
18 when we take it up -- you know, up the chain it has some ideas  
19 that can be acted upon.

20 CAPTAIN MYRTIDIS: Scott, I -- I'm sorry. You sure?  
21 Okay. I personally like the idea of one report and I like your  
22 initial thinking of having the critical connections, how they  
23 reflect on the Marine Transportation System. I think in my  
24 opinion this is how it should be presented, so.

25 MR. DASLER: I think -- this is Jon Dasler. To second I

1 guess on what Myrtidis is saying. I think a lot of the other  
2 things like the emergency response and some of the other things,  
3 I think that's been part of our frustration, a lot of those  
4 already get a lot of political exposure. I think some of the  
5 things the panel, in my view and I guess other panel members  
6 speak up on this also, is the frustration that the basic Marine  
7 Transportation System and NOAA's key role in that and sort of  
8 their tenant of operations is usually overlooked and here's an  
9 opportunity to really kind of highlight that and put the stress  
10 on that. And I think it's a good idea to incorporate everything  
11 but I think now is the opportunity to really express our  
12 frustrations how that seems to be overlooked a lot. And we can  
13 build more into this and kind of highlight, you know, some of  
14 the concerns that Bill has expressed and we've talked about  
15 through a number of our sessions, just trying to get that in  
16 focus. And, like I said, I think a lot of the other ones, they  
17 already get a lot of political support and even though we --  
18 mentioning some of those things in here but the stress on the  
19 MTS would be important.

20 MS. BOESE: I think what I'm hearing is that the panel  
21 wants the document to make the case for moving ahead with the  
22 recommendations and whatever is involved in doing that. And I  
23 think the one thing that is lacking from my perspective is the  
24 kind of sort of hard specific examples that are going to make  
25 this of interest to someone. At this point, and this is just

1 the nature working with big chunks of copy and editorial, but if  
2 you were -- if we were sitting down in a room and talking about,  
3 okay, why is this particular thing inter -- of important we  
4 would probably have some examples of things that had happened,  
5 like Mr. Gray was saying, and those are the things that I think  
6 would be really good to get here today and tomorrow so that then  
7 we can put them in and a person can come away from this and say,  
8 wow, this is how this actually plays out in the real world  
9 because that's really where it matters. And if we can maybe  
10 start pulling in that direction and get some examples and we  
11 don't have to have all the details now but just some ideas. And  
12 Elaine, are you thinking that's a good way to go? Yeah, get the  
13 examples, get the hard thing so that somebody actually does know  
14 in the end, wow, this is an example of how this works, wow, they  
15 want to recommend this for NOAA, I think we should take a look  
16 at it.

17 MS. DICKINSON: Usually if you want to grab somebody's  
18 attention you have to give them something dramatic and, you  
19 know, I think between all of us and all of our varied  
20 experiences we could come up with -- even if it's just bullet  
21 items like what if, if there wasn't a good chart of, you know  
22 New York harbor or if, you know, a boat didn't clear a bridge  
23 by, you know, six inches, what if. I mean there are a lot of  
24 disasters out there, I hate to say it, but, you know, they're  
25 kind of waiting to happen and I don't think that's the kind of

1 thing that anybody thinks about or realizes except people like  
2 us.

3 MS. BOESE: Well, and from -- you know, I'm coming from a  
4 lay perspective and that's when I -- originally I really wanted  
5 these first italicized paragraphs to be something that somebody  
6 would recognize. You know, the Katrina was an example. Now  
7 these are things that pop out in my mind. But that's where we  
8 could really -- you know, you have some input and they -- I  
9 think there obviously are dramatic examples because I'm hearing  
10 them but we need to identify them and put them down. We can do  
11 the research on them later, we don't have to have it all spelled  
12 out. But what about the Athos or, you know, whatever it is and  
13 things that -- the more current the better.

14 MR. RAINEY: You want to jump in, Bill, or -- I wanted to  
15 talk about what -- like, for example, we tried to get that in on  
16 the Athos I, the -- you know, on page I guess five. We're  
17 talking a little bit about, you know, there's been some  
18 progress, how important they are and then, however, incidents  
19 like, you know, the Exxon Valdez, the Athos I, you know,  
20 striking a submerged object in a navigation channel and talk  
21 about the -- you know, the disarray in the response and recovery  
22 in the Gulf and talk about being stark miners and continuing  
23 hazards and how important the survey work is. And then, again,  
24 it kind of maps back to a most wanted that I proposed or  
25 suggested back on page three, conduct full bottom coverage

1 hydrographic surveys of federally maintained channels,  
2 approaches and anchorages to detect submerged objects and other  
3 hazards to navigation. Coordinate effort across multiple agency  
4 jurisdictions and budget authorities, and that's shorthand for  
5 we obviously know the tremendous difficulty you have there with  
6 NOAA, you know, has jurisdiction outside of the federally  
7 maintained channels, Corps of Engineers and the split and the  
8 Congressional, you know, budgetary authority and oversight. But  
9 again, that's a -- I would think one of our critically most  
10 wanted things. We just can't tell ships to drive in channels  
11 and then just, you know, good luck because we know there's a  
12 bunch of junk down there. Bill.

13 MR. GRAY: Yeah. And you should also put in some pictures  
14 of the anchor and the pump casing that were sitting right in the  
15 middle of the channel that the Army engineers didn't find that  
16 caused the Athos accident. And I would say in the same token,  
17 on page three, your most wanted, there are 13 items listed here.  
18 I would think it would be a more punchy report if we were to  
19 reduce this to three, four or five. And I really think -- and  
20 the one you did right there, you conduct -- I absolutely agree  
21 with that. That would be number one or two for me to do that  
22 and I would have one or two others -- those are the really gutsy  
23 things we want to do. Whereas increase investment in emerging  
24 surveying, mapping and geo-positioning tech -- well, yeah, you  
25 should always be following what's going on in your field and be

1 able to do it a little bit better. But you -- the problem is  
2 we've got the ability now with identified technologies that we  
3 can't use because we haven't got enough money to use the things.  
4 It's -- and I'm not so much worried about new -- and you  
5 mentioned I think, John, the work that you're doing. I remember  
6 Dave MacFarland telling me a couple of years ago that once he  
7 got this multi-beam stuff going he was -- they -- he was  
8 averaging something like one and a quarter new wrecks found each  
9 day, in other words 400 or 500 a year or something like that and  
10 finding big rocks like out in the eastern Long Island Sound at  
11 -- what's that -- Northville there, they found a huge boulder  
12 out there, something like that. We've got them between Block  
13 Island and Mantauk there, the -- a boulder alley or whatever,  
14 you know about that Steve. And these are examples of things  
15 that really are why do we want more attention put in this  
16 direction and take some of the other ones which are let's keep  
17 doing our job, of course. Do we -- improve the efficiency in  
18 NOAA's contracting process. Well, that surely isn't number two.  
19 I mean my god, the contracting process works, whether it works  
20 as well as it should or anything else like that, but boy that  
21 sure doesn't excite me and I don't think it should excite many  
22 people. Well, why can't -- with all the effort we've got on the  
23 PPBES or something like that just can't you fix some contracts  
24 too. I mean that ought to be pretty simple. It's not to me an  
25 HSRP most wanted.

1           MR. RAINEY: All these are trying to do is kind of  
2 placeholders to sort of hopefully, you know, provoke some  
3 discussion and ideas and we can scale it and scope it so that,  
4 you know, whichever particular one or whatever. But I think  
5 that's a really important point is that, you know, this isn't,  
6 you know, ready to say this -- these are it. These are just my  
7 ideas and I put them forth as, you know, some possible things to  
8 take a look at. But -- so I'm in total agreement there, that it  
9 needs to -- you know, we need to say, you know, what's  
10 important, not necessarily just, you know, everything. Tom.

11           MR. SKINNER: I don't know if this one's on, I guess it  
12 is. Tom Skinner. I just wanted to go back for a second to the  
13 idea of whether it's focused on navigation services or some of  
14 the other activities. And I think you can have your cake and  
15 eat it too. This does -- the -- this draft I think does a  
16 pretty good job of sort of framing that, it may need to be  
17 altered a little bit. But by focusing on the nav services but  
18 then having a very shorter section on here, some other  
19 applications of all this data that can be used for other things.  
20 You also get at the whole idea of not being a stovepipe  
21 function, you know, a one purpose activity which I think in  
22 today's political climate is a -- is tough to sell. And Dave  
23 and I were talking earlier, I know that from -- when I was at  
24 CZM and through our connections with Dave Brown we were doing  
25 this Massachusetts Ocean Resources information system, this

1 metadata thing, and there's all sorts of data at the Coast  
2 Survey which was made available to us which we used for several  
3 -- I'm not sure if it was tens or 100's of layers of data that  
4 was extremely useful. And having something like that that just  
5 explains to someone like a Congressional staffer that this data  
6 without any additional funding or activities can be used  
7 (indiscernible).

8 MR. RAINEY: That's exactly what I'm trying to -- yeah.

9 MR. SKINNER: I'm just saying Susan Snow-Cotter, you know,  
10 we should have a little box in the report sort of saying this is  
11 how we used this data to help with aquaculture sighting.

12 MR. RAINEY: That's exactly what I'm hoping.

13 MR. SKINNER: (Indiscernible) to navigation and it  
14 shouldn't be the focus of this report but should say this has  
15 other applications, you know, in day to day coastal management.

16 MR. RAINEY: Are you suggesting that? I mean because  
17 that's precisely what I'm hoping to do and what I think  
18 underpins the -- you know, our assertion that it's one of the  
19 best public investments because you're getting so much for this  
20 and, you know, don't -- are you suggesting to -- you know, as  
21 far as the structures now with like the resilient communities, I  
22 mean can it be talked about there or are you.....

23 MR. SKINNER: Yeah.

24 MR. RAINEY: .....suggesting to pull it into the chapter  
25 on -- I mean that's what I'm wondering is how to structure it.

1 Because that's the message I'm trying to drive home and I was  
2 hoping to do in the one document. But do you -- functionally  
3 the structure of it, what do you think (indiscernible)?

4 MR. SKINNER: The only thing that I saw, I liked the  
5 resilient communities idea but one of the things I noticed was  
6 the beginning chapter or the opening chapter is about navigation  
7 services, the second chapter is about hydrographic services.  
8 And it might be more useful to sort of start with hydrographic  
9 services saying this is the primary focus but it's also useful  
10 for a lot of other things and then go into here's the meat of  
11 our -- of what we want to say, it's about navigational services.  
12 And then under the -- you know, further down talk about other  
13 potential applications for the same information.

14 MS. BOESE: Would it -- we have some extra pages, what if  
15 we just made its own other applications, far reaching nature of  
16 hydrographic information and services so that people can -- and  
17 then have visuals that reflect that so that to tap into what  
18 you've been interested in all along, how far it does reach that  
19 they can actually see that. Because we do have the space to do  
20 that, we could just make it its own section.

21 CAPTAIN MCGOVERN: I've been trying to jump in here. I  
22 disagree with that. I would like to connect -- and just -- I  
23 was just going to bring this -- I was -- before Tom said it I  
24 was going to say we need to talk about full bottom coverage. To  
25 me I would connect that directly and talk about, as Steve

1 mentioned before, map once, use many times. I would put, you  
2 know, all right, full bottom coverage can be used in all these  
3 other -- for all these other things, for fisheries, for this,  
4 for that. And this way if you do pull it apart, as the Admiral  
5 said, you know, to use certain -- it's connected there otherwise  
6 you're going to be pulling something from here and something  
7 from back here and -- you know, and if this goes to the Congress  
8 we know their -- you know, the attention span, that if it's on  
9 this page and then it's on page 22 they're never going to  
10 connect it, they're not. So to me I would -- as each thing I  
11 would weave them together. I just think that way makes it  
12 easier also for anyone else to use it.

13 MR. RAINEY: And maybe then we can use the extra space  
14 that we have, we just make that section -- you know, we expand  
15 that maybe. John, and then I wanted to go back to Dave then.  
16 It sounds like we're starting to arrive at a consensus, let's  
17 try to get it, you know, under one report. If -- Dave, if you  
18 had some specific -- you know, we wanted this to be as robust,  
19 you know, for NGS as it is for Coast Survey and -- you know, and  
20 others and we want to make sure we're capturing all the  
21 priorities. You know, if we go with this approach we want to  
22 try to, you know, address it. But -- so maybe I could ask you  
23 that. But Jon Dasler, did you have a comment on the last?

24 MR. DASLER: Yeah. Well, just to back up a little bit  
25 when we were talking about direction obstructions. I mean

1 sidebar to some of that is having say a hit list on the side  
2 that lists the annual -- how many wrecks and obstructions that  
3 have been discovered every year and having some images of that.

4 MR. RAINEY: Yeah, that'd be a great idea. And I would --  
5 I was going to suggest maybe because we're going to hear from  
6 Doug Barrett on the National Survey Priority Plan, maybe that  
7 would be a new little enhancement they could run there as well  
8 is how that they picked up and that'd be a running tally if that  
9 is, you know, statistically achievable.

10 MR. DASLER: Right. And then back on Tom's comment and  
11 Andrew's, I think you could incorporate that. I think making  
12 that tie, first showing how important it is to the navigation  
13 system and then just carrying it down. And you wouldn't  
14 necessarily have to incorporate everything in this document, you  
15 can -- NOAA has a lot of excellent documents that you could  
16 reference and draw attention to as examples but you could put in  
17 some excerpts out of that. For example, the Coastal Services  
18 Center has a great brochure that highlights to coastal managers  
19 all the uses of multi-beam and side scan data and how it can be  
20 used for coastal management and they go through, you know, a  
21 great pictorial and great examples and, you know, possibly  
22 something can be pulled out of that or reference that document.  
23 But I think they did a great job in just showing how you can  
24 take this full coverage data that primarily used initially for  
25 charting and navigation and how not it's being -- again, the

1 many uses idea and used for different applications and try to  
2 tie that all together.

3 MS. BOESE: And what is that document again?

4 MR. DASLER: I have a copy, I -- the Coastal Services  
5 Center, I don't know, Jack, if you're familiar with it. But I  
6 have it back in my office, I don't recall the name of the  
7 document offhand.

8 MR. RAINEY: Scott.

9 CAPTAIN ARMSTRONG: Yeah, I'd just like to say I'm in  
10 agreement with the direction we're heading here and I think the  
11 consensus and I would just think that we should spend or someone  
12 should spend a fair amount of time working on the title.  
13 Because I think a lot of people are going to look at the front  
14 cover and they're either going to open it or not open it  
15 depending on what the title it. And I think it's very important  
16 that we try to keep that focus on the Marine Transportation  
17 System but still sort of hold the promise of all the other uses.  
18 And so I -- I mean I think the title as it sits now is falling  
19 short of what we need.

20 MR. ZILKOSKI: Dave Zilkoski. And I'll -- can you hear  
21 me, is that on? And I'll address what you were asking me, if  
22 it's getting closer to what I think it'll help in terms of  
23 geodesy. And first let me say I'm not saying that you don't  
24 need something like this for the Marine Transportation System.  
25 Certainly they don't seem to be making as much traction, and as

1 Lou mentioned about earmarks and so forth and not getting  
2 something funded. So you do need something there. Although  
3 doing the same old thing over and over again may or may not get  
4 you where you want to go so I think changing something slightly  
5 different. I'm not sure you're heading down the road where  
6 you're not doing something the same. I think what Tom was  
7 bringing up, you're doing something a little bit different and  
8 that's where I think geodesy would play a role. But as you'll  
9 hear and as I talk about our programs, we do a lot more than  
10 just the Marine Transportation and if you -- you heard from  
11 Steve when he talked about his C and T goal. Well, geodesy's  
12 the foundation for a lot of those programs so when you start  
13 talking about aviation weather, my GPS CORS provide information  
14 about the atmosphere that people use. They also provide  
15 information for space weather. Those are all important things  
16 to aviation, they're important things to transportation in  
17 general. And I guess I look at transportation as  
18 transportation, not marine transportation. There's air, there's  
19 land and there's sea. So I'm always looking at it from three  
20 things and I'm seeing this committee -- not saying it's right or  
21 wrong, I'm just saying from this committee you're focused more  
22 on the sea part of that. Okay, that's understandable, it's the  
23 makeup of the committee. So I think if you do do the one  
24 document, which I think that Dick said was probably the best  
25 solution which I agree with, I think the title does become very

1 critical. And I think you can weave in a lot of these messages  
2 along the way and geodesy will play a foundation role in there  
3 and it may be useful for me. But understand if it's going to be  
4 useful to me, your advisory committee, I'm going to be asking  
5 questions of what's my role in aviation weather, what's my role  
6 in aeronautical positioning of -- not just the Marine  
7 Transportation System. So I think we can work together on that  
8 and whatever you decide will be the best move for now. Because  
9 you're -- as Jack said, your committee's going to be here for  
10 awhile, at least we hope and we're looking. But I want to be  
11 able to utilize it to help me move on in geodesy.

12 MR. BOLEDOVICH: I just wanted to encourage you to say one  
13 thing in your report is to say things that I can't say. Put  
14 things in your brochure that if I want to put out an agency  
15 brochure I couldn't say. I have to get my stuff cleared through  
16 OMB, you do not, and consider that in your deliberations.

17 MR. RAINEY: And that was -- Admiral, that was Glenn if  
18 you haven't got the voice ID thing. And I think that's a real  
19 important point but I think that -- I think -- to me when I look  
20 at what -- you know, what's the best we can do. I mean we have  
21 a special -- I think that drives the point, we've got a special  
22 opportunity and maybe one of the reasons why this committee can  
23 be helpful is to take a look and to just put out -- we can say  
24 what we can say. I mean I think that's an important point and  
25 that is -- and I think the best thing we can do is we can focus

1 on what the needs are and what the requirements are and then try  
2 to -- to the extent we can, to reach a consensus about maybe  
3 some prioritization there and I think that could be useful and  
4 -- you know, because we're not -- we don't have -- you know, we  
5 can just keep -- and I don't -- and again, it may not be doing  
6 something different or new but I think just to keep saying,  
7 gosh, we've had -- you know, all this work has gone into this  
8 but, you know, we really have to keep saying, you know, we have  
9 these requirements and they're increasing and we've got to find  
10 a way to get some of these services caught up to the  
11 requirements. And so I'm hoping that this can be a start on  
12 that. Jon.

13 MR. DASLER: What about just modifying I guess the title I  
14 guess to address those concerns to something like hydrographic  
15 services contributions to a marine community or something where  
16 you can start out then just stepping your way through and  
17 highlighting what all these critical connections are. So more  
18 of a broad encompassing rather than just saying the Marine  
19 Transportation System. And even though we can still have that  
20 as our highlighted and a place we're starting from we can make  
21 that whole big connection. And so here we are, the Hydrographic  
22 Services Review Panel, here's our thoughts on what hydrographic  
23 services provides to the nation and the importance of it. So  
24 it's more encompassing than that and then we just kind of step  
25 through it.

1 MR. RAINEY: Well, I -- absolutely, I think we can take a  
2 crack at that and, you know, broaden that out and express that  
3 better so it doesn't just limit the document.

4 MS. BOESE: I think we should just break at noon.

5 MR. RAINEY: We're kind of out of time, we're going to  
6 have to break and do lunch so we can catch up to our regular  
7 session. But I think it sounds like there's agreement, you  
8 know, to go forward with this. You know, at a very minimum that  
9 we've got a consensus to try to encompass -- you know, to cover  
10 the highlights of our charter which expand -- you know, cover  
11 the MTS but beyond as well. If you can be thinking about if  
12 there -- we talked about weaving in some of these other broad  
13 uses to try to, you know, emphasize the crosscutting. And if  
14 there are sections that you see or, you know, if you see it a  
15 different way or you have a different vision of the basic  
16 breakdown or the flow of that or something that's missing or not  
17 there, need to get some early advice on that because I think  
18 what we want to do is sort of have a consensus and agreement on  
19 that and then we can move forward and then start talking about,  
20 okay, within those sections some of the major points or themes  
21 that we're trying to emphasize and then the other things that we  
22 can weave in there. I think it was a good discussion. I don't  
23 know if anybody has some other comments that they want to put on  
24 the table here before we take a break for lunch.

25 ADMIRAL WEST: Yeah, how am I (indiscernible) pale ale

1 through this phone?

2 MR. RAINEY: Admiral, I'm sorry, could you say that again?

3 ADMIRAL WEST: How am I going to get my frosty pale ale  
4 through this telephone?

5 MR. RAINEY: Bill.

6 MR. GRAY: Ann gave us three pieces of paper and asked for  
7 some feedback on that and I think you also put some other dates.  
8 Are we going to return to this subject before we leave  
9 Anchorage? We are.

10 MS. BOESE: Just based on what we've talked about so far I  
11 think that I'd like to come away with at this point, in addition  
12 to obviously anything else, is do you think that we should  
13 figure out the most wanted list, how -- whether it's going to be  
14 a few, whether it's going to be 13 or whatever, order, et  
15 cetera. I'd like to have people's input on examples, real life  
16 examples that we can put in because I'd like to go with -- even  
17 if it's just the name of an accident or the name of something  
18 and where it applies, what section it would apply to. And if  
19 you're -- you know, don't -- the HSRP recommendations are sort  
20 of the guiding material in terms of how these sections are  
21 playing out. So if you're looking at the recommendations and  
22 say, oh yes, well this happened and that's -- that is related to  
23 this particular problem or where the need's not being met. And  
24 some ideas about the broader uses that we can incorporate into  
25 the document. That would be great. And I agree totally with

1 the title and, you know, it's a work in -- it's a -- it's in  
2 progress and it should in the end concisely state exactly what  
3 it is that we're trying to do and I think it will.

4 MR. RAINEY: Okay. Well, let's go ahead then and adjourn  
5 for lunch. And Barbara, is there specifics on that that.....

6 UNIDENTIFIED FEMALE: (Indiscernible).

7 MR. RAINEY: Okay, okay. Okay. Okay. All right. Thanks  
8 very much.

9 (Off record at 12:02 p.m.)

10 (On record at 1:10 p.m.)

11 CAPTAIN BARNUM: .....Hydrographic Services Review Panel  
12 meeting here in beautiful Anchorage, Alaska. I'd like to  
13 welcome everybody. For the public that has arrived, please be  
14 sure you sign in. There is also handouts back at the back  
15 table. I'd ask you also for any folks that have cell phones, we  
16 had some concerns with cell phones and the interaction with the  
17 PA system, if you'd please secure those please.

18 Next I'd like to remind everyone the purpose of the  
19 (indiscernible). So just to remind the panel members as well as  
20 the members of the public, this mission goals of the  
21 Hydrographic Services Review Panel. The HSRP, or Hydrographic  
22 Services Review Panel, is governed by the Federal Advisory  
23 Committee Act and was established by the Hydrographic Services  
24 Improvement Act amendment of 2002. This panel is charged with  
25 advising the NOAA Administrator on matters specified in the

1 Hydrographic Services Improvement Act specifically related to  
2 hydrographic services. In a nutshell hydrographic services are  
3 those services provided by three program offices within NOAA.  
4 That's the National Geodetic Survey, the Center for Operation  
5 Oceanographic Products and Services and the Office of Coast  
6 Survey. The panel membership consists of 15 voting members.  
7 These are non-government employees appointed based on their  
8 particular expertise. Members of the panel do not represent the  
9 organizations or the entities that they are employed by, but  
10 again they are on the panel by the mere fact of their particular  
11 expertise. The terms of the members, one-third were initially  
12 appointed to two year terms, one-third were appointed to three  
13 year terms and one-third were appointed to a four year term.  
14 All subsequent appointees will be for a four year term. There  
15 are three non-voting members consisting of government employees,  
16 one being Andy Armstrong, the Co-Director of the Joint  
17 Hydrographic Center, and there are provisions for two additional  
18 government employees. These are currently the Director of the  
19 National Geodetic Survey, Dave Zilkoski, and the Director of CO-  
20 OPS, Mike Szabados. Our meetings are required to be held  
21 minimally twice a year, although this panel has established a  
22 pattern of approximately four meetings per year. With that I'm  
23 going to turn the agenda over, the microphone to our Chairman,  
24 Scott Rainey.

25 MR. RAINEY: Thanks, Steve. Again, I'd like to welcome

1 the public for joining us and I'm very honored to be able to  
2 introduce our speaker, John Rayfield. John is currently the  
3 Staff Director of the Coast Guard Maritime Transportation  
4 Subcommittee of the House of Representatives and we had asked if  
5 John could come and address us. It was a timely chance to check  
6 in with him because John's former position with the Resources  
7 Committee and was primarily involved in drafting the  
8 Hydrographic Service Improvement Act which stood up and  
9 chartered this committee and John has a particular knowledge of  
10 NOAA's programs and now with his perspective with the Coast  
11 Guard, Marine Transportation System and many of the things that  
12 we've been talking about with the Committee on Marine  
13 Transportation System and others coupled with John's work with  
14 Alaskan issues over the years it was particularly appropriate  
15 and very happy that we could have John come and talk to us about  
16 many of the issues that we've been working with as we look  
17 forward to some of these events coming online. So I'll just  
18 quickly kind of turn it over to John and we'll go ahead and open  
19 up our afternoon session. Thanks.

20 MR. RAYFIELD: Welcome to Alaska. (Indiscernible - away  
21 from microphone).

22 THE REPORTER: (Indiscernible).

23 MR. RAYFIELD: Okay?

24 THE REPORTER: Yes, go ahead.

25 MR. RAYFIELD: All right. Well, on behalf of Chairman

1 Young appreciate you all coming to Alaska and he regrets he  
2 couldn't make it today but sends his regards. He's the only  
3 licensed merchant mariner in Congress so this is an issue of  
4 some considerable importance to him. And 60 percent of the  
5 critical survey areas that have been identified are in Alaska,  
6 so -- and you couldn't pick a better place than the Captain  
7 Cook, the original Pacific navigator, and if you get a chance  
8 you should go down and see the Captain Cook statue that sits  
9 right at the head of Cook Inlet. It's a good -- also a good  
10 view of the inlet if the weather clears up before you guys  
11 leave.

12 Scott's pretty much told you who I am and why I'm here. I  
13 would just note that Chairman Young introduced both the  
14 Hydroservices Improvement Act and the 2000 reauthorization when  
15 he was Chairman of Resources and I was working for him there.  
16 Ten years ago -- started reviewing this program, had some  
17 background hearings, meeting with the industry groups and the  
18 agency. Coast Survey was in pretty bad shape. They had three  
19 hydrographic survey vessels still running, that was down from 11  
20 when the agency was created in 1973. They were still using  
21 state of the art 1938 single beam technology. There was no  
22 hydrographic survey plan and the digital revolution was moving  
23 forward without the Coast Survey really participating in it.

24 So there is a lot of good news so we'll start with the  
25 good news. You do have the Hydrographic Services Survey

1 Priority Plan now. It's published, there's public input and  
2 it's updated periodically. That took a huge amount of work on  
3 the part of a lot of people at NOAA and it has been a major  
4 accomplishment and it allows us to establish some quantifiable  
5 way of looking at the program's success. Now to full bottom  
6 surveys, chart updates are now all digitized. I remember the  
7 first time I went to Coast Survey they were still drawing lines  
8 on Mylar overlays to do their map changes. And we're making  
9 progress, not as rapid as some people would like, but progress  
10 on getting a full suite of electronic navigation charts. And  
11 we've added additional survey capacity both by the replacement  
12 of one NOAA vessel with a much newer more modern vessel, the  
13 reactivation of one survey vessel that had been mothballed for  
14 over a decade, and through the use of contractors. To  
15 accomplish those changes in the last 10 years agreements were  
16 made between Congress and the administration that most of the  
17 program growth would come through contractors. The Hydro  
18 Services Improvement Act essentially blessed that agreement and  
19 the Appropriations Committee at that point established a new  
20 funding line that if everything goes well will be roughly \$30  
21 million for contract surveys in fiscal '07. While there were a  
22 lot of other factors that were involved in moving the program  
23 forward that certainly was one of the key agreements. And I  
24 know that there are still some proponents of an all federal  
25 program and there are some proponents of an all contract

1 program. All I can say is the results pretty much speak for  
2 themselves. NOAA's now building electronic charts based on the  
3 newly acquired full bottom surveys, they're getting updated tide  
4 and current data and they're delineating shorelines that haven't  
5 been looked at in decades. So I think we have to see all of  
6 that as success.

7 That doesn't mean there aren't still a lot of things to  
8 do. When we started looking at this in '95 and '96 NOAA  
9 identified about 43,000 square miles that's critical for  
10 navigation that needed to be surveyed. Had we fully funded the  
11 authorization levels in the Hydrographic Services Act we figured  
12 it would have taken about 10 years to survey that area. As it  
13 is at the end of 10 years we probably will have about half that  
14 area surveyed, which is still progress because the original  
15 estimate was it would have taken 44 years just to finish that  
16 area. And then I understand there's about a 10 percent increase  
17 in the critical area that's been added as the public has  
18 reviewed that plan and looked at it. I would not even calculate  
19 how long it would take to survey the 500,000 square nautical  
20 miles that are considered navigationally significant. I'll just  
21 say we should all live that long.

22 As you know next year is the 200th anniversary of the  
23 Coast Survey Thomas Jefferson established in 1807, it's 12 years  
24 before he founded the University of Virginia, which is  
25 irrelevant except that I'm a UVA grad. So I hope the panel will

1 undertake a bicentennial review of the program and make  
2 recommendations to assure its future for the next not 200 years,  
3 at least maybe 10 or 20 years out in the future. I propose a  
4 couple of five year goals. First, try to get sufficient funding  
5 increases for contractors to do the surveys, the tide and  
6 current measurements and the shoreline delineations so that we  
7 could complete the critical area surveys in five years rather  
8 than 10. Number two, complete the suite of electronic charts.  
9 And number three, and the contractors won't be happy about this,  
10 but modernize NOAA's hydrographic fleet to keep that in house  
11 expertise which is necessary if NOAA is going to continue to  
12 maintain the liability for the charts. You've already got the  
13 Jefferson online. Looks like there will be money to finish the  
14 SWATH vessel to replace the Rudy. So I would argue, and of  
15 course I work for an Alaskan, that the next thing you need to  
16 look at is replacing the Rainier and the Fairweather. They came  
17 online in 1968. By comparison my father bought his Ford Galaxy  
18 500 in 1968. He put 260,000 miles on it and he sold it 18 years  
19 ago. These vessels are still in relatively good shape but  
20 they're not going to last forever and the deferred maintenance  
21 on them is significant. And rather than addressing that  
22 deferred maintenance looking at new vessels is probably the way  
23 to go.

24           So, to achieve that first goal, Hydrographic Services  
25 Improvement Act needs to be reauthorized at its current levels

1 and the administration needs to make budget requests consistent  
2 with those levels. Jack's not going to look at me on that.  
3 Second, I would argue that the easiest way to replace the  
4 Rainier and the Fairweather would be to build a fifth ship in a  
5 line of ships that NOAA's already building. They're fisheries  
6 survey vessels, they requested funding for the fourth one in  
7 fiscal '07. It would be a great way to celebrate the 200th  
8 anniversary of the Coast Survey if in fiscal '08 they ask for a  
9 fifth FSV that was modified to be a hydro vessel. That's not  
10 perfect, they won't carry as many launches as the Rainier and  
11 the Fairweather. It would be wonderful to have a custom  
12 designed high latitude survey vessel, however the difference is  
13 the FSV is a real vessel and the custom designed high latitude  
14 survey vessel is an imaginary vessel that we aren't going to see  
15 anytime soon, so those would be my arguments there.

16 On bigger issues, the long term things I would hope the  
17 panel will be looking at. First, how to integrate the  
18 hydrographic data that we're amassing with all of NOAA's other  
19 coastal and ocean observation databases. Really the  
20 authorization for those programs now exists in the 1947 Act, the  
21 same Act that established the Coast Survey. While it was  
22 clearly looking at nautical charting and commercial activities  
23 it did envision some broader scientific research activities. To  
24 the extent that it's possible all of that data should be  
25 available to the public and to coastal managers and to

1 researchers and anybody else who wants to look at it. At the  
2 same time I would also encourage the Coast Survey to look at all  
3 of NOAA's other coastal and ocean assets to see if there's data  
4 that they're collecting that would be useful to the Coast Survey  
5 that we would not have to then spend the money to buy  
6 separately.

7         Second, improve the coordination between NOAA, the Corps  
8 and the USGS on establishing integrating mapping procedures.  
9 Having three different incompatible mapping sets just does not  
10 make any sense for the taxpayer's money. I don't really know  
11 how to do that. Since the Chairman isn't here I'm going to tell  
12 at least one funny Alaska hunting story, I will tell you my  
13 funny Alaska interagency cooperation story. I've been working  
14 on a cleanup project on some islands that NOAA owns and is going  
15 to transfer to the natives who live there, for many years at  
16 this point. And they produced a list of 97 projects that had to  
17 be carried out before the land could be transferred. Most of  
18 them were fairly routine, there was a little asbestos, there  
19 were a lot of car bodies, old batteries, most of it is diesel  
20 fuel contamination. But as I'm reading down the list I get to  
21 the bulldozer in Little Polavena (ph) pond. So I thought okay,  
22 that merits a phone call. Why is the bulldozer in Little  
23 Polavena (ph) pond. Well, turns out it was a Fisheries Service  
24 bulldozer and it didn't work. The Coast Guard had a diesel  
25 mechanic so the Coast Guard took the bulldozer, fixed it and

1 then the Fisheries Service said, well, that's works, that's our  
2 bulldozer. So Coast Guard said no, we fixed it, we're keeping  
3 it. So in the dark of night a fisheries biologist snuck across  
4 the island, hotwired the bulldozer, proceeded to drive it back  
5 across to the Fisheries Service property and unfortunately  
6 halfway across Little Polavena (ph) pond spring arrived, which  
7 lasts about two weeks in the Pribilof Islands, and the ice broke  
8 and there sat the bulldozer for 20 years. So, we have now  
9 removed the bulldozer and it is in a landfill somewhere in  
10 Seattle I believe. So I don't want to minimize how difficult it  
11 is to get federal agencies to cooperate on anything. But I  
12 think that really should be a priority. Having more than one  
13 coastline if you try to explain that to the public they look at  
14 you like you're insane. But yes, it's true, different federal  
15 agencies have different coastlines.

16 And finally, I hope that you will look at the constantly  
17 evolving technology to see the ways in which we can make the --  
18 both the data acquisition and the chart creation and production  
19 processes more efficient, keep them up to date and ships and  
20 planes are expensive. To the extent that we can reduce ship and  
21 plane hours that will save us some money and let us get these  
22 critical areas done sooner, so.

23 Those are my thoughts. Again, appreciate your coming to  
24 Alaska and -- you doing questions or.....

25 MR. RAINEY: Thanks, John. I would -- I think the panel

1 would really appreciate a chance to, you know, just have some  
2 time to have a dialogue with you. So let me go ahead and open  
3 up the floor. Bill, did you have a comment or.....

4 MR. GRAY: Thank you very much for a very clear talk. I'm  
5 a little curious that you did not mention anything about the  
6 port system. Because the port system is to commercial mariners  
7 I would say easily the most desirable piece of information that  
8 they could have but don't have because even though that  
9 technology was developed some years ago and a number of ports  
10 systems were installed, I don't know, 10, 12, 14, whatever it is  
11 now, each harbor has to go around with a begging bowl simply to  
12 pay whatever it is for the maintenance and I think it's an  
13 absolute disgrace. I happened to, just to back up on this, do a  
14 study called Intertankers U.S. Port and Terminal Safety study in  
15 1995, '96, which I think led pretty directly to the MTS study  
16 that came out in 1999. And in doing that work back in '95, '96  
17 in I would say all the conversations that I had with  
18 professional mariners, commercial mariners, in this country and  
19 I include in that the pilots and so forth, they said our biggest  
20 need it to have accurate data and especially accurate real time  
21 data. Why is it that we have this discretionary situation that  
22 even for the port systems that we've got each harbor has to pass  
23 the begging bowl to make the damn thing work.

24 MR. RAYFIELD: My boss has requested full federal funding  
25 for ports every year since 1996 probably. The appropriators

1 unfortunately have made the determination that this is a private  
2 sector issue, that it's important to industry and that industry  
3 should be paying for it. Sadly there are no appropriators here  
4 to have to defend that to you in person.

5 MR. GRAY: Okay. If I could.....

6 MR. RAYFIELD: But Mr. Young totally agrees with you.

7 MR. GRAY: Okay. I just add to this, we did say.....

8 MR. RAYFIELD: It is important and I did actually consider  
9 putting that in here but.....

10 MR. GRAY: Okay.

11 MR. RAYFIELD: .....I know the uphill battle we have with  
12 the appropriators and I considered putting streamlining the  
13 contracting process in here but you all are only human and I  
14 think the contracting process is beyond human.....

15 MR. GRAY: Just one follow on to that if I could because  
16 in that same Port and Terminal Safety Study we said why is it  
17 that. We have something called the harbor maintenance trust  
18 fund, we also have the house bill liability trust fund. Monies  
19 are gathered from marine users, and contrary to what happens in  
20 aviation and highway systems marine gets almost none of that  
21 money.....

22 MR. RAYFIELD: Right.

23 MR. GRAY: .....that was collected from them. So when  
24 somebody in the Congress says that's the industry's job to do,  
25 the industry is being taxed without representation or result on

1 that.

2 MR. RAYFIELD: Right. And I do not know why NOAA did not  
3 get any funds out of the harbor maintenance trust fund. I've  
4 asked people who were involved in writing that back in '86 and  
5 they just -- I've never quite gotten a clear answer. My guess  
6 is NOAA just wasn't at the table when they divvied up the funds.

7 MR. RAINEY: John, could I ask you maybe a -- from your  
8 vantage point now and you talked about the -- I guess it's  
9 picking up on the interagency or the -- you know, the  
10 collaboration. That's been a big theme in a lot of the recent  
11 efforts. And as we look ahead to the reauthorization of the  
12 HSIA and others I'm wondering if you had any views or thoughts  
13 about -- I don't know whether we call it the -- or just are  
14 there issues that you see from your work on resources with NOAA  
15 and now on Coast Guard when we look at the array of just the  
16 jurisdictions and budget authorities and things and we --  
17 perhaps we're hoping, we all are hoping we got an opportunity  
18 here with the new CMTS. But as far as the legislator or  
19 congressional vantage point are there particular issues or  
20 concerns that you're sensing with the NOAA programs either in  
21 the -- do you think that the -- there's an understanding of  
22 these programs and the value and it's just other hard choices,  
23 political choices are being made or do you see an effort to work  
24 across, you know, Congressional jurisdictions authorize as  
25 appropriators, science versus resources, that sort of thing.

1 We've got a lot of players and I'm just wondering if there's --  
2 I know the administration is taking some steps, I'm wondering if  
3 you're seeing any improvement maybe legislatively across the  
4 jurisdictional boundaries there.

5 MR. RAYFIELD: Well, in terms of appropriations you're in  
6 the same boat that we're always in. The Senate has come in with  
7 much higher numbers for NOAA than the House has come in with and  
8 they'll all be conference issues. The good news is for most of  
9 your programs didn't get -- I didn't bring my chart with me but  
10 as I remember most of the programs did not get cut too badly in  
11 the House bill for nav services. But, yeah, it's the same  
12 situation. On the reauthorization, if you can keep extraneous  
13 matters out of it that bill just goes to one committee in the  
14 House and one committee in the Senate. Now there are other  
15 extraneous issues, some dealing with the NOAA CORS that, you  
16 know, might be ripe for consideration there but that will be up  
17 to those authorizing committees to determine. I will encourage  
18 them to look at something that works with the Corps of Engineers  
19 and NOAA to try to get that full bottom coverage issue  
20 addressed.

21 MR. RAINEY: Okay. I just wondered if you're sensing, you  
22 know, maybe an opportunity to do some of those cross  
23 jurisdictional things and that one, that particular issue, is  
24 something we're.....

25 MR. RAYFIELD: Yeah.

1 MR. RAINEY: .....I think going to try to comment on as  
2 strongly as.....

3 MR. RAYFIELD: Right.

4 MR. RAINEY: .....we can because that's a difficult  
5 situation.....

6 MR. RAYFIELD: Yeah.

7 MR. RAINEY: .....where you've got that split division of  
8 responsibility there.

9 MR. RAYFIELD: The two committees of jurisdiction there  
10 generally work very well together, so that's the good news. At  
11 least on the House side.

12 MR. RAINEY: Andy.

13 CAPTAIN ARMSTRONG: Andy Armstrong. John, if we should be  
14 successful in getting the critical backlog on a five year  
15 schedule, and even if not if it's on a 10 year schedule. This  
16 morning we were listening to a presentation on the NOAA planning  
17 process which has us already out to 2013. Do you see continued  
18 support on the Hill for hydrographic surveys past the point of  
19 completing the critical survey areas or are we going to be faced  
20 with a crisis in five years or 10 years in terms of justifying  
21 the need for additional survey work.

22 MR. RAYFIELD: Well, I think that is one of the primary  
23 motivating reasons for the Coast Survey to start working with  
24 the other parts of NOAA and be seen as part of the effort to  
25 gather the data that observes and explains the environment. And

1 I think that -- being seen that way as opposed to being seen  
2 only as a group that produces nautical charts and nothing else,  
3 I think that's where their future needs to be as part of that  
4 whole integrated system of looking at the coasts and oceans and  
5 what's happening out there. You know, will we ever map the  
6 whole EEZ with full bottom coverage the way we map important  
7 navigation areas? Probably not. But even if you mapped it at a  
8 much lower resolution there would still be reason for the Coast  
9 Survey to be out there or the contractors to be out there. So I  
10 don't know if that answers your question, but.....

11 CAPTAIN ARMSTRONG: Thank you.

12 MR. RAYFIELD: Okay. Thank you.

13 UNIDENTIFIED MALE: Okay. Thanks very much.

14 CAPTAIN BARNUM: Thank you, John. The next agenda item is  
15 an update on NOAA navigation services. I'll be tag teaming this  
16 with Director of NGS and CO-OPS respectively.

17 Next slide please. FY '07 navigation services summary.  
18 The Senate and House marks are both available in your package.  
19 The Senate matches the President's requests by and large with  
20 major earmarks for EEZ service surveys for the UN law of the sea  
21 claim. NGS GIS mapping, height mod elevations, Great Lakes  
22 NWLON and Alaska tide and current data. The House, as was  
23 mentioned earlier, is well below the President's request.  
24 Impacts current levels on all fronts.

25 Next slide please. This slide shows in a table format the

1 FY '06 enacted, the 2000 President's budget request, the House  
2 mark and the Senate mark. As you can see from the House mark we  
3 are zeroed for ENC's, we've basically stopped production of  
4 ENC's. Shoreline mapping zeroed and the joint hydrographic  
5 center zeroed. Significant shortfalls there.

6 Next slide. Hydrographic survey developments accomplished  
7 in 2006, implemented new processing procedures, implementing the  
8 Q process (ph). And planned for '07, continue evaluation of  
9 AUV's and interferometric side scan sonars to enhance survey  
10 capabilities, develop operating procedures for transition and  
11 also implement TCARI. It's an enhanced method of applying tide  
12 correctors to survey data. For hydrodynamic modeling, in '06  
13 completed the transition of the Great Lakes model to operational  
14 status and established model environmental -- environment in  
15 Delaware Bay for community testing of models. Planned for 2007,  
16 Columbia River will be offered experimentally and to continue  
17 collaborative NOAA project to evaluate real time storm surge  
18 models coupled to an ocean model. Vdatum, Strait of Juan de  
19 Fuca North Carolina completed in 2006. Planned for 2007, the  
20 complete Chesapeake Bay and Mobile Bay to St. Josephs Bay, so  
21 doing height modernization. I'm sorry, doing the Vdatum on a  
22 more regional basis.

23 Next slide. ENC's, 550 completed to date. Maintain for  
24 critical notice to mariners, top 40 U.S. ports covered. No  
25 growth in number of ENC's available after FY '06 enacted and FY

1 '07 request not enacted, be no growth. ENC distributorship  
2 program is operational. To date six applications have been  
3 received, four were accepted and two are pending.

4 Next slide. RNC's, significant downloads, almost two  
5 million RNC's downloaded since December 2005. Regional RNC  
6 distributorship program is operational. Forty applications  
7 received, 35 approved, five pending and download statistics from  
8 distributors not yet available. The NOAA RNC trademark  
9 registration is pending, July of 2006 still hasn't come through.  
10 Hydrographic Products Quality Assurance and Certification  
11 Program still has no applicants.

12 Hydrographic survey vessel time charter, FY '06  
13 appropriation earmark funds for a new time charter of two and a  
14 half million dollars. NOAA plans to contract with a  
15 hydrographic services provider specifying use of a dedicated  
16 vessel to complete a large survey area in Alaska. All five  
17 firms of our omnibus IDIQ contract have received a request for  
18 proposal. The most qualified firm with the best technical  
19 approach will be awarded the task order and that's eminent.  
20 Award in FY '06 for fieldwork to be -- start this fall and next  
21 year.

22 So -- next slide. Contracts, has a breakdown of the  
23 various dollars for FY '06 to the various contracts. In  
24 addition there was \$20 million for emergency supplemental of the  
25 marine debris mapping. Those survey areas have been assigned to

1 our IDIQ omnibus contract. Contractors, we're in negotiations  
2 with those right now and expect award in '06 for work to begin  
3 in '07 -- begin this fall. In addition there was \$2 million in  
4 tsunami supplemental and that was provided to -- awarded to  
5 Tenix for a project up at Puerto Rico.

6 Next slide. Showing a breakdown of the projects along the  
7 Alaska coast and the U.S. Coast. Next slide. SWATH vessel  
8 mentioned earlier by John, critical design review held in March  
9 of 2006. Initial reports that the sea keeping prediction did  
10 not meet requirements. Vessel construction costs increased with  
11 the increased cost after Katrina, Rita, shortfall of \$5.6  
12 million to program. Additional model tests and numerical  
13 analysis done subsequently and final report due was done July  
14 31st. The report is that they -- it is technically feasible to  
15 build this vessel. Detail price negotiations in August 2006,  
16 must obligate \$15.7 million in '06 funds this year so the clock  
17 is ticking.

18 Next slide. NOAA leadership briefed on programs cost  
19 shortfalls, commitments sought for relief from FY '07 to make  
20 program whole. Decision briefed to NOAA Deputy Undersecretary  
21 in September 2006. The Deputy Undersecretary determines go, no  
22 go on SWATH construction. Scheduled delivery now estimated for  
23 April 2008.

24 Next slide. Navigation Response Teams. Certainly  
25 laudable hurricane season performance were Hurricane Katrina,

1 Rita. Partnership with DOD technologies support working group  
2 to develop a NRT that could be used for harbor surveys. Also  
3 working with the technical support working group of DOD as a AUV  
4 for homeland security, countermining measures. NRT technically  
5 not operational, unfunded, sitting in a shed. Planned for the  
6 mid-Atlantic region and awaiting '07 appropriations decision.

7 Next slide. Certainly the issue along the coast still  
8 exists. Next slide. NRT coverage for the U.S., talked about  
9 the additional NRT. This is as it stands now, there are six  
10 NRT's, two on the west coast, one in the Great Lakes, two on the  
11 east coast and one in the Gulf.

12 Next slide. Planned coverage is to add two additional  
13 NRT's, NRT seven the summer of 2007 to cover the area of the  
14 Atlantic Coast and then in spring 2008 an additional NRT to  
15 split the Gulf in half, cover the Gulf.

16 Next slide. Mentioned earlier the marine debris mapping.  
17 Three major marine debris mapping projects, one is the Calcasieu  
18 Lake, that was an internal NOAA grant. The Mississippi sound  
19 pilot project was FEMA funding for a half million dollars for  
20 four test areas off the coast of Mississippi. Those were  
21 contracted out to C and C, the Mississippi Sound hurricane  
22 supplemental which I just talked about. The Navigation Services  
23 Division of Coast Survey spearheaded the coordination with the  
24 states of Louisiana, Mississippi and Alabama with public  
25 awareness. So out of this coordination with the local states

1 fisheries resources we identified the areas to be surveyed and  
2 that's shown at the bottom of the slide.

3         Next, NOAA is celebrating its 200th anniversary February  
4 of 2007, 200 years of science, service and stewardship. NOAA is  
5 looking to make this a high level visibility event to have a  
6 major event almost every month during the year of 2007. Some of  
7 the projects that include a documentary, film documentary, some  
8 -- certainly some public awareness campaigns and the  
9 transportation public service announcements in the Washington,  
10 D.C. metro. There's a website that's being developed and  
11 there's many, many other things that will be forthcoming.

12         Next slide. Example of the website. Next slide. And  
13 I'll turn it over to Dave Zilkoski for National Geodetic Survey.

14         MR. ZILKOSKI: Okay. Go ahead, the next one. This is  
15 geodesy budget and just for inside geodesy the shoreline mapping  
16 is also part of the National Geodetic survey but it's separated  
17 out and it was already mentioned by Steve so it's not part of  
18 this but it's another -- makes about \$6 million. But you can  
19 see the geodesy base for '06 when you add it all up, there's  
20 about \$20 million there and then the Senate mark and the House  
21 is still about the same but the bottom line coverage, from the  
22 enacted it goes from \$32 million up to \$22 million for the House  
23 mark and the Senate is -- you can see the one thing on there but  
24 I can't read it. The final number for the -- total of 43,560, I  
25 couldn't see the five because I didn't have it in my copy. But

1 point being there that is there is a significant amount that  
2 deal with the specific earmarks which tailor to the height  
3 modernization and leveling aspect.

4 Next slide. Now I'm going to go through this fairly  
5 quickly but I'm going to talk about four major aspects of the  
6 program, shoreline mapping, height modernization which you saw a  
7 big increase there, some deals with our CORS, Continuous  
8 Operating Reference Station, which are GPS, and some of our user  
9 services that a lot of people aren't familiar with.

10 Next slide please. The shoreline mapping, 11 of the 40  
11 project ports will be evaluated this fiscal year and we'll have  
12 up to 4,000 miles of shoreline updated and we do this process  
13 with some in house as well as contracting out for the imagery  
14 processing as well and as the compilation.

15 Next slide please. In addition to our regular activities  
16 that we do we have been involved with FEMA dealing with the --  
17 after the coastal -- the storms. We've been part of the process  
18 of providing them imagery and we're ready and stand ready to  
19 work with them if some hurricane comes up through this year.  
20 That's part of our emergency response effort that obviously  
21 takes over and replaces some of the activities that may or may  
22 not do if some major storm hits.

23 Next slide please. This is the height modernization  
24 program. As I saw -- as you saw in -- from the difference  
25 between what's enacted and what's in the President's budget and

1 what ends up being in -- from the Senate and the House, we  
2 actually received \$9.9 million to do height modernization and  
3 this diagram gives you a little schematic of where they are and  
4 as you can see a majority of them are on the coast or up in the  
5 Great Lakes. There's a lot of interest for dealing with  
6 accurate heights along the coast and in the round waterways  
7 where most of the people live. So this is where the activity  
8 and the priorities are being produced by -- in the country. And  
9 it's not just using GPS to do it, it is -- some of it is  
10 modernizing and some of the new leveling as well as using  
11 enhanced remote sensing technology to be able to give better  
12 digital elevation models which ultimately is resulting in a  
13 height.

14 Next slide please. This is our schedule where we've gone  
15 out and talked to groups about height modernization to help find  
16 out what their requirements are, what they needed from us, what  
17 we needed from them. It's a partnership program. We work  
18 together on this, the money does come into our budget but it  
19 goes right back out to the community who actually implements the  
20 program. We have the national program of interest of trying to  
21 link all of it together but it actually is implemented locally.

22 Next slide please. Our GPS CORS, Continuous Operating  
23 Reference Stations. This is a partnership program which is,  
24 once again, funded by the locals. We bring the infrastructure  
25 in place where we provide the quality assurance, quality

1 control, data storage and the actual access to the data through  
2 our web process that the user out here puts their own equipment  
3 in, pays their own O and M fees, does everything themselves, all  
4 they do to us is they guarantee that it's going to be up and  
5 running, send the information to us, we QC it and then we put it  
6 out on our web and they can -- anybody can use it. And you can  
7 see it's grown up to 928 stations and they say that by the end  
8 of this fiscal -- or the end of the year we're liable to be up  
9 to about 1,000 stations. And once again, this is not -- most of  
10 this is funded by the outside community, not by us. The other  
11 important part about the CORS is that it supports not only the  
12 navigation and surveyors from positioning but it also supports  
13 the weather community, it helps with water vapor in the  
14 atmosphere and it helps with space, environment and it helps  
15 with the free electrons in the hydrosphere and with marine and  
16 aviation weather instruments.

17 Next slide please. We -- our program has been fairly  
18 successful in we have been -- had a lot of interest on the  
19 outside of trying to help people implement what we're doing  
20 inside the United States. And in Iraq the U.S. military came to  
21 us and asked us to set up a system for them and they are  
22 currently using our system and actually process their data on  
23 our servers for being able to get positions. They installed the  
24 receivers themselves based on our requirements, put them in, the  
25 data gets sent to us as they obtain it. But they are now

1 establishing coordinates in an Iraqi system obviously but --  
2 relative to them but it's part of our process. The Mexican  
3 government also has a significant amount of CORS, not up and  
4 running as much as ours, but have worked with them and we help  
5 them in the process of their infrastructure maintenance because  
6 it's -- a lot of the data that happens on both sides of the  
7 border we want and we try to work with them on that. And South  
8 America is another example of countries that are very interested  
9 in helping trying to get our expertise so we've been working  
10 trying to help them.

11 Next slide please. Geodesy is a fairly small program,  
12 there's 225 employees and we cover the -- not just the coast, we  
13 cover from coast to coast. And we have what's called geodetic  
14 advisors and coordinators and they provide advice, that's what  
15 they're there for. They -- most of them, once again, is -- are  
16 along the coast but they are also inland, we have -- currently  
17 we have 29 advisors and we have what we call state Geodetic  
18 coordinator advisors, and actually Lapine is part of that  
19 program, that they provide a relationship between the two that  
20 we give advice in how to do that and the technical guidance and  
21 they do the implementation. So they bring to the table half of  
22 the resources to accomplish something and we bring to the table  
23 our expertise and guidance on how to do that.

24 Next slide please. We have a program now trying to find  
25 out what the users' needs are. Geodesy has been a partnership

1 program from the beginning. We produce a very, very highly  
2 accurate reference frame that other people use. So for the most  
3 part everybody uses our products, we're the framework, the  
4 foundation for what everybody else uses and starts and builds  
5 from. So we're always asking our users what do you need, what  
6 products and services do you want from us and then what we have  
7 is county by county we're trying to evaluate are we providing  
8 enough models and tools and resources so that that county is --  
9 enable themselves to be positioning and able. Are they able to  
10 do their work using our system, do we need to do more workshops,  
11 do we need to have more models and tools, how do we do that.  
12 And so this county scorecard is that for every county in the  
13 United States we are going to them and getting them to tell us  
14 what their requirements are.

15 Next slide please. We also went out and got a contractor  
16 to look at our website and this a user service website and we've  
17 -- looking on there you can see that there's a government wide  
18 standard -- or government wide measure right now, there's what's  
19 a foresee company wide so that they see and then you got the NGS  
20 NOAA. So they evaluate you on content, functionality, look and  
21 feel, navigation, you can read the rest of them. But the point  
22 being here is we actually went out, got a contractor to ask  
23 these questions and it's still going on now, collecting  
24 information. So they were able to see where do we need to  
25 improve. We're actually not doing too bad which was a little

1 bit of a surprise to me because I'm not real pleased with my own  
2 website and how I get some of the stuff off so I was -- but it  
3 must mean that the rest of the world out there is pretty bad.  
4 So we're still looking at trying to improve our process and what  
5 we're doing and every time we go and do workshops with the  
6 county we're trying to get more specific about what do you like,  
7 what do you want from us and how we can help the process and  
8 move forward.

9 Next is Mike.

10 MR. SZABADOS: Basically just go over this chart real  
11 quick. In 2006 we had increased the National Water Level  
12 Program of roughly \$2.5 million. That was to update the water  
13 level systems to real time. That's underway and I'll get into  
14 that a little. The PORTS Program which was unfortunately cut  
15 from \$3 to about \$1.5 million. In the 2007 the President's  
16 request of \$24.9 includes the \$3 million for PORTS as well as  
17 look at the House and the Senate mark and I can go into that a  
18 little bit later when I talk about the PORTS Program. But  
19 basically overall though the House is roughly \$2.9 million lower  
20 than the House -- that the President's request. And in the  
21 Senate mark there's \$2 million for Great Lakes water level  
22 enhancements as well as tide and current surveys in Alaska for  
23 \$3 million.

24 Next slide. Updating the National Water Level Program.  
25 As I indicated that we had some additional increase in our

1 budget to update real time to the stations. We did 58 of those  
2 in 2006. We also installed nine new tsunami stations, one in  
3 Washington State, four Alaska, two Puerto Rico and two Virgin  
4 Islands. And as well we had enhancements for four additional  
5 stations, two in New Orleans, one in Lake Pontchartrain and one  
6 is underway and planned for Lake Bourne before the end of the  
7 year as well as Chesapeake Bay and Atchafalaya Bay in Louisiana.

8 Next. In the funding for the Alaska -- Alaskan funding  
9 list this year, we're installing 12 Alaskan short term water  
10 level stations in some critical areas where we don't have  
11 sufficient information on tidal dynamics. As well as we got  
12 funding as part of a supplemental to enhance and improve the  
13 damage -- nine Gulf stations that occurred during Katrina and  
14 Rita.

15 Next please. As part of the National Current Program, as  
16 you see here we installed 70 tidal stations, locations in  
17 Southeast Alaska, Penobscot Bay and Hudson River. We also are  
18 undergoing a new program in the Great Lakes. Traditionally our  
19 Current Program was in the salt water where there's tidal  
20 currents. And -- but there was identified a need for current  
21 information in the Great Lakes. This is the -- actually to the  
22 right the Tiahoga (ph) in Cleveland. As you can see the  
23 currents there can be extremely strong and the navigational  
24 challenges of going through what I would call a thread and  
25 needle. It's not just the water level for the draft and the

1 height of the bridge but also managing and -- the vessel under  
2 strong currents whether it's with you or you're going into the  
3 currents. But we have a pilot program in the Great Lakes, two  
4 of them, and that's being funded through the Great Lakes earmark  
5 funding.

6 Next. As far as our traditional updated tidal current  
7 tables, we have a major enhancement to that after -- doing a  
8 current survey actually here in Cook Inlet for the past four  
9 years. We're updating the tables for the Cook Inlet. On the  
10 table out there there's a special publication of what's going to  
11 be coming out in 2007 in our publication. But I want to  
12 highlight that the three reference stations is a great  
13 improvement, especially for Cook Inlet. The original reference  
14 station was Wrangell Narrows Pass which is over 600 miles away.  
15 It's like doing your tidal current predictions in New York  
16 Harbor based on Maine, that's the equivalent. And there's a lot  
17 more work to be done and we're looking forward to doing more  
18 work in Alaska. But 30 stations, new stations or reoccupied  
19 stations are in there, seven subordinate stations for Southeast  
20 Alaska as well.

21 Next one please. In the area of modeling, as Steve  
22 mentioned we transitioned three more Great Lakes models. These  
23 models include not just the water levels but currents and now we  
24 have a total of nine operational forecast models for tides and  
25 currents.

1           Next one please. Okay, the PORTS Program. As I mentioned  
2 earlier, the PORTS funding in 2006 was significantly cut in half  
3 but on a positive note in 2006 with funds -- supplemental  
4 funding with Katrina they've identified four ports to be  
5 implemented with PORTS -- with the supplemental funding, that's  
6 Mobile, Pascagoula Gulf port in New Orleans. We're under right  
7 now a process of working with the local partners to establish  
8 their requirements, matching their requirements with the  
9 resources available. Installation of those ports will start  
10 probably February, March of next year based on procurement of  
11 equipment and basically getting the requirements and the  
12 agreements in place. There are two additional new ports  
13 identified, one for Cherry Point in Washington state and Port  
14 Arthur. These are locally funded port systems.

15           Next one please. One thing I do want to highlight,  
16 there's a lot of accomplishments but one of the highlights and  
17 actually this is a -- was a cooperative program with NGS and CO-  
18 OPS working with the Army Corps after Katrina trying to do an  
19 evaluation of the performance of the levees and -- one of the  
20 things that came out and is a positive thing is that there has  
21 become a recommendation in the study that the standards for  
22 geodetic and tidal data to meet NOAA standards, that the Army  
23 Corps use those in the levee redesign. And actually last week  
24 Army Corps from Mobile District as well as New Orleans was in  
25 Silver Spring working with both our offices on those standards

1 and training.

2           That's it. The -- basically I would also like to  
3 highlight is that also on the table out front is a publication  
4 on a contribution that the CO-OPS did to NOAA's effort on the  
5 hurricane response, the hurricane season response. It's a  
6 publication based on interviews of individuals. We put a lot of  
7 technical reports out on what the storm surge was or how it  
8 benefited the Weather Service in its forecast. But the  
9 publication out back is the story of the people who contributed,  
10 who went in there, it's their personal stories and it's sort of  
11 a different perspective than we normally do and might be -- have  
12 some value, get a better understanding of the program and how we  
13 operate. Thank you.

14           MR. RAINEY: Thanks. Thanks very much. If I could maybe  
15 jump in and ask one question and then open it up. But thanks  
16 Steve and Mike and Dave. One of the things I'm most interested  
17 in from just trying to see how we can interact or what -- help.  
18 But just if I could point to a couple of examples and my  
19 fundamental question is, you know, what are the ramifications of  
20 the budget mark things and the two examples I have question  
21 about is the ENC database and the NRT's. And I don't know if  
22 they're similar situations, you know Mike's talking about the  
23 PORTS funding cut in half. But it seems -- I mean what's the  
24 next -- how does this play out? In other words we got zero  
25 funding on the -- I realize there's a difference in the House

1 and Senate mark and that's kind of a usual occurrence, but it  
2 doesn't seem like it's a satisfactory or a possible answer that  
3 we can now just stop at 550 ENC's, I mean just -- we just can't  
4 end there. I mean it seems like we've made a policy decision  
5 and direction that will -- we're going to build out the official  
6 ENC database and, you know, this is going to be the way forward.  
7 In fact Congress has mandated the Coast Guard to promulgate, you  
8 know, regulations for electronic charting systems, carriage  
9 requirements, there's a lot of things going on that all seem to  
10 point toward the ENC as -- you know, there seems to be a wide  
11 consensus that this is the way forward and yet we get a budget  
12 mark like that. It seems completely sort of inconsistent with  
13 the national policy here of what's trying to be accomplished.  
14 Similarly with the NRT's what we heard in Houston after Katrina,  
15 these are trailable boats and the expenses of these things are  
16 not overwhelming and yet we've got one sitting in a shed because  
17 of lack of funding or something. I'm just wondering what kind  
18 of -- can you talk me through on the program or the NOAA level  
19 on how these -- I understand you don't want to rob Peter to pay  
20 Paul and all that but how does this -- we seem to have a -- you  
21 know, these stated kind of national priorities but it sure seems  
22 like we're taking the hard way to get there. You know, how do  
23 you -- what does -- what can NOAA do or what can we do in our  
24 advice in NOAA to kind of highlight to me what seemed to be very  
25 inconsistent implementation of our, you know, direction on a lot

1 of these programs. I mean do you have any comment on that,  
2 Steve? I mean I -- I understand that if you don't get the  
3 funding there that, you know, you can't keep building new ENC's  
4 because then you have to maintain them and everything. But it's  
5 just an astounding conflict to me in that, you know, we're going  
6 to have this as a carriage requirement, this is our official  
7 national database and yet, you know, the funding is just not  
8 there. I don't understand that inconsistency and how to resolve  
9 that so this doesn't just keep happening to us year after year  
10 after year.

11 MR. ZILKOSKI: Scott, I don't have any information on why  
12 those particular line items were cut. I can tell you that the  
13 -- certainly the reduction in our base and with the elimination  
14 of the money for ENC's that's going to pretty much put a stop to  
15 the production of ENC's. Which doesn't make much sense since  
16 the Coast Guard is getting ready to promulgate regulations for  
17 the carriage of electronic charts. So it could be just an  
18 oversight. Certainly buried also in the production of ENC's is  
19 contract support so it's not just an in house effort. So those  
20 resources are, you know, on the table on what we decide to do  
21 and trying to maintain our production. One thing we don't have  
22 is RIF authority.

23 MR. RAINEY: Andrew.

24 CAPTAIN MCGOVERN: Andrew McGovern. I have a couple of  
25 questions on the different presentations. I guess one's for

1 you, Steve. I'm getting a lot of feedback on the website to  
2 update the ENC's and the fact that it doesn't work very well.  
3 Is there -- are you still working, is that a work in progress  
4 or.....

5 CAPTAIN BARNUM: That is still a work in progress. We're  
6 continuing, we have the update service on the web for updating  
7 the ENC's. We're, you know, trying to adhere to the  
8 international standards but it's a technical issue in progress.  
9 So we continue to work on that problem to make it smoother.

10 CAPTAIN MCGOVERN: Okay, thanks. And I got one other  
11 question. On these CORS sites, it seems like there are GPS  
12 reference stations similar -- how real time are they, the data  
13 that comes.....

14 UNIDENTIFIED MALE: Well, there's a couple of ans --  
15 couple different aspects of that. The data depending on the  
16 partner it can be made near real time, you know, nanosecond type  
17 stuff. But most partners don't want to invest in that  
18 technology so they send it where we collect it on the hour. So  
19 say someone collects their data, they -- every hour we go out  
20 and get it. But it can be set up such that it is real time.  
21 All the Coast Guard sites and the NDGPS sites that we get, the  
22 federal sites, they are real time, that data stream as it's  
23 streamed to the ships that are positioning it's actually  
24 streamed to us and we have it and can turn around and give it  
25 back out again. We are pursuing the method of taking all data

1 that is given to us in the real time and turning around and  
2 giving that back to anybody that wants it in real time. So it  
3 varies depending on the partner.

4 CAPTAIN MCGOVERN: All right. Because I was thinking, I  
5 mean, you know, yeah, the Coast Guard runs their differential  
6 stations and the FAA runs their WAA (ph) stations and then we've  
7 got NOAA -- well, not running CORS stations but then we got  
8 these CORS stations and when we talk about this duplicitous  
9 efforts but this really isn't a duplicitous effort.....

10 UNIDENTIFIED MALE: No.

11 CAPTAIN MCGOVERN: .....this is basically -- you're using  
12 those same stations, they're part of your CORS.....

13 UNIDENTIFIED MALE: We manage it. It's the data that they  
14 do. In other words the FAA and the Coast Guard has put the  
15 stations in but it's actually -- we manage it, we back it up,  
16 it's our data, it comes to us. Once -- they send the correctors  
17 out because it's in real time but the data comes to us so, you  
18 know, it's not -- it's done working jointly together to do it.  
19 So we all have our roles and responsibilities on it so there is  
20 no duplication.

21 CAPTAIN MCGOVERN: Excellent. Okay, thank you. That was  
22 all I had, thanks.

23 MR. RAINEY: Adam.

24 MR. MCBRIDE: Adam McBride. Mike, I noticed that the  
25 supplemental funding included funds for port systems at

1 Pascagoula, Mobile, New Orleans and Gulf port. Can you tell me  
2 how those four ports, what were the criteria that were used in  
3 selecting them or did you make the selection or were they  
4 earmarked in?

5 MR. SZABADOS: They were identified in the language of the  
6 supplemental.

7 MR. MCBRIDE: So they were earmarked in there.

8 MR. SZABADOS: Correct.

9 MR. MCBRIDE: And does the supplemental funding provide  
10 for the installation and operation of those sites?

11 MR. SZABADOS: The installation and operation for one  
12 year.

13 MR. MCBRIDE: And then after that one year some other  
14 mechanism (indiscernible).

15 MR. SZABADOS: They'll address -- that's one thing we're  
16 addressing with the local partners that, you know, in the light  
17 of that no additional federal funding that the partner has a  
18 responsibility to fund their operation.

19 MR. MCBRIDE: Okay. So then there are port sites then in  
20 Tampa, Mobile, Pascagoula, Gulf Port and New Orleans, I realize  
21 those are not in yet, and Houston. Is there one in Corpus? Is  
22 there one in Corpus?

23 MR. SZABADOS: No.

24 MR. MCBRIDE: No. So there's getting to be pretty good  
25 coverage in the Gulf area although there's not -- all the major

1 ports are not done yet. It's somewhat disappointing that the  
2 supplemental -- I realize you didn't write the supplemental, but  
3 it's somewhat disappointing that only some of the ports affected  
4 by the hurricane season last year received this kind of  
5 attention and it's unfortunate that it took this kind of  
6 attention to bring legislators to do this type of thing which  
7 they should be doing at major ports nationwide in any case.  
8 Thank you.

9 MR. RAINEY: Bill Gray.

10 MR. GRAY: I'm not sure it's the right time now, but  
11 Andrew had asked a question about the complaints on electronic  
12 navigational charts. I've seen several articles in  
13 (indiscernible) recently which are kind of waving a red flag  
14 about these things where they're saying we're getting in front  
15 of ourselves and that people do not know how to operate these,  
16 well the integrated systems are different, people aren't  
17 adequately trained and so forth. And in one of these statements  
18 it said, and I don't know whether this is true about the  
19 electronic navigation chart. All too often in the past the IMO  
20 has been acutely embarrassed by mandating new technology only to  
21 be confronted with missed deadlines, malfunctioning equipment  
22 and lack of training. And there are two examples of that  
23 happening, it doesn't happen to be in the charting system, one  
24 of them is oily water separators which don't work the way  
25 they're supposed to and people are getting crucified for it.

1 And the other one is the -- what's the ship called, the Cougar  
2 Ace with the ballast water exchange situation. And I know that  
3 it's been one of NOAA's priorities to move towards an all  
4 electronic chart system, I know IMO is going to take this up I  
5 think next summer is the next time that they really come back to  
6 it. But I think there are people that are worried that there  
7 are differences, that people don't understand them, that the  
8 people are not correctly trained on them and so forth or set up  
9 their own way of doing so and is this something that we should  
10 study more as -- and when you get the money to make more  
11 electronic charts. I'm not very convinced that this is the  
12 right way to go.

13 CAPTAIN BARNUM: The -- our goal in NOAA is to produce --  
14 continue to produce paper charts, the raster nautical charts  
15 which are a image of the paper charts and these electronic  
16 navigational charts. We are in concert with the -- through the  
17 IHO trying to produce a chart system. As far as the suitability  
18 in the systems, that's a different standard that's developed and  
19 I agree, I think there's some issues there on the training and  
20 the education of the mariner on how to interpret and use the  
21 data effectively.

22 MR. WHITING: Thank you, Captain. Larry Whiting. I was  
23 wondering about the planned coverage for the NRT's in Alaska and  
24 Hawaii. No mission?

25 CAPTAIN BARNUM: There's certainly a concern there that

1 the -- a concern with Hawaii and Alaska. We're talking about  
2 huge areas and you can't really trailer the boat through those  
3 areas. It's a -- it's something that we've thought about and we  
4 have not implemented yet. It's not an easy solution. Certainly  
5 we've talked about having an NRT that could be put into a C-130  
6 if need be. Coast Guard is interested in that and we continue  
7 to pursue that idea.

8 MR. OSWALD: I just wanted to make a comment. These  
9 natural disasters are pretty good for budgets. December 26,  
10 2004 there was that earthquake in Aceh, Indonesia. As a direct  
11 result of that there was supplemental last year that came down  
12 that was spread quite a few places in NOAA, I'm not sure how  
13 many places. But National Weather Service and CO-OPS received  
14 money and as a result of that our NWLON System in Alaska in 19 -  
15 - in 2004 was 17 sites, six sites were built with that money in  
16 one -- well, year and a half basically, a year and a half. In  
17 addition six sites are op -- being built or one was previously  
18 built by the other part of NOAA, National Weather Service. I  
19 would like to see those sites integrated. It's all part of the  
20 -- you know, tearing down the stovepipe but they currently are  
21 only partially integrated. The National Weather Service accepts  
22 CO-OPS data but the other way doesn't -- that part is broken in  
23 my view. That's just a comment, but it was good, I mean we have  
24 more stations so that's good.

25 Another unrelated comment maybe directed to Steve is the

1 contract -- I guess it's called survey backlog line item in the  
2 budget came about about 1997 or '98 and Larry would remember, I  
3 don't remember. It started out at somewhere between \$4 and \$6  
4 million, something in that range. It's been built to in the  
5 last few years \$18 to \$20 million, last year it was about \$20.5.  
6 And in the President's request in 2000 -- I always have to think  
7 about this, 2006 and 2007 it was recommended, the President  
8 which is the admin -- your request or your predecessor, \$30  
9 million. So if it's \$30 million it's a -- obviously a -- I  
10 guess is that defined then as base so would that go ahead as --  
11 if it passed this year would it be base for 2008? Or maybe -- I  
12 guess that can't be discussed here in this meeting but what is  
13 some of the rationale for going from \$20 to \$30 and where did  
14 that money come from?

15 MR. SZABADOS: The rationale from going \$20 to \$30, you  
16 probably remember a couple years ago when they had the vessel  
17 time charter about \$10 million and that had some implementation  
18 issues of its own on -- to effectively implement it. And what  
19 we have asked is to have that money put in or combined with  
20 address survey backlog which gives us a flexibility of working  
21 with our IDIQ contractors to let them develop the best technical  
22 approach on providing survey contract data. We feel it gives us  
23 much more flexibility in addressing the survey concerns of our  
24 coast. So that's how it went from the \$20 million to the \$30,  
25 that jump.

1           MR. DASLER: Jon, I'd like to comment on -- regarding the  
2 tsunami stations. Working with the National Weather Service,  
3 NOS is working with the Weather Service on national -- with  
4 National Data Buoy Center who has some (indiscernible) gauges to  
5 establish standards and we are trying to work with them to --  
6 for us to utilize that information it has to have certain  
7 metadata and certain other information. And as far as the  
8 tsunami stations we are looking forward to working and getting  
9 those standards. But again, we need to have those certain  
10 metadata to incorporate it.

11           UNIDENTIFIED MALE: Yeah, I think it's not only the  
12 tsunami stations, I know the Columbia River too there's a lot of  
13 co-located sites where CO-OPS has stations co-located with the  
14 Weather Service and if a lot of that could be -- if that could  
15 be coordinated you could overcome the metadata issue. I mean  
16 that could be another use of using the data -- you know, collect  
17 it once, you know, use it for a lot of other resources.

18           MR. DASLER: Columbia River is another area actually we're  
19 working very closely and looking forward to getting that  
20 information so we can include it. We actually have a port  
21 system in the Columbia River and we're looking to integrate  
22 those water level stations as part of ports. Once we get that  
23 metadata and those standards we can do that.

24           MR. ZILKOSKI: On a -- Dave Zilkoski, on a bigger scale  
25 that we're looking across all of NOAA for the -- this is part of

1 the Integrated Ocean Observing System process of integration,  
2 interoperability. So what Mike's talking about is all this  
3 information needs to be in certain formats and specifics so that  
4 we can share the data back and forth. So we're looking at this  
5 as not just site by site but overall change the way the process  
6 works program by program so that we don't say the Columbia  
7 River, we don't say Alaska, it's this is how you do business and  
8 at the end of the fiscal year where are you in your process of  
9 making these interoperable so that Weather Service, CO-OPS are  
10 interop -- just an example, interoperable so that we're changing  
11 the way we do business.

12 UNIDENTIFIED MALE: (Indiscernible - away from microphone)  
13 second just to address John's question. A lot of programs in  
14 NOAA, more specifically in NOS and to some extent in OAR are --  
15 start out as Congressionally earmarked programs and once they  
16 essentially become operational programs after two or three years  
17 NOAA generally makes a good faith effort and sometimes, as in  
18 the case of the address survey backlog line item is actually  
19 successful in convincing OMB to make that a base program. And  
20 unfortunately in other programs like PORTS that just doesn't  
21 work but that's how Congress started that line item and after  
22 several years of trying NOAA was successful in getting that  
23 incorporated in. And I think everyone looked at that time  
24 charter as essentially part of that contractor line item. So.

25 UNIDENTIFIED MALE: In the Hydrographic Service

1 Improvement Act for 2007 I think they have it at \$50 million for  
2 that contract, for the survey backlog. Just to clarify.

3 MR. RAINEY: I know Lou wanted to get in, probably need to  
4 move to the next session.

5 DR. LAPINE: Okay. Just a quick thing, follow up to what  
6 Andy said about CORS sites. Seven of our sites in South  
7 Carolina feed the data hourly to NGS but they also run real  
8 time. If you have a cellular phone that's capable of  
9 transmitting digital data you can get the data in real time from  
10 our servers and with a survey grade receiver that means  
11 centimeter accuracy in real time. It's worked so well our DOT  
12 is going to help us put in 40 more sites, Dave, all real time  
13 which will mean anywhere in the state 24, seven you'll have  
14 centimeter level accuracy. SC DOT is going to automate road  
15 construction, the antenna will be on the blade of the bulldozer,  
16 be driven by a geographic information system in the cab, think  
17 about ships now, and they'll actually be able to do everything  
18 but the blue stone level grading fully automatic off of this  
19 network. So I'm thinking ships coming into Charleston Harbor  
20 are coming up the Savannah River, how we can use this same  
21 system.

22 MR. RAINEY: Thanks. All right, Tom, you got the last  
23 word on this.

24 MR. SKINNER: Well -- this is Tom Skinner, this is not the  
25 last word in that sense. This is actually something, just a

1 random question that I was thinking of. And Mike or Dave, I  
2 assume a lot of the stations are connected to either bridges or  
3 -- is that accurate? I mean on the pil -- on -- what's -- how  
4 do they physically -- on the port system how do they  
5 physically.....

6 MR. SZABADOS: Depending on the type of sensor. It could  
7 be on a buoy, it could be bottom mounted -- you're talking about  
8 water levels or currents or air gap? Different type of sensors,  
9 so.

10 MR. SKINNER: Just generally. I guess I was getting to  
11 the funding shortfall and at least in Massachusetts when there's  
12 any kind of a project there's always some -- like a highway  
13 bridge project there's always some sort of mitigation. I was  
14 just thinking should we be thinking along the lines of -- and  
15 maybe there's a way to help trying to fund the program whenever  
16 there's a bridge reconstruction type of project. Dave and I  
17 were talking about the importance of a partnership, if you can  
18 get the infrastructure paid for then it's a lot easier to try  
19 and theoretically anyway find some local and state partners to  
20 actually fund an expanded system.

21 MR. SZABADOS: Actually that is some of the strategy used  
22 by the local partner. Tampa Bay, for example, goes to the  
23 county, to the different counties for certain parts of -- and  
24 get that support for different parts of the program in -- for  
25 different purposes and the end result is the port system though.

1 So that is a strategy being used.

2 MR. SKINNER: Okay. Great, thank you.

3 MR. RAINEY: All right. Well, I'd like to then have  
4 Captain Barnum go ahead and continue and just talk about some of  
5 the -- just sort of a follow up feedback on our -- some of our  
6 previous recommendations then we can keep going with some of the  
7 discussions, how they relate back to the program.

8 CAPTAIN BARNUM: Okay, I'm going to give a update on some  
9 of the Hydrographic Surveys' reviews, recommendations. First is  
10 the NOS mapping and charting contracting policy expansion  
11 strategy. This is a question in '05. The HS Hydrographic  
12 Surveys Review Panel was part of this process and the intent was  
13 the port was for NOS to work with the private mapping community  
14 to develop a strategy for expanding contracting with private  
15 entities to minimize duplication and take maximum advantage of  
16 private sector capabilities.

17 The Coast Survey issued a Federal Register Notice for  
18 Comments on the existing 1996 contracting policy for surveying  
19 and mapping services. Comments were received generally  
20 supportive of the existing policy and NOAA's implementation of  
21 it with some suggestions for improvement. The Coast Survey  
22 consulted at meetings again, such as the HSRP, factoring both  
23 panel recommendations and public comments. The draft policy was  
24 submitted again for a second time in the Federal Register and  
25 then the -- and responses incorporated and finally published in

1 the final policy.

2 Next slide. These recommendations of NOAA continued use  
3 and mix of in house resources -- of in house resources and  
4 contract resources for hydrographic services. NOAA should  
5 continue to work collaboratively with private sector and NOAA  
6 should maintain its necessary core operational expertise. These  
7 are all worked into the contract policy. And we will continue  
8 to closely monitor costs and performance.

9 Next slide. Mapping and charting, again on the contract  
10 policy. These recommendations are still a work in progress.  
11 That NOAA should use its operational expertise to define and  
12 defend resources, NOAA should complete its NOAA fleet analysis  
13 of alternatives and NOAA should determine the optimal resource  
14 allocation between in house and contracting resources. One  
15 hydrographic program, managing NOAA's collection of hydro data  
16 using in house and the contract assets has been tagged as a NOAA  
17 major project. So within the NOAA the NOAA hydro -- major hydro  
18 project is one of the 13 major projects which are being overseen  
19 by NOAA's senior leadership. This entails developing a strong  
20 justification for total required program, the 100 percent  
21 requirement and the requirements PPBES process, the lingo, with  
22 the current program monthly reporting on cost schedule and  
23 performance data. The designation as a major project requires  
24 management approval at key decision points which for the major  
25 hydro project means following a chain of steps to identify

1 resources needed for core capability and optimal resource  
2 allocation to get NOAA buy in on the end result. The management  
3 team working on the project is using a goal of 10,000 square  
4 nautical miles each year as a desired end state. Right now we  
5 do about 3,000 square nautical miles. This puts the 500 square  
6 nautical miles of the U.S. EEZ on a 50 year resurvey cycle.

7       Next slide. On the HSRP recommendation that core  
8 hydrographic services capability should include, but is not  
9 limited to, the technical staff with the highest level of  
10 expertise to perform and advise NOAA's in house of hydrographic,  
11 services a national system of geodetic control, water level and  
12 current monitoring stations for real time physical and  
13 oceanographic information, a National Integrated Ocean Observing  
14 System, coordinated research and development and legal and  
15 contracting staff experienced in contracting hydrographic  
16 services. We concur with this recommendation. It is broader  
17 than the major hydro project that I just discussed but covers  
18 all our navigation services components. It's also important to  
19 note that the suite of observations is and will be part of the  
20 National Integrated Ocean Observation System.

21       Next slide. NOAA should seek additional funding for  
22 contractual services to reduce the backlog of critical and high  
23 priority hydrographic surveying needs. From our program  
24 perspective we definitely concur with this recommendation. Our  
25 out year budgets do include additional funding for contracts,

1 but as you understand from this morning's discussion on PPBES  
2 what ends up on our final budget request each year is likely not  
3 NOAA's preferred budget. There's several hurdles that NOAA has  
4 to through before the final budget arrives at the Congress. We  
5 will continue to put our energy in increasing funds for  
6 surveying and related activities to narrow the gap.

7       Next slide. Hydrographic survey cost analysis.  
8 Insufficient funds, staffing to conduct the cost analysis as  
9 proposed in May 2005. The new proposal to conduct abbreviated  
10 annual cost analysis beginning in '05. Basically the work --  
11 the recommendation from the HSRP from 2005 was to define a  
12 detailed analysis going back to 1998, over 500 surveys to be  
13 looked at. It turned out to be a lot bigger job than we could  
14 -- and required much more information than we could capture to  
15 come up with a comparison. So what we are offering is to go  
16 back, we want to collect from day forward from '05 and '06 and  
17 day forward to describe 10 geographic regions, collect for data  
18 acquisition only and capture the fully loaded cost of which we  
19 can then compare and make the decision of what's the most  
20 efficient mix of in house and outsource resources.

21       We were -- the purporting units will cost per square  
22 nautical mile and per linear mile of hydrography and will again  
23 include all direct and indirect costs. The cost for in house  
24 surveys will include salaries and benefits including retirement  
25 for all personnel, travel, repairs, contract supplies and

1 equipment. Survey techniques used to conduct the survey will be  
2 included in the data as well as general descriptions of the  
3 project area.

4 So we're proposing that we look at 10 different area that  
5 capture 10 different levels of complexity that range from the  
6 Atlantic Coast, which is generally over the north of Long  
7 Island, generally rocky rugged; Atlantic Coast south of Long  
8 Island, generally sandy; Gulf of Mexico, sandy sloping sea  
9 floor; west coast, Alaska which has a variety of challenges  
10 which range from generally steep deep seafloor with somewhat  
11 protective waters to generally rocky coast and seafloor shallow  
12 areas; Cook Inlet, such as here in Alaska which is relatively  
13 shallow muddy bottom with high currents. So looking at 10  
14 different areas around the country that can better capture the  
15 various scales and level of complexity of hydrographic surveys  
16 of which we can then compare the cost analysis.

17 Next slide. And I'll turn it over to Dave for the IOOS.

18 MR. ZILKOSKI: (Indiscernible - away from microphone).  
19 That's better, sorry. There's some recommendations made about  
20 IOOS and so I'd just summarize the top -- further development,  
21 expansion of observing programs and other uses for IOOS. But on  
22 your handout it has -- the bottom part gives the full  
23 description of it. But NOAA supports the expansion of the  
24 relative programs and you've been hearing with Steve and Mike  
25 and myself talk about that already. NOAA also will work with

1 other agencies through what's called the Interagency Working  
2 Group on Ocean Observations, better known as IWGOO. But to  
3 address the navigation needs there's a lot of other agencies on  
4 there so we're trying to lead the way and work with him. And  
5 we'll work with Ocean.US, the National Federal of Regional  
6 Associations as well as the individual regional associations to  
7 augment mechanisms to obtain specific regional requirements.  
8 There's a lot of Integrated Ocean Observing System going on and  
9 we're trying to work with the agencies, both federal, state and  
10 local, to be able to optimize how it's used in the navigation  
11 community.

12 Next slide please. There was another recommendation for  
13 providing sufficient funding for IOOS to support navigational  
14 needs and -- mention water levels and wind, direct speed,  
15 vertical clearances, et cetera. We're developing a life cycle  
16 estimate for IOOS that will address the maritime operations.  
17 It's all of the societal goals, it's not just maritime but we  
18 can't look at it individually but we are looking at the entire  
19 IOOS conceptual design. We have two contractors that we have  
20 hired to give us recommendations and -- which are due at the end  
21 of this month so the end of next month we will have a plan ahead  
22 of how we're -- and what that means in terms of the actual cost  
23 and how we would work through it. We're also coordinating with  
24 Ocean.US and the integrated working group, ocean obs agencies  
25 also because they are part of this process. Because IOOS is not

1 just NOAA, IOOS is the Interagency Working Group, our  
2 interagency set of -- group. NOAA's IOOS plans will continue to  
3 support the funding for critical navigation services as they  
4 have in the past and they are mentioned and they are highlighted  
5 whenever we get together with Ocean.US as well as the agencies.

6 Next slide please. The third recommendation dealt with  
7 development of a national IOOS development plan and supporting  
8 NOAA as the lead agency. NOAA has been named the lead of the  
9 Interagency Working Group on Ocean Obs, IWGOO, so we will take  
10 that role very seriously. We provided input into the IOOS  
11 development plan and every year or every two years that's  
12 updated so we are always working with the other agencies and the  
13 outside world to be able to get NOAA's mission through to --  
14 needs and requirements to those which includes a lot of the  
15 navigation obviously. Through the Interagency Working Group we  
16 will continue to coordinate with the other agencies and the fact  
17 that we have been named the lead of that group is helpful  
18 because it will allow us to be able to chair the meeting with  
19 bringing them the group -- help them with the agenda but working  
20 and moving things forward, trying to still get consensus but  
21 we're able to be able to move it forward. That's a good thing.

22 The Senate mark, as you saw, requests -- of the programs  
23 requests some IOOS strategic plan. That's something that once  
24 it goes to conference we're not sure where we'll stand because  
25 the House didn't say much about IOOS at all. But we will --

1 inside NOAA we'll be looking for trying to do these type of  
2 actions that the Senate's asked us to do regardless if it's  
3 officially documented that we have to do it or not. We're  
4 pursuing that road anyways assuming that we're going to have to  
5 do it but we'll -- we need to work and built a strategic plan  
6 and implementation plan so we can move forward.

7 And NOAA supports the funding for the IOOS systems through  
8 our NOAA goals and program structure. And I think you've heard  
9 a lot from Steve on that, you've seen some stuff that Mike has  
10 put up about the programs and myself. So we're part of the goal  
11 structure as well as part of the program structure. All of  
12 these programs are listed and pushed through that. And IOOS  
13 tries to highlight those issues when asked. And in our process  
14 we will have this opportunity in the near future to discuss this  
15 with the program planning integration staff of what are -- what  
16 do we think are important in terms of IOOS. I think that's it.  
17 Yeah.

18 MR. RAINEY: Okay, thanks very much. I really on -- you  
19 know, on behalf of the whole panel like to really thank you for  
20 putting that together. I mean I think that's a wonderful chance  
21 to get feedback on our recommendations, you know, some of them  
22 as we pass them up and just to -- to know kind of how they're  
23 received and what your thoughts are regarding our advice. Can I  
24 open it up then if folks have questions about that or if we --  
25 any other questions or comments on that presentation?

1           Okay. All right. Well, let's -- what I'd like to do then  
2 is propose we go ahead and take our break and I -- before we  
3 break I'd like to -- we wanted to make sure we had time for  
4 public comment and so we've scheduled several times. If -- when  
5 we come back if folks have some -- if anyone would like to make  
6 some public comments we'd very much appreciate it. We've got a  
7 panel scheduled tomorrow and some time today. So if you could  
8 let me know or sign up and indicate when we reconvene then we'll  
9 open it up if there's some public comments and then we'll keep  
10 proceeding with the meeting on some other presentations. So  
11 let's take a -- say a 10 minute break. Thanks.

12           (Off record at 2:37 p.m.)

13           (On record at 3:04 p.m.)

14           CAPTAIN BARNUM: Welcome back everybody. We're going to  
15 continue with our agenda. Next on the list is public comment.  
16 This is the opportunity for the public to come and speak to the  
17 panel. I ask the folks that come up to please state your name  
18 and the organization for the record. We -- in an effort to  
19 reach out to all our constituencies we moved the location of the  
20 Hydrographic Services Review Panel to different physical or  
21 geographic locations around the country and this opportunity is  
22 for Alaska. So, again, we're pleased to be here and look  
23 forward to hearing from -- the comments from the public. So  
24 with that if we have any folks in the public who'd like to come  
25 forward do so at this time.

1 UNIDENTIFIED MALE: (Indiscernible - away from  
2 microphone).

3 CAPTAIN PAWLOWSKI: Good day, I'm Captain Bob Pawlowski,  
4 NOAA retired and a member of the Nautical Institute. At this  
5 time I'll -- today I'll be speaking on behalf of my position  
6 with the University of Alaska, Anchorage as an adjunct professor  
7 of hydrographic surveying and coastal measurement and analysis  
8 in the School of Engineering. And I would like to talk about  
9 hydrographic surveying and the importance of having an Alaska  
10 based education program in training hands for going into the  
11 hydrographic surveying industry.

12 It was really nice to see John Rayfield make his comments.  
13 I was the navigation advisor up here in '96 to '99 during the  
14 time when the Hydrographic Services Improvement Act came  
15 through. And one of the things John looked out as well as Don  
16 Young's special assistant, Bill Sharrow, and said and we are  
17 going to train Alaskans. And to that end John Oswald and Tom  
18 Newman and Larry and myself and Orson Smith over at the  
19 University all got together and we created a one semester  
20 program to try to simply develop hands that we could put  
21 through. It's a -- was a 490 level course, it's continued on.  
22 But what it -- it was also joined as I retired out and became  
23 the senior instructor or the professor of record, was also  
24 joined on by Doug Baird, Commander Baird, and by Jennifer  
25 Dowling in bringing in the continuation of what NOAA was doing

1 both in the hydrographic side but also in the geodetic control  
2 side. It was also -- the last part was also joined in  
3 throughout -- with the U.S. Army Corps of Engineers, Andrew  
4 Brewer, to bring in specifically the cost estimating side and  
5 the understanding of what is in chapter 22 of the hydro  
6 engineering manual, Brooks Act, IDIQ, all of these details that  
7 are fundamental in training people to go and work in the  
8 hydrographic field.

9 As the members of the panel can appreciate, the demands  
10 for hydrography and hydrographic surveying and hydrographic  
11 services in Alaska Range from coastal construction and erosion  
12 mitigation through navigation projects and nautical charting to  
13 surveying the seabed for marine habitat, habitat areas,  
14 particular concern marine protected areas, et cetera, lots of  
15 stuff in line. What we try to do in this course is simply  
16 provide the students with an online, in class lectures and field  
17 opportunities so they really understand what the language is,  
18 the terminology, what the expectations are and, more  
19 importantly, what information is already available online so  
20 they can pre-plan a survey. This is where a lot of advancements  
21 has come up with ENC's, putting digital datasets whether they're  
22 through the Corps of Engineers, whether they're through NOAA and  
23 NODC, local community as-built or digital ortho photoquads, road  
24 diagrams. It enables them to bring it all together and pre-  
25 assess what the area looks like as a survey and what the present

1 condition of the survey is. Modern geomantics tools and GIS  
2 tools allow them to spin it, to do cross sections, et cetera.  
3 But the important thing is it takes them on one side through  
4 data mining so they understand a survey but on the other side it  
5 takes them into actually knowing the terminology, the standards,  
6 quality control and total propagated error.

7 I wanted to really follow on what John Rayfield said on  
8 the importance of bringing the Corps of Engineers together with  
9 NOAA, with IHO, trying to -- and USGS, trying to get one setup  
10 here. A student taking a serious look at hydro is going to pull  
11 down about 350 megs of PDF's and manuals. When -- this here I'm  
12 expanding it up to add the IHO manual 13 but when you take the  
13 Army Corps of Engineers hydro engineering manual, you want to go  
14 into special sides off of that you can add the coastal  
15 engineering manual, you take all of the stuff that is available  
16 and critical control and for GPS and controls stations comes in,  
17 when you bring in tides and all of the tide modeling and data,  
18 you bring in the practical chart, you start really putting into  
19 a lot of information out there. When you teach the students you  
20 realize you take them from fresh water, seasonal levels through  
21 locks, very tight centimeter construction level surveying down  
22 into the coastal plus or minus five meters plus five percent,  
23 bring them throughout the different standards. It's a whole  
24 progression that they have to learn how to quality control it.  
25 Any steps that can go to bring a consistency between the

1 different agencies is going to help us who are training students  
2 to try to bring them out in the field so when they go to NOAA to  
3 do hydrography they understand NOAA, when they go to the Corps  
4 of Engineers to do hydrography they understand there may be a  
5 totally different set of standards, particularly in  
6 construction.

7 I asked the HSRP to actually look at opportunities to --  
8 for further collaboration between the University of Alaska and  
9 its schools and the different schools teaching hydrography or  
10 having research projects available in hydrographic surveying and  
11 hydrographic services. I presently work for a nonprofit  
12 foundation so I look at the NOAA grants in detail. I can assure  
13 you that there was almost nothing available in preparing  
14 hydrographers to work in the field through training under the  
15 present grants program, something that would be very helpful and  
16 it's very difficult for a small university to start up a  
17 program, but is doing it. We have -- because of affiliations  
18 with the industry we have a very good survey lab that Trimble  
19 has supported. We branched in and have a photogrammetry lab  
20 that aerometric has supported. We turn around and I'm asking to  
21 look and see what we can do to build up a hydrographic services  
22 lab that would be conjunction between the industry that's  
23 addressing the backlog up here and NOAA as an opportunity.

24 That's basically it for looking at the University. I want  
25 to follow on, as a last part, I also serve as an advisor to the

1 maritime and fishery program at the Alaska Vocational Technical  
2 Center. The program offers U.S. Coast Guard licensing and on  
3 behalf of the Department of Labor. In Seward they have a four  
4 pilot house full mission marine simulator ranging from the  
5 ability to have bridge resource management to multiple person  
6 pilot house to single person pilot houses, various sizes. This  
7 kind of test bed is available to do the challenges and meet the  
8 challenges that Bill Gray was talking about in working with  
9 ENC's, working with ECDIS and bringing it together. I think  
10 it's very important as we look at licensing mariners and being a  
11 master myself I really appreciate having the ability to put  
12 people using the modern technologies in a stressful situation  
13 and seeing how they react when they are in charge of a bridge  
14 watch, when they have the house to themselves, et cetera. One  
15 pilot house will give you a very good simulation of how to work  
16 with the tools. Four pilot houses interacting will give you a  
17 very good example of what is the confusing facts that are going  
18 on with the systems. I share it because as a member of the  
19 Nautical Institute if you go through seaways you will see there  
20 is a constant question going on of how as a master can I insure  
21 that the people know what are these new tools and what are the  
22 positives about them and what are the negatives about them.

23           So with that I thank you for coming to Alaska. I  
24 appreciate your efforts in understanding not just what we need  
25 in hydrographic services but also how we can -- what we really

1 need in getting the hands into this field that up until a decade  
2 ago was a very, very narrow field of job opportunities. It's  
3 greatly improved and it's greatly improved because of the  
4 Hydrographic Services Act, it's greatly improved because of the  
5 industry and the public represented here. If I can answer any  
6 questions. Thank you.

7 UNIDENTIFIED MALE: Adam McBride.

8 MR. MCBRIDE: Thank you. I just have a question  
9 concerning -- and Andy, you probably know this as well, but  
10 where can students in the United States take a course in  
11 hydrographic services, where would one undertake that course of  
12 study?

13 CAPTAIN PAWLOWSKI: You can take a full course of study  
14 down in the University of Southern Mississippi, I believe  
15 Florida Institute has.....

16 UNIDENTIFIED MALE: Not a full course.

17 CAPTAIN PAWLOWSKI: Not a full course. I know of very few  
18 courses in it. I have worked very hard to just try to pull it  
19 into a one semester which is welcome to a fire hose. You know,  
20 but I mean that's just kind of part of it. But they at least  
21 leave knowing where the technical manuals are and the questions  
22 they should be asking when they go into the field. So.....

23 MR. MCBRIDE: Well, then perhaps I could ask Larry. I  
24 mean from the private sector point of view where do you find the  
25 folks that -- I mean is this all OJT that teaches you the job?

1 MR. WHITING: I think that's probably where we all learned  
2 it. I used a lot of those students and I think that Tom and -  
3 or TerraSond still use a lot of the students that are going  
4 through this course. There's -- probably the backbone of our  
5 surveyors have gone through that course now. And it helps but  
6 it's only a start, they -- and it's OJT, you know, like he said.  
7 And I don't know if the University of New Brunswick has a  
8 complete course, I don't know. Some of the gals -- one of the  
9 gals that worked for us for awhile went on to England to get her  
10 masters degree in hydrography. So it starts there but it sure  
11 doesn't end there.

12 MR. OSWALD: I'll just -- a point of contact from -- point  
13 of reference from the private sector. We've been hiring people  
14 out of the -- there's two universities in this town, private  
15 university APU. I've had a very successful employee from there  
16 with a natural science, they've basically got the science part  
17 and they did the on the job training, got excited, he's headed  
18 to Andy's shop here this week to pursue a masters in ocean  
19 mapping. I'm actually going to branch out instead of recruiting  
20 from surveying schools and the natural science, start looking at  
21 the broader picture, the oceanography institutes in this  
22 country. So that's what -- there is no core, you don't get a  
23 hydrographic surveying undergraduate degree in this -- other  
24 countries you do.

25 CAPTAIN ARMSTRONG: Yeah, Andy Armstrong. I just -- just

1 for a summary of the training that's available. As Bob said,  
2 the University of Southern Mississippi has a masters degree  
3 program in hydrographic sciences. University of New Hampshire  
4 has a master program in ocean mapping which is essentially the  
5 same thing, just different names. Bob has the course in -- at  
6 University of Alaska here, there are a couple courses at Florida  
7 Institute of Technology and that's it in the United States. The  
8 University of New Brunswick in Canada and -- there's a --  
9 there's some vocational training in Quebec but there's very  
10 little and really none at the undergraduate level.

11 CAPTAIN HICKMAN: (Indiscernible - away from microphone).

12 MR. PAWLOWSKI: The simulator is down in Seward at the  
13 Alaska Vocational Technical Center. And it's under the  
14 Department of Labor.

15 MR. DASLER: Bob, I just -- I think it's great that you  
16 guys were able to get a program started up here. I mean as -- I  
17 guess it's quite obvious that there's a real need in the United  
18 States for programs like this and getting an undergraduate  
19 program going. And I think whatever the Hydrographic Services  
20 Review Panel can do to help support this. I mean even NOAA too,  
21 I mean a lot of their people it's on the job training, get them  
22 out of the sciences programs and that kind of thing. But  
23 there's a real need in the nation for programs like that and  
24 support of those kind of programs and I think we'll do what we  
25 can to offer the support to get a program like that running. I

1 think you're going to be hard pressed though to try to get all  
2 of the agencies to agree on levels of accuracies and that kind  
3 of thing and then they're probably going to have to keep  
4 drinking from the hose.

5 MR. PAWLOWSKI: Well, but it's nice the agencies -- thank  
6 you, Jon. It's nice the agencies have stepped forward to at  
7 least put all their standards online, all their technical  
8 manuals online, it's very easy for -- to lead the students  
9 through. As for support, we really appreciated the opportunity  
10 to meet with Captain Barnum and Commander Glang and Jerry Mills  
11 on Friday in D.C. to specifically talk about what was going on  
12 and what were some of the softwares and other things that are  
13 needed to keep a successful course because this is a growing  
14 industry, we want to see hands go into it and we want to see  
15 hands come out of the course and go through Jon's work, to go to  
16 Andy's school and to see them go into Larry's shop to go out in  
17 the field, to come -- as TJ does to come back to my class to  
18 teach cerus. These are all interactive things that are the  
19 ground breaking stuff. Thank you very much.

20 UNIDENTIFIED MALE: Thank you.

21 MS. LAHAY (PH): Hello, Jonna LaHay (ph) with Fugro  
22 Palagros (ph). As we're speaking about education one thing that  
23 I did want to bring up is that the hydrographic -- I'm here  
24 representing myself and also the Hydrographic Society of  
25 America. I'm the student outreach coordinator for that society

1 and in 2003 we began an outreach to undergraduate students to  
2 educate them about hydrography, the field. We bring students to  
3 the annual con -- well, biannual conference and what we do is we  
4 set them up with a conference registration and we provide  
5 housing for them. The University of New Hampshire and  
6 University of Southern Mississippi sponsor a student luncheon  
7 where they learn about hydrography, the basics of hydrography,  
8 just a general overview. They learn about opportunities for  
9 employment with NOAA, with the U.S. Corps -- Army Corps of  
10 Engineers and with NAVO and they also learn about -- they're  
11 able to interact with some corporate sponsors that we have. And  
12 this is something that we've done -- we did it -- 2003 we had  
13 three students, we did it again in 2005 and had 10 students and  
14 we're planning on doing it again in 2007. It's something that  
15 the Hydrographic Society of America has supported and it's  
16 something that we plan on continuing to pursue to involve  
17 students who are in geodetics and geomatics and surveying and  
18 engineering. Because like they said, there aren't any  
19 hydrography education programs in the undergraduate level so  
20 we're trying to reach out to let students know that there are  
21 opportunities out there, this is a field that you can get a job  
22 in and it's a very exciting field. And that's just basically  
23 what I wanted to say since we were discussing education.

24 MR. RAINEY: Any questions?

25 MS. LAHAY (PH): Thank you.

1           MR. RAINEY: Thanks for that. We had a opportunity to  
2 meet in San Diego, kind of a piggyback in conjunction with that,  
3 and I -- and Jon, is that -- we had some discussions in San  
4 Diego. Aren't you working on -- is what you're involved with in  
5 some of the certification and things, is that through HSOA  
6 or.....

7           MR. DASLER: Yeah. Well, ACSM has a program for  
8 certifying.....

9           MR. RAINEY: Okay.

10          MR. DASLER: .....hydrographers but it's still not an  
11 education process. They have like some seminars and there's  
12 , some education, some of the funding comes from the Hydrographic  
13 Society of America. But the need for the education is -- I mean  
14 it's -- a lot of the people -- I mean we've hired people out of  
15 geomatics kind of the same -- like John was talking about, you  
16 have to get them out of geomatics programs or out of University  
17 of New Brunswick. I mean it's just really hard to find anybody.  
18 And the ACSM program is really trying to -- is more just for  
19 certification and not education. But there's just a really  
20 strong need for that in the U.S.

21          MR. RAINEY: Okay, thanks.

22          MR. VOSE: Good afternoon, my name is Larry Vose, I'm with  
23 the Southeast Alaska Pilots Association, one of 41 pilots  
24 working down in Southeast. And I just wanted to take a couple  
25 minutes, number one, to say how much we really appreciate the

1 end products that are put out by all the folks that are involved  
2 here. Number one, we use them daily, we rely on them daily, we  
3 don't take them for granted and -- so, number one, just to say  
4 thank you for that. Number two, I wanted to echo the sentiments  
5 that were being discussed with regards to the ENC's,  
6 particularly with the training issues and not getting too far  
7 ahead of ourselves and rolling those things out. I see it every  
8 day with the technology on the ships and the lack of  
9 understanding of how some of that technology works. And  
10 inevitably the law of unattended consequences and how it leads  
11 to technology, assisted accidents and near misses and so forth.  
12 And so I just wanted to take this moment to really echo that --  
13 the opinions that were expressed earlier. The Southeast Alaska  
14 Pilots, we moved about 35 million gross tons of passenger  
15 shipping last year in Southeast over about 291,000 miles of  
16 southeast waterway in addition to the over a million gross tons  
17 of cargo and we -- our primary business is the cruise lines and  
18 increasingly we see a higher turnover of personnel in that  
19 industry and with that then comes an additional training  
20 requirement and there is a huge reliance on technology in -- not  
21 to pick on that industry, but increasingly with the shipping  
22 industry and these electronic charts are just one more aspect of  
23 that that I think we have to be careful about. And if the Coast  
24 Guard is going to mandate carriage requirements I think maybe  
25 also we ought to look at requiring the Coast Guard to mandate

1 requirements within the licensing process as well. Having been  
2 a former owner of a marine training and education business and  
3 taught Coast Guard licensing I used to always say that if the  
4 Coast Guard was regulating interstate trucking the first thing  
5 they'd have you do is shoe a horse, you know, to get back to the  
6 basics. And it's progressed some but -- and I'm also retired  
7 Coast Guard, so it's fair for me to say that, maybe. But it is  
8 important that we not let this get too far ahead of itself and I  
9 guess that was my primary point that I've probably beaten to  
10 death.

11 Other than that we have some priorities in Southeast for  
12 current analysis and charting and so forth that we'll -- we will  
13 coordinate through Dave ZeZula up here in Anchorage and also  
14 with a waterway forum that we have in Southeast called the  
15 Marine Safety Taskforce of which NOAA is a participant and it  
16 works very well. Other than that I won't be able to attend  
17 tomorrow because I'm flying down to Ketchikan for a 2:45 a.m.  
18 pilot boat to get on the Norwegian Wind. So other than that,  
19 unless you have any questions. Thank you.

20 MR. RAINEY: Thank you. Anyone else? Okay. There'll be  
21 an additional opportunity at 5:00 o'clock for public comment and  
22 than again tomorrow. With that turn.....

23 CAPTAIN BARNUM: Just -- also just so -- I think  
24 everybody's aware also but even before the meeting we got  
25 written comments submitted by Tenix and so -- just so

1 everybody's aware of that and that's in our materials so I just  
2 wanted to make -- acknowledge that, received that as well.

3 MR. RAINEY: Dave, if we can then we'll toss the baton to  
4 you.

5 MR. ZILKOSKI: Okay. Yeah, thanks. What we'll do now is  
6 I'll run through a series of -- give me the next slide, slides  
7 to talk a little bit about what the National Geodetic Survey  
8 does. I think that around the table and the room that the  
9 people have some idea about it but I think there's a lot of  
10 things that -- little things that may come out that may be  
11 helpful in your report finding and why the discussions earlier  
12 today I might say that I think geodesy plays a role as the  
13 foundation through a lot of the navigation community and maybe  
14 this will help this or at least will allow you to be able to ask  
15 me questions of what I mean maybe not today but down the road.  
16 Because I'm really trying to get the Review Panel to be able to  
17 help me move forward to show what geodesy should be doing as a  
18 program.

19 I'm going to touch on precise positioning and then talk a  
20 little bit about timely height information and I distinguished  
21 the two of those and that's normally not really looked at  
22 positioning. Height is a position but most people don't see it  
23 that way. But it's a three dimensional -- when we talk about  
24 precise positioning today people don't associate the height with  
25 it. So I'm going to talk a little bit about why that is.

1           We talked about our shoreline which you probably are  
2 familiar with and know very well. Some emerging technologies  
3 that we are pursuing and have pursued in the past and where I  
4 don't see -- you know, there was -- we tried to get the  
5 navigation community engaged in some of these new technologies  
6 and we didn't receive any and I'm not sure it should be pursued  
7 or not. So some guidance that you may want to give down and  
8 maybe some future challenges.

9           Next one. This is a little slide about a person with GPS  
10 in a car and there's a big -- in case you can't see it there's a  
11 big truck coming. Says that the -- yep, got my cell phone, my  
12 pager, my internet link, my wireless fax and thanks to this  
13 nifty satellite navigating system I know precisely where I am at  
14 all times and he's about to get run over by a truck. Geodesy is  
15 about knowing where you are but you have to know where other  
16 things are around you safely and efficiently. That's how you  
17 come together so we provide that foundation. And there was  
18 something else that Steve put in there originally, it says make  
19 appropriate decisions for safe, secure, efficient and  
20 environmentally sound transportation network. And this is more  
21 than just shipping, it's about the land, air and sea. But  
22 geodesy is about providing that framework so that you know where  
23 you are but also where other things are around you so you can  
24 relate them.

25           Next one please. I talked a little bit about our CORS and

1 you've already seen it earlier on and that we're up to the 900  
2 and some CORS and the way Lou said, we're adding more, we'll be  
3 up to 1,000 pretty shortly. And this is a cooperative program  
4 that it's critical to both land and ocean observing systems and  
5 we -- it's a partnership program that I believe is a good model  
6 for other people to look at for trying to obtain good partners,  
7 good support in building a system that's not totally federally  
8 owned or operated but it is managed by us and it's a partnership  
9 and we give some service and then the local entities give some  
10 service and then the total between the two is greater than what  
11 we individually could have done. So it's really building great  
12 synergies. And it's more than just positioning, it does -- as I  
13 mentioned earlier, it's useful to the weather people about  
14 atmospheric water vapor and is improving the weather  
15 predictions. We're talking about putting GPS CORS out on oil  
16 platforms in the Gulf so that they're able to get better  
17 information about the water vapor that goes on prior to  
18 hurricanes to help in their reporting of their track. They know  
19 where the -- the hurricane's coming, they know the strength and  
20 they -- a lot of that stuff has to do with the water temperature  
21 and so forth. But the actual track of it is they can improve  
22 the process and GPS is going to allow us to do that.

23 Next one please. We have listened to our partners, they  
24 -- we built the system of GPS CORS which we collect the data.  
25 We put it down -- out on the web and had people that could turn

1 around and process the data and we had guidelines and procedures  
2 and manuals and we've created a lot of them and I'm sure we're  
3 part of what Bob was talking about of all those gigabytes of  
4 standards. And we have our unique set of high accuracy  
5 standards. But we also did something we called an online  
6 positioning user service. We had people that were using the  
7 data and not really tying to our network the proper way, they  
8 were producing coordinates that were inconsistent with the  
9 surrounding coordinates because they didn't fully understand  
10 what it was about. So they talked to us to say that, well, if  
11 we give you our data can you compute a coordinate. So we  
12 automated the process and allowed them to go off and they  
13 collect the information, sit at a station, provide us some  
14 metadata, submit it through the internet and then they get back  
15 an e-mail with their values and it's consistent and if two  
16 people do it near each other they will at least be consistent.  
17 So that's we called our OPUS.

18 Next one please. Height information. OPUS does give you  
19 a latitude and longitude and a height, it actually gives you a  
20 couple heights. Gives you an ellipse side height and a  
21 orthometric height. And most people when they talk about height  
22 information are talking about which way water will flow or the  
23 depths of it and they want the -- want everything, the systems  
24 in orthometric height. Now we do and have in the past provided  
25 information about -- from a navigation air gap information,

1 positioning of bridges, under keel clearance, actual accurate  
2 docking charts such that you're able to as long as you're in the  
3 same system dock a vehicle through -- a ship through the fog and  
4 as long as you know where other things are around you and so  
5 forth. So these are some of the activities that we've brought  
6 to -- talking about safe navigation and it's just part of our  
7 process.

8       Next one please. The other aspect of that is just right  
9 after the land you have coastal inundation and you've got  
10 evacuations and this is something that we were working in  
11 Louisiana. And by the way, we were doing this prior to Katrina  
12 and Rita. We actually -- we're in building our process several  
13 years prior to the hurricanes coming in so that when they did we  
14 actually had a framework in place and some evacuation routes  
15 already computed six months -- actually it started a year, but  
16 six months prior to the hurricane coming. It wasn't complete in  
17 terms of the process of the education but we did have in place  
18 what the evacuation, what the subsidence rates, what was going  
19 on. So anybody that was down in the southern part on the  
20 southeast of Louisiana knew exactly what -- when they started  
21 talking about those storm surge and the values, the locals knew  
22 that this was trouble and they knew that they were going to be  
23 inundated and they knew when to get out. Now, Hurricane Katrina  
24 and Rita, when you have huge storm surge it doesn't really make  
25 much difference of a few centimeters or even a foot. It was

1 going to have this kind of activity going on anyways. But the  
2 key is in normal times even storms in places like southern  
3 Louisiana and at the ports having very accurate elevation models  
4 relative to the local bathymetry as well as the topography.  
5 Being able to bring that together is critical from both the  
6 shipping industry but probably more important to the coastal  
7 managers and I think that's where the bridge is. You heard the  
8 term Vdatum, that's a vertical datum transformation program  
9 where we try to make it as simple for people to be able to take  
10 one set of data, put it into this program and out comes the  
11 other set of data in the format that they need it. Once again,  
12 making sure that people were working consistently. But geodesy  
13 besides bringing the height component to the shipping industry  
14 talks about flood plain mapping, subsidence, hazard mitigation,  
15 evacuation planning and if you co-locate GPS at tide gauges you  
16 can actually start measuring what sea level rise is really  
17 doing, measuring the effect. It can't tell you why it's doing  
18 it. It can tell you though based on those tide gauges if it's  
19 rising or settling. And by the way, in Alaska because you have  
20 uplift you actually have the sea level going down in places  
21 here. It is not rising in Alaska. Now, does that mean the sea  
22 level is not -- the water level is not really rising in Alaska?  
23 I think if it's rising anywhere it's rising everywhere. The  
24 question is though you got the land uplifting in Alaska so it  
25 looks like it's not rising. It's uplifting faster than the

1 water is rising. The point is that what geodesy brings is a way  
2 to measure that value.

3 Next one. Vdatum, this is where you really take, as it  
4 says, disparate data and GIS and other applications and bring  
5 them together. You have a lot of people that deal with water  
6 level information and they have that in -- all their data and  
7 water level information. You have other people that deal with  
8 geodetic vertical datums, North American vertical datum of 1988.  
9 This program allows you to in certain areas that when you build  
10 the models to be able to input NAVD88 heights and get water  
11 level information out and put water level information and  
12 NAVD88. So as long as you know what your data are and how they  
13 are referenced you're able to translate it into some other  
14 reference. Once again, consistencies, trying to keep people on  
15 the same page, making thing mesh together, integrating. This is  
16 -- making things interoperable so that they can be truly  
17 integrated later on. Geodesy brings that.

18 Next one please. The shoreline, you've heard a lot about  
19 that in the past and you've seen some of it here in pictures and  
20 we did a lot in terms of the hurricane response and I talked  
21 about our status earlier. But that is our mission and it is in  
22 NGS and Mike Aslaskan is in charge of it and he's back of the  
23 room, if you have some specific questions you can talk to Mike  
24 later on about this. But we are -- we're looking at the  
25 changes. The shoreline's constantly changing and ports and

1 harbors are always changing. You know that more than most  
2 people. So our program is trying to how can we efficiently and  
3 effectively do that, trying to develop new tools, trying to be  
4 able to keep up with what the rest of the hydrographic survey  
5 community is doing. You have a backlog survey that you're  
6 funding and putting in and trying to really create in a very  
7 timely manner. Well, shoreline should be part of that and I  
8 think that there's a -- the committee should be looking at how  
9 do I really think when I think about separating shoreline and  
10 the hydrographic survey backlog. In your backlog -- you got a  
11 shoreline imagery backlog too but it's never mentioned and it's  
12 hard to link them together. So I think there may be something  
13 there that you may want to look at and try to pursue, the actual  
14 inequalities of trying to say, well, I'm just going to collect  
15 the hydrographic survey information. Well, if you don't collect  
16 the rest of the information are you really got a good product.  
17 So you look at it from an end to end. And I understand the  
18 backlog of -- the survey backlog is important and it has a lot  
19 of needs and the private sector is producing it but the  
20 shoreline aspect of it should also be considered.

21 Next one please. Now there's a lot of -- this chart's  
22 hard to read but there's a lot of different values when you do  
23 the shoreline. It was mentioned earlier that different federal  
24 agencies have different use of shorelines, I think John might  
25 have mentioned it. There are reasons for everybody having their

1 value of what they call a shoreline. I think the Vdatum tool is  
2 probably the answer to being able to relate those two -- those  
3 datums and infor -- or not those datums but those relationships  
4 between those different shorelines. One is a national shore,  
5 recognized. Other ones like on the USGS chart which is the zero  
6 line for either the vertical datum, the NGBD or the vertical --  
7 other vertical NAVD88, but there's a relationship between what  
8 the USGS contour is that they call zero and our official  
9 shoreline that comes out that's on the chart as well as when  
10 someone else does and use a chart. There's a relationship and  
11 that's what Vdatum brings. But each agency has their reason and  
12 their reference for what they were using it for. And each state  
13 has their relationship to some of those, some of it's to the  
14 shoreline, maybe some of it's to the mean lower water, mean high  
15 water, they all have their reference. And I think the thing we  
16 should focus on is how we make sure that they're related, are  
17 they interoperable, are they integrated and do you make the  
18 tool, like Vdatum, that allows you to be able to say I have this  
19 shoreline value for what it is and I want to get out this other  
20 value from it and you pump -- what you pump in you get out and  
21 you can ask that question. If we can do that then these federal  
22 agencies have certain missions that they are responsible for and  
23 they can continue meeting their missions but then we can  
24 integrate their activities with ours. And we have been, USGS  
25 before they would have ever put a value on their contour maps

1 used our control to be able to relate them to them, as well as  
2 using ours. So we know the relationships, we just have to put  
3 it into a system like Vdatum.

4 Next one please. We put out what we call a shoreline data  
5 explorer because there are many different accuracies of  
6 shoreline, different values, different levels. This data shore  
7 explorer is trying to provide with metadata all of these  
8 different shorelines that we have, where they are and how useful  
9 they are. In some places there's more up to date information  
10 that may not be as accurate but it is just as good because it's  
11 more up to date. We're trying to put a web tool to be able to  
12 put out to the users so they're able to download the  
13 information, mix the information if they want to. Some -- a  
14 tool probably most useful to a lot of the coastal managers that  
15 are out there trying to build a product so that's something else  
16 we were trying to put together.

17 Next one please. You've already heard about this, we do  
18 meet with the top priority port areas and the ranking factors  
19 are the cargo tonnage, commercial fishing and military ports.  
20 It's based on what the Coast Survey and you heard about that  
21 earlier.

22 Next one. We use satellite information, we use many  
23 different tools to be able to -- to try to determine where do we  
24 need to do the change. There is so much shoreline out there,  
25 there are so many places that need to be updated with so many

1 limited resources that we try to utilize as much information as  
2 we can and in some cases commercial satellite information will  
3 permit us to update a chart without even going in there with  
4 more detail and we do it. Other times it tells us where we  
5 really do need to focus and then we do a special mission with a  
6 certain -- either with our own photography or with LIDAR to be  
7 able to create the map. But it allows us to look at these and  
8 try to prioritize them in the most efficient manner that we can  
9 because we do have limited resources.

10 Next one please. This is just one example of using the  
11 high resolution from IKONOS to show in -- the changing things in  
12 Portland, Oregon and so forth, but just one of the ways we do  
13 it.

14 Next one. This -- in December of 1996, and actually I was  
15 personally involved in this project. We were trying to start  
16 with using the GPS for positioning in their height component and  
17 we worked with the Coast Guard on one of their buoy tenders in  
18 some of industry and we positioned this ship, we put GPS on the  
19 ship to -- proof of concept of showing that we could actually  
20 position a ship to better than 10 centimeters and that's to the  
21 keel. We knew where that ship was relative to the bottom of the  
22 channel to about 10 centimeters. As it pitched and rolled and  
23 moved we knew it, everything -- we could do that with the thing.  
24 Now that required not one receiver, it required -- we had put  
25 four on there, we didn't need four, we had redundancy. But we

1 did this test back in there just to be able to show that we  
2 could do it, to learn from it, to try to prove the concept and  
3 to work with other industry to find out what they would like us  
4 to do. We actually worked with some container ships to put  
5 (indiscernible) container and from Long Beach up to Oakland  
6 positioned a ship in and out of both of the harbors and showed  
7 how it would work and that we could do this. And then it was --  
8 did not get picked up and really be -- want to be pursued by  
9 anybody so we have continued our kinematic positioning and so  
10 forth but more focused in the air and on land because the  
11 shipping industry was not as interested in it.

12 Next slide please. At the same time that we were doing  
13 it from the positioning of the ship saying we could do this from  
14 the under keel clearance perspective as well as its location of  
15 knowing itself to 10 centimeters, we also showed that we could  
16 do docking charts to that same level so that they could be  
17 married together and that you could actually take a ship, come  
18 in and dock it to that 10 centimeter level that if you needed  
19 to, but more important that you would be able to gain some  
20 efficiencies about coming in and out of the harbor. So we've  
21 demonstrated that.

22 Next one. Vertical currencies and GPS, we positioned  
23 bridges and using GPS as long as -- as well as with air gap  
24 technology, working with CO-OPS, Mike's group, and did this,  
25 once again, several years ago, trying to show that you could use

1 GPS to be able to accurately position some of these bridges.  
2 And this bridge is -- was in South Carolina, the Cooper River  
3 bridge, this was the newer bridge, we positioned the older one,  
4 and it was a discussion about the bridge -- a ship hit the  
5 bridge and they said that they thought that the -- it was marked  
6 on the chart wrong and so they came in and wanted to make sure  
7 that it was. And so we showed that it wasn't but we also showed  
8 how you could use new technology at a much faster, cheaper,  
9 better and be able to bring it in.

10 Next one. GPS on buoys. We have been installing GPS on  
11 buoys for awhile and demonstration projects in San Francisco, we  
12 had it running for a long time measuring it with the water  
13 levels and integrating it into our system of working, once  
14 again, of trying to understand the needs and where and what  
15 people wanted. Buoys get hit as you well know and so many times  
16 as a buoy gets hit and bounced around some of our equipment gets  
17 lost and we actually still have an antenna at the bottom of  
18 Chesapeake Bay but it's probably cheaper just to buy another one  
19 than to keep trying to figure out how to harden some of these  
20 things because they're relatively cheap. But this is something  
21 that we're -- we believe has some merit and can be very useful  
22 in using it and we're trying to pursue it and looking for  
23 guidance on what people would think. I was just recently -- I  
24 guess it was a week and a half ago now, I was at NOAA's NDBC  
25 shop at Stennis looking at a lot of their buoys and what they

1 have and tsunami buoys as well as some of their other buoys they  
2 have out in the Pacific and out on the equator and the tropics,  
3 looking at, well, what -- how can we outfit and look at it from  
4 a positioning standpoint and waves. It's not just GPS you put  
5 on these things, there are other instruments, tilt meters and so  
6 forth, that you put on to be able to give you waves out there,  
7 to give you information about -- potentially information about  
8 surface currents. If you integrate several buoys and they're  
9 moving across your harbor and they're moving in different  
10 directions. You can get information about what the currents  
11 happening -- coming in and out of a harbor. Obviously they  
12 don't do much about the subsurface ways but first -- you could  
13 potentially incorporate the GPS buoy with some other devices on  
14 the bottom.

15       Next one please. We did develop what we call a shallow  
16 water positioning system and been working with -- in Florida  
17 where we've done the same type of idea. It's basically starting  
18 with a GPS buoy if you will, it's sitting on a floating platform  
19 and it now can be hooked up to a boat where it actually  
20 positions the bottom of wherever you're looking in the coral  
21 reefs and sea grass they're -- you're looking at -- and damage  
22 assessments, they're looking at being able to determine exactly  
23 what has happened in an area and we can do the same thing as  
24 positioning a ship and a keel to 10 centimeters, we're doing the  
25 same thing for people looking at the bottom of an estuary to

1 really find out what's happening, how fast is this sea grass  
2 growing. Or if Carl -- if something happened, is it dying, we  
3 can look at it, you can go back to the same place and be able to  
4 determine it. And if a ship does some damage are you able to go  
5 back in and really from a standpoint of damage assessment you  
6 determine what the damage was before and after. So we've been  
7 working with a lot of people dealing with the positioning and we  
8 are trying to look at how do we actually do positioning  
9 underwater where we're on the surface but being able to take and  
10 extrapolate down below the surface and we're looking at that.

11 As part of our shoreline analysis and trying to find out  
12 what elevations are relative to the land, sea interface, we  
13 developed a dune buggy equipped GPS to be able to work with our  
14 LIDAR system as well as satellites to be able to incorporate  
15 them much more quickly. It's cheaper to run along a beach on a  
16 dune buggy than it is to do a full blown survey if you can --  
17 you can then take the other data and bring them together and  
18 integrate them.

19 Next one. Linking technology and leveraging the resources  
20 we mentioned. I mentioned about co-locating CORS, GPS CORS with  
21 the water level stations helps with subsidence and does with sea  
22 level rise, gives us a better understanding of what's happening  
23 in the area let alone the positioning aspects of it from there.  
24 But that's something that we are pursuing.

25 Next one. I mentioned it already, the subsidence. It's a

1 very small amount but along the coast if something's moving at  
2 one or two millimeters a year it's very critical to a coastal  
3 area that only has a few centimeters elevation prior to the  
4 water coming in. And measuring something to a millimeter to a  
5 year is not that easy, it takes time, it's difficult, a very  
6 small number. So you have to use something that's very, very  
7 accurate and you need to look at it from a long term  
8 perspective. It's not something you just go out and do today  
9 and then come back a few years later and do it again. It's  
10 something you commit to, put the infrastructure in, looking at  
11 saying that 10 years from now I'm going to be able to tell you  
12 what that sea will rise, ground subsidence is or that uplift  
13 relative to around the coast so that you can really tell what  
14 the water level is doing. It's a long term looking at it and  
15 geodesy is one of the ways you can do that.

16       Next one please. We have been shaping the way NGS does  
17 work for the last five or six years, about 2000 is when -- and  
18 actually this started -- I came in as the Deputy Director in the  
19 late 90's, officially in 2000 but I started in about 1998, '99.  
20 So working with Charlie Challstrom who was the Director at the  
21 time, he and I sat down and we looked and said where do we  
22 really want to be. We did a lot with infrastructure, we built a  
23 lot with monuments, we have -- in our database today we have  
24 over 500,000 vertical control marks, 250,000 to 300,000  
25 horizontal control marks, over a million gravity monuments if

1 you will. Look at all these CORS. We have a lot of  
2 infrastructure. We did all of the adjustments, we did most of  
3 the first order of work. That was our infrastructure, we did  
4 all of that. We did some models and tools and people depended  
5 upon that, we've always partnered. But we didn't build a lot of  
6 outside capacity. We did most of it ourselves, we did some  
7 training and workshops. But if you look at this diagram it's  
8 saying we're shifting from being the infrastructure people to  
9 doing the adjustments, doing everything ourselves, to building  
10 the right models and tools, providing them and building that  
11 outside local capacity with the appropriate tools and models so  
12 that they're able to do it themselves. And that's what our CORS  
13 program's about by the way. Out of all of those CORS pro --  
14 CORS monument you can say that 1,000, NOAA themselves probably  
15 -- and actually that's counting the Weather Service and  
16 everything, there's only about 60 of them. Okay? So we're a  
17 very small percentage of that CORS. That's part of what you  
18 would call our infrastructure and our O and M. The outside  
19 capacity that we built is the rest of our partners and they're  
20 building -- they have those CORS, they're maintaining those  
21 CORS. And one of their CORS goes down, they fix it. They call  
22 us up and tell us our system's not working right, we're working  
23 on it, it's either going to be up or down for -- whenever it is.  
24 But they communicate with us, that's a partnership we have with  
25 that. But we got to build that capacity. We worked with them,

1 we gave them the vision of where we wanted to be and if they  
2 wanted to be part of that vision here's what they had to do and  
3 we built standards and guidelines and procedures and processes  
4 with them so that it was part of their system. And that's what  
5 we're ending up moving and we're trying to do that with our  
6 height modernization program, our shoreline mapping program, our  
7 FAA work that we do, our standards and guidelines. Even our  
8 standards and guidelines we worked with the community because I  
9 wrote the vertical GPS guidelines and I drafted up what I had  
10 and then I sat down with the community, American Congress of  
11 Surveying and Mapping, ASCE, I sat down with them and I said  
12 here's our guidelines, what do you think and they worked with  
13 us, did pilot projects and we developed a final set of  
14 guidelines together. Working as a community to try to make --  
15 move those things forward.

16 Next one please. And I think I've talked a lot about  
17 this, this meeting our partnerships. We have been supporting  
18 the GIS community and at ESRI we just received recognition for  
19 doing that from trying to take all of our data to try to get  
20 people to use it through our OPUS application but we've -- also  
21 working with them to create a GIS web tool where they can go  
22 out, anybody that the RTIS software and other software will be  
23 able to go out and get our entire database through the web of  
24 control, our Getadig (ph) database, put it on a map. And they  
25 actually demoed this for me San Diego last week where they

1 actually went out on Galor (ph), the globe, picked the United  
2 States, pulled it in, pulled in our entire database and then  
3 kept going. That's you like you ever see in -- all the time  
4 where they just keep going down and down and down and went all  
5 the way down into California and pulled up a control right there  
6 on the spot in San Diego out of my database and it just came  
7 from the web. Then they turned around and pulled up some data  
8 out of Riverside County that had it on -- the same stuff out on  
9 the web. That's the kind of thing that we're trying to build  
10 and that's the local capacity that we built and the metadata and  
11 how we're bringing it to the community, working with them  
12 because they're the ones that asked us to do that.

13 Next one please. Now really what this leads up to is  
14 meeting future challenges. You've seen a lot of the things that  
15 NGS is working on, has been working on. We tried to pursue many  
16 of these different things with the community positioning of  
17 ships and buoys and bridges, docking charts. A lot of these  
18 things are all -- they're all possible, we can do. We're  
19 looking for guidance on what people think is important. And  
20 when we sat down and worked with all the -- many of the port  
21 authorities and many of the shipping industries and tried to  
22 find out where and what they wanted they seem to be not leading  
23 in that direction at this time so we have not pursued  
24 positioning of ships, all that -- that's doable. So I guess in  
25 some sense what I'm asking for is for you all to maybe think a

1 little bit more about this, try to get a little better  
2 understanding of what we do, but also think to the future and  
3 tell us where do you think you want to be with positioning so it  
4 helps me position myself of figuring out what do I need to do to  
5 help meet your requirements. Because in some of the sense when  
6 I'm positioning ships and buoys and no one's picking it up and  
7 really jumping up and down and saying it, although the buoys is  
8 something that more people are interested in, then I don't keep  
9 pursuing it and that's -- it's not something that people wanted.  
10 If they wanted it then they would pursue it and come back. So I  
11 let it drop and go. Now sometimes -- I don't have a problem  
12 with doing some things and having them not be picked up because  
13 many times people don't fully understand the benefits of what  
14 you can do so you do a demonstration. So I guess what I'm  
15 looking for is more guidance on some of that and your thoughts  
16 from your perspective so that we're able to produce what you  
17 really want and not what I think you want. I just need to  
18 produce what you want.

19 Next one. I think that's it. Yeah, that's it. Thanks.

20 MR. RAINEY: Dave, thanks. Let me just make a quick  
21 observation then I'll -- everybody jump in. But it's -- it  
22 seems to me we're almost at a point where -- I mean it's just  
23 phenomenal. I'm con -- you know, the more I learn and just this  
24 is another example of it, I mean the technological capabilities  
25 of things that NOAA does and is doing and can do, they're just

1 phenomenal. And the -- it seems to me we're quickly getting to  
2 a point where, you know, it's almost overwhelming what we can do  
3 but then the question becomes with the limited resources we have  
4 how do we figure out what we're -- you know, how do we  
5 prioritize them, all of this capability, with the -- you know,  
6 where do we put our limited resources and things. And one of  
7 the things I'm hoping with the -- we talked this morning, we'll  
8 jump back in on the special report. But I'm hoping and looking  
9 for ways, you know, for us to be able to engage as a -- you  
10 know, again, this is -- you know, we have a charter, if you look  
11 at hydrographic services broader than the MTS but also not as  
12 broad as everything NOAA is doing NOAA wide. But to try to  
13 maybe provide some advice or insights on what we think are  
14 requirements. But one just specific example just -- not to keep  
15 beating on the ENC, but for -- you know, we have a requirement  
16 there coming down the line with the -- you know, the IMO, the S-  
17 57 standard and NOAA producing the database and I'm wondering  
18 how NOAA looks at across these -- you know, these what I would  
19 call hard requirements with the carriage requirement coming here  
20 shortly. Is there a -- maybe it's implied in the whole PPBES  
21 process, but as you look at what NOAA's role is and NOAA's  
22 mission is on delivering these things if you have a hard  
23 requirement out there like a -- you know, the ENC, does the  
24 budget process take into account, okay, to get to an ENC, to  
25 develop that database that's going to drive all of these other

1 products, you know, you have to have this much survey going on,  
2 you have to have, you know, CO-OPS and NGS participation to get  
3 the proper, you know, tides and currents and things. I mean is  
4 that kind of analysis, can you figure that out? Because I --  
5 what I can't figure out is how you manage this when -- a  
6 particular earmark, like, okay, the ENC earmark disappears and  
7 now we say, you know, that's -- I mean it seems like there has  
8 to be behind that a strategic look at how all of these different  
9 technologies from the different shops integrate to produce a  
10 product that meets a requirement and I'm just wondering how do  
11 you manage that across the programs and NOAA. Is it -- I mean  
12 if there's -- how that thinking goes. Because when one  
13 particular line items falls out on the budget it seems to me it  
14 effects, you know, everything kind of across the board and I  
15 don't know how you strategically manage that. And, you know, it  
16 -- in other words do you guys try to take a look at -- I mean  
17 what you went through, Dave, just there was just an incredible  
18 list of all the different capabilities that you have in NGS and  
19 I don't know how -- do you also take a look at and say, okay,  
20 we've got a NOAA mission, either, you know, service or product  
21 that we have a requirement for so we need this much effort in --  
22 you know, consistent with -- you know, how do you rationalize  
23 that across. You know, for hydro surveying you need this much  
24 effort but it seems to me and occurs to me that if you're going  
25 to get this much data surveyed, have an efficient process, you

1 also need this much resource in marine charting to handle that,  
2 take it out of the can and process it, clean it, whatever. And  
3 so these things just all to me are interrelated processes and I  
4 don't know how you guys sort of manage that again with the.....

5 MR. ZILKOSKI: I'll give you -- let me give you my  
6 perspective, what I do, and then I think Steve if he wants to  
7 can talk about it from a goal team. Because there's two --  
8 several things that happen here in how this works. I -- from a  
9 geodesy I'm the geodesy program manager and Jack mentioned that  
10 in this PPBES process you have programs and you have goals. Now  
11 the programs, like mine in geodesy, we go and we talk to the  
12 other programs about what you need and the requirements. And  
13 from our shoreline, Mike, my Chief of the Remote Sensing  
14 Division, has meetings constantly and planning with the -- his  
15 counterparts that need us. So inside NOS if you will and  
16 actually inside NOAA because it sometimes involves more than  
17 NOS, we're meeting constantly looking at what are your  
18 requirements, how can I do it and how can I meet you, so based  
19 on existing resources. So if something gets cut through,  
20 because immediately you're talking about, well, what resource do  
21 we have and how do we bring that together, so we're doing that  
22 inside. Now from a program manager standpoint because of the  
23 geodesy I'm always looking and going to the other program  
24 managers and MTS is a program. But there's other ones outside,  
25 weather and water has some programs that we're looking at the

1 CEO coast estuary oceans of we're -- some of my activities like  
2 the height modernization also helps the coastal estuary people,  
3 Paul Schultz out of Coast Services Center. So we're talking  
4 about how can we build and bring those things together. Our  
5 programming and planning process, which we're -- you know, we're  
6 kind of babies in this thing, we're working it. But our idea is  
7 that we're starting to really start having one program manager  
8 talk to another program and really truly integrate these  
9 activities so that my geodesy height mod fits into that, my  
10 geodesy, you know, positioning would help in the shoreline  
11 aspects of it. So we're dealing with a program thing. The  
12 issue we have is that inside NOAA, as you know there's a lot of,  
13 well, you looked at the President's request and you looked at  
14 the House and then you look at the Senate and you got to look at  
15 what we get. So we don't know what we're going to do until  
16 March of every year and we're already halfway through our year.  
17 So that's managing six months in arrears and you got to be  
18 going, which complicates the process. I'm not making an excuse  
19 for the process, I'm just saying it complicates the process. So  
20 from that standpoint that's how we work and we kind of work fast  
21 and furious that last one. But the first six months we're doing  
22 things basically based on what we think we're going to get and  
23 how we're going to work. I'm not sure if that addresses it but  
24 we're trying to get there.

25 MR. RAINEY: A lot of people want to -- Jon, let me and

1 then we'll (indiscernible).

2 MR. DASLER: Yeah, I thought that was a great  
3 presentation, you guys definitely put out some great products  
4 and do some good work in your shop. I think parallel to the --  
5 just looking back at the cartoon though and I think the parallel  
6 to that is from the vessel navigation standpoint I mean we can  
7 have, you know, tight vertical positioning and horizontal  
8 positioning, we can have electronic charts and we can have  
9 ecosystems on ships but if we aren't getting the wrecks and  
10 obstructions on the chart you're back at the guy going down the  
11 road not knowing that the truck is there. And it just seems at  
12 times the way it's going and the way funding is progressing, you  
13 know, we're still putting the shoes on the horse so to speak.  
14 And I think there's got to be a balance somewhere through that  
15 whole system. But it -- from the Marine Transportation  
16 standpoint, I mean I think it provides a false sense of security  
17 when you have, you know, the electronic charts and the  
18 ecosystems and, you know, they're not aware that there's a lot  
19 of these critical areas that still need to be charted and I  
20 think all of that needs to be brought into the bigger picture.

21 MR. ZILKOSKI: You know, I want to -- just if you don't  
22 mind a comment, because that's a great observation and I like  
23 your analogy of the -- with the ship and I might try to use  
24 that. But I wanted to make my point about that this group is  
25 more about -- more than just water, but so I'll try to

1 incorporate some dealing with water in it. But the issue of the  
2 trying to make, you know, how important it is and what's your --  
3 what's lacking is sometimes we don't paint that picture and the  
4 hurricane did do that. Like I said, Louisiana, for 25 years  
5 we've been going down to Louisiana and telling them about the  
6 subsidence, what's happened to the monuments and so forth and as  
7 I said we were building that. So we were ready when the  
8 hurricane came, we didn't know when it was going to come but we  
9 just knew something was going to come, we didn't know when, and  
10 it did occur. And so that gave us the opportunity to be able to  
11 show people, hey, here's what you've got. I used to have 1,000  
12 monuments down there that I'd publish and I was -- kept trying  
13 to tell people they're not accurate and I built the system.  
14 After the hurricane it was a whole lot easier for me to tell  
15 them I have 100 monuments that I know the elevations are and I'm  
16 standing behind them and I'm publishing them. The other 900 are  
17 no longer being published. You can get them but they're not  
18 being published, I'll give them to you. That's the change that  
19 occurred and that's I think something similar that you have to  
20 do. They don't understand the picture because people -- you  
21 keep publishing -- in some sense publishing information without  
22 -- pull them off, which I did in Louisiana and now I'm left with  
23 100. And then they have to -- you have to build that system  
24 back up again but not build it to the point that you can't  
25 maintain it and that's where you're at, you have to get that.

1 MR. RAINEY: Bill and then Andrew and then Lou.

2 MR. GRAY: Dave, you really got my attention when you  
3 showed the Golden Gate Bridge there and the buoy tender of the  
4 Coast Guard and so forth. I guess you had a piece of your  
5 equipment aboard the ship and you say you've got this 10  
6 centimeter ability to measure vertical position, of course you  
7 can do it the same horizontally and so forth, and when you said  
8 that the shipping industry wasn't interested in it. And I'd  
9 really like to learn more about the capability that you've got  
10 and how you feel the shipping industry could make use of it if  
11 they'd pay more attention to it. Because the thought that  
12 occurs to me, 10 centimeters, that's great, that's pretty small  
13 distance. These big ships, haugerside (ph), I mean it can be  
14 several feet according to loading, whether the sun is shining,  
15 whether it isn't shining or something like that. Ships squawk,  
16 ships list when they're maneuvered and so forth like that. I  
17 don't know whether these are the things that turn the most.  
18 They don't care about plus minus 10 centimeters, they're really  
19 worried about a bigger number or something like that and a  
20 number that's changing. And as you said, if anything -- because  
21 of speed, whatever, changes it. But having that capability it  
22 would seem to me, I mean I can remember when we were putting  
23 TV's on the bow and stern of the ship to help in berthing them.  
24 They didn't do much good at all because it -- the depth  
25 perception was not what it should be. Then we got these docking

1 sonars. They were very good. We got rate of turn indicators,  
2 they were -- they're excellent. And for maneuvering of a ship  
3 all those things help and with this ability to measure where you  
4 are up, down, si -- this, everything else like that, that's a  
5 very good -- that's a marvelous ability to have and I surely  
6 agree with what was said but you got to know where the objects  
7 are, the hazards are or something like that. So I think it  
8 would be good if sometime we learned a little bit more about  
9 what you did do and how you think it should help the handling  
10 safely of large ships, or smaller ones for that matter. Because  
11 you've got a capability to do something and I think you just  
12 have to find out is that of any use to me. I think the answer  
13 is it must be somehow.

14 MR. ZILKOSKI: Yeah, we can certainly do that and I'm more  
15 than happy to do that. And Andy has -- well, Lloyd Huff who  
16 used to work for the government and now works up at the  
17 University was instrumental in working with the shipping  
18 industry in the squawk, the roll, the pit, everything that we  
19 did we had to account for. And, you know, there are some parts  
20 of the shipping industry that were interested and they donated  
21 something, I mean they donated containers. And I'll never  
22 forget my geodetic group down in Fredericksburg when they had a  
23 con -- couple containers, like three containers, they were  
24 dropped off at their place and they kind of called up and said  
25 what in the world am I supposed to do with these three

1 containers. And that was Lloyd having them dropped off because  
2 he was going to fix them with -- install GPS with batteries and  
3 everything else. So we -- I would like to pursue that and show  
4 what it's about because it's -- the community wasn't ready at  
5 the time most likely to try to do it and so time wise we may be  
6 able to push it now. And the system itself was probably not as  
7 reliable as they would have really liked and so they weren't  
8 willing to invest in it. But yeah, we can do that and we will.

9 MR. GRAY: Because a lot of things I say have been  
10 developed in the time that I've been active in the industry to  
11 help the safe handling of vessels. And some of them are  
12 terrific, some of them weren't any good at all. And -- but when  
13 you say you got the shut -- they weren't interested I'm curious  
14 at that, I would think that somebody would be interested even if  
15 they didn't understand how it was going to help them.

16 CAPTAIN MCGOVERN: Andrew McGovern. A couple of things.  
17 I worked a little bit with Lloyd on that, the H-10 panel, the  
18 Navy did that and they actually even could see the twisting of  
19 the ship. It was pretty incredible. One thing I'd like to  
20 clarify because I've heard it a few times here and it's in the  
21 report. The -- Congress is not mandating the carriage of ENC's.  
22 All right, just -- but it's in the report. We have to.....

23 UNIDENTIFIED MALE: Yeah, it's a electronic charting  
24 system, I didn't say ENC.

25 CAPTAIN MCGOVERN: Yeah, we have that. We have to change

1 that. You know, they -- it would be a raster chart, it could be  
2 -- actually it was so unclear it's dangerous but that's another  
3 issue that, you know. The other instance....

4 MR. RAINEY: On that, Andrew, though could I just -- I  
5 mean is it not the policy and the whole place we're going with  
6 this ENC development is that will become the one single official  
7 database that then -- the idea is that you can -- Bill, you can  
8 print out a raster chart from that, you can print, you know, all  
9 sorts of things. So the -- my understanding of where NOAA's  
10 trying to go with this database is not just simply to make an  
11 ictus, you know, vector chart, this would also be the official  
12 HO database that you'd pull all your -- we wouldn't have the  
13 parallel raster process in other words and the ENC is my  
14 understanding of where we're trying to go.

15 CAPTAIN BARNUM: If I can just add onto that. Yes,  
16 Congress is not mandating ENC's, they're mandating promulgating  
17 regulations for carriage of electronic charts, that's to be  
18 defined, what an electronic chart is. What Scott mentioned  
19 about ENC, currently we are maintaining two production systems,  
20 one for the production of the paper and raster chart and one for  
21 the production of the ENC. So anytime you have two of anything  
22 there's always a question of maintaining them in sync. And so  
23 it's a very time and dif -- very difficult process. So our goal  
24 is to have one production system of which we can print paper  
25 charts, produce the raster charts and produce the ENC from one

1 single database.

2 CAPTAIN MCGOVERN: Yeah, correct. I just want to make  
3 sure that when we do this report it's correct, somebody can't  
4 say that and say, hey, you know, you're not -- you know, you're  
5 going off in the wrong direction. This other thing that  
6 troubles me is the -- this docking -- this highly accurate  
7 positioning for docking and basically -- and for maneuvering in,  
8 you know, zero visibility for the efficiency of the port. The  
9 reason why that is not being pursued is because it's illegal  
10 both internationally and nationally. You know, it's just  
11 something you can't -- you know, and until that changes and I  
12 kind of -- the hair went up on the back of my head when Lou  
13 mentioned before about his system down in South Carolina, what  
14 he can do with ships, you know, that you can automate all this.  
15 Well, that's great and it kind of goes with your cartoon there.  
16 You can automate this and put it there and it'll follow a track.  
17 The problem is -- you know, with airplanes is, you know, it's  
18 controlled airspace and there's nobody else in that track. You  
19 get in a port like Charleston or like New York and it's like  
20 putting a bus in Manhattan and automating it and just letting it  
21 go down Broadway. You know, assuming it's not going to hit  
22 anything that's going to get in its way because guess what,  
23 everything's going to get in its way and that's why, you know,  
24 we have people that do this. And that's why -- so that's why  
25 some of these things while technically you can do them -- you

1 know, I guess we're all at -- you know, we can do things but  
2 should we do things, you know, and that's where we have to kind  
3 of draw that line and that's why some of the stuff may  
4 technically be feasible but it's just not practically or it's  
5 not legal or it's not -- you know, there's a lot of reasons for  
6 this. It's great to have this technology. I mean needless to  
7 say if you get stuck in the fog it's great to have but you do  
8 not use it to say I'm going to operate in the fog because of,  
9 you know, I've got this stuff so I can go. Because if something  
10 happens, you know, you're going to court and you're going to  
11 lose, guaranteed, you know, in every country in the world. So  
12 that's where -- and I know there are ports that are looking at  
13 this but it's not really condoned by any of the -- you know,  
14 anyone who's going to have to actually operate it. So that's  
15 one of the reasons, wanted to explain that.

16 MR. ZILKOSKI: Yeah, I -- and I heard that reason -- I  
17 heard those before when we were doing it and part of when we  
18 were demonstrating it was to show that we -- you know, that it  
19 could be done just to make sure we could do it and what kind of  
20 -- what would it take to really do it so that if -- that when  
21 ultimately someone says, well, that's cheap enough for me not to  
22 use it for what you just said. In other words if you're stuck  
23 in a fog and you got to do something you got it. But it also I  
24 would think would improve and help with efficiency even when not  
25 in a fog and that's what we were looking at was just the

1 efficiency of that. As we all as being able from the under keel  
2 clearance was probably more important to the docking chart. So  
3 being able to bring in more cargo so that you can be able to  
4 know -- but also the -- highlight the importance of, you know,  
5 if I can get your keel to 10 centimeters but you don't know the  
6 bottom of that chart very accurate -- or the bottom of the  
7 channel very accurate it doesn't do you any good. And so from  
8 that standpoint they go hand in hand of saying I need better  
9 charts because I can position to 10 centimeters. And the reason  
10 I want to position to 10 centimeters is because I can bring in  
11 more cargo. So now I got an economic reason for bringing it in,  
12 I got the technology to allow me to bring it in so there's a  
13 reason for me to do better charts. Okay? But if you don't have  
14 that then you can't then you can't bring better charts. That's  
15 sort of my -- that was my strategy behind saying I can do this  
16 for you but if you -- but it doesn't do you any good until you  
17 get better charts. That was -- I was trying to help you.

18 DR. LAPINE: I stand corrected, Andy. I just want to make  
19 a public comment that when I was the Director of National  
20 Geodetic Survey I never realized how important the National  
21 Geodetic Survey database was. And I use it every day, sometimes  
22 three and four times a day. I get -- the public will call me a  
23 half a dozen times a day wanting knowledge about geodetic  
24 control. I never thought that that was one of the more  
25 important things that the National Geodetic Survey does and they

1 do it very, very well. So I commend you on that. I also  
2 commend the National Geodetic Survey on technology development.  
3 A lot of the things we're hearing about today started with a  
4 receiver in a cargo box, neither of which were designed to do  
5 what they did, but the National Geodetic Survey figured out how  
6 to integrate these devices. And we are coming of the age now,  
7 Andy, we would never go without a pilot or a captain in the  
8 pilot house but we could certainly automate some of the  
9 functions. I mean we have automatic pilots that -- automatic  
10 pilot systems that steer the ship for us right now. We'd never  
11 do it in the blind, I -- sorry I left you with that impression.  
12 I think the big thing for National Geodetic Survey, for  
13 charting, for oceanography is this Vdatum issue. We need to  
14 understand how sea level relates to orthometric heights, that's  
15 benchmarks, how it relates to the ellipsoid which is the surface  
16 that GPS works most accurately on. Until we get to that point  
17 we're going to have trouble putting a system like I described on  
18 a ship safely so that you could take advantage of it. It's  
19 extremely important that we pursue this Vdatum issue more fully.  
20 I'll turn the floor over.

21 CAPTAIN HICKMAN: (Indiscernible). When you say 10  
22 centimeters from the bottom or whatever, like are you going off  
23 of a charted bottom already? Because like say in Houston, what  
24 -- how hard of a bottom are we talking? Because once you have  
25 an emulsion there I might be driving through the mud as opposed

1 to being 10 centimeters from some type of bottom that you're  
2 talking about whereas Andrew's going to be in a much worse  
3 situation than I would be if he was on the bottom.

4 MR. ZILKOSKI: Yeah, it has to -- once again, it goes back  
5 to the chart. It has to be chart so you have to be consistent.  
6 And what we did do in this project in working with Lloyd, we  
7 actually resurveyed the bottom, we resurveyed it prior to -- so  
8 we were truly within 10 centimeters of the system because we did  
9 it over ourselves for the channel that we were in so we could  
10 clearly say that. And there were times that, yeah, they were at  
11 the bottom. Okay? And they knew they were at the bottom and  
12 our system confirmed that they were at the bottom but they  
13 didn't need our system to confirm that. But they were and so it  
14 showed the whole system. But no, it's only as -- it's -- I can  
15 only position to the keel relative to something that I already  
16 have. I mean if you don't have good charts and they're not  
17 updated charts it doesn't do any good. It's like our shoreline.  
18 You know, you can fly the shoreline, we can go into the harbors,  
19 we can put them, but if you take a pier out and you put another  
20 pier in and we didn't do another survey it's not there on your  
21 electronic chart. So it's the same thing, you have to have good  
22 up to date surveys for these systems to work.

23 UNIDENTIFIED MALE: (Indiscernible - away from  
24 microphone).

25 MR. ZILKOSKI: Well, it's off bottom hills.

1           CAPTAIN ARMSTRONG: I just want to clarify that -- I don't  
2 think that 10 centimeters was within 10 centimeters of the  
3 bottom, it was -- we know where we are plus or minus 10  
4 centimeters using the bottom as a reference point. So that was  
5 the level of accuracy, not the actual distance from the bottom.

6           MR. GRAY: Yeah, just -- once again, don't forget, the  
7 ships are very flexible and they're moving all the time and  
8 we're sharing and doing this. I mean what you've got with the  
9 interactions or any of them, I mean ships needing the channels  
10 and everything like that. But it does make me think that to  
11 pursue this point a little bit, and I don't know where it is  
12 now, Andrew, with H-10 but all that data that was taken three,  
13 four, five years ago, whatever, if that's ever been reduced to  
14 something that is really useful. Because I know there was a  
15 money problem and I'm getting the data now it's just that  
16 (indiscernible) H-10 which is called controllability and they  
17 have been dealing with the maneuvering of ships, how they  
18 maneuver and so forth, for about 40 years now I guess. And what  
19 they did some years ago in Houston was to measure some 30 some  
20 transits of the Houston ship channel and eight or 10 meeting  
21 incidents in the Houston ship channel, how the vessels behaved  
22 and how things went compared to how people thought they would.  
23 And I think that at a future meeting of this committee it would  
24 be worthwhile to have a session, a portion of a session devoted  
25 to what does that really tell you about what's going on when the

1 ship's trying to get in or out of these tight places. Not when  
2 it's alongside the berth or not when it's in deep sea but that  
3 was very valuable work that unfortunately has never been reduced  
4 I don't think to a point of being able to be used yet. But for  
5 some of the things that were -- there's some pretty dramatic  
6 findings in it. They had done that preceding that, what, in the  
7 Panama Canal it was I think where they first did it. So we  
8 might consider with Alex Landsburg or something like that to get  
9 -- now Mike Morris is on that, isn't he?

10 MR. RAINEY: Yeah, Mike was involved. Alex I believe just  
11 recently retired and (indiscernible).

12 MR. GRAY: Well, he did but I think he's still Chairman of  
13 the H-10, isn't he?

14 MR. RAINEY: Yeah, so.

15 MR. GRAY: Well, he's retired but he's still Chairman of  
16 the H-10 panel. I think.

17 MR. RAINEY: We can follow up on that. Okay. Jon Dasler.

18 MR. DASLER: Just one last comment. Again along the same  
19 lines John Oswald was talking about, Vdatum and the importance  
20 of Vdatum in updating nautical charts. And, you know, the  
21 largest contributor, and I think I mentioned this in D.C. but  
22 the largest contributor of the total propagated error is water  
23 levels and, you know, just development of Vdatum and then  
24 extrapolating that across survey areas and doing the surveys and  
25 then eventually operating the ships is going to tremendously

1 improve, you know, the vertical accuracies. Because right now  
2 water levels is, like I said, the largest contributor to the  
3 total propagated error or the (indiscernible) chart. And the  
4 survey systems that are used and the sonar systems that are used  
5 have very high resolution and that's one of the biggest problems  
6 we're facing.

7 MR. ZILKOSKI: That's good to know. And actually our  
8 upper management, you heard the terms Maureen Wiley and Bonnie  
9 Moorehouse and Mary Glackin, the three ladies that are part of  
10 this new PPBI system. That's something that resonates with  
11 them, the Vdatum. They understand that, they see what that is  
12 and they understand that (indiscernible) people do get that and  
13 they do appreciate that. So whenever you have those  
14 opportunities you should try to talk to them about that or  
15 explain that. And clearly, Sherri, they're down there on the  
16 21st, you should have some of those words that come out of here  
17 that say they're important. Well, it does not hurt because  
18 they'll come back and they'll ask people, I heard this about  
19 Vdatum, what does it really mean and in some ca -- Maureen's not  
20 going to be there I guess but she's the one that understands.  
21 But clearly Bonnie and Mary hear these terms from us but don't  
22 really understand that our users really think they're important  
23 so it helps.

24 MR. OSWALD: Yeah, I'd like to make one comment, John  
25 Oswald. And one thing that NGS could do in my view to help what

1 Mr. Rayfield said, sufficient funding -- well, not the funding  
2 but to try to reduce this critical surveying backlog in five  
3 years. That's probably doable. They just -- you know, they  
4 just added \$10 million to contract backlogs. That's the hydro  
5 part. In my view shoreline mapping at NGS is under funded by  
6 about -- I think it's \$2.5 million or something in that range  
7 or.....

8 UNIDENTIFIED MALE: We get \$2.5 million that we send back  
9 out to contracts (indiscernible).

10 MR. OSWALD: It should be probably in the range of  
11 somewhere between \$6 and \$10 million. I don't think it  
12 adequately keeps up with the backlog myself and I am dismayed to  
13 know that I worked on a NOAA project this year and the shoreline  
14 is out of position, not by a little bit but by a lot, 1,000  
15 meters so that's like you can walk from here to Cook Inlet,  
16 you'll be in the water before 1,000 meters is up. Three  
17 thousand feet and why is that in 2006. It's not that it was  
18 surveyed erroneously, it was just that it was surveyed in 1874  
19 is the shoreline layer on our chart. This island has not moved.  
20 The Pribilof Islands, the same situation. This is another  
21 island this year. Why does this exist when we have free -- you  
22 know, we actually have free imagery that is geopositioned. I  
23 think some assessment, maybe use some of this free imagery,  
24 articulate our dollars to do some change analy -- particularly  
25 in Alaska. I don't know if -- this is probably not the case in

1 the continental United States. But I've come across it about  
2 five times in my career of -- because of the method of the  
3 surveys in 1874 an astronomic position, says it right on the  
4 nautical chart. Now our mean high water line is out of  
5 position, the mean low water, the state federal boundary is out  
6 and the international boundaries are out of position. Those  
7 will eventually have to be revised. So I think that's one  
8 program that NGS could do to support, you know, I think critical  
9 MTS shoreline mapping. Not very sexy or anything but it's just  
10 fundamental basic data that we need. And with that we also have  
11 soundings on our charts in Alaska generated by Captain Cook on  
12 his third voyage that are published soundings. Supposedly, I've  
13 heard from numerous NOAA authorities about that and why is that.  
14 They're probably good soundings, maybe they're good soundings.  
15 In this case it was just 1,000 meter, 1,000 meters, 3,000 feet.

16 MS. DASLER: Dave, just a quick question. Is there  
17 critical shoreline mapping priorities that are set similar to  
18 what HSD sets on their areas and if not -- I mean it seems now  
19 that technology is coming to the era where you could take a lot  
20 of imagery that's readily available and a change of detection  
21 could be made and then you could prioritize or it seems like  
22 that would be pretty prudent to try to identify some of these  
23 areas that are really in need of the shoreline mapping effort.

24 MR. ZILKOSKI: Yeah, as Jon said though, we're really  
25 under funded. So what we do is, as I mentioned, we look at the

1 priority ports and we talk to our -- the Coast Survey who sets  
2 the priorities for these ports and we go back and we visit them  
3 and we have shoreline based on their needs. So we don't have  
4 enough money to go out and really just go and do things that  
5 aren't in the way of where is the Coast Survey going to be,  
6 where are they going to be updating charts and we try to follow  
7 along that manner. But Mike Aslaskan is back there and I don't  
8 -- Mike, if you want to say a few words on that you can. Mike  
9 is in charge of the Remote Sensing Division which is in charge  
10 of the coastal mapping and shoreline.

11 MR. ASLASKAN: Yeah, thank you. Again, our priorities  
12 are, Coast Survey is number one, again customer priorities,  
13 again trying to keep up with them as far as where they're going.  
14 The shoreline's critical for them planning for NOAA assets as  
15 well as contract assets, photogrammetric surveying. They use  
16 that for estimating, they use that to keep actually the ships  
17 off the rocks and spending a lot of time doing shoreline  
18 verification. Other than that we do have what is called a  
19 matrix life, we look at the age of a shoreline of areas and we  
20 try to update that when funds are available and dependent on the  
21 number of requests of shoreline discrepancies that come from  
22 Coast Survey. For instance, recently we just did the entire  
23 coast of Georgia based on several years of requests and the  
24 shifting of those barrier islands.

25 MR. RAINEY: Did we get to everybody as far as questions

1 or comments? Okay. Dave, thanks very much and David asked if  
2 we could run that and we've been trying to get NGS to give us a  
3 presentation so we can better understand a lot of the things  
4 that they're working on that we're also interested in. What I'd  
5 like to suggest here in the remaining time we have today is that  
6 we take a look and reconnect with our discussions on the special  
7 report that we're working on. But insofar as to talk a little  
8 bit about the production schedule and kind of try to set out --  
9 kind of just talk about our process rather than the actual --  
10 trying to go through more content particularly. But just let's  
11 try to get a common -- get on the same page as far as what our  
12 process and kind of production schedule. So if I could since  
13 we're kind of pushing it late in the day let me ask if you need  
14 to take a break to do it kind of independently and let's press  
15 on a little bit and ask if Ann could rejoin us and we'll talk  
16 about some of the process here, how we're going to try to  
17 proceed and then we'll try to conclude on time and then see if  
18 we have any additional public comments and we'll be back on our  
19 agenda and we can take a look ahead to what we're talking about  
20 tomorrow. Andrew.

21 CAPTAIN MCGOVERN: Well, it seems like if you want to get  
22 this product out before the next Congress which is January you  
23 realistically have to have it ready for the printer I would  
24 think by the beginning of December and therefore ready -- last  
25 comments probably the beginning of November so that we get the

1 final document, get it approved. So I would think that would be  
2 a good time table, like November for us to be done with it.

3 MR. RAINEY: Maybe -- Ann or Barbara, I mean as far as to  
4 how the relationship goes there and the -- you know, your  
5 process and -- can you advise us on that? What we really want  
6 to do, we want to look at when is it on the street and then just  
7 sort of back into it and then I think that'll probably start  
8 (indiscernible) in place. But would that be a good way to  
9 approach it as far as how you.....

10 MS. BOESE: There's a.....

11 MR. RAINEY: .....see the process?

12 MS. BOESE: Well, there's a couple things. You know,  
13 typically you decide when you want it to be issued and then you  
14 work backwards. But one thing, and I don't know about how to go  
15 about changing this but I know that my contract period for this  
16 particular project runs through October 15. So that.....

17 CAPTAIN MCGOVERN: I would say then that's a day.

18 MS. BOESE: So in other words I would turn over.....

19 CAPTAIN MCGOVERN: Makes sense to me.

20 MS. BOESE: .....I would turn the files over for printing  
21 at that date or before -- actually prior to that date.

22 MR. RAINEY: So get me your comments by, what, noon on the  
23 14th, right?

24 CAPTAIN MCGOVERN: There you go.

25 MS. BOESE: You know, actually though I think maybe even

1 though it may be pushing it, my personal experience is that we  
2 take a breather from it after the meeting and we've got all the  
3 comments, do the work, have a -- hopefully assemble a smaller  
4 group to go through a review process once those changes are in  
5 and then unless there's something that I don't know about get it  
6 done. Because when the momentum falls off the momentum falls  
7 off.

8 CAPTAIN MCGOVERN: I guess my only question on that is we  
9 don't have any -- we don't have the lawyer here, but under the  
10 FACA rules do we have to approve this document in a public  
11 forum, which could be a conference call but, you know, that  
12 would be -- I mean we -- you know, the final document would  
13 probably have to be approved under the FACA rules I would think.  
14 And then -- but we could do that by teleconference. It would  
15 have to be in the Federal Register and such.

16 MR. RAINEY: But I guess could you -- I mean maybe it's  
17 obvious but to me I don't think it is exactly. The actual  
18 pieces of it because we did have a conference call and somebody  
19 had mentioned the GPO and that kind of -- is the idea that this  
20 will be put together and then it goes to the government printing  
21 office? What is the process involved to -- what are the steps  
22 other than we've got to write the content and get that  
23 coordinated through NOAA. But the actual mechanics of the  
24 public -- I mean if we want to have it on the street, you know,  
25 done by whoever actually publishes it what -- you know, is there

1 a time thing -- GPO, that kind of scared me when I heard GPO was  
2 involved. Is there a big lead time in their production process  
3 or how -- can you talk to that at all? I'm just not familiar --  
4 I mean if we want to have this say out in December does that  
5 mean that we got to have it to GPO by, you know, a certain date  
6 or does anybody know how that works?

7 CAPTAIN MCGOVERN: I just asked Mike, I said how long did  
8 it take you to get this published. He said two days.

9 MS. BOESE: Oh. See, in the commercial world it would be  
10 from final approval really like two, three weeks. So whatever  
11 the -- if that's two days. But we need to get a date and we  
12 need to connect -- I need to connect with a contact that says  
13 make sure that I have everything in the right format, blah,  
14 blah, blah, for that printing. And then we do have a proofing  
15 process that we have to build in as well. So really -- let's  
16 see. If we're going by my date, October 15.

17 CAPTAIN MYRTIDIS: Is that a little bit too soon, Scott,  
18 October 15? I -- it sounded to me like December 1st was a very  
19 good day and give us the time to do what we want to do.

20 MR. RAINEY: What I'm hoping is that -- and again, we have  
21 tomorrow in our meeting and we have some presentations of course  
22 and some public input that we want to consider but we'll have  
23 time to talk about this more, you know, some -- content wise  
24 before we leave here. I'm not -- this isn't our last time to  
25 talk about it. But my hope is that we have identified when we

1 leave here, you know, our deadline. But to get the sense -- I  
2 really want to have a consensus from the panel that we're in  
3 agreement on the scope of it and we had some good discussions on  
4 that this morning and then get from people if they have off the  
5 top of their head some ideas of specific examples or -- you  
6 know, we can try to get some comments on that. And then leave  
7 the meeting with everybody -- everybody's buy in, my hope anyway  
8 is everybody has bought into this concept of this and then  
9 hopefully we can have some -- in the areas we need to flush it  
10 out leave with some examples that we can incorporate in here and  
11 folks identified that can help build the rest of this report,  
12 get it together and then put it back out in a more finished form  
13 for everybody to -- when we start to refine it. So I think that  
14 that's the process we're envisioning so that the question of  
15 timing is when do we want to have it out on the street and how  
16 much attention can the panel, you know, help focus on this to  
17 flush out the -- you know, the remainder of the report. But  
18 would -- do you think it's unreason -- if we've got that October  
19 date that would give it -- I mean if we had a month as a panel,  
20 you know, like Ann said, obviously, you know, after the meeting  
21 you want to have -- you got to get back to regular things. But  
22 if we had a month to come up with our rough comments and remarks  
23 on the draft and moving it forward, the building blocks that Ann  
24 talked about, would a month be reasonable for the amount of  
25 material that we're looking at and then that would give us yet

1 another month to kind of refine that. In other words if we  
2 could finish the framing here in the first month then we can  
3 start, you know, really refining the points. Would that -- does  
4 that.....

5 MS. BOESE: That's -- if I'm hearing you correctly that's  
6 -- there's so many other things that, you know, we have to  
7 actually -- get the artwork in, that we would have to have our  
8 final copy much -- we wouldn't be able to have that much time I  
9 don't think. I mean if we were going to wait a month after  
10 tomorrow to get all that initial input that would be stretching  
11 it too far. The only way to -- I mean I'm sure that I can  
12 probably extend that date, I just didn't -- have not done that.

13 MR. RAINEY: Well.....

14 MS. BOESE: I guess my question, is it realistic to think  
15 that we're going to have -- that we will -- will I be able to  
16 leave with some concrete examples and some things that we've  
17 talked about that we can start incorporating in? To keep --  
18 yeah. Yeah. I mean I've gotten some sharper focus for sure,  
19 that's definitely happened. But -- and I've gotten a few  
20 examples. But if anybody has -- I know there probably wasn't  
21 that much time to read the report but if I can -- the more hard  
22 information and more hard input I can get now the faster it gets  
23 in, the faster that second draft goes out and that should be the  
24 part where we really have something and this is basically what  
25 we're going to be doing and then you can -- then we can get some

1 approval on that.

2 MR. MYRTIDIS: If you -- Ann, if you can extend your time,  
3 like you say, why don't we establish right now December 1st as  
4 the publishing date and work backwards and tell us when you want  
5 everything to be ready.

6 MS. BOESE: Well, I said I thought I could probably extend  
7 the time, I haven't actually asked that. That was processed  
8 through NOAA. I don't.....

9 MR. MYRTIDIS: Right. But October 15th doesn't make any  
10 sense because if October 15 expires that means we have to give  
11 you -- have it ready tomorrow basically.

12 MS. BOESE: No, no.

13 MR. MYRTIDIS: If you fix the.....

14 MS. BOESE: I feel December 1st, that gives us too much  
15 time and people forget about it and kind of put it on the back  
16 burner, I feel.

17 MS. DICKINSON: (Indiscernible - away from microphone).

18 MS. BOESE: And I think if we try to stick to that  
19 timeline we're kind of forced into paying attention to it.

20 MR. RAINEY: What if then for just the purpose of having  
21 something that we can look at if we -- and since that's the date  
22 that is there right now what if we took that and then just  
23 backed it up and then, you know, we could see what that looked  
24 like.

25 CAPTAIN HICKMAN: Ann, what do you think you need? The

1 pictures and everything by -- like he obviously said, if we did  
2 it for a month it wouldn't be enough time. So.....

3 MS. BOESE: Well, I have a -- we have a lot of artwork  
4 right now but we just haven't had -- we haven't placed it yet  
5 and we can get artwork. But the -- to me that's not going to be  
6 the difficult part. The difficult part is going to be moving  
7 from where we are now to putting in some actual concrete  
8 changes, refining it, work -- redoing the title and sending it  
9 back out. I -- you're asking me for the production schedule and  
10 I didn't think that there was a -- I didn't think there was an  
11 opportunity to go beyond the schedule that I was given. I mean  
12 I was given deliverable dates. So that's putting another factor  
13 in which I would have to find out if that's realistic. But what  
14 I guess I'm -- I guess what I'm hearing is that people want to  
15 go back home and then send their reports back with individual  
16 comments and the only issue that I would have with that is that  
17 that doesn't necessarily mean that the entire panel agrees with  
18 these ideas. That's why we were hoping to go kind of through  
19 chapter by chapter while we're here if that's a realistic  
20 expectation.

21 MR. RAINEY: Yeah, I know we want to do that as much as we  
22 can and get those specific examples and we'll definitely do. We  
23 can talk more about it tonight and then tomorrow as well. And  
24 it's just knowing when we need to get everything in and we'll  
25 just work with those dates that we have. Bill, did you have

1 something?

2 MR. GRAY: Yes. To me there are three things that really  
3 need to be reviewed and agreed for the committee as a whole.  
4 And one of them is to zero in on what are most wanted issues.  
5 You've got a good list and it's got everything that I would want  
6 in it. At least half of it I'm ready to throw out. So that's  
7 one point. Another one is we've got two sheets here called a  
8 vision for the future. I have no idea what this is going to be.  
9 And I think we ought to spend a little time tomorrow trying to  
10 get down -- what are you -- what are we trying to say in that  
11 vision? I mean when I say budget, cor -- budget, that is enough  
12 money to get the five things that are on our most wanted list  
13 done within a few years, five years or something like that. But  
14 I think we want to agree -- and the third thing, as Ann has  
15 said, is examples and that's where I think to give some real  
16 punch to the report graphically and otherwise here are examples  
17 of NOAA's capabilities in each of the important areas, that  
18 would be one thing, to really get -- so you don't -- if we use  
19 terms like geodesy we're going to lose everybody except the  
20 people who are Geodesists or whatever they are. So we got to  
21 put it into words of one syllable or something like that. The  
22 harder part's going to be to get examples of where do we say --  
23 and this is where the system really has fallen apart completely.  
24 And that's where I say the Athos I, I keep coming back to that  
25 example because there is a totally obvious example where the

1 whole governmental system of assuring that we have a nice safe  
2 harbor in the Delaware River just completely fell apart. And  
3 it's cost the insurers and the owners \$240 million so far. I  
4 don't know, I guess the pollution's gone away down there and so  
5 forth. And the only result we've gotten out of it is that  
6 stupid Congress put -- passed immediately new bills by Delaware  
7 and Pennsylvania to make the liability higher for owners of  
8 single hull tankers. Well, hell, it wasn't their fault, it was  
9 the fault of the government because of the system we've got.  
10 And so I think we've got to get those three things, what are the  
11 most wanted, what is the vision for the future and what are the  
12 specific examples. And we don't have to have a whole raft of  
13 them, it would be better to have not more than one or two for  
14 each of the major points we want to make. And if we can get  
15 those things on the way to being at least thrown out there for  
16 these. And from my point of view if you say if we leave here  
17 giving Ann something like that or Ann -- you and Ann and Steve  
18 can work it out, and if you get that stuff -- feed that stuff  
19 back to us in the next 10 days or something like that and say I  
20 got a week to look at it. That's the kind -- let's set some  
21 fairly nearby goals to get this thing done so that maybe by the  
22 time we get to Labor Day now then we're doing the policies.

23 MS. BOESE: Right, that's what I basically  
24 (indiscernible).

25 MR. GRAY: That's the way I would do it. And we can get

1 Dick West and Rick Larrabee who -- I mean both, not -- because  
2 Rick sent you a note too I think, said this is a good start.  
3 And with the input that those two guys have I think that would  
4 be very helpful.

5 MS. BOESE: Well, should we tackle one and spend another  
6 25 minutes on it, should we try one? Or go with the most wanted  
7 list maybe.

8 MR. RAINEY: Yeah. I think we can see what we can do.  
9 Just -- Glenn, go ahead. Or.....

10 MR. BOLEDOVICH: As you folks know tomorrow I'm going to  
11 be presenting on a reauthorization of the HSIA, which is another  
12 kind of major project where we're looking for your input on in  
13 terms of where we're going to go with this reauthorization. My  
14 first kind of thought is probably not the best thing to put that  
15 on your plate when they're trying to do this report. My second  
16 thought is this report may actually provide me with a lot of the  
17 guidance that I'm seeking. So, I could curtail my presentation  
18 of it tomorrow, I have two hours on the agenda, maybe we can get  
19 through that in an hour and you have an hour tomorrow morning  
20 you could pick this issue back up. So I'm offering back an hour  
21 of my time tomorrow basically.

22 MR. RAINEY: Well, Glenn, I appreciate that. I mean part  
23 of what we're doing this whole meeting is exactly that, it's an  
24 attempt to balance across -- you know, hearing from the public  
25 stakeholders in Alaska as we talked about how much -- you know,

1 how important these services are up here, getting, you know, the  
2 presentations. Glenn's on the HSIA and Dave's on NGS. All of  
3 this stuff and the earlier talk about some of budget issues, all  
4 of this stuff I think feeds in and is relevant to the work we've  
5 been doing and what we want to say and have a marker out there  
6 hopefully and time for a lot of these events that are going to  
7 be picking up, the 200 anniversary, the HSIA reauthorization,  
8 all the things we're talking about. So I think we're onto  
9 something that's timely and appropriate. And so definitely  
10 that's what we want to do tomorrow is to, you know, continue to  
11 work on this. Yeah, did you have a comment?

12 MR. WHITING: Yeah, this is Larry Whiting. I think we  
13 ought to listen to his presentation on the HSIA and put this one  
14 off a little bit. I'd rather listen to the whole presentation  
15 on the HSIA reauthorization. But, you know, this is a good  
16 document, it's a start. You have -- give us at least -- no more  
17 than a week to get our comments back in, that's what I think. I  
18 don't pay attention to this thing a week after this is over  
19 with. You know, the e-mails come in, I glance through them, I  
20 read them, but I don't pay much attention to it more than a week  
21 after and more than a week before. And I'm retired.

22 MR. BOLEDOVICH: Larry, I -- Glenn again. I wasn't going  
23 to curtail the presentation itself, maybe just the discussion  
24 about it. Because I think your priorities for these programs  
25 are going to dovetail very well into that. But I'm certainly

1 going to be looking for some feedback from you folks a little  
2 bit. Anyway, I thought -- I know you're kind of -- you're  
3 scrunched for time and you've got this report on your plate, I  
4 was just going to (indiscernible).

5 CAPTAIN HICKMAN: Scott, I think.....

6 MR. RAINEY: Yeah.

7 CAPTAIN HICKMAN: .....I think Ann's probably cringing  
8 again about Larry wanting to go home and all of us send in our  
9 15 different ideas again. I think we need to take the time and  
10 go over this punch list tomorrow as a group, not 15 individual  
11 thoughts after the meeting here.

12 MR. RAINEY: Well, absolutely. And we're going to do that  
13 as far as we can. As to what our.....

14 CAPTAIN HICKMAN: Can I -- yeah, and I think maybe our  
15 individual thoughts, Larry, might be on typical what we were  
16 trying to show, the individual examples.....

17 MR. RAINEY: Right, right.

18 CAPTAIN HICKMAN: .....thank you, of what we -- what --  
19 the point we're trying to make. I don't think we really need to  
20 all go home and come up with 15 other ideas of how this should  
21 be presented.

22 MS. BOESE: Well, another existing idea, and I have no  
23 idea if this is appropriate or if it'll work. But we could, you  
24 know, kind of split up into a couple little work groups during  
25 some -- a period. If we determine maybe today, tonight, now,

1 that certain number of people will look at chapters one and two  
2 and the other ones will look at three and four and then have a  
3 chance to look at it tonight, talk tomorrow and then we'll have  
4 had some input in a smaller group than a large group and maybe  
5 it'll work a little better that way. Does that make sense?

6 MR. RAINEY: We've got -- on the schedule we've got till  
7 5:30 before we interfere with any, you know, of our following  
8 activities. And I don't know if there's any additional public  
9 comment from what we had. But does the panel have the energy  
10 now to tack -- to jump in, as Ann's suggesting, on a couple --  
11 either the most wanted or -- you know, I agree with what Bill's  
12 saying, those to me seem to be that's the area we need to focus  
13 on. We need to figure out if we're going to have this section  
14 on vision. We talked a little this morning about weaving in,  
15 you know, some of the other things. But we need to start  
16 filling in some fundamental things there or we could also  
17 discuss on the most wanted list if we wanted to talk about that.  
18 But we have the time here, I think we should probably try to get  
19 something out of it to get some momentum going.

20 CAPTAIN MYRTIDIS: Scott, I think if there are no other  
21 public comments the idea of smaller groups could be very  
22 productive. I think we should take a five minute break,  
23 everybody's tired, it's the end of the day, come back, quickly  
24 assign a few people to take one, two tasks and get done with  
25 that. I mean we cannot go back in the beginning over and

1 over....

2 MS. BOESE: No, no.

3 CAPTAIN MYRTIDIS: .....and over again.

4 MS. BOESE: No.

5 CAPTAIN MYRTIDIS: I'm personally tired of it.

6 MR. RAINEY: Okay, I agree. Andrew.

7 CAPTAIN MCGOVERN: Just one -- I agree with Minas but I  
8 think after we do the most wanted list because I think if you do  
9 the most wanted list first then everyone has the focus of where  
10 you're going to go with the rest of the document. If we cull  
11 this list down to whatever amount we do then that's kind of  
12 going to be the focus of the document, right? Does that make  
13 sense.

14 MR. RAINEY: Okay.

15 CAPTAIN MCGOVERN: So I would think if we do that and then  
16 -- you know, okay, then people have -- you know, that's what  
17 you're focusing on is these issues.

18 MR. RAINEY: Okay. All right. Let's do that, let's just  
19 take a quick five minute break then and then we can reconvene  
20 and take a look at the most wanted list.

21 (Off record at 4:56 p.m.)

22 (On record at 5:10 p.m.)

23 MR. RAINEY: Okay, seeing no -- we had some questions on  
24 that there were anymore public comments. There's no more folks  
25 here signed up so I -- what I'd like to do, a lot of talk at the

1 break, I know we're all tired. What I'd like to do is set this  
2 up to take the major sections tomorrow and get folks to take a  
3 look at a particular section, if you've got a section that you'd  
4 like to do. I'd like to kind of just talk about now who can  
5 provide -- who's interested in looking at a particular section  
6 and -- with regard to coming up with some specific hard examples  
7 that we talked about and then tomorrow morning after Glenn's  
8 briefing on the HSIA we can break up into those groups for each  
9 of the sections to capture what we can while we're here on  
10 people's ideas on those examples and then also take a look at  
11 the most wanted list. So what I'd like to do maybe is.....

12 DR. LAPINE: (Indiscernible - away from microphone).

13 MR. RAINEY: Okay. The issue is everybody is pretty well  
14 spent I think tonight and we're right up against our time where  
15 we've got to have time to transition into everything else that  
16 happens tonight. So I'm not in disagreement, I think we're just  
17 simply not really going to be able to get started on that from  
18 the comments I got at the break. So, yes, before we leave here  
19 we're going to discuss the most wanted list and get people's  
20 take on that. We're going to talk about specific examples in  
21 the section. And I have another idea. One of the things that  
22 happened in the draft and -- to get it to this point is that  
23 everybody had a start on it from -- kind of from a different  
24 thing and everybody meaning -- I got to be involved to try to  
25 pull some of my ideas together. We had some copy, NOAA -- Ann

1 took a start on some things. The whole suggested section here  
2 that's blank on the visioning thing, I would like to toss out my  
3 idea that I'm not sure we even want that extra session. To me  
4 it gives us -- it takes us back to the beginning and it seems to  
5 me if we flush out the sections that we have with specific  
6 examples and we have our recommendations on that and that all  
7 feeds into the most wanted list, I mean that tells a story I  
8 think of what the vision that we see or, you know, the near term  
9 deliverables. So to have a separate suggested section on, you  
10 know, the future vision and all of that to me sets up -- sets us  
11 up with a task that maybe we don't even need to go there because  
12 we're doing that by nature of, you know, flushing out the other  
13 existing things. So, I mean, again, I'd like to discuss that  
14 with you so we get this thing scoped. But those are the things,  
15 I agree with what Bill is saying as far as where we need to  
16 focus our attention, you know, while we're here. So I'm not  
17 saying we're not going to do the most wanted list but I think  
18 let's take a look at the sections, at who can take a look  
19 particularly at each of the sections and then tomorrow we'll  
20 talk about the most wanted list, ideas for the section and that.  
21 Andy.

22 CAPTAIN MCGOVERN: I wonder if we should agree on the  
23 sections before we divide them up.

24 MR. RAINEY: Okay. Well, I mean as we've got the titles.  
25 Basically -- everybody has it in front of them, right? So

1 that's -- the starting point will be what we have there. Okay.  
2 So we would have a separate discussion on the most wanted list  
3 to try to get that.....

4 MR. GRAY: The letter from the Chair is the first one,  
5 right? And then -- the letter from the Chair is the first  
6 thing, other than the title. And then you got the most wanted  
7 list. And I don't think -- are those sections? And then you've  
8 got critical connections and that goes on for several -- and  
9 then you've got hydrographic services. And I don't know what  
10 sections are and what chapters are in this. So I don't.....

11 MS. BOESE: I think if we break up into five groups of  
12 four, I think there are 20 people here, and basically assign.  
13 Group one will look at the letter and critical connections.  
14 Group two will look at hydrographic services starting on page  
15 six. So that tonight you can take a look at it individually,  
16 then at 9:15 tomorrow when Glen has so kindly given us his hour,  
17 an hour of his time, you can meet as a group, write some ideas  
18 down, present them to the whole panel. I'll take your sheet,  
19 I'll also be listening, and we can come to some -- we will have  
20 gone through it as a panel once. Do you think -- will that  
21 work, can we do that? Okay. So.....

22 MR. GRAY: (Indiscernible - away from microphone).

23 MS. BOESE: Yeah, let's -- without the most wanted group  
24 one will be pages two through five. So group one would be -- we  
25 can do it just around the table or -- who would like to work on

1 that, five people. One, two, and just -- I'm not going to write  
2 your names down, three. We need another person. Four. Andrew.  
3 Okay. All right. We're onto the next one. Okay, page six and  
4 seven.

5 UNIDENTIFIED MALE: (Indiscernible - away from  
6 microphone).

7 MS. BOESE: Okay. There's one on six and seven, there's  
8 two on six -- three, do I hear a four. Four. Great. Page  
9 eight and nine which is NOAA emergency response. That'll be --  
10 okay, we need four people to work on page eight and nine that  
11 aren't working on another section necessarily. Who isn't in a  
12 group yet? Okay, one, two, three, one more. Four. Okay.

13 CAPTAIN ARMSTRONG: I still have a fundamental problem  
14 with the categories that we have here. I just don't think they  
15 match what we're trying to say. If we have 10 most wanted that  
16 doesn't say anything about resilient coastal communities what in  
17 the world do we have a section about resilient coastal  
18 communities for? Similarly we don't have any -- if we agreed  
19 earlier today that we were going to talk about the full scope of  
20 ocean mapping in NOAA, we don't have anything that's talking  
21 about resource support or habitat mapping or all of those other  
22 things that are involved in the integrated ocean and coastal  
23 mapping, we don't have a section on that. I just -- I don't  
24 think we're at the point of dividing up the sections yet, I  
25 think -- you know, maybe I'm alone but I don't think we got the

1 sections right.

2 UNIDENTIFIED MALE: I agree.

3 MR. RAINEY: All right. Then let me ask this then. Could  
4 everyone -- what we'll do, we'll start at the top with the most  
5 wanted list and we'll work it out until we've got a consensus  
6 and then we'll see where we are with that as far as if we need  
7 to change that. Okay? All right. And we'll do that as a -- in  
8 plenary so to speak and then we can break from there. Okay.  
9 All right. Okay, so if everybody then would focus on that, you  
10 know, to the extent we can tonight, and we'll pick up there in  
11 the morning and then we'll see where we are, we'll move forward.

12 CAPTAIN MCGOVERN: Scott, Andrew McGovern. Maybe real  
13 quick we could probably throw out a bunch of these -- even if we  
14 can't finalize the most wanted list now we could probably cull  
15 it. You know, as Bill said before, there are some of the things  
16 that are good, they're just not a most wanted. So maybe we  
17 could very quickly go through these and say, you know, before we  
18 get into the weeds these three can just, you know.

19 UNIDENTIFIED MALE: (Indiscernible - away from  
20 microphone).

21 MR. RAINEY: Okay.

22 MR. GRAY: Bullet number three, eliminate the backlog of  
23 critical hydro -- that should be one of them. Number four, five  
24 -- number six, expand existing real time tide, current, et  
25 cetera. The bottom one on that -- on the left, conduct full

1 bottom coverage in the federally maintained channel. Those to  
2 me are the three most important things that I feel should be  
3 done. I would add to that something and I don't know how to put  
4 it. But that somehow emphasizes -- as Elaine pointed out,  
5 there's really nothing in this whole paper about the  
6 recreational community and what we're going to do on that. But  
7 I think it should somehow appear in there, something they'd be  
8 able to relate to. Because I'm not sure that these ones that I  
9 think are the three most important are that important to the  
10 recreational community but there may be something else that is.  
11 Then things that I would be happy to dispense with is the second  
12 one on the first column, improve the efficiency of NOAA's  
13 contracting process. Well, sure, go ahead and do it, doesn't  
14 have to be a most wanted. I don't know where I come out on  
15 replace the aging fleet. But over on the right hand column, the  
16 first full one there, implement new surveying and mapping, so  
17 forth. I don't think that's that important. Increase  
18 investment in emerging mapping. That's pretty vague. Develop  
19 new and expanded partnerships to enhance -- that's pretty vague.  
20 I would either turn all those into one or just get rid of them  
21 for now because these are just do the job you're supposed to do.  
22 They're not things that I think are going to be big money, big  
23 ticket items which we really need money whereas those first  
24 three I pointed out, those things you really need some dough to  
25 do them. And that's what you're trying to do with this thing I

1 think. So that's kind of where I come out as a -- that's why I  
2 made the suggestion that I don't think we want 13 items in this  
3 thing. So that's a proposal, or the start of a proposal.

4 DR. LAPINE: I would take the three that Bill doesn't  
5 think are very important on the second column, the implement new  
6 surveying mapping, increase investment and develop new and  
7 expanded partnership and build one item out of those three.

8 MR. GRAY: Fine.

9 DR. LAPINE: That'll (indiscernible).

10 MR. DASLER: I agree with that. I was -- what I was going  
11 to add because the problem is we're collecting more data than we  
12 can process and get on the chart and we do need to address that.

13 MR. RAINEY: What if, folks, if we went and you numbered  
14 these, you prioritized them and you crossed out the ones that  
15 you didn't think merited a number and then we can consolidate  
16 that tomorrow rather than getting everybody's kind of variation.  
17 And if you have something that is not on the list.....

18 DR. LAPINE: Scott, I don't think we need to eliminate  
19 any, I think they need to be folded in.

20 MR. RAINEY: Okay. But.....

21 DR. LAPINE: Replace the aging fleet, improve the  
22 efficiency of contracting all contributes to eliminating the  
23 backlog of critical hydrographic services. And same thing with  
24 the shoreline one. So what we need to do is build four or five  
25 overreaching thoughts which then we could have four or five

1 sections in here that address each one of them. And we don't  
2 have to throw away anything, kind of got to rearrange it a  
3 little bit.

4 MS. BOESE: Can we get those four -- can we work and  
5 consolidate and get some wording down for, you know, folding  
6 these three together, could we do that tomorrow at 9:15?

7 UNIDENTIFIED MALE: I think we could do that maybe even  
8 this evening.....

9 MS. BOESE: Okay.

10 UNIDENTIFIED MALE: .....in those groups you were talking  
11 about.

12 MS. BOESE: That'd be great.

13 MR. GRAY: I don't want to talk anymore tonight.

14 UNIDENTIFIED MALE: Speak for yourself, huh?

15 MR. GRAY: You can have the room to yourself. We're going  
16 to the (indiscernible).

17 UNIDENTIFIED MALE: Just following.....

18 MR. SKINNER: I don't know if this is on, I guess it is.  
19 I mean I'm happy to take a stab at putting together like the top  
20 five based on -- and five, there's no rhyme or reason to it,  
21 it's just a good number, based on what Bill and Lou have said.  
22 And people can start with that tomorrow if you want.

23 DR. LAPINE: So -- this is Lou again. Tom, are what you  
24 saying is the three that Bill suggested plus the amalgamation of  
25 the three I suggested plus recreational boating are the five?

1 MR. SKINNER: I think -- well, I would have taken the  
2 three that -- Bill's three from the right, one from column A,  
3 three in the first column and then combining the three that you  
4 and John were talking about and then one that talked about the  
5 other uses of this data as the fifth recommendation and then  
6 that section we would address the things that I think Andy was  
7 talking about. That we don't have the, what is it, protecting  
8 communities or resilient communities and emergency response.  
9 We'll be able to address how this data could be used in other  
10 applications but the top four would be navigational related.  
11 And if I had heard someone make this offer I would say yes and  
12 run for the bar.

13 MR. RAINEY: That sounds fine Tom, thanks. Andrew.

14 CAPTAIN MCGOVERN: Yeah, I think, you know, you can -- I  
15 mean if you took that -- the one bullet, the first bullet Bill  
16 said, eliminate the backlog of critical hydrographic surveys.  
17 What fits under that? Bullet number one, bullet number one,  
18 bullet number four, bullet number five. And on the second  
19 column the implementation of surveying and those three that Lou  
20 mentioned before, they all kind of fit under eliminate the  
21 backlog to critical hydrographic surveys, right? Every single  
22 one of those fits under that one bullet. That's how you do it,  
23 take all those things. Yeah, so maybe we -- you know, that's a  
24 big bullet, eliminate the backlog of hydrographic surveys by,  
25 you know, all those things and then -- you know, a couple of the

1 others and you could -- I think five is probably a good -- you  
2 know, you could just say, you know, this is the five most wanted  
3 and we could fit everything we want into five -- they may be  
4 bigger bullets but there'll be five bullets. Then you can  
5 expand them back in that -- maybe the five -- maybe the  
6 sections, we got five sections that match to five most wanted  
7 and those five sections then flush out. You know, so maybe we  
8 don't have to say it, maybe we got to think a real catchy --  
9 eliminate the backlog of critical hydrographic services, that's  
10 it. And then the section takes all those other bullets and  
11 brings them in and.....

12 MR. SKINNER: I think -- one of the ways I thinking of it  
13 was maybe just have -- I like eliminate the backlog of critical  
14 hydrographic surveys. And then sort of an indentation of like,  
15 okay, you know, this is what you need to do to do this, very,  
16 very short, and then go on to the next one so that if someone is  
17 just looking through it they're like, okay, here are the main  
18 points. If they're like, well, I don't really understand that  
19 there's something that says this is really what we mean here.  
20 But I think it's really important that -- to limit the number of  
21 most wanted because then it sort of -- the message gets lost in  
22 the sauce.

23 MS. BOESE: I think that would be just excellent. We  
24 accept the offer.

25 UNIDENTIFIED MALE: Well, I'm not voting but I suggest you

1 take up this offer.

2 MS. BOESE: Absolutely.

3 MR. RAINEY: Okay. Okay, Barbara has an announcement for  
4 us for tonight.

5 MS. HESS: (Indiscernible - away from microphone).

6 UNIDENTIFIED MALE: What's the dress code for tonight?

7 CAPTAIN BARNUM: Consensus here that we dress down,  
8 business casual, so we can eliminate the ties if you so wish.

9 UNIDENTIFIED MALE: (Indiscernible - away from  
10 microphone).

11 CAPTAIN BARNUM: You're welcome to wear it. I'll have the  
12 same outfit on.

13 UNIDENTIFIED MALE: (Indiscernible - away from  
14 microphone).

15 CAPTAIN BARNUM: And Barbara already talked about the  
16 logistics for tom -- or tonight for the steakhouse. One other  
17 thing, I was talking to Jack, it rung a bell about the  
18 priorities. And one of the points our Secretary, Secretary of  
19 Commerce, of which this report may be provided to him, and that  
20 is too many priorities are no priorities. And so that's one of  
21 his points. So if we want this to resonate with him I think  
22 you're on the right track.

23 MR. RAINEY: Okay. Thanks very much.

24 (Off record at 5:30 p.m.)

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TRANSCRIBER'S CERTIFICATE

I, Nicolette Hernandez, hereby certify that the foregoing pages numbered 2 through 265 are a true, accurate and complete transcript of proceedings of the National Oceanic and Atmospheric Administration, Hydrographic Services Review Panel, held August 14, 2006 at Anchorage, Alaska, transcribed by me from a copy of the electronic sound recording to the best of my knowledge and ability.

9/6/06

Date

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