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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
HYDROGRAPHIC SERVICES REVIEW PANEL

Volume II

Anchorage, Alaska

August 15, 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

(On record at 8:03 a.m.)

MR. RAINEY: We've got several forms that you had in the back flap of the three ring binder, there are a couple travel forms and also in the folder, I also found two other forms in my folder. So in the back of the binder in here we need to sign where they're highlighted and then get these forms back to Barbara, Steve and Virginia.

I'd like to take just a second and do a quick overview of where we are today. Before we start I wanted to again thank our sponsors for last night's reception and special thanks to Mr. Taylor Morrison who came and showed his artwork and book and talked about the coast mappers and -- I came back to the hotel room and read it last night and it's just a terrific work, I really -- really impressed. And I just wanted to read the opening paragraph of it. Since the beginning America is dependent on commerce to grow into a powerful nation. Successful commerce relies on the safe passage of ships in and out of harbors. Almost all things people use everyday have traveled over water at some time. Clothes, food, cars and oil are just a few of the millions of tons of goods that are carried into U.S. ports. However, storms, fogs and collisions have claimed many victims at sea. Ship captains, passengers and merchants have always entrusted their lives and precious cargo to maps of American waterways. Who has been making these

1 nautical charts for almost 200 years? And then if you go
2 through -- it's just a fantastic work and a really interesting
3 story and we really appreciate having Taylor with us at the
4 meeting, made that a special occasion. So thanks again to the
5 sponsors for last night, John Oswald and Associates, Tenix,
6 TerraSond and David Evans and very much appreciate all the help
7 you guys did to help set up this meeting.

8 I'll turn it over to Captain Barnum here in just a second.
9 If the public could do us the favor of signing in again. We
10 have a public sheet for each day and if you could make a mark if
11 you have some public comments that you'd like to make. That'll
12 help us in our scheduling for the meeting. We took some public
13 comments yesterday, we have a panel of some stakeholders from
14 Alaska here today and then we have some more opportunity for
15 public comment and we very much value your input.

16 Just taking a look ahead what we're going to accomplish
17 today, we have a couple of presentations and briefings. Glenn
18 Boledovich from NOAA will talk about the reauthorization of the
19 Hydrographic Services Improvement Act. Following Glenn's
20 presentation we'll resume work on our special report. I
21 mentioned that we have an Alaska stakeholder panel, Molly
22 McCammon from the Alaska Ocean Observing System will moderate
23 that for us and then Commander Baird will talk to us about the
24 Hydrographic Survey Priorities Plan and we all had a copy of
25 that before the meeting and hopefully we'll have some comments

1 or recommendations for Commander Baird.

2 I talked with Ann and Tom Skinner and we have I think a
3 good plan and approach for working on the special report. And
4 I'll -- what I'll do is I'll talk to about that more in detail,
5 how I think we can best proceed there when we get to that. So
6 I'd like at this point then to turn it over to Captain Steve
7 Barnum.

8 CAPTAIN BARNUM: Thank you, Scott. I'd like to also echo
9 your appreciation for the reception last night, that was very
10 nice and certainly to Taylor Morrison for the very fine
11 presentation he gave us and the beautiful book that he has done.

12 I'd like to -- just to give a quick Hydrographic Surveys
13 Review Panel mission overview. So to remind the panel members
14 as well as the members of the public, the mission and the goals
15 of the Hydrographic Services Review Panel. The Hydrographic
16 Services Review Panel, HSRP, is governed by the Federal Advisory
17 Committee Act and was established by the Hydrographic Services
18 Improvement Act Amendment of 2002. This panel is charged with
19 advising the NOAA Administrator on matters specified in the
20 Hydrographic Services Improvement Act specifically related to
21 hydrographic services. Hydrographic services are those services
22 provided by three programs within NOAA, the National Geodetic
23 Survey, the Center for Operational Oceanographic Products and
24 Services and the Office of Coast Survey. The panel membership
25 consists of 15 voting members. These are non-government

1 employees appointed based on their particular expertise.
2 Members of the panel do not represent the organizations or the
3 entities that they are employed by but again they are on the
4 panel by mere fact of their particular expertise. There are
5 three non-voting members consisting of government employees, one
6 being Andy Armstrong, the Co-Director of the Joint Hydrographic
7 Center, and there are provisions for two additional government
8 employees. These are currently the Director of the National
9 Geodetic Survey, Dave Zilkoski, and the Director CO-OPS, Mike
10 Szabados. Our meetings are held minimally twice a year,
11 although this panel has established a pattern of approximately
12 four per year. With that I'll turn it back to Scott.

13 MR. RAINEY: Thanks, Steve. As Steve gave us the outline
14 of the membership and things and we do have a piece of business
15 that I'd like to take care of now. We talked about it yesterday
16 and we deferred till today but what I'd like to do is open the
17 floor for nominations to fill our Vice Chairman vacancy. The
18 mechanics, what I propose is we have a written list of names and
19 if we could have nominations made or ask individuals that are
20 interested to make it known then we can take a vote, just circle
21 the name of the person you'd like to vote for and then we can
22 give it to Barbara and she can let us know the results of that.
23 That's how I'd like to proceed. So at this time could I open
24 the floor then for nominations for Vice Chairman.

25 MR. DASLER: Yeah, I would like to nominate Admiral West.

1 MR. RAINEY: That's an easy one. Is there a second?

2 CAPTAIN HICKMAN: I was thinking we could nominate Helen's
3 replacement.

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

6 MR. RAINEY: Yeah. I know that there -- the process has
7 been undertaken to -- and there's been, you know, some
8 discussions but I don't have a timeframe on how soon that person
9 would be announced and go through the process of clearance for
10 the special government employee. So I don't really know if
11 that's a -- if that would be a feasible option. I make the job
12 look harder than it is, it's really not a big deal.

13 CAPTAIN HICKMAN: Scott, I really think the problem is --
14 I voiced to you last night, is that there is so much time
15 involved in it. And I don't really know how you accomplish what
16 you accomplish and -- although I'm sure that there's some that
17 would be involve -- would like to be involved, it's just so time
18 consuming that I think anybody that might even entertain the
19 thought knows that they don't have the time to do what you do
20 for this panel.

21 MR. RAINEY: Well, I appreciate that and I have -- I have
22 enjoyed being Chair and I'm real excited, terrifically excited
23 about what we're working on, the special report, and the new
24 synergies or partnership and the support with Jack Dunnigan and
25 Steve Barnum and the continued excellent support from Barbara.

1 So I really think that we've kind of hit our stride a little bit
2 here and I think that we're going to make good on the intent of
3 Congress when they chartered this group. So it's been a real
4 privilege for me to work with you guys so far and -- I think it
5 would be helpful to have a Vice Chair, and we can again kind of
6 figure out on the fly how -- you know, what we can do. But just
7 as far as having some -- you know, some extra help and some --
8 you know, some continuity as we move forward. But -- you know,
9 it's a voluntary sort of position so -- I don't know, if there's
10 no new interest here we can table it until we can do some more
11 arm twisting. Lou, did you have a comment?

12 DR. LAPINE: Yes. I know we're all busy and we've done a
13 lot of productive work already. We all fear that we're going to
14 have to work as hard as you have, which I don't know how you've
15 done it. But there is someone in the room for fear of
16 retribution that I'll be nominating. I think that Tom Skinner
17 would do an outstanding job in helping you and so with his
18 permission I would nominate Tom.

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

21 UNIDENTIFIED MALE: I'll second that.

22 MR. RAINEY: All right. Tom, do you -- is that -- do you
23 accept the nomination?

24 MR. SKINNER: Sure.

25 MR. RAINEY: Okay.

1 MR. SKINNER: Oh, mic. Sorry. I thought it was like, my
2 name's Tom.

3 MR. RAINEY: Can you spell that? Yeah.

4 MR. SKINNER: Sorry. I need another cup of coffee.

5 MR. RAINEY: All right. Well, are there -- is there a
6 need for any further nominations or should we call the vote?
7 Seriously, are there other folks that would be interested? Or
8 we can -- all right. Well, I think Tom would be a great --
9 excellent choice and why don't we move the -- move it to a vote.
10 Let's go ahead, since Tom is running virtually unopposed then
11 why don't we just get a -- is that?

12 CAPTAIN MCGOVERN: If you need a motion I'll -- Andrew
13 McGovern, I'll motion to close the nominations and
14 (indiscernible).

15 MR. RAINEY: Okay. I'm not trying to rush it. I mean
16 seriously if there's other people interested please let me know.
17 But -- okay. All right, so we have a motion to close the
18 nominations then.

19 UNIDENTIFIED MALE: Second.

20 MR. RAINEY: All right. In favor of closing say aye.

21 SIMULTANEOUS: Aye.

22 MR. RAINEY: Okay. All right. Let's just take a vote
23 then. In the interest of time I don't think we'll have to write
24 it down. Could I have a showing of hands of those -- for Tom.
25 Okay. Okay. All right. Was everybody in on that? Is there

1 any opposed? Okay, I didn't see everybody's hand, but all
2 right. Okay, then I think we have elected Tom Skinner as our
3 new Vice Chairman. Thanks very much. Tom, if you want we got a
4 seat for you.

5 All right, well thanks very much. And again, I appreciate
6 everybody's efforts and I know that this is a big undertaking
7 and, you know, what we're trying to accomplish and, you know,
8 really welcome Tom's, you know, help and everybody's continued
9 support. And let me turn it over then to Glenn if he's here.
10 Yeah. Oh, right behind me. Okay. And we'll go ahead and start
11 our -- going on our agenda here. Glenn's going to talk to us
12 about some issues on the Hydrograph Services Improvement Act
13 reauthorization.

14 MR. BOLEDOVICH: Good morning. Can you hear me okay?
15 Okay. Mr. Chairman, Mr. Vice Chairman, that'd be you Tom.
16 Pleasure to be here. I was here just about exactly a year ago
17 to talk to you folks about the contracting policy and get your
18 input on that. As Captain Barnum reported yesterday, that
19 policy is now actually I think at the Federal Register, it's
20 completed, I thank you for your contributions there. And I'm
21 back once again to talk to you about another pretty important
22 matter, it's the reauthorization of the Hydrographic Services
23 Improvement Act.

24 As you know, this panel is authorized under that Act and
25 it's our primary conduit to the public and constituencies, at

1 least for an initial entree and the HSIA is the primary statute
2 for these programs so your contributions are very important and
3 valued and I think I speak for Jack and myself, I do work for
4 Jack in the policy shop of the headquarters of the Ocean
5 Service. I have a member of my staff here, Bruce, and kind of
6 our commitment to work through this reauthorization process and
7 work through you and get your input is high, we value your input
8 and your comment. Kind of the key procedural question for you
9 today is how do you -- how I work with you throughout this
10 process. So I'm going to kind of give some background, then we
11 have a few minutes to discuss at the end.

12 And -- we can go to the next slide please. So the -- kind
13 of the entree question there is what role does the panel seek to
14 play in the reauthorization and then kind of the bigger
15 substantive questions are, you know, what changes might we make
16 to advance NOAA's abilities in these areas. Obviously to
17 improve them and deliver better products and services. Another
18 question is what about the bigger world out there, is there
19 anything in the reauthorization that can -- we can use to
20 augment the role of these programs and the bigger issues of the
21 Marine Transportation System, which was discussed yesterday with
22 Helen Brohl taking over that group, kind of big areas of marine
23 ecosystem and resource area management, certainly Admiral
24 Lautenbacher's priority for the Earth Observing System and the
25 Integrated Ocean Observing System and then the whole notion

1 that's kind of emerged since the commission reports on
2 integrated ocean and coastal mapping. There's been some
3 independent legislation on those issues, obviously of interest
4 to these programs, and then the whole role of these programs in
5 science and technology for the country in general.

6 So those are kind of some of the bigger scale issues. In
7 terms of in general, you know, the Hydrographic Services
8 Improvement Act is -- really authorizes, as you know, services
9 programs, there's not a lot of controversy, it's not a highly
10 regulatory mission and -- I don't want to underplay the
11 importance of reauthorization but it's not a major point of
12 controversy. I talked to John Rayfield about his views on
13 reauthorization yesterday of course since he was here and I'll
14 talk about that a little bit more later. I think ultimately for
15 these programs, as I heard from you folks yesterday, that really
16 what it comes down to is the annual appropriations for them.
17 The nation's commitment to these programs is authorizing them in
18 law but then following through and actually funding the services
19 that are authorized. So I'm going to provide a little historical
20 context for you here this morning and my real goal is to
21 initiate some conversations with you folks and determine how
22 we're going to interact kind of going into this process. As you
23 know, the Act, the authorization lapses a year from September so
24 we do have some time here.

25 Next slide please. The primary legal authorities for

1 these programs are the Coast and Geodetic Survey Act of 1947,
2 the HSIA itself as amended in 2002 and kind of a little known
3 Statute, the Chart Pricing Statute, as well.

4 Next slide please. Kind of the brief history as you folks
5 know is, like certainly we learned last evening, again we were
6 reminded last evening again, these programs have been around a
7 long time. First authorized by Congress and supported by
8 President Thomas Jefferson in 1907. Changes over time kind of
9 culminating in the Statute of 1947. The programs were then
10 merged, the Coast and Geodetic Survey were merged into NOAA when
11 it was -- when NOAA was created in 1970 and at that time NOAA
12 took on a lot of other major missions. And as John Rayfield
13 pointed out kind of from that time as NOAA was kind of being
14 formed and took on all these new programs, these programs got a
15 little bit lost and they kind of reemerged here in the 1990's
16 culminating the passage of the HSIA and then ultimately
17 reauthorization in 2002.

18 Next slide please. Kind of some of the factors leading to
19 that renewed interest, this is major expansion of maritime
20 commerce in virtually all areas, geographically, the size and
21 nature of the vessels and the draft especially. And of course
22 technologies have changed rapidly. All of a sudden how are
23 these programs going to move into the digital age, a question
24 still before this group. And then of course the big event, the
25 Exxon Valdez, certainly triggering some interest from the Alaska

1 delegation. As John pointed out yesterday, it was Congressman
2 Young who first introduced the HSIA and introduced the
3 reauthorization and at that time he was Chairman of House
4 Resources Committee. And of course the big issue that was
5 presented back then was this backlog of surveying requirements
6 and how to implement new bottom -- full bottom coverage surveys
7 to help reduce that backlog. These was also an economic
8 analysis done by Woods Hole Institute and, you know, one of its
9 conclusions was that the implementation of modern charting,
10 surveys and digital charting could have benefits equal to double
11 hull tankers for oil tanker traffic in terms of reducing risk.
12 So those are some of the factors that kind of led to this
13 renewed interest.

14 Next slide please. In terms of passage itself, there were
15 hearings held in 1997, a lot of members of the maritime
16 community testified, certainly NOAA did, kind of the scope of
17 the backlog kind of came before Congress and the benefits of
18 modernizing these services. The Bill was drafted in committee,
19 it was not drafted by the administration or by NOAA. And the
20 clear intent of the Bill was to augment and update the Act of
21 1947. The Bill was appended to a package of ocean Bills at the
22 end of the 105th Congress and enacted.

23 Next slide please. Kind of the major provisions which are
24 define what they meant by hydrographic data and hydrographic
25 services, those were defined separately in the Act. It listed

1 the responsibilities of the administration. These were kind of
2 the shall provisions of things that we shall do. Then it had a
3 list of authorities, things that we could do, kind of the may
4 provisions and those are two key words in statutes that you
5 always want to look out for, whether they say you shall which is
6 a mandate from Congress or may which is Congress giving you
7 discretion to go forward with something. And of course the Act,
8 one of the big things it did was require use of the Brooks Act
9 for contracting for acquisition of hydrographic data and it
10 supported increased contracting in general. It authorized a
11 quality assurance program, it had several reporting requirements
12 and of course the authorization of appropriations, kind of the
13 authorizing committee in Congress saying what these programs
14 optimally will be funded at, and it authorized the number of
15 NOAA Corps officers.

16 Next slide please. The amendments in 2002, it broadened
17 the scope of PORTS to include more real time, just real time
18 systems in general, and it said we shall to the extent that
19 there's funds available fund these types of activities. It also
20 promoted the use of these products in support of marine
21 conservation in other matters, a topic which was discussed
22 briefly yesterday, how do these programs fit in with other NOAA
23 missions. It made the quality assurance program mandatory, that
24 we create that program, which we did. And probably most
25 important for this group, it established this panel, I think an

1 important point for us. And it authorized the program to 2007.
2 Another little known thing, at the end of the authorization of
3 appropriations, this was the first reauthorization after 9/11,
4 it specifically added an authorization for appropriations in
5 support of homeland security over and above the other
6 authorization levels. And that's a topic that's come up in our
7 early discussions for reauthorization, you might want to expand
8 that language in light of the work that we did in response to
9 natural disasters so that there's kind of a message there that
10 these programs are programs that will and should be called upon
11 in those times.

12 Next slide please. Kind of our goals for reauthorization
13 is obviously to develop the best Bill possible. I've talked
14 with Jack Dunnigan about this, we do intend to work on
15 developing an administration Bill in a proposal and we intend to
16 work through this panel and kind of vetting and getting ideas to
17 do so. Kind of our goal is looking at a little bit more than --
18 less than a year from now of having a Bill ready for
19 introduction, getting it cleared through the process. I'll talk
20 about that just a little bit. The process for getting a Bill is
21 we'll work with our programs to develop it and it'll be cleared
22 by Jack Dunnigan and it needs to go and be cleared by NOAA, by
23 the Department of Commerce, it needs to be sent to OMB at the
24 Whitehouse at which point they will send it to every other
25 agency for review. That would include the Coast Guard, the Army

1 Corps, USGS and any agency that may be interested, the Navy
2 certainly, and they'll have their comments come in and all that
3 needs to be concluded before the administration will submit a
4 Bill to the Hill. Kind of our goal is to get reauthorization
5 during the next Congress. I realize that that is a year longer,
6 after the authorization technically expires. We could have a
7 little bit of discussion about that but just that is not a fatal
8 issue. The Clean Water Act has not been reauthorized since I've
9 been in Washington in 11 years and certainly Congress continues
10 to fund those programs. And also the Act of 1947 provides
11 permanent authority for these programs. Its authorization of
12 appropriations is not by a set number of years, it just says
13 such sums as may be necessary. So it kind of provides an
14 underlying permanent authority. Technically unauthorized
15 programs where their authorization ends are subject to a point
16 of order in Congress. This issue comes up once in awhile more
17 as a threat than anything. It's -- I've never seen it invoked
18 as a reason for not supporting programs with funding. So that's
19 kind of our take on that.

20 Next slide please. Kind of what I'm here to kind of get
21 an initial view from you folks on is what kind of scale do we
22 want to think about, what's your advice on that. Here it says
23 three kind of obvious simple proposals, kind of go with the
24 status quo. This is kind of the if it isn't broke don't fix it
25 approach. Kind of a middle ground are some things that would be

1 nice to have but maybe not be real controversial and then to
2 think big, what -- there are some major revisions that we should
3 be considering. I'll talk about each one of those.

4 Go to the next slide please. You know, there's some -- a
5 few pros and cons to each of these. Status quo, obviously make
6 our job a lot easier to get a proposal cleared through the
7 process I just described, probably fewer obstacles in Congress,
8 and it maintains our current authorities. A con is it doesn't
9 really reach out and try to broaden and strengthen the HSIA or
10 the programs under it and it may be a missed opportunity to try
11 to work to -- to work these programs into a larger integrated
12 picture. In terms of the status quo, I talked to John
13 yesterday. His initial intent was that's pretty much what he
14 intends to pursue. And whether the administration puts forward
15 a Bill or not Congress is certainly free to propose its own
16 legislation and John indicated that he's talked with Congressman
17 Young and they intend to do so and they tend to go for something
18 more along this approach is his initial take. He did say we
19 should talk and certainly when we get back to Washington we will
20 so I'll be having those discussions with him. But since
21 Congressman Young has been kind of the lead on this that
22 certainly will be a first point of contact on the Hill.

23 Next slide please. Kind of a middle ground. This would
24 allow us to kind of mull over some of the maybe quirks in the
25 Bill, things that haven't worked well. Talked to the programs

1 about this a little bit already, I'll have a list of some ideas
2 I'll put up. Obviously anytime you go for opening up issues you
3 may create some obstacles, more questions, could slow the
4 clearance and the Congressional process. And again, by taking a
5 more modest approach are we taking full advantage of this
6 opportunity to revisit the Act. Which is basically what a
7 reauthorization is. The programs don't end when these
8 authorizations expire. What it is is kind of a signal to
9 Congress and to the agency that it's time to take another look.
10 That's pretty much where we're at here.

11 And finally the think big slide. This would be an attempt
12 to really broaden and strengthen the authorities in the Act,
13 probably take advantage of integration into the bigger picture
14 some of the things that have emerged like integrated ocean and
15 coastal mapping. This would create a bit of a longer timeline
16 to develop those ideas and to vet them. Certainly it'll lead to
17 more questions as we go through clearance and probably some
18 significant outreach then to explain our reasoning for these
19 provisions.

20 We have -- I've talked to the programs and we've kind of
21 put together a long list of some ideas. I didn't intend to go
22 through them. I'll let you look at these, folks. Like I said,
23 initially I'm just kind of here to kind of -- to get your sense.
24 We're not committed to any one of these, they're just -- they're
25 kind of some ideas. One of the ideas that kind of emerged is

1 even if we don't change the authorities of the program is there
2 something we can do in reauthorization to kind of raise the
3 profile or prestige of these programs. Which kind of triggered
4 a thought in me yesterday when you folks were talking, I was
5 listening to you and I kind of got a sense that there's --
6 whether it's in the NOAA process or the Congressional process
7 that there's a bit of a Rodney Dangerfield thing with these
8 programs, they don't get the respect and the attention that they
9 deserve. And -- so some of the ideas we had with that, things
10 that are already true. For example, the Director of the Coast
11 Survey is the nation's hydrographer and the rep to the IHO and
12 putting something like that in the Statute and just kind of
13 raise the prestige of these programs, that these programs are
14 important and they're important internationally. And things
15 like that, they're not necessarily controversial but kind of
16 pointing out that these programs are the national authority in
17 the areas that they exist, whether it's geodesy or tides and
18 water levels. And in fact there's quite a bit of history of
19 legal authority from the courts, especially regarding boundary
20 disputes and when there's issues of boundaries that involve
21 these programs this is where they turn to. They don't come to
22 us and say what's the boundary but what are the baselines, how
23 do we determine them and using us as the authority. This is
24 something we might want to do statutorily to that that would
25 kind of help raise the prestige of these programs as well.

1 Sure, please.

2 MR. GRAY: I see that one that says identify NOAA as the
3 national authority for hydrography, tides, water levels,
4 shoreline, geodesy, spatial reference. We got into quite a
5 discussion yesterday and we have periodically that there are
6 various organizations doing more or less the same thing and
7 coming up with different answers. I would agree that that's
8 happening. It would seem to me that it would be a very sensible
9 thing to identify one source of authority for all that type of
10 information within the federal government. Who is going to
11 object to identifying NOAA as the national authority for that
12 information?

13 MR. BOLEDOVICH: The Army Corps of Engineers, USGS, I
14 could think of a few. These are -- like I said, these are ideas
15 that came forward and some of these are -- you know, to some
16 extent we are the authority in some very specific areas. I
17 don't think we get a lot of questions like on geodesy for
18 example, nav referencing or the tides. But to put us as the
19 authority for mapping or something might be -- have to be very
20 careful. And like I said, there's other ideas that have come
21 forward. No one's really put together any language or we
22 haven't even -- kind of even thought about how exactly we would
23 go about doing this. But as I did mention, anything we do
24 propose will -- those agencies will get a chance to review
25 before this would ever get to the Hill. And -- so that's

1 something that we're thinking about in the.....

2 MR. GRAY: Well, in the context of this committee, going
3 back about a year and a half ago I suggested that we make a
4 recommendation that all the federal entities involved with
5 spending money for marine safety in our harbors should put
6 together one single list of what the priorities are for spending
7 money. And as I said there, I think I could take two-thirds of
8 the buoys out of Long Island Sound, they're not needed, and the
9 money that would be saved by doing that would probably overwhelm
10 what NOAA's doing on the hydrography issues. I mean to me
11 here's the United States, we have over half the legitimate
12 navigation aids in the entire world. Do we need that many? But
13 we pay for them. And Army Engineers get an enormous amount of
14 money. And I'm hoping, but I don't know whether it will happen,
15 that the committee on the MTS at cabinet level will take that
16 kind of thing under consideration seriously. Because I know
17 before that was a cabinet level committee there was a national
18 committee for about five years and it didn't do a damn thing.
19 And I talked with the people that we can't do anything because
20 we have no money, we have no budget authority, we've each got
21 our own budgets and we've each got our own boss. So we're not
22 going to do much more than listen to what people tell us but
23 we're not going to rock the boat. And it is time as far as I'm
24 concerned that somebody should at least consider rocking the
25 boat a little bit. And something like that I think

1 (indiscernible). So maybe it's something that the HSRP should
2 consider, whether we make a recommendation that that be taken
3 under consideration either in the context of the CMTS or just
4 another HSRP recommendation.

5 MR. BOLEDOVICH: Right. And whether we do it in a
6 proposal to reauthorize the law is another question because that
7 opens up the Pandora's Box associated with that. There may be
8 some other avenues to address those issues and clearly the CMTS
9 and its reestablishing that you folks discussed a bit yesterday
10 is an avenue without having to deal with any kind of a legal or
11 Congressional action. And that's always something you want to
12 consider. The head of NOAA's legislative affairs, we went to
13 talk to him about legislation for the Integrated Ocean Observing
14 System, he says but what's stopping you from doing that now, do
15 you really want Congress to step in here. And I think as a
16 threshold question, because it does open up that whole political
17 process up on the Hill and it's always something to consider.
18 Even if we have a proposal from this panel to go forward with an
19 idea it doesn't mean it has to be done necessarily in the
20 Statute.

21 I have another list, kind of continuation of the -- of
22 some issues for consideration. Next slide please. You know, is
23 there anything about the authorization for this panel we might
24 want to consider. I mentioned disaster and emergency response.
25 Including a finding and purposes section. John Rayfield is not

1 a fan of those at all. I kind of am because they don't --
2 they're not legally binding but many laws when you look at they
3 tell you why Congress is acting this way, we find that marine
4 commerce is important and the purposes of these Acts and it kind
5 of creates a rationale or almost a justification for why these
6 programs exist to underpin the actual statutory provisions that
7 follow. But certainly there's a variety of issues on -- that
8 could be on the table.

9 And that's my initial thing, if -- go back. I have a --
10 go ahead, you can go to the next slide. This is an example of
11 some of the issues here, a few quick slides that I had. You
12 know, one of the issues is should the authorities be merged. I
13 told you we have two Acts authorizing these programs so this
14 comes up. It came up with the last reauthorization, gee, why
15 don't you want to create a single authority for these programs
16 and isn't it confusing having two statutes. And we thought
17 about it long and hard and kind of at that time -- we have this
18 kind of -- this 1947 Act that kind of sits there as a constant.
19 It was not the intent of Congress to remove that Act when it
20 passed the HSIA and we were a little bit concerned about losing
21 that permanent authority. And it also contains provisions that
22 programs well beyond these and NOAA use for a variety of
23 agreements and it has very broad agreement authority for us to
24 enter into agreements with all kinds of parties which has proven
25 vital to NOAA wide because, as you know, NOAA does not have an

1 organic authority. That's an issue that's been before Congress
2 is this Organic Act and that's the kind of Act where you'd say
3 NOAA has the right to do all these kinds of big things, whether
4 it's education, in outreach and to work with others. And
5 lacking that this Act has this authority for agreements which
6 people across the agency rely on. So we've been a little
7 worried about losing that.

8 Another issue, these are just examples of some of the
9 issues that were on the slides. Next slide please. This is
10 kind of going back to what I was talking about earlier, do we
11 want to make a clear authority, there's no real authority in the
12 statute for shoreline for example and making us kind of the
13 national authority for these things. The con is, you know, is
14 this really needed. The programs are functioning, kind of going
15 back to the if it isn't broke don't fix it argument. And like I
16 said, the -- we already talked about there may be some
17 interagency concerns, we're trying to put NOAA in a lead
18 position in some of these areas.

19 Next slide please. And I already kind of talked about the
20 finding and purposes section. It's kind of a good way to
21 rationalize the programs and it kind of creates a starting point
22 for where you might want to go.

23 So kind of in conclusion I'd like to say there's not a lot
24 of rush here. I know you got this -- last slide please. You've
25 got another issue on the table today and this is kind of an

1 entry to you folks to kind of how are we going to participate in
2 this process, how do you folks want to participate, are there
3 some big ideas that you have you think we should be considering,
4 that is obviously a major goal. And probably also important,
5 are there other people we should be talking to that -- we look
6 to the panel kind of only -- not as our only point of contact
7 but also as a way of saying, hey, make sure you go talk to these
8 folks over here. So if you have any ideas about that that would
9 be very helpful. One of the ideas, I talked with Scott, is do
10 you want to create some kind of a subcommittee so that there's a
11 smaller group for me and my staff to kind of work through.
12 We're going to be clearly working with the three program offices
13 here in NOS over the coming months and is there a smaller group
14 we can kind of segway into as we develop these ideas for the
15 reauthorization.

16 So that's kind of it. I certainly am open to some
17 questions and I'm looking forward to working with you folks and
18 getting this Act reauthorized.

19 MR. RAINEY: Glenn, thanks very much. I'm sure we'll have
20 a couple questions. I'd like to just touch on some things.
21 Great presentation and we'd definitely like to work with you and
22 provide input as we can. Kind of to think of what -- the couple
23 thoughts I had or one of the questions I wanted to ask you is,
24 you know, you pointed out that -- and we talked a little bit
25 yesterday about how essentially things are -- at least

1 heretofore have been sort of appropriations limited rather than
2 authorization limited. And as you look at the existing
3 authorizing levels in the HSIA do those have enough room to
4 accomplish the 100 percent requirements that you're projecting
5 in the -- you know, in the five year plan, is there enough room
6 in the existing -- again, this kind of goes to the idea of
7 status quo, push it a little or take it, you know, over the top.
8 And I'm just wondering to the extent you can in a broad sense as
9 you look at your projections in the PPBES and things for these
10 programs that your 100 percent requirements are the
11 authorization levels in the existing Act sufficient?

12 MR. BOLEDOVICH: In terms of the specifics of the
13 question, Scott, I'd have to turn to each program and they just
14 got done developing those '09 through '13 requirements and what
15 their requirements are. Looking at the numbers, you know, the
16 actual funding that we're getting or -- is probably so far short
17 of some of these numbers that certainly there's some room,
18 plenty of room to grow towards that 100 percent requirement if
19 these programs were funded at the level that they're currently
20 authorized. Just to clarify, when we put forward a Bill,
21 administration Bill will never contain numbers like this. It
22 will say consistent with the President's budget and so whatever
23 the President requested for the most recent year, the year
24 that's pending before Congress, is all that it will say.
25 Congress will put in these numbers. Steve, do you want to

1 address maybe whether these levels? I mean they're pretty
2 generous. I mean there's \$70 million for the mapping and
3 charting line, that's almost close to double I think on the base
4 for that line. So.....

5 CAPTAIN BARNUM: I think if we're looking at 100 percent
6 requirement I think we're probably looking at a number that's
7 higher than that. Certainly with the issue of the supplemental
8 funding we got this year, the \$20 million was something
9 unexpected and I think it may approach that limit. So I agree
10 with you, I would rather not see six numbers in that kind of a
11 language.

12 MR. BOLEDOVICH: Right. What -- how these numbers can be
13 used, Scott, is certainly when this -- what it is is a statement
14 of our authorizing committee, what they think the investment in
15 these programs should be. That's basically what that is is a
16 statement. And so how I've seen these numbers used is more by
17 external organizations like our Navigation Safety Coalition,
18 when they go to Congress they say fund them at the levels that
19 you said these programs should be funded at and it kind of gives
20 them a high ceiling to shoot for vis a vis the President's
21 request and then the work of the actual appropriator. So it
22 does provide a mark in law from Congress, a statement. That's
23 kind of their value. You know, optimally these programs will be
24 funded at this level, that's kind of how I view these
25 statements.

1 MR. RAINEY: Are there other questions or comments from
2 the other members? Okay. Well, I really appreciate it, Glenn,
3 and look forward to working on that. Let me ask, I mean it's
4 something that we can certainly talk about and find out
5 afterwards, but I know I'd be interested in, you know, following
6 and helping out on that and if there's other folks particularly
7 interested in this that wanted to kind of work on the front end
8 of this and liaison with Steve and Glenn just let me know and
9 then we can move forward on that. Okay. Jon Dasler.

10 MR. DASLER: Yeah, Jon Dasler. I just have another
11 question I guess for Glenn or -- if you have a read on it.
12 Because it seems like the Hydrographic Services Improvement Act
13 should try to cross some of those interagency boundaries and if
14 there's been any discussion with Rayfield and Young of any
15 thoughts on that. And probably more specifically getting into
16 the intercoastal waterways in the Corps and trying to resolve
17 some of those issues. I mean that could open up a big can of
18 worms that may make it more difficult. Is there any feeling on
19 how feasible something like that might be?

20 MR. BOLEDOVICH: Well, based on my conversation with John
21 yesterday, he intends to work with Congressman Young who's
22 chairman of the transportation committee which oversees the
23 Corps. He plans to design a Bill that his committee will not
24 even have jurisdiction over to make sure that when the Bill
25 comes up in the House there's only one committee of jurisdiction

1 right now for these programs and that's resources and he does
2 not want to convolute it and gum up the works by adding things.
3 That's kind of what his initial comment was. Those are things
4 that he'd rather not see done in the Statute, those are things
5 that the agency should be working on through the MTS and the
6 CMTS, kind of my initial guidance from him. So he didn't want
7 to introduce the prospect of there being multi-committee
8 jurisdiction over the legislation, that's kind of his initial
9 thing.

10 MR. RAINEY: If I could just -- I had -- that was
11 something when I worked on the Hill that amazed me but that's a
12 -- it's a particular R form in that you're actually selecting
13 words and terms so it goes through the parliamentarian and it's
14 a really -- it's tricky, you know, just exactly what Glenn said
15 in talking with John. One of the things I personally would
16 advocate and like to see is that the HSIA gets picked up and in
17 fact even broader than that, that all of NOS is well represented
18 in a NOAA Organic Act. But again, that's the same sort of an
19 issue where you have resources, science committee, and you have
20 multiple jurisdictions. So just as we're talking very much
21 about the, you know, Executive Branch and trying to coordinate
22 through the agencies. And just one thing, we're talking about
23 the -- you know, getting NOAA designated, saying they're -- the
24 OMB has the circular A-16 out and, you know, it's been talked
25 about very much in the executive -- it's an executive order to

1 coordinate, you know, all of the data and things and NOAA has
2 certain lead responsibilities for certain framework data,
3 geologic survey and all that. You know, and to try to mesh that
4 with what the legislation's doing but it's a tremendous
5 challenge, you know, if you're going to try to meld in HSIA with
6 Worda (ph) and all of these different Acts. And that's one of
7 the very difficult things that we're facing when we -- I think
8 we should rightly so put one of our most wanted as that we've
9 got to get full bottom coverage, you know, in these federally
10 maintained channels. But the reason that we're not having that
11 is because of these jurisdictional difficulties, you know, on
12 the Hill and with the agencies. But I think we're in the --
13 looking at the needs of the nation and all that, I think we can
14 make that recommendation and then we just have to, you know,
15 hope that the folks that are in a position to cross those
16 jurisdictional boundaries will find a way. But I just wanted to
17 underscore what Glenn's saying. That's the tremendous challenge
18 to move these kind of legislations because it's just so
19 diversely spread. I mean this is one of the most recent studies
20 on the needs for coastal mapping and this is a well known
21 problem but solving it is huge. But just to read you just -- at
22 least 15 federal agencies are involved in the primary collection
23 or use of coastal geospatial data, you know, often with
24 responsibility shared among multiple divisions within the same
25 agency. And they just -- you know, there's recommendations in

1 here that have been made in other places about, you know, ways
2 to get at this. But that's -- it's a pervasive issue and it's
3 something that we're struggling with and seeing in our
4 recommendation. Anyway, Bill.

5 MR. GRAY: Yeah. I'm a long way from being up to speed on
6 the niceties of how to get the right kind of laws out from the
7 Congress. But from what you said, Glenn, that Mr. Young wants
8 to try to see that many of these issues are solely the
9 responsibility of the committee which he chairs or something
10 like that. Back in the late 60's and early 70's I did have
11 something to do -- at the time we talking about segregated
12 ballots, we were talking about what became the Moore poll (ph)
13 and things like that. It was very clear to -- from industry's
14 point of view because in the early 70's we got a whole bunch of
15 things that had never existed before. We got ocean, we got CEQ,
16 we got EPA, all the rest of these things. And industry
17 uniformly said we don't want anything to do with ocean, we don't
18 want anything to do with EPA, give us Coast Guard only to look
19 at what's going on with Marine Transportation. Because as soon
20 as you get two or three different agencies within the same
21 government saying we're going to come aboard and do something
22 about what you're doing, safety, whatever the hell it may be, it
23 gets to be a terrible morass. And in that sense what you're
24 saying, Glenn, is Mr. Young and his staff are trying to sort
25 some of these things out and try and eliminate overlaps or

1 conflicts. I think that keeping us advised of those and what
2 they may be, maybe that's a way in which we can help him --
3 again, as I had said, the less people we have to deal with to
4 solve a single problem the better.

5 MR. BOLEDOVICH: Just to respond to Jon. One approach to
6 this, rather than opening up the HSIA to these issues is to go
7 get our programs reauthorized in the HSIA. There's also pending
8 legislation right now on integrated ocean and coastal mapping
9 which is all about creating an interagency group to work on
10 these issues and trying to address that. And rather than
11 opening up our underlying authority to that have another law
12 come along and say and all your programs, you will go play in
13 this arena and keeping those separate might be one option.

14 MR. DASLER: It seems to me the middle ground of at least
15 stating NOAA as the national authority and recognized as the
16 national hydrographer seems to be prudent. And I think there's
17 the base -- I mean ultimately it's your charts that, you know,
18 MTS is navigating our waterways on even though the data may be
19 coming from other sources. But it seems like it would be
20 prudent at least I guess to underscore that as the lead
21 authority.

22 MR. RAINEY: Okay. Glenn, thanks very much, appreciate
23 it. Well, I'd like to go ahead then and resume work on our
24 special report and let me go ahead and lay out my vision.
25 Talked with Ann this morning and sat with Tom yesterday after we

1 broke for a meeting and Tom has revised the most wanted,
2 basically regrouped and printed out some things. This morning I
3 added just some references I think that could go under those
4 groups if -- you know, once we approve them and speaking with
5 Ann this morning on a good process. What I propose how we
6 resume to proceed would be to turn it to Tom and he can go
7 through the listing of the most wanted, approve that, and then
8 if you recall we -- Ann suggested we split into groups looking
9 at the existing sections in the draft. So once we've discussed
10 and approved the new grouping of the most wanted I'd like to
11 suggest that we break into those groups that we discussed
12 yesterday on the sections and try to map. What we would do
13 there would be to map back the sections of the draft that would
14 go into the new and revised most wanted and then come up with
15 examples and, you know, some suggestions of artwork. So that's
16 kind of the basic framework and so I'll turn it over to Tom and
17 then Ann and we can kind of see how we proceed. I've got --
18 this morning again all I had done is typed up some references
19 that I think would go with each of these so I've got a different
20 document here after we get through with Tom's, just where I
21 think we can pull some of our information from in addition to
22 the draft. So, Tom, do you want to take her?

23 MR. SKINNER: Yeah.

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

1 MR. RAINEY: I have one. But -- oh, did you hand me a
2 bunch? Oh. Okay, here we go. Too many papers.

3 UNIDENTIFIED FEMALE: (Indiscernible - away from
4 microphone).

5 MR. RAINEY: There they are. I can -- you want to --
6 okay, they're coming around, the drafts here.

7 (Pause)

8 MR. SKINNER: See if that's on. Yep. Okay. Yesterday
9 after we talked about some of the most wanted issues there were
10 some suggestions from Bill and John and others, Lou I think,
11 about combining some of them. So what we tried to do was take
12 some of the suggestions and put those together, see what we came
13 up with, and then see what was left over and whether they were
14 priorities or could be worked into one of the other most
15 wanted's that we'd already developed. What you have here is a
16 list of five and I think the idea was that the report would then
17 go into detail on these five things. In other words this would
18 be up front and then there'd be a section on each of the five
19 points here as a way to further explain what was needed or
20 illustrate some of the problems.

21 Just going through them fairly quickly, you have them
22 here. Eliminate the backlog of critical hydrographic -- I guess
23 I should start first, there's no magic to the number of five. I
24 think you have a spectrum of options. You know, you could go
25 with one fairly broad recommendation of improving hydrographic

1 services but that's not very helpful. On the other hand you
2 could have a great many recommendations that it may be hard to
3 get your message across. So we're trying to strike the balance
4 there and numbers of ways that you can organize the different
5 types of things that we've talked about as being very important.
6 So, you know, there -- what we're only trying to do here is
7 trying to highlight what we think is the most important.

8 So first one, eliminate the backlog of critical
9 hydrographic and shoreline surveys. This would include many of
10 the things we've talked about in terms of making sure that NOAA
11 has a core capability. We worked in replacing the single
12 purpose hydrographic survey fleet with multipurpose vessels and
13 implementing new surveying and mapping techniques. That may
14 have to be language adjusted to incorporate what we're trying to
15 get at there but we're trying -- that just is a placeholder is
16 one -- for one of the bullets. Expand NOAA's rapid response
17 capabilities for emergencies. This is one that we didn't
18 mention yesterday, it didn't come out in a couple of the
19 suggestions but we thought it was important enough to have as a
20 separate bullet. Number three is pretty much as it was on -- in
21 the draft booklet. We did add a reference to the IOOS system.
22 And four is conduct full bottom hydrographic -- full bottom
23 coverage hydrographic surveys for all federally maintained
24 channels, approaches and anchorages. A little bit abbreviated
25 from another one of the recommendations in the book, in the

1 draft. And then number five is a new one that attempts to get
2 at taking hydrographic data and developing additional products
3 to support non-navigational uses, including emergency response,
4 marine habitat protection and resilient coastal communities.
5 And again, that gets at the other uses that we I think talked
6 about yesterday, making sure that they -- or trying to get them
7 on board to support the work of NOAA's hydrographic services
8 agencies.

9 So that's pretty much it. I think if you want to take a
10 few minutes to go through it or if you have any suggestions,
11 really appreciate some feedback.

12 MR. RAINEY: Elaine, go ahead.

13 MR. SKINNER: Elaine.

14 MS. DICKINSON: Elaine Dickinson. I think this is a good
15 redoing of the original list because it's a lot more succinct
16 and gets to the heart of the matters that -- I mean I see this
17 as basically a call to action, not a review of, you know,
18 everything on earth that we would ever want. On number three,
19 we've talked about this a lot in the past where if we're using
20 this as a -- sort of an advocacy tool, we heard many, many times
21 that the use of the term PORTS is some sort of like red flag
22 that -- you know, it's not always received well for whatever
23 political reasons. And I'm wondering if you want to name it
24 specifically or just refer to it as, you know, the real time
25 data.

1 UNIDENTIFIED MALE: Okay.

2 MR. SKINNER: Other comments. Bill. And then Andy.

3 MR. GRAY: Thank you, Tom. I think this is an excellent
4 job. I think the consideration is what was the last one on the
5 -- page three most wanted list. Some of the words there, expand
6 education and outreach on the critical importance of NOAA
7 because -- sort of -- or something. That's -- those kinds of
8 words and it got what NOAA's already working on would be the
9 book that we've just gotten last night and so forth like that.
10 And the publicizing what we do and I think this outreach
11 function is something -- it's important and they should work
12 some of those words into -- maybe it fits in with your number
13 five or something like that. And I also think of outreach and
14 education or so forth like that as -- that's something that
15 slides right into the recreational users as well.

16 MR. SKINNER: Okay.

17 MR. GRAY: The 78,000 -- million, whatever it is. We need
18 education and understanding of what's going on within the
19 waterway. (Indiscernible) education going back to the kids and
20 everything like that. So just somehow working some of those
21 types of words into this concept I think would be helpful on
22 number five. Otherwise the rest of it I think for now covers
23 the -- very well the most wanted that we've been talking about
24 for a couple of years.

25 MR. SKINNER: Andy and then John.

1 CAPTAIN MCGOVERN: Too -- I would suggest maybe in five
2 adding develop additional products to support. Maybe -- I think
3 throw there in recreational boating and non-navigational uses
4 maybe. This way it -- I think the M -- when we talk about MTS I
5 think the real conversation is commercial, you know, and not
6 recreational so let's make sure that that's included there. And
7 I kind of agree with Bill and I disagree. I think that to me
8 the education, you know, and the outreach is number one really.
9 But I don't know if you want that as the most wanted because
10 that's basically what the most wanted is is the outreach,
11 getting the word out. I don't know if you want to put that in a
12 -- you know what I mean? It's like to me the only way we're
13 going to get any of this is to get John Q. Public and Congress
14 aware of what the importance of this really is but do you put
15 that in your most wanted or is the reason why you're doing a
16 most wanted is because of that. So it's almost like an unspoken
17 number one priority. I just want to -- I think it's super
18 important but I don't know if it's part of that.

19 MR. SKINNER: Yeah, I think that's a good point. We may
20 want to think about -- I mean there are a number of ways to do
21 this. You can have like an intro paragraph that sort of throws
22 out the amount of goods that are carried on, you know, maritime
23 traffic and the importance to the U.S. economy and U.S. citizens
24 is a way to sort of frame it. Or you can just sort of lead it
25 this way. So I think that's a good point. I think just we

1 might want to consider a couple of options of how to get that
2 message across.

3 MR. RAINEY: Tom, just -- I guess one thought I had on
4 that point is one of the things we want to think about is -- and
5 it was well mentioned yesterday, but, you know, we're going to
6 give this up -- you know, to Steve and up the chain in -- within
7 NOAA and in some ways thinking about the notion of, you know, we
8 can say some things that they can't or we can be providing
9 guidance and recommendations that they can then take forward and
10 say, you know -- justify in other words their expenditures or
11 increased expenditures or effort on doing education and outreach
12 or something, if it's -- I mean it might be worth saying in that
13 regard other than obviously it's implied in the nature of doing
14 this kind of thing. But it might be worth special mention
15 insofar as NOAA could then take that and show justification for,
16 you know, continuing to work on education and outreach.

17 MR. SKINNER: Jon.

18 MR. DASLER: I think you did a great job, Tom, in
19 compiling all this. Actually it seems to me that this might
20 also serve as the basic outline for the rest of the document
21 where now you just take and you start highlighting on specifics
22 as you work through the rest of the document that really states
23 the case for everything and it could be simplified in that. I
24 think one thing I would add under item three where a lot of
25 these address point source measurements, I think it would be

1 prudent to add something about the development of Vdatum to
2 accurately define the water levels over wide areas and the real
3 need for doing that. I know that wasn't really on that list but
4 I think it goes hand in hand and a lot with what we've been
5 talking about. So I guess I would throw that out as well.

6 MR. SKINNER: Okay. We may -- maybe there's a group that
7 can sort of get together on three, there have been a couple
8 comments on three, we can sort of word smith around. I think
9 your point about having this serve as the outline was something
10 that Andy raised yesterday where he said this doesn't sort of
11 relate to what the other sections are. And I think that one of
12 the thoughts that we were doing when we went through this list
13 was that that's exactly how this could be used in that manner
14 and I think.....

15 MR. RAINEY: I think that is the current thinking and what
16 Ann and I talked about today is the next step, I mean once we
17 kind of go through this, would be to then map back what we have.
18 We don't want to lose what we have but we want to reprogram it
19 into that as sort of our template. So I think that's the
20 proposed way ahead and I think that makes great sense.

21 MR. SKINNER: Andy had a comment then John. Andy.

22 CAPTAIN ARMSTRONG: Andy Armstrong. I -- one thing that I
23 perceive as a significant problem and we haven't talked about it
24 much here, but briefly and that is the topic of getting all of
25 these critical hydrographic surveys that have been completed

1 onto the nautical charts, both paper, raster and electronic.
2 And maybe that could be addressed as another bullet under number
3 one.

4 MR. RAINEY: I mean that's what I was envisioning or
5 hoping. We don't -- you know, like you say, you got -- it's
6 definitely worth bringing up. But I'm thinking that, you know,
7 maybe how this would then flow, you have your primary theme and
8 then each -- you know, have topics. That would be one of them
9 and -- there's sort of a marriage or a marrying of that idea in
10 number one. I think it needs to be stated there and then you
11 can also hit it in -- you know, it kind of comes up again in
12 five in a way it seems to me is -- you talk about expanding the
13 use and services, it might be some possibly to put some process
14 information in there. But I personally agree and I think we
15 want to hit that as a -- certainly as a sub-theme with the issue
16 of the ping to chart and we don't -- we've got to balance
17 across, you know, the program so you don't end up with just a
18 tremendous amount of data in the can and not get the products
19 out.

20 MR. OSWALD: John Oswald. I'd like to make a few comments
21 here. The -- on number one, it might just be a word change
22 perhaps, but we don't really want to replace some of the
23 hydrographic survey fleet, some are pretty new. We've got
24 Thomas Jefferson and the Fairweather of course. So maybe just
25 consider the use of the word aging where it says current under

1 bullet item number two there, one -- the second bullet. In item
2 two, maybe it's a typo, but is contacts supposed to be
3 contracts? Because you had a.....

4 UNIDENTIFIED MALE: Yes.

5 MR. OSWALD: Yeah, okay. That takes care of that.

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

8 MR. OSWALD: We -- yesterday we had to supplement this
9 capacity with contracting and there's -- it's actually been done
10 last year, I don't know too much of the details on the Hurricane
11 Katrina. They used contractors to support that effort. And
12 then the.....

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

15 MR. OSWALD: And then on item three maybe just some word
16 smithing, but fewer words, water level obser -- or water level
17 is the same in my view as tide. I would just remove that. And
18 this word -- term, bridge air gap confuses everybody in the
19 United States. We in effect do it commercially and -- it's just
20 a word that's not well known. And the PORTS, I would contend
21 that PORTS is sort of a hurdle when you go try to sell things.
22 As we discussed before.

23 MR. SKINNER: Other comments.

24 UNIDENTIFIED MALE: Lou.

25 MR. SKINNER: Lou and then John.

1 DR. LAPINE: I agree with everything that I've heard thus
2 far. I just have a small question, it may be in the wording.
3 But in the first one here, going to eliminate hydrographic and
4 shoreline backlogs but there's nothing in number one that says
5 how you're going to eliminate the shoreline backlog. I mean you
6 could just add the word shoreline to the first bullet maybe.

7 MR. DASLER: I guess my view on these is the more
8 simplistic we can make this and get into the details in the
9 report. I mean I would even -- like John was saying, maybe even
10 shorten number three and just get it to water levels and
11 currents and then really get into the discussion. If we're
12 going to use this as an outline and not really worry about
13 getting -- because you're going to start losing people if you
14 start getting too complicated. I had the same concerns Andy did
15 under number one and how the whole ping to chart and how that's
16 all going to get in there. But I would think if we just looked
17 at that as being implementing new surveying and mapping
18 techniques which is also the processing but we get into that
19 discussion within the rest of the document I think is really the
20 place to address those kinds of things and try to really keep
21 these -- almost like number one where it's just like simple
22 little bullet items like it's a table of contents almost.

23 MR. SKINNER: Okay. So are you -- you're suggesting that
24 we keep it simple but also keep the bullets or are you
25 suggesting.....

1 MR. DASLER: Yeah. I would keep the bullets.....

2 MR. SKINNER: Okay.

3 MR. DASLER:like number one and I -- but I think I
4 would take a lot of -- I mean it looked like number three is
5 really trying to incorporate a lot too but maybe just simplify
6 it to water levels and currents and then get into the meat of
7 that discussion of what that all involves within the document
8 and not try to capture it all because I think it gets confusing
9 when you start getting too in depth right at the beginning.

10 MR. SKINNER: Okay.

11 MR. DASLER: Is my view. If we're going to -- if that's
12 the approach we're going to take it seems like those could be
13 addressed within the document.

14 MR. SKINNER: Lou, the -- Glenn had actually after this
15 was -- the original was printed had suggested adding and
16 shoreline to what we originally had. So it was definitely a
17 last minute thought and so we can add something there.

18 DR. LAPINE: Well -- this is Lou. I mean just so we cover
19 it all in the following chapter, it just -- you know, I don't
20 say we have to add anything to bullet number one but we get to
21 talk about it we need to explain how we're going to eliminate
22 the shoreline backlog. As Jon said.

23 MR. SKINNER: Okay.

24 DR. LAPINE: Expand upon them later in the document.

25 MR. SKINNER: Okay.

1 UNIDENTIFIED MALE: (Indiscernible). I think the --
2 you're probably right about that, if you're going to put
3 hydrographic and shoreline surveys in the first -- number one
4 bullet you can always (indiscernible) contracting. Just like
5 the contracting survey capability, take out the word
6 hydrographic. (Indiscernible), I can't do much about that. Can
7 anybody hear me? I would take out the word -- you could take
8 out the word hydrographic on your -- under expand and just in
9 the sub-bullets don't get so detailed.

10 MR. SKINNER: Okay. Other comments.

11 CAPTAIN BARNUM: I would just like to see if -- it may be
12 splitting hair, but under eliminate the backlog of critical.
13 Critical means a lot to different people, I mean it's a fixed
14 number. I think maybe we might consider capturing the emerging
15 requirements which captures new requirements at a -- at the
16 surface since the original definition of critical and also
17 capture the concept that some of these critical areas will need
18 to be surveyed in the future, not that we'll be done. So I put
19 that out to the floor.

20 MR. SKINNER: I'm sorry, so just eliminate the word
21 critical?

22 MR. RAINEY: No. What he was saying, critical has now
23 become -- critical survey has now become sort of a term of art
24 so it's been.....

25 MR. SKINNER: Right.

1 MR. RAINEY:pegged to the 43,000 square miles. So
2 as we work on that, the National Survey Plan, is just canning
3 those down and what Steve's saying is, you know, that was --
4 that's a number now, that's sort of a baseline or benchmark
5 number. So if we put in eliminate the backlog of critical and
6 emerging that keeps it to -- it's not simply just enough to
7 finish off that originally -- that original chunk.

8 MR. SKINNER: I thought we'd simplified it by removing one
9 word but we.....

10 MR. RAINEY: Yeah.

11 MR. SKINNER:made it more complex by adding two, so.
12 But that's fine.

13 CAPTAIN MCGOVERN: Andrew McGovern. But if you just drop
14 that word critical doesn't that cover that -- I mean to me it's
15 like trying to make it simpler, not more complex and we want to
16 eliminate the backlog of all -- all the backlog, right? I don't
17 know.

18 MR. GRAY: Andrew, I disagree with that because critical
19 applied at one time the 43,000 square miles out of the 3.5
20 million square miles that NOAA's responsible for I think. And
21 if we leave -- if we eliminate backlog, there may be backlogs in
22 all kinds of things but if it's -- it's unimportant, I guess we
23 don't hear that much about them I would think. I think --
24 something that we're really zeroing in on things that are
25 important. Navigationally critical was the phrase that we used,

1 (indiscernible), wasn't it?

2 MR. RAINEY: Right. I mean we're -- it's navigationally
3 significant and then within that subset it's the critical --
4 yeah, yeah. And so -- I mean I think these are all really good
5 points but, you know, we just I guess have to choose one. It
6 seems to me that these would -- you know, we're going to present
7 these as the most wanted. That wouldn't mean that we would want
8 -- we wouldn't want, you know, NOAA to continue, you know,
9 throughout the EEZ and the -- you know, the WASI (ph) and all of
10 that. But anyway, that's the distinction that's there. Whether
11 we want to specify that in the heading or keep the heading
12 simple and then sp -- you know, flush that out in the supporting
13 section.

14 MR. SKINNER: Yes. Mike.

15 MR. SZABADOS: Tom, on number five.

16 MR. SKINNER: Yeah.

17 MR. SZABADOS: Talking about products, just non-
18 navigational. Maybe to include navigational and non-
19 navigational uses and you have the examples including, put
20 recreational boaters there. Because as -- you want to also
21 enhance our products to the navigational community too.

22 MR. SKINNER: Okay. So that's -- well, so you would say
23 fully disseminate hydrographic data and develop additional
24 projects, navigational -- to support other navigational and non-
25 navigational uses including emergency response, recreational

1 boating, et cetera, et cetera?

2 MR. SZABADOS: Correct.

3 MR. SKINNER: Is that -- Andy, you had.....

4 CAPTAIN MCGOVERN: (Indiscernible - away from microphone).

5 MR. SKINNER: Okay. Elaine. Okay. Thanks. Anyone else?
6 Bill, were you going to say anything? All right.

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

8 MR. SKINNER: It's closed. We'll try and figure something
9 out and get a revised version to you probably around lunchtime.

10 MR. RAINEY: Tom, I'm sorry, I -- we were ta -- can you
11 say that again?

12 MR. SKINNER: I said Scott's paying for lunch and.....

13 MR. RAINEY: All right. What.....

14 MR. SKINNER: Come on, you make me Vice Chair and then you
15 don't even listen to me.

16 MR. RAINEY: No, I wanted to dovetail in with what you're
17 doing on the next thing. But the.....

18 MR. SKINNER: All I said was that we would try and --
19 we'll try and rework this and get it back around lunchtime so
20 people can take another look at it.

21 MR. RAINEY: Okay. Could I suggest though that -- I mean
22 we've got some time left here before the break and our
23 stakeholders panel. It might -- Tom, do you -- I mean it sounds
24 to me like we've got some, you know, agreement on these five
25 broad things with some tweaking to the language. Could we take

1 the next step to break into groups on these five? You know, if
2 you have a particular interest in one of these maybe we can just
3 do a quick break on that and what we could do there would be to
4 maybe just make a short list of, you know, some examples and,
5 you know, just some ideas that support those and we have our
6 copy from the original draft. Virginia, could you pull up the
7 one that I did on the references? It's the same thing and --
8 you know, some of the source material for these different
9 bullets I just, you know, kind of thought we had to round some
10 things down obviously. So we have our draft and I think some of
11 the original source material, just a suggestion, where we can
12 pull some things. But I thought maybe we could take the time
13 that we have here before the scheduled break and maybe split up
14 into the groups of the new five categories and kind of start
15 jotting in or sketching in some of those building blocks of
16 examples of things we want to mention in there. Would that be
17 worth doing here now and then knowing that we'll come back with
18 another gloss on the titles for the most wanted?

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

21 MR. RAINEY: All I did there is just -- in all of the
22 material that we've covered or looked at, you know, you can just
23 pick one. In other words like -- all I'm doing there is just
24 some things that I know where I would like to pull from -- on
25 the sections when we go to write them out. Like if you pick

1 number two there, and I just kind of paraphrased the bullets we
2 were just talking about. So expand NOAA's rapid response
3 capabilities. Some of the things that we talked about in our
4 past meetings were the National Response Plan and NOAA has a
5 response plan, the instant command, and we talked about those in
6 Houston, I'd gone through and some of our recommendations from
7 Houston and the material and presentations that we got there I
8 would think would be the material we can draw from. And so
9 those were just initial ideas of some of the work that we had
10 done and where we can, you know, look to pull.....

11 MR. SKINNER: Okay.

12 MR. RAINEY:to flush in the sections that would then
13 support this.

14 MR. GRAY: Looking at that list, the first one off the
15 reference, the MTS report to Congress. Yeah, that's good and
16 put it out with whatever its full name is or something like
17 this. But I think -- I don't see in that list two National
18 Academy of Science reports that I can think of. I don't
19 see.....

20 MR. RAINEY: Yeah, Bill, this is just -- this is five
21 minutes I had this morning to jot.....

22 MR. GRAY: Okay.

23 MR. RAINEY:some ideas down. It's -- it was just
24 shorthand and -- absolutely. I mean I've got -- I got six
25 studies here, you know, with me. There's lots of things,

1 there's -- it just was an initial thought on some things that we
2 can pull from.....

3 MR. GRAY: Yeah.

4 MR. RAINEY:as well as our own work and our own
5 recommendations. I think it would be good and I think we're in
6 agreement that, you know, we want to set out our recommendations
7 that are relevant for the sections and I think that there is
8 some specific work that's gone before that it would be good
9 citing back to to kind of ground this -- some of the -- you
10 know, like in the draft we'd included, for example, the MTS
11 report on page 84 has I think a very helpful quote basically
12 stating that the number one need.....

13 MR. GRAY: Yeah.

14 MR. RAINEY:you know, in the listening sessions was
15 this type of thing. So this is not -- you know, this is just a
16 -- kind of a suggested list of some of the (indiscernible).

17 MR. GRAY: I think all I'm saying is that in the finished
18 document it would be well to have some references.....

19 MR. RAINEY: Absolutely.

20 MR. GRAY:that are recognizable as somebody else
21 than us, like the National Academy of Sciences, like INTERTANKO,
22 like -- and I know there's a whole bunch of websites back there,
23 they ought to have this www.shippingfacts.com, you can click in
24 there and -- I mean the numbers that are in here are all a
25 little bit wacky, they're low and so forth like that. But there

1 are sources of those numbers that come from the International
2 Energy Agency and from people like the International Chamber of
3 Shipping and those things are -- people can click on those and
4 get them right away, find out what the value of the commerce is
5 and all the rest of that, and we ought to have those where
6 anybody who reads the report can dig into them.

7 MR. RAINEY: Absolutely. I agree and we have a page, I
8 think we'll have the space to have a robust (indiscernible).

9 MR. GRAY: I mean I'd rather have that than the hotels
10 where we've had our meetings.

11 MR. RAINEY: Right. Right. Okay. Well, if -- Andrew,
12 you had a comment I believe? Or.....

13 CAPTAIN MCGOVERN: (Indiscernible) on number three that it
14 just came out, that economic study done in Tampa on PORTS so
15 that's another.....

16 MR. RAINEY: Right.

17 CAPTAIN MCGOVERN:good reference.

18 MR. RAINEY: Right. Let's -- this may, you know, be more
19 of a distraction, we can go back to Tom's, you know, clean
20 thing. But I'm just saying that I think these are the kind of
21 thoughts to kind of pull through as people work them. So what
22 I'd like to do then, I think that's excellent step. And so
23 maybe if we could flow back to the clean sheet. We have, by my
24 watch anyway, about 45 minutes before our -- well, anyway, we've
25 got a little bit of time here before the break. We have a

1 scheduled break at 10:15 and our panel coming and so I'd like to
2 be on schedule. But Tom, do.....

3 MR. SKINNER: This'll take maybe 10 minutes to.....

4 MR. RAINEY: Yeah.

5 MR. SKINNER:to clean up and then we can
6 redistribute and at least get that cleared up.

7 MR. RAINEY: Do you want to take a break while we're doing
8 that, just let folks go, and then we could come back, take a
9 look at that and then maybe split up into these, you know, small
10 groups -- section with -- you know, the -- you know, one through
11 five and then try to get some ideas on, you know, either
12 references or examples. Andrew.

13 CAPTAIN MCGOVERN: Yeah, Scott. I think people know the
14 general direction, I don't know if we need to wait for the exact
15 word smithing here that we just put together. People know which
16 -- in general what the five categories are and let's
17 (indiscernible).

18 MR. RAINEY: Okay. I agree. Elaine.

19 MS. DICKINSON: Oh. Question. We had all the sections
20 that were already drafted from yesterday. Are you saying that
21 that's all changed now?

22 MR. RAINEY: I -- what I would suggest, and this is where
23 -- you know, this is the critical point I guess. I like the
24 idea of the regrouping and it was always my intent that the
25 report supported the most wanted, that was the whole way I set

1 it up, and we've had some very quick and very hard work to get
2 the initial draft. But what I would suggest based on our
3 discussions yesterday and, you know, kind of where we're going.
4 I like this idea of taking it and organizing it in this fashion.
5 I don't want to lose the work that we have. So what I was
6 hoping that we could do in this initial grouping is take a look
7 at this is the organizational structure, we have the references,
8 you know, generally that I threw up there but most, you know,
9 importantly and timely the work that has been done here and I'm
10 hoping that we can in a sense map back, I mean just, you know,
11 kind of make some -- you know, save what we like out of here,
12 reorganize it into that format. That's what I'm proposing. I
13 don't know if that answers it or not, but.....

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

16 MR. RAINEY: I think in large part we can. In other words
17 -- I mean there was some time spent on pulling from our existing
18 recommendations. Again, let's just take the -- you know, the
19 rapid response. I mean those recommendations I think are
20 relevant and we can pull those -- you know, I think much of --
21 in other words the whole intent here is to capture what we've
22 got and just, you know, reorganize it and then, you know, build
23 from there. There were sections that we do need to build on.
24 Ann.

25 MS. BOESE: Yeah, can I make a suggestion? I think if we

1 break into groups according to the most wanted one through five
2 because that will be our organizational template. And if --
3 whatever group you're in, if you -- when you look at your most
4 wanted eliminate the backlog. Look at the report, if you can
5 pull -- just pull the page out, say this goes with this, this
6 doesn't, this doesn't and we can just reconfigure. You just
7 pull what you can from the report, A, and then B, any additional
8 information that needs to -- that could be added and see any
9 hard good examples that are going to bring people in to
10 understand why these most wanted are most wanted. That would be
11 perfect. Doesn't matter if it becomes messy now, we just are
12 like taking cards and reshuffling where it goes. And hopefully
13 they'll be in pretty good shape but I have the feeling that they
14 may not. So that -- you know, it's cut and paste, literally cut
15 and paste. And then I'll take that, I'll take that, whatever it
16 looks like, and work with -- work from that and I have some
17 other ideas for the afternoon. But that'll be -- that's I think
18 the way you have to do it.

19 MR. RAINEY: All right. Well, let's proceed then. Could
20 -- who could work on the -- let's just go one through five and
21 try to make sure we've got something covered. But on the
22 eliminate backlog of critical hydrographic shoreline surveys.
23 Got a couple folks. Okay. I don't know if I need to select and
24 direct where to go. But -- let's just -- okay, so John -- both
25 John's want to work on that. Expand rapid response capabilities

1 in emergencies.

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

4 MR. RAINEY: Okay. That's the real time? Okay. Why
5 don't we do this. Who -- can we -- let me ask for volunteers to
6 who could lead this next section on each one. Could -- who --
7 John, can you do number one? Okay. Rapid response
8 capabilities. Adam, would you be willing to take a look at that
9 one? You've had the most recent experience with that with
10 Katrina and all. Sherri, you want to take three? The conduct
11 full bottom coverage hydro surveys. Bill, you want to jump on
12 that one, would that be okay? I mean we can all contribute to
13 all of these, I'm just wondering if I could just pick folks or
14 folks could volunteer for each of these sections and we get with
15 those people. And then fully disseminate hydrographic data and
16 develop additional products. This is -- in other words the
17 expanded uses. Anyone interested in maybe kind of -- okay.
18 Elaine, thanks. All right. So why don't we take this time now
19 and take a look at that in those groups. Okay. So Jon Dasler's
20 got one, get with him on that one, Adam McBride on two, Sherri
21 Hickman on three, I guess Bill, is that okay on four? And
22 Elaine on five.

23 (Off record at 9:31 a.m.)

24 (On record at 10:01 a.m.)

25 MR. SKINNER:leads on the five areas could just give

1 a quick summary of where they are. I didn't ask a yes or no
2 question because I was afraid of the answer.

3 (Whispered conversation)

4 MR. SKINNER: Been asked to make an announcement that if
5 you have a cell phone on and don't absolutely positively need it
6 if you turn it off because it's interfering with the recording.

7 Just wanted to go through in the next 15 minutes or so
8 some of the changes on the most wanted list that I tried to
9 incorporate from the earlier session, you should have a copy of
10 it in front of you. You can tell -- differentiate it from the
11 earlier list in that number five has four bullets. So try and
12 find the list that has the bullets at the bottom of the list. I
13 tried to put one in front of every seat there. If you don't
14 have one let me know. You don't have one? Oh god, how did that
15 happen.

16 UNIDENTIFIED MALE: I was too close to you.

17 MR. SKINNER: You have one, don't you?

18 UNIDENTIFIED MALE: Yes.

19 MR. SKINNER: Okay. Read through it. Just list a couple
20 of changes here. The -- I switched number two -- what was
21 number four to number two because I thought it was more closely
22 related to the first item and added a bullet to try and separate
23 it from why it was not just doing backlog but a specific issue
24 that Bill and others have been talking about. So that's now
25 number two. These aren't in order of priority, they're just

1 trying to -- I tried to group them based on issue. So rather
2 than have me go through it, take a couple minutes and then just
3 any comments let me know.

4 (Pause - background conversations)

5 MR. SZABADOS: Tom?

6 MR. SKINNER: Yeah.

7 MR. SZABADOS: On number four.

8 MR. SKINNER: Yeah.

9 MR. SZABADOS: I think Vdatum would fit better in five now
10 with the way we've defined five. And -- Dave, would you concur?

11 MR. ZILKOSKI: Yeah, Vdatum is actually -- is an
12 additional product that brings them all together.

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

15 MR. SKINNER: Okay.

16 UNIDENTIFIED MALE: (Indiscernible - away from
17 microphone).

18 MR. ZILKOSKI: Yeah, you know, and it's -- and I guess
19 that's something we should probably talk about is how there are
20 a lot of models that need to be developed so if you're looking
21 at trying to say I want to fund Vdatum operations in all these
22 different ports or something maybe you would want to think about
23 putting it in four from that, I'm not sure. I mean, Mike,
24 that's what they're maybe thinking because, you know, you talk
25 about the modeling that has to go on. You got the water levels

1 but you also have to do modeling there. So is that what people
2 are meaning?

3 MR. SZABADOS: Vdatum observations is not a correct way to
4 say it. So maybe we want to say modeling in general?

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

7 MR. SZABADOS: Use the term modeling?

8 MR. ZILKOSKI: Yeah. Maybe that's what you want to do.

9 MR. SZABADOS: Observations and models?

10 MR. ZILKOSKI: Yeah. That probably would be better.
11 Because that's what it is, that's what costs the money, it's the
12 models.

13 MR. SZABADOS: It's the models, right.

14 MR. ZILKOSKI: It's the models and Vdatum would cost the
15 time and money. So that.....

16 MR. SKINNER: So could you tell me what.....

17 MR. SZABADOS: Okay. So fund real time, tide, current,
18 observations and -- observation systems and -- well, and
19 modeling. Give me a minute.

20 MR. SKINNER: Okay. We'll come back to that one. Any
21 other comments on the revised structure? Well, we can come back
22 to this if you think of some more things. Why don't we take
23 some time and go -- just a quick report from each of the leads
24 on the five different categories. And if you're not finished
25 with your work that's fine, just sort of an update. Jon, are

1 you ready to.....

2 MR. DASLER: We turned it all in.

3 MR. SKINNER: You turned it all in. Okay. So update
4 number one is you're done. Do you want to tell us what you did?

5 MR. DASLER: We basically took pages six and seven and
6 eight, kind of took the key paragraphs. And then we also have a
7 significant amount of things we wanted to add. Talk about the
8 ability -- the current ability to navigate on the more accurate
9 charts and it exceeds the accuracy of the data that's on them
10 right now. And also trying to expand on some examples, kind of
11 showing some images of recent contacts that have been discovered
12 that are uncharted, you know, some examples of wrecks and
13 aircraft on the bottom, that kind of thing, that we can add to
14 it. If we can get a list from NOAA adding sort of a hit list of
15 uncharted rocks, wrecks and obstructions that are -- have been
16 discovered, you know, either on an annual basis, over some
17 timeline, but with the use of new technologies just to give some
18 indication of the amount of items that are being discovered and
19 added to charts over some time interval. Some examples listing
20 -- I think first is pretty much stating the case of why the need
21 for updating it and why it's so critical. And then expanding on
22 that is giving examples of some of the -- like the QE-2, the
23 Athos, some other wrecks where -- that have been involved in it,
24 uncharted objects that ships have hit. Glacier Bay again was
25 another example. Need to expand the data processing pipeline

1 from getting data in the field, the whole concept of ping to
2 chart and some adding to that. Use of RTK or at least post
3 process kinematic for running -- maximizing field efforts,
4 eliminating biases in the field both from a horizontal
5 positioning aspect and then also trying to minimize total
6 propagated error just to increase accuracies in the chart and
7 also increase the turn around time from ping to chart. So it'll
8 in -- the more accurate we can make these things and reduce the
9 error the more automated these systems can become and reduce
10 total ping to chart. More dollars from the -- for the program,
11 eliminating the backlog to basically double production.

12 MR. SKINNER: Can I just jump in for a second on a
13 procedural thing?

14 MR. DASLER: Sure.

15 MR. SKINNER: Are these going to be sort of -- are the --
16 what the groups produced, are they going to be summarized for
17 this afternoon or are we going to talk about these later on?

18 UNIDENTIFIED MALE: I don't know how -- there's.....

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

21 CAPTAIN HICKMAN: There's no way she can do -- get that
22 put out.

23 MR. SKINNER: Okay. Because, Scott, we have to break
24 right at 10:15, is that right?

25 MR. RAINEY: Well, we need to be back by 10:30. So if we

1 want to press on and if people have to leave individually we
2 could go till 10:30 but I want to be able to, you know, start
3 with our panel at 10:30.

4 MR. SKINNER: Okay. I think we'll have some time to talk
5 about this this afternoon. Is that right?

6 MR. RAINEY: Yes, we should. Absolutely.

7 MR. SKINNER: So we can either go on with group one and
8 then catch the others later or if people want to hear a quick
9 summary of where the groups are we can do that. I just -- I
10 don't want to get -- cut any group short.

11 CAPTAIN HICKMAN: Can I just make a comment? And I may --
12 Minas brought up a point and I thought I'd put his mind at ease
13 but I'm not so sure I was right. Is there anything in your
14 number one that does -- talks to -- about ENC's?

15 MR. DASLER: No, not the ENC's.

16 CAPTAIN HICKMAN: Because I don't think anything is on our
17 actual which is probably not a good thing.

18 MR. DASLER: It could be. I mean I'll.....

19 CAPTAIN HICKMAN: In these five points. So that's just
20 one critical downfall I see right now.

21 MR. SKINNER: Right.

22 MR. DASLER: We can add a section that discusses that. I
23 mean all of that is part parcel I think to eliminating -- not
24 just eliminating the backlog but getting it on the chart and
25 getting it out to mariners so it could be a section that

1 discusses that.

2 CAPTAIN MCGOVERN: I think that would be covered by number
3 five. I mean fully disseminate hydrographic data. Obviously
4 that's -- put that on the chart, right? And getting that chart
5 out whether it's ENC's or raster. I mean but I think you can
6 expand it in number five about the whole ENC program, that it's
7 -- right now it's dead, right? If that'll work.

8 CAPTAIN ARMSTRONG: I had thought that number five was
9 sort of more appropriately going to be all the other things that
10 the data was useful for rather than sort of circling back to too
11 much on Marine Transportation issues. But.....

12 MR. SKINNER: Can I suggest -- I know we started this, but
13 it sounds like we're sort of drilling down on some of the
14 details which I think is great but I really don't want to get
15 sort of started five minutes into it and then have to break for
16 the panel. So maybe if we can take the break now and then this
17 afternoon pick up and go through each of the sections in greater
18 detail. Maybe that's a better way to proceed on this.

19 MR. DASLER: I only have probably a couple other little
20 items.

21 MR. RAINEY: Yeah, why don't we let Jon finish and
22 then.....

23 MR. SKINNER: All right.

24 MR. RAINEY:that'll -- we can pick it up and be back
25 at 10:30. Go ahead, Jon. Thanks.

1 MR. DASLER: The other thing we added was in geo -- the
2 georeferencing section and really kind of combining that with
3 the shoreline and mapping and then putting in an example of mis-
4 charted shorelines, some of the examples that were presented,
5 add that in as a figure. And then applications of emerging
6 technology to help increase that production, ASV's and AUV's.
7 And I think that's pretty much it unless anybody else. John or
8 Lou, if you had anything to add.

9 MR. SKINNER: Any other comments on the first group? I
10 think maybe in the interim time we can figure out where --
11 Minas, your issue, where it is most appropriately placed.
12 Electronic charts.

13 CAPTAIN MYRTIDIS: Well, I just think that we have spent
14 quite a few time talking about ENC's and the importance for not
15 having it included there.

16 MR. SKINNER: Okay. Well, let's work on that between now
17 and when we raise this this afternoon. So we'll pick this up
18 sometime this afternoon with the second group which, Bill, is
19 now your group.

20 MR. GRAY: Okay. I'm ready.

21 MR. SKINNER: So, great. Thanks.

22 MR. RAINEY: Okay. Let's try to be back then at 10:30 and
23 we'll welcome our Alaska stakeholders panel. Thank you.

24 (Off record at 10:13 a.m.)

25 (On record at 10:34 a.m.)

1 MR. RAINEY:very much appreciate it and like to
2 introduce Molly McCammon, Executive Director of the -- of AOS
3 up here and she helped us pull this panel together. And Molly's
4 also on the Executive Board for the National Federation of
5 Regional Associations. And I know Tom has had a lot of
6 work.....

7 MR. SKINNER: Yeah, I just wanted to welcome the whole
8 panel to this panel and also a special thanks to Molly. Molly
9 had worked with both Helen, me and Josie Quintrel (ph) from the
10 Gulf of Maine Ocean Observing System on making sure that
11 navigation services was seen as a critical part of ocean
12 observing systems nationwide and I think we owe her a debt of
13 gratitude for that. And it's also nice to see you again.

14 MS. MCCAMMON: Well -- can you hear me okay with this?

15 MR. RAINEY: These mics are not too sensitive, you got to
16 get kind of close to them.

17 MS. MCCAMMON: Okay. I'll put it a little closer. Okay,
18 is that better?

19 THE REPORTER: Yes.

20 MS. MCCAMMON: Okay. Well, welcome to rainy Alaska. When
21 I was asked to put this stakeholder panel together I, you know,
22 blasted out an e-mail to, you know, six, seven people, didn't
23 get any response, there was a deafening silence because this is
24 August and people are either out on their boats, they're out
25 fishing, they're out doing things or else they're on vacation.

1 So then I blasted out another 30 e-mails and we started making
2 phone calls and now we have this great group assembled here
3 which I think will give you a good kind of breath of
4 perspectives in terms of users of the marine environment.

5 But I really do appreciate that the panel is here visiting
6 Alaska during this season. I've been Director of the Alaska
7 Ocean Observing System for three years now. And AOOS is one of
8 the 11 regional associations being developed as part of the
9 regional coastal component of IOOS, the Integrated Ocean
10 Observing System. We've been doing lots of planning, workshops,
11 outreach efforts to various user communities and I can assure
12 you that hands down when we talk to user communities, and it
13 doesn't matter if it's a whaler in Barrow, if it's a
14 recreational boater, if it's the Port of Anchorage, if it's a
15 commercial fisherman, what we hear kind of bottom line from
16 people is winds, waves, currents, we need more information, we
17 need better information there, we need better bathymetry, better
18 mapping. Those are kind of just really core elements that
19 almost everyone says they need for various purposes. And when
20 you start looking at whether it's -- I have fisheries ecosystem
21 model or shoreline erosion or ocean circulation, it all comes
22 down to providing those kinds of basic elements that are up to
23 date, accurate and really ground truth the models that we've
24 been working from. So that's kind of an underpinning and I'm
25 sure you'll hear about this from all of the panelists today,

1 that that's really basic information that Alaskans are
2 desperately in need of.

3 Specifically though I do want to highlight a couple
4 things. And I do have written comments here and so you'll have
5 those in front of you. So I'm going to go through these very
6 quickly because I want you to hear from the other panelists
7 here. But specifically we do need higher resolution bathymetry
8 throughout state waters. And I could pick and choose and say
9 here's my top three priorities but I'm sure people next to me
10 will say here's my top two or three. But we really do need
11 better bathymetry, that is absolutely critical to the work we're
12 doing. We need additional tide gauges. And if this means
13 putting out tide gauges that maybe aren't quite up to snuff,
14 maybe a little bit lower level but they're cheaper, maybe a
15 little bit easier to maintain, I think we really need to look at
16 that because we really need to get that information throughout
17 the state on a much broader basis. And then thirdly we need
18 better spatial and temporal resolution of our surface currents
19 through use of high frequency radar. We've been testing this in
20 two locations, one outside of Prudhoe Bay which is relatively
21 easy because there's power up there and you just kind of plug it
22 in and it's actually been working pretty successfully during the
23 ice free seasons. The other place we've been testing it most
24 recently is in Prince William Sound. And what we found is it's
25 really difficult operating these systems remotely with

1 autonomous power. And we have a couple of proposals into
2 National Science Foundation that we've been working with some
3 folks up at the University of Alaska to try to test and develop
4 a new system that's much more fuel efficient, power efficient
5 and will give us better capability. So -- but it shows a lot of
6 promise for providing the kinds of information that a lot of
7 folks need.

8 There are also some observing activities that maybe aren't
9 really around your purview but they definitely relate to
10 navigation safety and whatever you as a panel can do to promote
11 these kinds of cooperative efforts I think would be really
12 useful. One of them is the increased number of river gauges.
13 Much of our traffic and movement along the coast through coastal
14 currents is driven by freshwater input. And instead of adding
15 river gauges in Alaska right now USGS is removing them due to
16 budget cuts. And this is making it very difficult to get really
17 accurate forecasts of what's happening in our coastal currents
18 which is directly related to providing important navigation
19 safety information to users. So whatever you can do to
20 influence USGS budget that would be great.

21 The other thing that we hear a lot from the west coast
22 folks and the people in the arctic is better information on near
23 shore inland fast sea ice. The problem isn't so much where the
24 ice is at the moment. The satellite coverage gives us pretty
25 good coverage for that. The problem is how thick is that ice

1 and is it going to break up today, in the next 30 minutes or in
2 the next week or two. And this is really critical for not only
3 subsistence hunters who use the ice as camps for their whaling
4 activities, but also for all of the tug and barge access to the
5 west coast of Alaska and to Prudhoe Bay and the north coast.
6 Trying to figure out when the ice is going to break up, when
7 will it be safe to ship all of our goods to the North Slope. So
8 any additional and improved information on near shore sea ice
9 thickness in particular is really critical to that.

10 And then the last thing, and I think Dr. Smith is going to
11 talk a little bit more about this, is a better survey by NOAA
12 and USGS of the sediment lateral cells to include sediment
13 sources, sinks and transport rates in order to establish an
14 Alaska baseline. That's something we don't have right now and I
15 know many of you have probably heard about some of the critical
16 places that we have in this state that are literally washing
17 away at the moment due to coastal erosion. So a survey, coast
18 wide survey, of that would be very helpful.

19 There's also kind of four kind of broad recommendations
20 that AOOOS as an organization has been looking at and the first
21 is having CO-OPS work with us to develop a 10 year plan. It
22 would be very helpful to have it laid out exactly what all of
23 the user communities feel is most important in terms of
24 developing the navigation services and hydrographic services
25 products in Alaska and having a really comprehensive plan that

1 everyone is kind of working off of. Then we can all look at
2 that, use that as our baseline and start kind of picking at it
3 and trying to get it accomplished through various funding
4 mechanisms.

5 Second, we really would like NOAA to look at Alaska as a
6 test bed for new equipment and technology. I think because of
7 our remoteness, our harsh weather, we face a lot of unique
8 challenges that other areas in the state -- in the lower 48
9 don't have. In fact I gave a slide show in Hawaii and people
10 were just blown away by the fact that we don't have roads and
11 power on most of our coastline, very few miles of our coastline,
12 and there's 43,000 miles of it, have power or roads. So we have
13 a lot of challenges and it's a great test bed for different
14 kinds of technology.

15 And then lastly, all of our NDVC buoys right now are
16 serviced from Stennis. And we've talked to Paul Moresdorf (ph)
17 about the possibility of establishing a staging center here in
18 Alaska, possibly at Seward where the University of Alaska has a
19 marine mooring center there and where the new research vessel
20 hopefully will be located. It -- as more moorings are placed in
21 this state, as we start doing more work on the ocean, it's
22 really important that we have a base of operations here in
23 Alaska and that we not depend on someplace in the Gulf of
24 Mexico, subject to hurricanes for god's sake. That we don't
25 want to depend on that for providing the kind of support that we

1 have.

2 So those are kind of the general recommendations that I
3 have and I'd be happy to answer at the end any questions that
4 you might have. But what I'd like to do now is introduce -- and
5 I'll go one by one and just introduce them one at a time and
6 they'll give some comments and recommendations to you also. And
7 I'd like to start with Captain Jeff Pierce who is President of
8 the Southwest Alaska Pilots Association from Homer, Alaska.

9 CAPTAIN PIERCE: Hello. I am Jeff Pierce, President of
10 Southwest Alaska Pilots. I've been an active pilot for over 20
11 years up here. Basically I got the surprise of all surprises
12 when I came in the door. You actually got a regional location
13 now for our tides and currents here in Cook Inlet. We were
14 using Wrangell. Wrangell we were adding five hours, subtracting
15 four and a half hours. That station's in southeast Alaska. For
16 us and our work what we do, we actually cover Southcentral
17 Alaska from Icy Bay west, Prince William Sound, the tanker
18 traffic in and out of Prince William Sound, cruise ship traffic,
19 Kodiak Island and all of Cook Inlet and Seward. So we have a
20 real vast area. And we in our group rely highly upon the
21 current and tidal predictions and I'll get into that with Cook
22 Inlet. That's why I'm really -- thank you. This is a big one
23 to us. Because right now we're transporting tankers in and out
24 of Cook Inlet, we have a terminal in Nikiski that does L and G
25 export, we have a refinery there at Nikiski and we also have a

1 ammonia uria export facility out at Nikiski, and that's about 84
2 miles up the Inlet. We do not use tugboats to these facilities.
3 These are all very large ships, 700 footers. With no tugboat
4 use we're dependent upon the tides and currents. We have
5 utilized now, a few years back the Coast Guard finally put a
6 range up for us which kind of indicates deeper water for us.
7 We're using the tides to float the ships and to get to the docks
8 because of the shoaling. Cook Inlet, I don't know if you've
9 read much on Cook Inlet, but on all the charts they'll have a
10 disclaimer on them that due to rolling rocks you're not allowed
11 to go in the blue, the blue being 10 fathoms. Recently, i.e.,
12 I'll put it about six, seven years. Is that about right? They
13 came up, did some bottom dragging for us and did some soundings
14 for us and, well, went oh boy, we found things. These are very
15 much a changing body of water because of the silting and the
16 large tides. Diurnal tide in Anchorage is about 30 feet. So in
17 Anchorage, to get to Anchorage is all of our transport: for TOTE,
18 Horizon Lines, barges that supply the Anchorage community.
19 Recently there's been a lot of dredging in Anchorage itself,
20 they've been dredging, there's a couple of dredges, for the last
21 several summers. Then they drop the spoils in the port area or
22 outside the port and then we watch. As mariners we're very
23 attentive around here to watching -- even though we know where
24 we are, we're in good water, we always use a bottom sounder
25 because we start talking, we're seeing spikes, seeing stuff.

1 And this is very consistent up here. I would say about every 30
2 days we'll talk amongst ourselves and we'll talk about the
3 spikes or boulders or whatever we're seeing. And this is
4 constant year around. So the more input -- like Molly said, the
5 more input we get the better information we have, the better off
6 we all are. I came this morning and listened briefly and
7 somebody had made the comment, it really stuck with me, that
8 better soundings and better display of information is better
9 than a double hull tanker. I've worked a tanker fleet for a
10 long time and I cannot concur anymore with you, I agree 110
11 percent. Give us the information and we're better off. And I
12 can go right back to the Glacier Bay spill and probably no one
13 remembers it but.....

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

16 CAPTAIN PIERCE: Okay. What was that? That was an
17 uncharted rock. So -- I mean what I'm referring to is these
18 things are changing around us and we need to be more aware of
19 what great information does to prohibit and exclude accidents
20 and oil in the water.

21 This Nikiski thing, I want to get back on it real quick.
22 Because we're dependent upon the currents to dock there, we stem
23 the current. So what we do is we look at predictions and we act
24 accordingly. Usually we're trying to get in around an hour
25 after high water or hour after low water, be dependent on what

1 you're doing. But basically we're utilizing the current. Now
2 in smaller tides we have noticed an error of up to and over an
3 hour. The channel we're using here is -- what we'll do is we'll
4 turn and stem the current and wait for the current to arrive.
5 It's a safe operation, however, I really don't want to be up
6 there if I don't know there's current. I use the current -- use
7 Mother Nature, not fight it. So if I get up there and it's ebb
8 and I want it to be flooding I'm kind of looking at myself going
9 I'm not going to believe this again next time. And real frankly
10 I -- we've all started adding time. Hopefully this will help.
11 I mean it's a very big part of what we do for a living is to
12 make sure that the tides and currents are what we -- what is
13 published is what we're seeing, you know, on those two different
14 things there. Because we're also playing the tides to get the
15 water over the bars and if we get a northerly wind direction and
16 we're seeing barometers moving we will -- we all start adding
17 time. And it's just precautionary because -- I don't want to
18 say our face, but our trust in numbers is exactly that, it's
19 numbers. You have to make sure you got the water there to do
20 what we're doing.

21 So I can encourage you on some parts. I noticed some
22 priorities. I went into the website and some of the priorities
23 listed were level threes. I don't know what that means, I
24 really don't. But one of them is the Nikiski approaches and
25 that's where the refineries are and that's the body of water we

1 use. They are listed at priority level three and also a Drift
2 River terminal approach was listed at priority level three. And
3 that's on the west side of the Inlet and we do the same thing
4 over there, no tugboats, we're using the tides and currents.
5 And, you know, we all got our little tricks where we're adding
6 an hour here, subtracting an hour there and doing things to try
7 to get it organized. And hopefully this helps us a lot and I'm
8 -- we talked earlier and he's going to take some down to my
9 partners because we're all going to jump up and down for joy.
10 So something is happening that's good.

11 One comment, I did send a pilot down to Kodiak here
12 recently on the east side of Kodiak and it's not untypical in
13 our area to see this. Soundings last done 1933. So what we do
14 is we avoid going inside 10 fathoms. You just can't risk going
15 inside 10 fathoms in this environment. And then the people that
16 are wanting the vessel there are saying why aren't you coming in
17 closer. Well, of course being a sailor sometimes you're not too
18 explanatory about what you're wanting and saying. I mean it
19 just doesn't come out that well, it really doesn't. So
20 basically we've tried to tell our customers that our intent is
21 to get it there safely and keep it safe. So the more mapping
22 and chart information you give us the better that we are at
23 providing a better service and the better our customers are.
24 That's all.

25 MS. MCCAMMON: Thank you, Jeff. Appreciate that. We're

1 going to kind of switch fields a little bit here and to my right
2 is Margaret Spahn who is a fisheries biologist with the Alaska
3 Department of Fish and Game. And Margaret is going to speak to
4 the importance of bathometry information for fisheries
5 management.

6 MS. SPAHN: Is this on? Yes. Good morning, my name is
7 Margaret Spahn, I'm a biologist with the Alaska Department of
8 Fish and Game, Division of Commercial Fisheries in Homer,
9 Alaska. I also provide their GIS mapping in our region two area
10 which goes from Prince William Sound through Cook Inlet. And
11 there are -- we have been recently using -- well, within the
12 last two or three years we've been using NOAA provided multibeam
13 bathometry where it's available for survey planning and for
14 determining available habitat which brings us into -- you know,
15 works toward stock assessments and fisheries management. I'm
16 going to have to move this a little closer. Sorry.

17 So there have been three of us in the Department who have
18 been working with NOAA data pretty extensively, one in southeast
19 Alaska, myself in southcentral and one in westward region. And
20 the fisheries and fisheries surveys, some of the fisheries that
21 this data has helped informed are ling cod and rockfish, shrimp
22 trawls, scallop, cod, black cod, king crab. And in discussing
23 what we were -- what we wanted to convey to this panel in
24 talking with my colleagues in southeast and Kodiak, the one
25 thing we certainly agreed upon was what an extraordinary job

1 NOAA is doing in making this data available to us. They are
2 absolutely bending over backwards and going out of their way and
3 it -- we really appreciate that. They have -- the Fairweather
4 and the Rainier crew have been extraordinary in providing data
5 even before it's ready for distribution so that we can use it in
6 upcoming surveys. And the Sand Point office has been
7 incredible. We really appreciate the -- your orientation toward
8 web based distribution. That makes it so much easier for us.
9 You have hydrographic soundings available online through your
10 map server. Brook McMahon in Sand Point is doing an incredible
11 job with that in getting both current multibeam data and
12 historic single beam data there. The ENC's are available
13 online, we appreciate that, and the -- having the raster
14 navigation charts, the BSB charts, available free at this point
15 to the public is a very welcome change.

16 I was a little surprised yesterday to hear comments
17 questioning the direction that NOAA has been taking on
18 developing the ENC charts and full coverage of ENC's. From my
19 perspective there -- the ENC data is extremely useful in that
20 it's vector data and layers can be extracted and each layer also
21 has a series of attributes associates with it. And that the
22 raster charts are basically based on the same data that the
23 ENC's are -- that inform the ENC's. And I'm curious about the
24 -- what the problems are in -- on the bridge and in navigation.
25 It seems like if there are problems with using the ENC's it's

1 probably software based and training based and not an issue with
2 the data itself. And, you know, at this point I believe many of
3 the electronic charts are proprietary and, you know, different
4 software packages have their own electronic chart format. And I
5 think -- I suspect that when the ENC's are available for a
6 larger area that the software company that develops a good
7 product to use the ENC's directly is going to be way ahead of
8 the game.

9 I was also really pleased to hear the discussion about
10 shorelines and vertical datum issues. When I'm integrating
11 datasets from different sources the shorelines are often a very
12 big problem. You know, we have shorelines from USGS, from
13 National Wetlands Inventory, ENC charts, U.S. Forest Service,
14 DNR and also some non-tidally referenced shorelines where data
15 has been collected based on let's say aerial photographs that
16 have no tidal reference and no vertical datum associated with
17 them. Vertical datum for us is very important, would be having
18 accurate vertical references is terrific for tidelands leases,
19 for clam surveys, aquaculture leases, of course flood plain
20 development. Glacial retreat and isostatic rebound associated
21 with it and -- well, this is aside from fisheries, but I believe
22 with the eruption of Augustine that the -- having accurate GPS
23 vertical reference certainly helped inform us of impending
24 eruptions. And I think there is a role that NOAA or USGS can
25 certainly play in educating the public and the GIS community in

1 particular about vertical datums and their importance. In a way
2 it's kind of -- we have a converse problem that I was referring
3 to with ENC's. With ENC charts you have a competent navigator
4 that may not be trained with the particular software that uses
5 ENC charts. In our case we may have a competent software
6 operator, a GIS analyst who isn't necessarily a very competent
7 geographer or cartographer.

8 We certainly support contracting to cover -- well, to
9 collect bathymetry in areas that are lacking. I know there are
10 a lot of areas in Alaska that have none at all that -- you know,
11 there's a lot of white spots on those charts. And I would hope
12 that as you develop non-navigational products that the
13 deliverables you expect from your contractors are comparable or
14 identical to those produced from NOAA vessels so that all our
15 datasets are comparable basically. Also, if we contract with a
16 private firm to collect hydrographic data we would like that to
17 be useful to NOAA and we need to perhaps open a dialogue on how
18 to make that happen. We -- most of our funding comes from
19 grants and so we have to, you know, be very careful in how we
20 spend money and I expect that -- I would suspect that it would
21 cost more to produce data to NOAA standards and -- well, that's
22 something we might be able to discuss in the future.

23 We certainly support NOAA fleet improvements and
24 maintenance. The Rainer and Fairweather are very much
25 appreciated. As far as ancillary data that's collecting during

1 hydrographic surveys we're very interested in using the
2 backscatter that's collected during multibeam surveys. And to
3 this point -- the backscatter is useful to us in characterizing
4 the soft sediments. The multibeam itself, high resolution
5 multibeam certainly tells us where the rocky reef areas are.
6 We'd also like to have more information about the softer
7 sediments for other fisheries.

8 There are software products that characterize based on
9 acoustic characteristics, do an automatic characterization
10 basically. And we have found that the NOAA data is not -- we
11 can't use it with QTC for instance, Quester Tangent, because
12 it's optimized for bathymetry and the gain settings are changed
13 during collection and that makes the backscatter not terribly
14 useful in my understanding. But I -- so I know that NOAA is
15 working with Joint Hydrographic Branch, UNH, in developing some
16 software to compensate for that and we are very interested in
17 that and appreciate that effort.

18 Other ancillary data, there's CTD tests that are done
19 during the collection of hydrographic data and I'm not sure what
20 happens to that but might be of use to us or other people in the
21 state. And bottom grabs and sediment characterizations are of
22 interest to us. And one recommendation I might just put out
23 there is consider the possibility of incorporating a drop camera
24 when you do those bottom grabs because a bottom image can tell
25 you so much more about the community and there's something else

1 to refer to that a geologist or a biologist might find more
2 interested than a hydrographer would.

3 And lastly, I would like to see more public involvement in
4 the survey planning process and prioritization. And it could be
5 that there is a very effective public participation process that
6 I'm simply not aware of. Both the public -- I'd like to see
7 some kind of public participation or -- well, participation in
8 both the prioritized areas, setting the priorities for new
9 surveys or resurveys, and in specific survey design. There are
10 -- there have been surveys in the past that have stopped short
11 of collecting data on an entire reef system that are -- you
12 know, an entire geographic feature, in this case it was a reef
13 system. And had we known that -- you know, had we known that
14 when that was being planned we might have jumped up and down a
15 little bit and hoped we could get some more -- and also
16 sometimes -- well, for instance, the Orca inlet survey in Prince
17 William Sound. My understanding is that that survey will not --
18 that survey does not include the southern approaches to Cordova.
19 And that is -- and that's shallower water and that's where our
20 entire Cooper River gillnet fleet enters and exits from Cordova
21 harbor. So, you know, in that case that particular survey isn't
22 addressing the needs of that fishery fleet. And -- well, again,
23 thank you for meeting here in Anchorage and if you have any
24 questions I'll answer them now or later.

25 MS. MCCAMMON: Thank you very much, Margaret. We're going

1 to continue on with the fisheries theme here and Bob Pawlowski
2 is Executive Director of the Alaska Fisheries Development
3 Foundation and he's going to speak to the needs of commercial
4 fishermen.

5 CAPTAIN PAWLOWSKI: Thank you, different hat this time
6 than yesterday. I'm -- again, I'm Captain Bob Pawlowski, a
7 retired NOAA officer who spent a career in the fisheries side
8 commanding the Miller Freeman as my last sea duty so I got to
9 know very clearly the challenges of fishing Alaska and working
10 with Alaska on following that and I was the navigation advisor
11 during the time that the whole issue with the decision with the
12 Glacier Bay came forward and Andy and I worked in planning the
13 surveys in Cook Inlet.

14 Couple of points. One, following NOAA I've been involved
15 with the Resource Development Council for Alaska and the Alaska
16 Miners Association, looking at the challenges with essential
17 fish habitat and with maintaining communities in areas where
18 endangered species or habitat areas of particular concern come
19 up. So I want to talk on those subjects. But really quickly,
20 the Alaska Fisheries Development Foundation is a 28 year old
21 nonprofit foundation based on industry members that represent
22 the harvesting sector, a group you might know, and that is
23 American Seafoods. The processing sector, we've got the
24 associations but we also have Trident, Orca Bay, Ocean Beauty,
25 North Pacific as members and the service sector which can

1 include oil and gas groups like Crowley or the distributors, et
2 cetera, as well as we have press and we have other associations.
3 So we really get a good cross section of the industry throughout
4 as well as their unique things.

5 Alaska is a very well managed fishery and a very
6 sustainable fishery and there's a lot of effort that's going
7 into it but it's facing some major challenges that surveying can
8 really help. I want to note three areas of dependency that we
9 have to face. The first one is clearly the indus -- the fishing
10 industry has to look at navigation safety. Hydrographic
11 surveys, good accurate weather services, good tides all play
12 into getting in and out of the ports, planning your fishery, not
13 losing your gear because of excess currents. There's lots of
14 different decisions that go on. The more information that can
15 come together, particularly enhancing the Ocean Observing
16 System, at a cost effective way is going to do very well for our
17 remote communities.

18 It's very important to get in this issue of inaccurate
19 shorelines. Everybody's using GPS. When John talks about I
20 want to -- is Cherikofs 1,000 meters off or any of our -- some
21 of our Aleutian Islands are substantially off yet they're still
22 a navigation reference. When you're working with GPS you're
23 counting on it being accurate and you're counting on it being
24 accurate to the chart. A substantial error is a high risk and
25 it's not only a high risk for the operation, it's also a high

1 risk in enforcement when you're having to stay three miles
2 outside of stellar sea lion closures, which is a challenge to
3 the industry based on some of that.

4 The other thing that's going on in getting that data out
5 to the fishing industry is Senator Stevens has worked greatly on
6 getting increased bandwidth in our communities. But a 10 meg
7 startup where you have possibly one meg during storms is a non-
8 starter. Minimizing it down so that navigation, hydrographic
9 information, tides, meteorology can all be put out in a small
10 files on the -- can work with cell phones, work with Telex,
11 style, has a lot to say for it. When it's up it's great to get
12 a beautiful website home page, when it's down it's going to take
13 you an hour to get that home page up before you can even get
14 access to the information. So communication and bandwidth is a
15 real challenge facing rural Alaska and the coastal communities
16 that support the fishing industry.

17 Second point is economic dependency on good solid
18 navigation information. Everything other than fish is barged
19 in, freighted in or flown in. Fish is hauled in on the fishing
20 vessels and then either barged out, freighted out or flown out.
21 So navigation and good hydrographic is very important. It
22 becomes critical as an economic dependency when you look at
23 doing operations where you have an endangered species, a habitat
24 area of particular concern or a marine protected area. In any
25 of these cases you've got a community that is dependent on

1 refined product, bringing refined product, diesel oil, gasoline,
2 et cetera, into an area where there's an endangered species has
3 an insurance risk mitigation cost. When you're a small
4 community bringing fuel in where you have sea otters or
5 spectral LIDAR or whatever. The insurance companies want to
6 look at a responsible carrier and responsible carriers going to
7 have to pay the premium that goes directly into the community.
8 When you're a fishing industry that cost comes directly into
9 what you have to recover to be able to harvest that fish which
10 is one of the reasons why you're also seeing the price of fish
11 escalating in your local fish markets. So that economic
12 dependency is really critical. Hydrographic services can
13 mitigate a lot of that by clear channels, good weather, good
14 tides, accurate timely information.

15 The third dependency I want to identify is -- before I
16 step into that. I have to say there is a benchmark we live with
17 in Alaska post Exxon Valdez and that is best available
18 technology. So when you bring in refined product into these
19 communities if there's a question -- if an incident happens the
20 question's going to come back were they using the best available
21 technology. Clearly we use the best available that's available
22 but it is -- in most of rural Alaska it's very substandard to
23 the lower 48. And what can be done to improve our navigation
24 services we'll do great.

25 The third part is community and cultural has a dependency

1 on the fishing industry. People have grown up fishing, families
2 fish, they own the boats, they run the plants, it's just really
3 deeply entrenched into all of our communities whether they're
4 Native or whether they're -- a lot of the ur -- quasi urban
5 settled communities in southcentral and southeast in particular.
6 There's business decisions that are going on all the time and
7 one of those business decisions that can be greatly enhanced is
8 getting good digital data to dovetail with the data the
9 fishermen are collecting and putting through their -- either
10 their globe terrain builders or their ulax (ph) or whatever or
11 working with their local CDQ in getting the GIS's out. So they
12 get a good feel on model for the bottom. They're trying to do
13 sustainable fisheries, meet MSC certifications, Marine
14 Stewardship Council certifications is a emerging goal, and they
15 need good data and terrain models that they can match their
16 local data to. The different formats, there's lots of
17 challenges, but recognize there's different sets of data, the
18 public that's available and that's being collected by the
19 private. It's leading to opportunities for increasing the catch
20 per unit effort. Catch per unit effort is one of the few ways
21 you can drop your total cost per unit by increasing the catch.
22 The other thing is it lets you choose what is an effective gear
23 to use on the bottom or around the bottom so you are sustainable
24 and you're mitigating the concerns that people have with the
25 bottom.

1 Finally, in the event of a disaster, much like the
2 Seladong Iuua (ph) out in western Alaska. Having good
3 information to understand where is the trajectories, what is the
4 storms coming, what is the cartography in the area, what is the
5 angle of repose on the beach, what is the offshore slopes, all
6 of these tie into the decisions that are going on. But to go
7 one step farther, the people really look at this. And as Sharon
8 Siverny-Livingston (ph) said, add the Aleutian life form. It
9 may not have been a big event in the grand scheme of things, it
10 was \$85 million for 400,000 gallons of bunker sea plus the
11 soybeans, but it was still a disaster to the people. The native
12 people want to have simple clear tools that they can understand
13 what is going on when their lands are being impacted. This was
14 four native corporations. Federal government had the tools,
15 they could see it, the Native elders were not seeing information
16 that was useful. Hydrographic services can at least provide
17 this is our best cartography we have in the area, this is our
18 best meteorology, these are the decisions we're making for
19 oceanography, for currents, for spill response, real simple,
20 real clear, makes a big difference.

21 In conclusion, the fishing industry is facing challenges,
22 hydrographic services can help to mitigate a lot of those
23 challenges. The industry is a huge supporter of NOAA and the
24 services they receive as well as appreciate playing a key role
25 in the management of the resources that has been set up. So

1 with that I'll conclude and answer any questions towards the end
2 or after. Thank you.

3 MS. MCCAMMON: Thanks Bob, very much. We're going to
4 continue a little bit on -- with the theme of at least kind of
5 state resources and state management. To my left is Rich
6 McMahon who's with the Alaska Department of Natural Resources,
7 Lands Records Group. And this group is responsible for
8 basically all the maps and shorelines and information on kind of
9 the terrestrial and tidelands portion of state owned lands and
10 also uses of those state owned lands, including tidelands. And
11 so Rich is going to speak to those issues.

12 MR. MCMAHON: Thank you, Molly. Thank you for the
13 opportunity to be here. Our Department, the Department of
14 Natural Resources, is the land owner from -- of the tidelands
15 from the mean high watermark three miles out. So I just want to
16 first echo the statements from other colleagues up here that any
17 near shore bathymetry mapping that you can improve upon
18 definitely supports the mission of our Department. But
19 primarily what I would like to speak to is the -- I represent
20 more the upland side, as Molly says, where the land meets the
21 water and I would like to address some of my comments to that
22 infrastructure that the hydrographic mapping and the upland
23 mapping share which is of course the geodetic control issues.
24 And our group is -- our land records group, the mapping group,
25 or GIS has been a long term user of NOAA products and the NGS

1 products.

2 And I guess the first area I'd like to make a comment is
3 with respect to the state geodetic advisor. Our shop has worked
4 with the geodetic advisor for about a year and it's a successful
5 program. As everyone in this room knows the world of control is
6 going through major, major changes and we face big issues
7 educating policy makers on the implications of those changes.
8 The state geodetic advisor program is an excellent way to help
9 communicate these changes. And one of the challenges we faced
10 was in working with a commissioned officer we were just getting
11 some good traction, some momentum on training, and then we at
12 least temporarily lost our geodetic advisor to the duties of the
13 Officer of Hydrographic Surveys. So perhaps there's some things
14 we can work on together there to provide some continuity at
15 least for states that rely upon officers.

16 The second area I just want to mention is right now the
17 State of Alaska is working to create a statewide mapping
18 initiative. And it's early to tell if this will completely move
19 forward but the two themes that the initiative's pursuing is
20 more detailed digital elevation model and statewide ortho
21 imagery. Alaska lacks far behind the lower 48 in both of these
22 key themes. And in the area of the digital elevation maps,
23 particularly -- we'll no doubt end up stratifying the state on
24 high priority areas and lower priority areas. But certainly for
25 the high priority areas we would benefit from improved work in

1 the area of the Alaska Geoid Model. We again in Alaska do not
2 share the same level of I guess error limits if you will that
3 the lower 48 has with the computation of the orthometric
4 heights. And with all the changes from the CORS stations and
5 the other methods of survey control up there it becomes even
6 more important for Alaska to have a good working model. So
7 efforts in that area are appreciated and no doubt help the
8 bathometric surveyors as well and, as Bob mentioned, the terrain
9 mapping.

10 The third area that I just want to touch on is make
11 members of this committee aware of Alaska is involved in a very
12 large land transfer program. The Bureau of Land Management is
13 moving millions of acres to the State of Alaska to fulfill the
14 statehood contract and moving millions of acres to the Native
15 corporations to fulfill the Alaska Native Claims Settlement Act.
16 And all of that again ties to the common control net that
17 hydrographic services and the upland folks share. The land
18 transfer is all being conducted in NAD27. We do not have a
19 backward compatible pathway to find in the survey process to
20 NAD83 which places the burden of conversion on the next
21 generation or the next set of users because that transformation
22 will have to occur. So I think for the -- some of the folks in
23 this room help in educating the policymakers of the implications
24 of these changes and the implications of these changing nature
25 of survey and control would really help with this decision

1 making at these operational levels.

2 I guess I would just like to close, going back a little
3 bit more to your main theme of the hydrographic surveys. We do
4 have a number of dependencies and work products that we rely
5 upon on NOAA data products. The sailing point determinations of
6 the three mile limit are a big area. The oil spill response and
7 damage assessment planning and sometimes the actual response
8 themselves is an area. The Department of Natural Resources has
9 recently enacted an Alaska Boater Safety Program. So there's a
10 number of areas. We have a -- I guess my main point here is
11 just keep in mind that the users of your products represent a
12 very diverse user community besides the navigational folks and
13 increasingly those people are getting more and more
14 sophisticated in this area of GIS and mapping. And, as
15 Katherine said, we really appreciate all the efforts you've made
16 and one recommendation or request would be to continue that web
17 posting and if possible to provide the nautical charts which
18 many of these GIS users would like to see as background
19 information within a web services environment under the open GIS
20 protocols. That could be a really useful infrastructure to get
21 us past this world of downloading and all of that. So, but we
22 certainly do appreciate all those efforts made in that area. So
23 those are my comments.

24 MS. MCCAMMON: Thanks very much, Rich. We're going to go
25 down to the right on this table to Dr. Orson Smith who is

1 retired Army Corps of Engineers and is now a professor at
2 University of Alaska, Anchorage. And Dr. Smith is kind of the
3 key person that I turn to and almost anybody in the state turns
4 to when they speak to issues of coastal erosion.

5 DR. SMITH: That's a very kind introduction, Molly.

6 MS. MCCAMMON: And true.

7 DR. SMITH: Well, I'm a professor and chair the Civil
8 Engineering Department at UAA here in Anchorage. And I count
9 myself a coastal engineering specialist by way of my education
10 and experience with the Corps and more recently at the
11 University. But I have a lifetime of interest in nautical
12 charts, I use them as artwork in my office and home, but I also
13 navigate a sailboat and actually am involved with the Coast
14 Guard auxiliary on an adopt a chart program in Seward.

15 I have prepared a written statement and you'll have copies
16 provided. Just in the interest of time I'd like to read that.
17 It has some information about University programs and a couple
18 ideas I hope you'll discuss.

19 I'm pleased to inform the Hydrographic Services Review
20 Panel that the school of engineering at the University of
21 Alaska, Anchorage offers a cohesive sequence of courses leading
22 to a graduate certificate in port and coastal engineering. This
23 graduate certificate program was approved by the University of
24 Alaska Board of Regents in June 2006. Hydrographic surveying
25 and coastal measurements and analysis are among the course

1 requirements of the certificate program which provides
2 specialized education to enhance a theoretical knowledge and
3 practical skills of graduate engineers to deal with engineering
4 problems of the coastal zone.

5 The UAA school of engineering also presents Alaska's only
6 ABET-accredited four year bachelor of science program in
7 geomatics. Hydrographic surveying is a part of this program
8 already but could be strengthened with additional teaching
9 resources. Support from NOAA to more rigorously teach
10 hydrographic surveying would allow the UAA Geomatics Department
11 to build the capacity of Alaska's surveying industry and to
12 accomplish -- well, to build the capacity of the industry to
13 accomplish NOAA and other contract industry surveys to the
14 highest standards. Student opportunities for challenging field
15 experiences, industrial internships and participation in
16 relevant research are readily available to an expanded
17 hydrographic surveying program at UAA. Such a program could be
18 conducted in collaboration with existing programs in the lower
19 48 states to further build the national capacity for
20 hydrographic surveying excellence.

21 Concerns for climate change impacts have recently brought
22 national attention to Alaska's eroding coast. Comprehensive
23 review of coastal erosion processes or trends has yet to take
24 place in Alaska. I suggest that NOAA could support a program in
25 Alaska to produce Alaska coastal sediment charts. These special

1 charts would provide bathymetry superimposed with sediment
2 characteristics and transport trends that identify sediment
3 types, sources, sinks and transport rates for major littoral
4 cells along the Alaska coast. This compilation could be
5 accomplished through interagency collaboration, perhaps with the
6 USGS and the University, as it has in recent years in
7 California, Oregon and Washington. These charts and associated
8 documentation would be useful to coastal residents and managers
9 of coastal resources to prioritize regional sediment management
10 needs and opportunities along the Alaska coast and to develop
11 strategies to address critical issues such as coastal erosion,
12 recreational uses, commercial fishing, aquaculture, navigation,
13 dredging and sediment flow through coastal wetlands to ocean
14 waters. I would be glad to assist the panel and NOAA officials
15 in formulation of a new program of this nature.

16 There's many other things I could add but in the interest
17 of time I'll conclude my remarks there.

18 MS. MCCAMMON: Thanks very much, Orson. Our next speaker
19 is Sue Saupe who is Science Director for the Cook Inlet Regional
20 Citizens Advisory Council. And CIRCAC, as it's referred to, is
21 a product of the Oil Pollution Act of 1990 following the 1989
22 Exxon Valdez oil spill which called for two public advisory
23 committees in Prince William Sound and Cook Inlet to be kind of
24 public watchdogs of the oil and gas industry in Alaska. And for
25 CIRCAC, I actually serve on that Board as the representative for

1 the Municipality of Anchorage. And Sue has been Science
2 Director there and will speak to some of the issues relating to
3 oil spill response and preparedness.

4 MS. SAUPE: Thanks, Molly. I know you're interested from
5 a statewide level and most everybody here has discussed it from
6 Alaska level but I'm going to give you an example of what we've
7 identified as data needs in a specific area and that's Cook
8 Inlet and surrounding areas.

9 Molly mentioned that we're related -- or formed under the
10 Oil Pollution Act of 1990 which lists a huge -- identifies
11 specific tasks that we're supposed to do related to oil spill
12 prevention and response, environmental monitoring, studying wind
13 and water currents so that you can better predict transport of
14 oil. So we have a huge kind of laundry list and we rely on
15 partnerships and data provided by other organizations a lot in
16 order to get our work done. We are interested in the data
17 that's been discussed for improved safe navigation, mainly for
18 its applications in preventing oil spills during navigation.
19 But also we're really interested in a lot of that data for its
20 applications beyond safe navigation, such as we have a very
21 strong interest in improving surface models for oil spill
22 trajectories in Cook Inlet. As well we would like to see three
23 dimensional models developed in the area that can handle the
24 vertical velocities found in Cook Inlet associated with the red
25 zones that we do know from past examples, the Glacier spill, can

1 actually entrain the oil vertically and make it appear
2 elsewhere. And it's a little hard to pre-plan or to plan your
3 response if you don't really understand where that's going to
4 resurface. And this three dimensional modeling will be -- help
5 us to better understand comparative risk for surface oil
6 trajectories versus disbursed oil trajectories, the interaction
7 and fate of oil mineral fine aggregates, and then, as I
8 mentioned, even particulate oil that gets entrained subsurface.

9 As an organization we have invested a lot of time and
10 money into trying to improve this and helping any way we can
11 other organizations collect their data that can help us improve
12 tools that are available in Cook Inlet. For example, we are
13 working with Alaska Ocean Observing System in preparing a draft
14 Cook Inlet, Kenai Peninsula Ocean Observing System Plan so that
15 we can work to integrate observational measurements and develop
16 better modeling tools. We worked with AOOS in the Kachemak Bay
17 research reserve to develop a user needs assessment for Cook
18 Inlet and I'll mention some of the results of that in a moment.
19 And as well we have worked with organizations such as University
20 of Alaska, school of fisheries and ocean sciences, the Kachemak
21 Bay research reserve and various branches of NOAA to fund and or
22 support observational data collections that can be used for
23 improving some of these models and building tools. And examples
24 of that are we supported some surface ocean current radar
25 deployments for Cook Inlet. We are conducting monthly CTD

1 transects at what we're considering the boundaries of Cook
2 Inlet, at the lower Cook Inlet entrances, Kennedy and Stevenson
3 entrances, northern Shallow Cove, as well as areas that sort of
4 bound upper Cook Inlet from lower Cook Inlet that -- between the
5 forelands and bisecting Kachemak Bay. We've supported the work
6 of Mark Johnson in deploying satellite drifters to help us
7 understand net transport within the inlet and downstream of Cook
8 Inlet. And as well we've been supportive of the work that
9 NOAA's done to deploy 80 CP's in Cook Inlet and we are also
10 currently seeking funds to get some permanently deployed bottom
11 mounted ADCP's that will overlap, excuse me, spatially with some
12 of this other work.

13 We've been really pleased with a lot of the partnerships
14 that we've been able to build but we've also been kind of
15 frustrated, and without picking on any particular program we
16 have noticed that there are times when within an agency,
17 including NOAA, there's not necessarily good communication among
18 the different divisions or departments. And we would love to
19 see that communication improve so that the deployments of
20 various instruments can overlap in space and time. Recent
21 example was a disjunct in the deployment of COTR by NOAA in Cook
22 Inlet, current meters and ADCP's and it would have been a really
23 I think phenomenal set of observational data if they had
24 overlapped in space and time.

25 I mentioned that we worked with the Alaska Ocean Observing

1 System in doing a user needs assessment. We also co-sponsored a
2 physical oceanography symposium in 2005 where we could discuss
3 the results of the user needs assessment and have all the
4 different people that are collecting data and developing models
5 in the same room so we can talk about long term plans. And the
6 proceedings from that symposium are available on Molly's website
7 and as a quick summary I'm going to talk about some of the
8 things specific to Cook Inlet that did come up for that.

9 As already has been mentioned, there's a need for better
10 predicted tides and currents, improved bathymetry and that's for
11 the higher resolution bathymetry we have for all areas of Cook
12 Inlet the better we can build models that rely on tidal
13 component. But also bathymetry and sediment type data is really
14 important for just basic things such as our research. We did a
15 big gulf wide environmental assessment through the EPA's
16 National Coastal Assessment Program and we ended up having to go
17 into several areas where there was no data available and we just
18 had to rely on the ship tracks and getting some good sonar
19 before we could put our trawl down. Also bottom type oftentimes
20 did not match up with what we found on the bottom throughout an
21 entire area and what was included in the charts. We also found
22 that especially for Cook Inlet I believe that the sediment type
23 depends very strongly on whether you're in a spring or a neep
24 tide and we were able to sample soft sediment types only during
25 certain tide phases and that sediment type was not anywhere

1 available during really -- the really strong spring tides. So I
2 like Orson's idea of sediment transport information.

3 Better shoreline is definitely, that's been an issue for
4 us for some of our coastal mapping and we believe that we need
5 very good vertically or tidally referenced shorelines to
6 interact with some of the habitat -- coastal habitat data that
7 we've been trying to develop. And these information are really
8 important to interact with the better trajectory models that
9 we'd like to see so that we can have a better -- we can do
10 better assessments of shoreline risk in preplanning and response
11 efforts for Cook Inlet. For Cook Inlet there was identified
12 that we definitely need some better winds and weather
13 information, especially related to some specific jets that come
14 down through the mountains in lower Cook Inlet. And we would
15 like higher resolution, both spatially and temporally, surface
16 currents and we -- as I mentioned before, we tested COTR. And
17 Molly mentioned that in a lot of areas it's really hard, the
18 research is that you have had some problems with the remotely
19 deployed ones and power issues but in Cook Inlet we have the
20 infrastructure available to deploy them for much of the
21 shorelines in Cook Inlet. So I think that we're ready to go in
22 terms of getting some of those instruments deployed and they can
23 be very useful in obtaining the data that we need to test and
24 improve models as well as directly for oil spill response in the
25 event that we had an issue there.

1 And, as I mentioned, we need models that can incorporate
2 the complex oceanography that's found in Cook Inlet, such as the
3 semi-permanent frontal systems at the rip tides that include
4 both convergent and divergent fronts. And that can incorporate
5 both tidal currents, the very strong tidal currents that we see
6 in Cook Inlet, as well as currents driven by the density
7 differences, I'm sorry, such as baroclinic (ph) currents like
8 the Alaska coastal currents that influence this lower Cook Inlet
9 and the western boundary current due to the high volumes of
10 fresh water that are entering Cook Inlet, in the upper Cook
11 Inlet by the Knik -- Matanuska and Susitna Rivers as well as
12 other rivers. And finally, sediment transport issues are of
13 real importance in Cook Inlet, as I mentioned before, but also
14 not just from a depositional but from a erosional point of view.
15 So thanks.

16 MS. MCCAMMON: Thanks very much, Sue. Our final speaker
17 is Kevin Bruce who's Deputy Director of the Port of Anchorage
18 but I don't see him here. He had another conflict meeting
19 starting at 10:00 and he was going to be a little bit late but
20 he may join us in a few minutes. But as you can see, we have a
21 little bit of a kind of Cook Inlet, southcentral bias I guess or
22 perspective up here because this meeting is based in Anchorage.
23 But I think if you were to hold this meeting in Juneau or
24 Ketchikan you'd be hearing very similar stories from the folks
25 who represent the different interest groups there, that

1 basically there's a -- what we view as kind of a dearth of
2 information up here compared to the length of our coastline and
3 certainly the value of the resources that people experience in
4 the marine environment. And with that, I -- we take any
5 questions and I turn it back to you, Mr. Chairman, and how you'd
6 like to proceed.

7 MR. RAINEY: Okay. Well, Molly and the panel, thank you
8 very, very much. I know for a number of years we've been trying
9 to come up here because we are aware of some of the special
10 requirements and needs that you pointed out. I had a couple of
11 thoughts listening through that I just want to comment on and
12 then open it up for the panel members. But it was a
13 tremendously helpful presentation and as you may be aware if you
14 came in a little bit ahead of time, we're working on a special
15 report right now and trying to sketch in some of our
16 recommendations and we've had an opportunity for public comment
17 at our -- all of our meetings. And one of the things I wanted
18 to comment on is information across the panel today, that we
19 heard some excellent examples of -- one of the things that we're
20 working on is expanding the uses and NOAA's just acknowledging
21 NOAA's effort and supporting increased use of this data across
22 different user groups and as many of you all mentioned today was
23 some very excellent examples of that. The question I wanted to
24 ask is a follow up. I think Captain Pierce and Ms. Spahn and
25 others mentioned one of the things that we were chartered to do

1 explicitly in the Hydrographic Service Improvement Act which
2 enacted this panel was to work with NOAA to take a look at their
3 national survey priorities plan and in fact this afternoon
4 Commander Doug Baird is going to give us a briefing on the
5 recent vision for that. And we have had occasion and we did
6 comment on that and I think it's a great vehicle. But I'd be
7 interested to ask you, you know, as a panel generally about your
8 awareness of that plan and the transparency of the process and
9 -- you know, with the NOAA nav managers and other steps NOAA has
10 taken to highlight that, if you had any kind of further comments
11 on how you provide the input to that plan. Because that's
12 something we've been specifically asked to do and are working
13 on.

14 CAPTAIN PAWLOWSKI: I can make one comment obviously.

15 MS. MCCAMMON: Use the microphone, Bob.

16 CAPTAIN PAWLOWSKI: Sorry. Yeah, I can make one comment
17 and compliments to -- is that on? Yeah. And compliments to how
18 NOAA's kept the process open. Two things. One, by having a
19 navigation advisor up here you have a very good conduit into the
20 spectrum of the industry. But you have to recognize that Alaska
21 is huge. The ability to attend the proper meetings whether it's
22 in southeast, whether it's with the Coast Guard, whether it's
23 with Southwest Alaska Municipal Conference, et cetera, or
24 whether it's even getting out into western Alaska and
25 familiarity with changes in fisheries or mineral development, et

1 cetera, is a challenge. Because Steve Burrell (ph) was here
2 with a letter to Mike Riddle talking about resource development
3 for gravel and that on behalf of the Mining Association out of
4 Hinchinbrook (ph) -- or not Hinchinbrook (ph), out at western
5 Alaska as well as up in Nome. The navigation advisor needs to
6 be able to participate and actually understand the challenges
7 with those. So it's a good process. Having a navigation
8 advisor up here will make it go much better but that navigation
9 advisor has to have the resources to do justice to the different
10 regions in the state.

11 MS. MCCAMMON: Anyone else?

12 DR. SMITH: I'll just.....

13 MS. MCCAMMON: Okay, Orson, go ahead.

14 DR. SMITH: I feel compelled to say that my only
15 experience for a really long time it seems has been very good
16 with NOAA's particular willingness to collaborate with other
17 agencies. As a Corps of Engineers Project Manager I called on
18 NOAA many times to help with the planning and design of
19 navigation projects and found the -- particularly the
20 operational side of the house in surveys and tides to be very
21 responsive and that's certainly a reputation that I hope will
22 abide in the agency and it's very useful. Collaborating with
23 the Coast Guard, of course, is a natural thing and charting and
24 I believe there are opportunities for other agencies as I
25 mentioned, like the USGS as well. So that's what I wanted to

1 say there. Molly.

2 MS. MCCAMMON: Okay. I'd just like to make one comment
3 and that's that for the Alaska Ocean Observing System we have
4 two members from NOAA sitting on our board. We have a
5 representative of -- the State Director of the National Weather
6 Service and then we have the State Director, the Director of the
7 Alaska Fisheries Science Center. So we have NOAA fisheries and
8 NOAA weather service represented but National Ocean Services is
9 not well represented in this state. There is really not much of
10 a presence up here. And it makes -- I think there -- it makes
11 it a little bit difficult then to have that full integration of
12 those services within that division with the other services in
13 the other divisions of NOAA. And I don't know if the answer is
14 having a stronger NOS person being the lead person or if it's
15 even -- something even above that, something similar to what the
16 Department of Interior has which is a direct representative of
17 the Secretary of Interior representing all Department of
18 Interior agencies across the board in the state. But some way
19 to help facilitate that interaction and communication amongst
20 all the agencies I think would be very helpful. Rich.

21 MR. RAINEY: Well, thanks very much. Could I open it up?

22 MR. MCMAHON: Just one other.....

23 MR. RAINEY: Certainly.

24 MR. MCMAHON:quick comment on that is people on the
25 com -- or folks on the committee may not be aware there is also

1 a -- kind of a loose knit organization called the Alaska
2 Geographic Data Committee and I think it -- it has some
3 recognition through the Federal Geographic Data Committee and
4 for -- it may provide one conduit to help improve some of those
5 communications. The main goal of that organization is to share
6 information about, you know, spatial data activities and it's
7 modeled more or less off the Federal Geographic Data Committee.
8 And NOAA did have good presence when Bob was available but it's
9 kind of fallen off since so it's just one opportunity.

10 MR. RAINEY: Okay, well thanks, that's -- those are very
11 helpful insights. Can I open it up to the panel members for any
12 other follow up questions? John Oswald.

13 MR. OSWALD: I'd make a comment. I went to -- I meet with
14 Molly several times a year and try to find out what they're
15 doing and what these other groups are doing. So I went to the
16 Homer -- Molly through AOS has these stakeholder meetings
17 around the state so they, like this, try to get input. Very
18 well attended, broad base. I went to the one in Homer been 18
19 months ago now maybe and was totally shocked to see some things
20 happening. When Jack Dunnigan spoke this -- just yesterday
21 about this breaking down, you know, the walls, et cetera. But
22 in modeling, CO-OPS does modeling. There's a variety of efforts
23 going on in the universities and in NOAA and elsewhere in
24 modeling. But -- Molly could correct me, but I believe we had
25 reports from six, possibly seven different research entities

1 doing modeling in Cook Inlet. I as a taxpayer would like to see
2 that stopped and more coordination. I know everybody has their
3 agenda. The one that -- do you remember how many? It was seven
4 or.....

5 MS. MCCAMMON: Well, I know there were at least -- I don't
6 know, maybe you have like five ocean circulation models. And I
7 think three or four of them were NOAA's.

8 MR. OSWALD: Yes. There's (indiscernible) the PMEL model,
9 the NASA JPL model, the U of W model, the -- and then to the
10 surprise of everyone the NOAA NOS -- I have to get this right.
11 It's the research group that's under Steve Barnum.

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

14 MR. OSWALD: Yeah. And there -- and you would know the
15 person. I can't think of the fellow's name. He's 60 years old,
16 a senior scientist, just beginning a complete new model of
17 collecting all the bathometry from the historic charts and not
18 one of the other modelers knew about that effort. And it was
19 about a one and a half man year effort according to him and I
20 could look in my notes and find the name. You probably know
21 this fellow. But.....

22 MS. MCCAMMON: Was it Rich Patchen?

23 MR. OSWALD:(indiscernible).

24 MS. MCCAMMON: Was it Rich Patchen?

25 MR. OSWALD: Yes, that's who it was. Does anything

1 through the AOOS happen on more -- like CO-OPS has operational
2 models for the Great Lakes, Chesapeake Bay and there's a few
3 others that sometimes are done in the -- I believe done in the
4 universities and then come over and some are done probably
5 inside the university. That actually doesn't support the NOS
6 program, Office of Coast Survey program, of hydrographic
7 surveying, if you can believe that, because they're not
8 compatible. Inside of NOAA.

9 MS. MCCAMMON: Yeah, John. I think that the issue -- the
10 issue I don't think is so much that there are all these
11 multitude of models because each one of them will tell you,
12 well, we're doing it a little bit differently and our mission is
13 a little bit different and our perspective. But I think that
14 the larger issue is that the folks are not talking to each other
15 about what observations are needed to be collected to service,
16 to feed those models, and those are not being coordinated. And
17 that's where the expense is is in collecting the observations
18 and that's where we need to really force the issue of getting
19 the various agencies and the various entities together to really
20 figure out what is -- what are they trying to achieve with these
21 models and is there duplication between them but if not at least
22 do a better job of coordinating the observation system. So --
23 and that is the goal with the plan that Sue's been working on
24 for Cook Inlet to hopefully achieve that.

25 MR. ZILKOSKI: And -- Dave Zilkoski. Is this on? But

1 from the Integrated Ocean Observing System and what Molly's
2 leading in the Alaskan Ocean Observing System, that's one of the
3 things we're trying to identify, how do we coordinate these
4 models and -- from inside NOAA is one aspect and we're trying to
5 look at how to do that and we're doing a better job of it. But
6 it's between the agencies and we're also doing that. The
7 Ocean.US which is supposed to be coordinating a lot of these
8 activities between the agencies and working with the Interagency
9 Working Group on Ocean Obs. And I kind of mentioned yesterday
10 in one of my reports, there's a modeling group to try and -- to
11 do just that, to start coordinating what they're doing. And as
12 they said, there's certain models you want to do for certain
13 reasons but it's the data acquisition and then the multi-use of
14 the same data and that's making it interoperable and integrating
15 so you can actually get the data out there so other modelers can
16 know what they have and what they're doing and then they can use
17 it. So we're trying to tackle that and actually Thursday we're
18 going to meet with Molly and her group to talk a little bit more
19 about some issues.

20 MR. SZABADOS: John, I'd like to respond to one question
21 you had regarding the cooperation between Coast Survey and CO-
22 OPS and modeling. Actually it's a -- it is a (indiscernible),
23 it is a very close knit team and they actually do the transition
24 of the models from research to operation to us so we do work
25 close together. And I think to answer the question about the

1 multiple models, let me -- I -- my office is responsible for
2 running models but I will say operational models. And it's not
3 that operational's any different than research, but research is
4 where you develop new systems, new technology, and I would
5 encourage the universities to develop the new models, bring on
6 the new technology, and then at the appropriate time see that
7 migration, that technology to operation and enhancements.

8 MS. SAUPE: I would just like to add to that. That, you
9 know, addressing these multiple models, there probably will
10 always be multiple models for every geographic area that are
11 designed to address very specific issues. Like the MMS one,
12 they were really interested in the wetting and drying, very near
13 shore areas. JPL modeling so that it can link with larger --
14 within a bigger larger nested scale. But ultimately it comes
15 down to, from my interest in oil spill NOAA will rely on one
16 model and one model only currently and that's the NOAA model and
17 the NOAA model does not model Cook Inlet very well. And so in
18 order to test these models and improve any model or all models
19 we definitely need to emphasize the observational data. And I
20 just really wanted to reemphasize what Molly was saying.

21 Thanks.

22 MR. RAINEY: Andrew.

23 CAPTAIN MCGOVERN: Yeah, Scott, I think Molly hit the nail
24 on the head when she said that it's not the models, it's the
25 sensors that cost the money and that they have to multipurpose.

1 I mean we've talked about this before, that -- you know, and
2 we've seen that a lot of redundancy if you have three different
3 organizations putting sensors in the same spot and it's
4 ridiculous, let's face it. I mean we need to get smart about
5 that and put in sensors that are multipurpose that can be used
6 whether it's real time for navigation or, you know, to -- used
7 for modeling or whatever down the road. I mean that's -- you
8 know, everyone could just -- we need a source that the data can
9 go into and people can pull it out and do whatever they want
10 with it. But it's got to be -- the money -- let's face it, this
11 -- the IOOS program, all of this, there's not a whole lot of
12 money for any of this stuff so we've got to be really smart on
13 how we put these sensors in and they have to be used by
14 everybody and they have to be able to be used by everybody. And
15 that seems to be the -- to me the biggest -- you know, the
16 smartest way to go here.

17 MR. RAINEY: Okay. Any further questions from the panel?

18 MR. ZILKOSKI: Yeah, I have one more. Once again, Dave
19 Zilkoski. Molly, you mentioned about the tide gauges and I know
20 NOAA has certain standards that they put tide gauges in and USGS
21 Corps have different standards and -- which I don't really see a
22 problem with that they have different requirements and so forth.
23 But I guess I -- can you elaborate on what would be helpful to
24 you coming from a geodetic world and so we have different
25 standards for doing different orders and accuracy. You know,

1 heights, two centimeters, five centimeters, and we give both of
2 those and they have different procedures and specifications of
3 doing them and people find that very useful, they don't need to
4 get millimeters, they need to get five centimeters or even 10
5 centi -- but we have guidelines of how to do that. Is that
6 something what you're saying that you'd want certain layered
7 standards of certain types of -- say the tide gauges, having a
8 first order, a second order, a primary, secondary -- I can't use
9 that because that has a different meaning, but first order,
10 second order type gauges?

11 MS. MCCAMMON: That's correct, Dave. And I'm not an
12 expert on this, this was a recommendation that came basically
13 from our arctic researcher up at the University and some
14 discussions with John Oswald too that -- and it goes to the tide
15 gauge issue and to the mooring issue and buoys that often the
16 universities are able to put things in on a research basis that
17 is providing information at a much less cost than the regular
18 operational deployment from NOAA or from other agencies. And so
19 we just have to figure out a way to do it more cost effectively
20 and cheaper because we need more of them and cost is always
21 going to be the issue. And so I think there can -- we should
22 look at some layer of standards, different standards for
23 different purposes that would be still useful.

24 CAPTAIN MCGOVERN: Scott, I just.....

25 MR. RAINEY: Captain McGovern.

1 CAPTAIN MCGOVERN: I think the -- that just defeats the
2 last statement that the sensors -- you need to have multiuse
3 sensors and if you've got sensors that have different accuracy
4 limits then they can't be used by everybody. You have to
5 determine what is at least a minimum accepted accuracy for a
6 multipurpose sensor and then you have to go with that and that
7 is why I guess, you know, some of the NOAA stuff costs more but
8 say to use it navigationally it has to be accurate. It has to
9 be because I'll go to jail if it's not, you know.

10 MS. MCCAMMON: Well, it's.....

11 CAPTAIN MCGOVERN: I'm using a sensor so you -- what I'm
12 just saying is.....

13 MS. MCCAMMON: Yeah.

14 CAPTAIN MCGOVERN:the whole purpose of trying to
15 minimize the amount of sensors and use them multiuse if you say
16 that they can run at different accuracies then you've just taken
17 that and thrown it out the window, that's just my problem.

18 MS. MCCAMMON: I think it's accuracy to what level because
19 there's nothing that's perfectly accurate anyway, there's always
20 some standard deviation or whatever, error of deviation. But I
21 think it's not just the multipurpose sensor that we focus on
22 too, but it's also multipurpose platforms. And so you might
23 have one sensor on that platform for a single purpose but you
24 would be using that platform for additional sensors for
25 additional purposes. So the big cost for us isn't necessarily

1 with the sensor itself, it's with the platforms and maintaining
2 them.

3 MR. SZABADOS: Since we're talking about water levels let
4 me -- I would like to clarify one thing. While sensor
5 technology and sensor accuracy is important, that's only part of
6 the equation. The standardization to zero in that tide gauge to
7 a reference point, to a datum is very critical. You could have
8 the most accurate sensor out there but if you don't maintain it
9 to the right datum it can cause significant -- ships going
10 aground, levees being built a foot and a half below where they
11 should have, like they were at New Orleans. Again, that was not
12 the sensor's problem, they didn't pay attention to surveying and
13 to the datum. So it's the whole process that -- and that's
14 actually where some of the funding gets more expensive,
15 maintaining that system to that datum or, as you said, to that
16 platform. But sensor technology is also important.

17 MR. RAINEY: Well, I just would like to make the
18 observation. I'm at least taken away from my mind that we're
19 really largely on the right track. I mean I think many of the
20 information you gave us is aligning with our efforts that we're
21 looking at in our special report. And it's wonderful to get the
22 -- you know, the Cook Inlet and then the statewide and then,
23 like you say, we're trying to look at some national issues and
24 to see sort of how that's dovetailing and it does seem to me
25 that, you know, the communication and the outreach is taking

1 place and I think we're all -- I think there's going to be
2 significant progress made with NOAA's efforts and hopefully we
3 can play our part. But again, I'd certainly like to thank Molly
4 and the panel, tremendous insights and information from the
5 Alaska perspective and it's been a real pleasure to come up here
6 and hear your point of view. So thank you very much for taking
7 the time to join us today.

8 MR. ZILKOSKI: Can I say one more thing?

9 MR. RAINEY: Sure. Yeah.

10 MR. ZILKOSKI: Just I want to commend Rich for actually
11 being -- someone other than me to say the state geodetic advisor
12 and the geoid model. So that hasn't happened in this forum
13 before, so thank you very much.

14 MS. MCCAMMON: We did it for you, Dave.

15 MR. RAINEY: Okay.

16 MR. SZABADOS: Scott.

17 MR. RAINEY: Yeah.

18 MR. SZABADOS: I'd just like -- I mentioned to some of the
19 people, but next season we'll be doing a full current survey up
20 in Prince William Sound and we have a group coming up later this
21 month to work for the users to get their requirements, hopefully
22 we put the gauges where they're needed the most. Be looking to
23 work with all of you. Thank you.

24 UNIDENTIFIED MALE: Thank you.

25 MR. RAINEY: Mr. Vice Chairman.

1 MR. SKINNER: I think having this panel was a really
2 useful way of getting some public input to our process and I
3 would -- I think as we go forward as a panel that in future
4 meetings we should think about having a similar type panel at
5 each venue because I think this has been very helpful. It's
6 very good to get the general public input to the public sessions
7 but this really provides a real depth of input that I think is
8 important for what we're working on. So thank you.

9 MR. DUNNIGAN: All right, let me -- and let me add my
10 thanks too. Sorry I had to step out for a minute. But, you
11 know, one of the challenges for me, you know, coming to the
12 National Ocean Service is to start looking for the different
13 ways in which our programs are connected. And what I heard from
14 you today was a lot of connections talking about not just
15 surveys and charting and mapping but talking about the
16 implications of this for fisheries, for coastal management, for
17 habitat areas of particular concern. And so it's helping me to
18 sort of understand and I think for those of us in the Ocean
19 Service to think about how the various pieces of what we do end
20 up supporting each other and fitting. So it's a very good
21 perspective, I'm really glad you're here. Molly, thank you very
22 much for organizing, this is great.

23 MS. MCCAMMON: Thank you for coming.

24 MR. RAINEY: All right. Well, let's adjourn for lunch and
25 then we'll come back and we'll jump in with hydro survey

1 planning and priorities. Thanks.

2 (Off record at 12:05 p.m.)

3 (On record at 1:05 p.m.)

4 MR. RAINEY: As we mentioned just before the break, our
5 next presentation or session here is going to be Commander Doug
6 Baird is going to talk to us about the latest draft of the -- of
7 NOAA's hydrographic survey priorities. We had a chance to get
8 the draft out to everybody before the meeting and hopefully
9 folks have had a chance and let me just kind of turn it over to
10 Commander Baird and we'll engage here.

11 COMMANDER BAIRD: My name is Doug Baird. I am an Alaskan
12 resident, however I'm currently displaced to the east coast. I
13 am counting the weeks until I come back permanently. Captain
14 Bob mentioned that I was on a team that taught a hydro course
15 and several other teachers are actually in this room. But it
16 reminded me of a statement I used to open up by first lecture
17 with. When I was a wee Ensign back 16 years ago the ship I was
18 assigned to was delayed from sailing to Antarctica and the
19 captain was briefing the ward room as to what was going on and
20 what he thought might happen. And after he was done I raised my
21 hand and being kind of eager I wanted to get underway and wanted
22 to know how much we were going to be delayed. And I asked him,
23 I said, well Captain, what's the worst case scenario. He looked
24 me dead in the eye and said, well Mr. Baird, that'd be global
25 thermonuclear war. Ever since then I've been very -- I've tried

1 to be diligent about being precise in how I speak. So if I
2 leave something out or I'm not clear ask me a question, I'll
3 clarify.

4 I think most of you or all of you on the panel have
5 received a copy of the 2006 draft update of the hydro survey
6 priorities. Hopefully you've had a chance to look through it.
7 When I got in the office a year ago the plan was to actually
8 update the 2004 edition in 2007. But there was a -- my boss has
9 changed and they decided they wanted to do it a little bit
10 sooner. So we hurried up and we tried to put something together
11 before this meeting started. And so this is not a final
12 product, it's -- there are some errors, in fact I'm seen some
13 errors since I've been here. But I am -- part of what I wanted
14 to be up here for was for you all to actually give me
15 suggestions, critiques and comments.

16 Our plan in the future is to update this more frequently
17 then even just every two years. I'd like to do it every year if
18 possible and we're going to do that by not producing or a
19 limited run of paper copies. I'd like to go to a digital
20 version that's available on the internet but that we have to
21 spend less time actually producing a document like this. The --
22 I had two employees working on this since mid to late June. One
23 of them put in basically a month and a half into it and the
24 other one put in three weeks. So it was a time sink to get a
25 paper product out and so if we can just stay with a digital

1 version we might reduce the labor that goes into it.

2 So with that I'd like to open up for questions, any
3 comments or suggestions or critiques that you all may have.

4 Yes, sir.

5 MR. GRAY: I looked at this and it's very interesting and
6 to try and show us what it is that's been done, what it is that
7 needs to be done, but I wrote on the front of it does this
8 include U.S. Army Corps of Engineers channels, when you take the
9 square miles needing to do this, that or the other thing.

10 COMMANDER BAIRD: No, it does not.

11 MR. GRAY: It doesn't.

12 COMMANDER BAIRD: Not specifically.

13 MR. GRAY: And have you got any idea if you did include
14 that what -- how many square miles might be involved?

15 COMMANDER BAIRD: If the Corps of Engineers channels are
16 actually on our charts then it's been included. But we did not
17 specifically do anything outside of our scope of responsibility
18 for charting.

19 MR. GRAY: But I mean like if you look at a major
20 commercial harbor or something -- I think I looked at San
21 Francisco here and it's all red, this is to be resurveyed and so
22 forth like that. There must be I think somewhere there some
23 dredged channels, maybe they're not in San Francisco. But if
24 you did that in New York or other areas. Or Delaware Bay.

25 COMMANDER BAIRD: No, we have not actually physically

1 doughnut holed out areas that may be surveyed by the Corps of
2 Engineers. Because even though when we're in an area we don't
3 specifically tell them to survey in the channel, sometimes it
4 makes more sense to leave a transducer on and cover that area at
5 the same time. But the Corps of Engineers data always has
6 precedent over our own, unless we find a discrepancy. At that
7 point we report it to the Corps. So.....

8 MR. GRAY: Well, I'm sort of curious on it because one of
9 the things that we're putting in our report is that we want in
10 government maintained by Corps of Engineers channels to have
11 NOAA survey, NOS surveys to see that they've cleared the
12 channels of all obstructions. I'm just curious how much
13 additional mileage or square mileage that might add to the tasks
14 that NOAA would have to undertake.

15 MR. DASLER: Just having worked with the Corps before -- I
16 mean not all districts conduct their surveys along the same
17 levels and that kind of thing. And a lot of them look at it as
18 their task -- the Corps' mission is to maintain the channels in
19 terms of dredging. So they consider these surveys as dredge
20 condition surveys or monitoring surveys from a dredging
21 standpoint and not trying to detect obstructions. And certain
22 districts do that a little more than others but -- and I think
23 that's where sort of the nexus is in that is that they're really
24 not out there looking for something, an obstruction that could
25 have fallen, it's more maintenance of the channel and when do

1 they need to re-dredge.

2 MR. GRAY: That's a very short sighted view.

3 CAPTAIN BARNUM: I was going to add that I would think the
4 square nautical miles of the channel for a harbor is probably
5 relatively small. And certainly in the efficiency of surveying
6 it's more efficient to run your lines when you're surveying a
7 harbor rather than, you know, omit the channel so you get the
8 full picture of the bottom. So the Corps pretty much is the
9 authority for the federal project and they pretty much draw
10 their lines right at the edge of the channel for a little bit of
11 overlap and that's it. They do not survey outside the channel.
12 It's very interesting to point out when -- certainly in the
13 issue of -- NOAA had this comment, an emergency response a
14 couple years ago their view of the port being open was that the
15 channel was open irrespective of the fact that for this
16 particular port there were several areas that were naturally
17 deep that were not surveyed. So our view is that to provide a
18 path all the way from the approaches, the deep water, all the
19 way to the berth, which is not their view.

20 CAPTAIN MYRTIDIS: Well, Doug, I have a couple of
21 questions for you. I'm looking here at the survey priorities in
22 Alaska and what is interesting to me is to see that some of the
23 places that you have the majority of the cruise industry,
24 hundreds of thousands of passengers and quite a few hundred
25 thousands of tonnage you have priority three. That's a little

1 bit of a concern like in -- I believe in Ketchikan for example.
2 Which is one of the major calls.

3 COMMANDER BAIRD: Right. Now port -- Ketchikan, excuse
4 me, was actually surveyed in 2001.....

5 CAPTAIN MYRTIDIS: Right.

6 COMMANDER BAIRD:and so it was done with multibeam
7 and Terra Surveys is the.....

8 CAPTAIN MYRTIDIS: What about Juneau and Skagway?

9 COMMANDER BAIRD: Juneau was surveyed in 1997 with single
10 beam technology and then did a homeland security survey of the
11 channel leading up to the harbor in 2003 I believe.

12 CAPTAIN MYRTIDIS: And the -- in that waters to let's say
13 Glacier Bay or Sawyer Glacier and all that.

14 COMMANDER BAIRD: Sawyer Glacier on Tracy Arm was surveyed
15 with multibeam in 2000 and -- excuse me, I think it's 2001, but
16 it was a fairly recent survey, it was '99 and 2001. And we've
17 been told about the retreat of South Sawyer Glacier, it's
18 retreated about over a mile since we were there last. And so we
19 are planning to send a vessel to Endicott Arm to survey in front
20 of Daws (ph) Glacier and at the same time, this will be next
21 fall, we will also be sending a crew up there to the upper end
22 of Tracy to survey in front of where the South Sawyer has
23 receded. But as far as Glacier Bay, we have not addressed the
24 fjords of Glacier Bay as much because of the fact that it was
25 surveyed in the 1980's and it's considered to be a modern

1 survey. When we are noted of discrepancies then we would send
2 in and do little field examinations. In fact we did in 1999, we
3 did a quick check of the face of the glaciers just to make sure
4 they had not receded and at the time there wasn't much
5 difference from what was charted and what was -- we found in
6 reality. But as we get worried about these discrepancies then
7 we will address them.

8 CAPTAIN MYRTIDIS: Well, I just -- you know, I just wonder
9 everything you mentioned with the exception of one location I
10 think in 2001 everything is '96, '98.

11 COMMANDER BAIRD: Right.

12 CAPTAIN MYRTIDIS: And, you know, we were listening from
13 the panel before what's going on here in Alaska with the
14 shifting of the bottom and this and that and I was wondering
15 with the number of cruise ships that you have up here if it's
16 worth the effort to resurvey these areas.

17 COMMANDER BAIRD: There are some areas that are and we
18 rely upon the Coast Guard and the pilots to let us know where
19 the areas we've surveyed in the last 20 years have changed
20 enough for us to go back and resurvey them.

21 CAPTAIN MYRTIDIS: I hope not when they're going to hit a
22 reef, right?

23 COMMANDER BAIRD: So do I.

24 UNIDENTIFIED MALE: Yeah, I was curious Doug, do they ever
25 -- do you ever use satellite imagery to look at like how much

1 glaciers have retreated to what's -- to where the shoreline's
2 been charted.

3 COMMANDER BAIRD: Yes, we have, and if -- I'll let Mike
4 Aslaskan actually address that if you'd like to, Mike.

5 MR. ASLASKAN: Mike Aslaskan, NGS. Yes, we actually use
6 active impasse of sensors to look at that. We've used
7 commercial synthetic adaptive radar to look at the glaciers as
8 well as we use classified source quite often to update the
9 glaciers because they are retreating quite fast. Depends on the
10 request from Coast Survey and then I guess inquiries as far as
11 the users.

12 CAPTAIN MYRTIDIS: I'm sorry, I -- we have ships all over
13 the place. Hawaii.

14 COMMANDER BAIRD: Hawaii. We actually had -- we tried to
15 get some LIDAR data flown in Hawaii recently and I don't
16 remember what the result of -- there was -- the Corps of
17 Engineers was sending a plane or a helicopter there. I don't
18 remember if we were actually able to work out anything with them
19 or not. As of right now Hawaii is not an area we've been
20 sending service platforms, we've been concentrating on other
21 places. The number of requests coming from Hawaii have been
22 less than other areas.

23 CAPTAIN MYRTIDIS: Just for your information, we have the
24 biggest fleet of cruise vessels of 95,000 gross tonnage trailing
25 Hawaii on an everyday basis, seven days a week, 365 days a year.

1 MR. RAINEY: Doug, I had some things I just wanted to
2 point out for the panel. I mean first off I guess I'd really
3 like to acknowledge the -- you know, that you guys have
4 incorporated since we reviewed it the last time a number of
5 things, you know, over and above even putting the page numbers
6 in which was our best recommendation. But the -- you know, on
7 page three we've got a mention of recreational boating, that's
8 new. You've got we're tracking now the benchmark of the
9 critical navigation areas which I think is incredibly important
10 because that's sort of the sand bite or buzz word that we're
11 using up on the Hill to kind of measure progress. I think that
12 there's significant language -- well, there -- you can see the
13 break out of the new features but to talk about to be tracking
14 the emerging critical areas and then the -- and then to show
15 also the new -- the -- to actually start to graph and show
16 people the progress you're making with the full bottom coverage
17 I think is a really good feature. In the report itself, I'd
18 like to draw everybody's attention to it because I think we can
19 use this as a source document for -- to make our argument on the
20 critical need for this. And if you look on page four, I've kind
21 of grabbed onto some language there that bleeds over onto page
22 five. But basically getting -- NOAA is saying right there
23 setting forth in the document why we need this full bottom
24 coverage and the multibeam and that's exactly our argument for
25 -- you know, that's the -- we've got the cross jurisdictional

1 issues but that's making the point and that's the point we're
2 trying to make, that this type of technology is what we need for
3 navigation safety versus -- as Jon had just pointed out, the
4 Corps has a different mission so they're using different
5 technology. And so there's language we can make note of and
6 use. It talks about again on page five the expanded uses of
7 this data, and again that's just completely in concert with what
8 we're trying to do on the -- you know, on our bullet to really
9 show that it's not just, you know, fancy matrix management, this
10 stuff is a reality and it crosscuts across all NOAA's missions
11 and national needs. There -- one of the things, on page 12 and
12 it ties into my question about the -- you know, the awareness of
13 it. There is a section that talks about, okay, how do you get
14 input into the priorities and we talked about the nav managers
15 and the different -- the linkages and workshops and one
16 suggestion or comment I'd have is just to try to keep getting
17 the word out and have everybody be as familiar with that process
18 as you can. Another idea I'd have, and I'd mentioned it and it
19 -- not necessarily an original idea I had, but one of the things
20 that might be an enhancement that would be fun -- important
21 kernel to track would be the number of obstructions that you're
22 discovering with -- as you use the new technology and you do
23 these surveys, you know, we've discovered, you know, this many
24 new, you know, obstructions on the bottom or, you know,
25 significant things. And I don't know, it occurs to me as you

1 mentioned, you know, doing this more often and digitally I don't
2 know whether there'd be an opportunity to link -- I don't want
3 to say in real time, but I mean just to -- you have your survey
4 plan and I don't know if it would be possible to depict, you
5 know, NOAA effort and contracting effort that -- and kind of
6 show where they're working and focusing and have a link from
7 your planning document to your execution. That would be I think
8 an interesting, you know, piece of information. But I guess
9 those were my major comments and thoughts and I think it's a
10 good document.

11 COMMANDER BAIRD: As we talked earlier about keeping track
12 of wrecks and obstructions, that's a relatively easy thing for
13 us to do. It's just a matter of setting aside the time to do
14 it. We've done it in the past on sort of an ad hoc basis, you
15 know, promoting certain wreck we've found and sort of do some
16 glossy handouts. But keeping track of all wrecks and
17 obstructions we find during surveys is something that can easily
18 be implemented.

19 MR. DASLER: The other question I had was regarding the
20 resurvey areas. And I don't know, are those being incorporated
21 back into the critical area as -- like a survey reach its given
22 date? Because I know the Corps of Engineers, especially in the
23 inland waterways, in some areas, I mean it can -- a month, a
24 survey could be a month old and they're going to consider it out
25 of date because of big sand waves. I mean I know it's a lot

1 longer period for the areas we're talking about here but it
2 seems like, one, identifying those resurvey areas and then at
3 some point the areas where a critical survey area has been
4 mapped and it's time to resurvey, it seems like that should get
5 plugged back into the critical area again. I mean it's all time
6 sensitive. And then -- I mean actually all of these surveys at
7 some point it's a temporal snapshot or a snapshot in time of,
8 you know, what was existing there. But there continues to be,
9 you know, unreported wrecks and obstructions or things that are
10 coming into the waterways that even though a survey was a
11 complete survey at one point there continues to be features that
12 show up that have not been reported. I guess my question is is
13 the resurvey areas, is that getting plugged back into the
14 critical areas at some point in time?

15 COMMANDER BAIRD: No, it's not. We're tracking resurvey
16 areas separately. The resurvey areas pretty much never go away
17 unless we find a reason to remove them from that category. But
18 the critical area, we were told basically to leave that goal
19 line where it is, that is not to move. It's been set at 43,000
20 square nautical miles and that we're going to leave it there
21 until we finish it. So that's why we now track areas that are
22 considered critical now as emerging critical and areas that are
23 resurvey that may have been surveyed 2001, 2005 even, as --
24 that's a separate category, that they require a different type
25 of attention than even crit or emerging crit.

1 MR. RAINEY: Doug, another thought I had, and -- again, I
2 don't know whether it would be either possible or a good idea or
3 not. But one thing, if it -- again, if it's digital and you're
4 not looking to reprint the thing but it might be an interesting
5 graphic along with the number of obstructions that you're
6 finding also to have a graphic that you highlight that says,
7 okay, based on current, you know, funding resources or whatever
8 this is our time till we're going to be able to complete the
9 critical survey backlog. I mean we kind of have this benchmark
10 out there and it might be kind of a thing to note. You know,
11 that way you can kind of see -- you know, you're showing, you
12 know, the accomplishments you're making but also, you know, how
13 much of a task it is and it might be able to reflect the effort
14 that you can put in with the resources you're given might be a
15 nice mark as well.

16 COMMANDER BAIRD: We actually have an in house spreadsheet
17 that we're sort of tracking that as our estimated when we're
18 going to finish the critical area. And I'm hesitant to actually
19 publish something like that because when something like that
20 gets out it tends to be cemented and you can't get away from it
21 again. And so if something happens in the future that we didn't
22 account for we could be criticized for not making the goal that
23 we think, hey, as of 2006 we're going to finish by such and such
24 a year and then we don't or whatever. So I'd be willing to talk
25 to that with people individually but I'm reluctant to advertise

1 it or release that type of thing as a spreadsheet, digital
2 document.

3 MR. RAINEY: Elaine.

4 MS. DICKINSON: Yes, thanks. It seems like the survey
5 areas could be divided into two categories, critical areas and
6 everything else, since it looks like the critical areas are
7 really the only thing that are -- we're likely to get resurveyed
8 anytime soon. I mean we're talking, what, 10 years or more.
9 I'm just -- maybe this is more of a policy question but I'm
10 wondering -- I mean this takes a lot of work, it takes time and
11 resources to do this report. Why are there even categories of
12 priority three, four and five? You know, five is 132,000 miles.
13 I mean it just seems like this is probably never going to get
14 done. So why are there so many categories I guess of priorities
15 that if the critical ones are, you know, barely getting done?

16 COMMANDER BAIRD: We basically tried to identify all the
17 areas that were considered navigationally significant based on
18 depth. And in that boundary to sort of prioritize where we
19 should address first versus can wait. But categories do change.
20 We find out information about a new facility being built, L and
21 G for example outside Boston. What may have been a priority
22 three may become emerging critical based on changing patterns.
23 Or we get news about some tectonic activity off of Kodiak that
24 has changed the shoreline and the depths drastically, that could
25 change the category. So we felt it necessary to label all the

1 navigationally significant areas and then therefore we could
2 sort of visualize where we should be placing our effort.

3 CAPTAIN ARMSTRONG: Maybe I missed it, I don't think so.
4 Following up on Elaine's comment, is there anything in here that
5 says by the way, we're not going to do anything other than the
6 critical areas? Because it can be deceptive to see something
7 that's priority two and they say, oh, well, we're priority two,
8 you know, maybe in a few years they'll get to us? No, never.

9 COMMANDER BAIRD: Depends on who you talk to. There are
10 people that -- might call them pie in the sky types, but they're
11 actually talking about 100 percent requirement. And this 100
12 percent requirement would enable us to survey all of the
13 navigationally significant areas every 50 years. Is it
14 realistic? I don't know. But it.....

15 CAPTAIN ARMSTRONG: Just following up, it seems to me that
16 we need to say someplace. Maybe I wouldn't have said that a few
17 years ago when I was in a different position. But we need to
18 say someplace that we're just not going to do these unless
19 there's priority changes.

20 COMMANDER BAIRD: And also it reflects the request. If --
21 so saying you're -- I mean the category could change based on
22 other criteria.

23 CAPTAIN ARMSTRONG: Well, that's right. But NOAA knows
24 that they need to change the priority and unless they know that
25 it's not going to get done unless it's in critical.

1 COMMANDER BAIRD: Priority one, we actually do priority
2 one and other areas. We did I think approximately 300 square
3 nautical miles last year that are outside critical, emerging
4 priority one and priority two. And that was at the request of
5 other agencies.

6 CAPTAIN ARMSTRONG: Presumably that sort of would have
7 gotten them changed from those lower priorities in the critical.
8 Is that right?

9 COMMANDER BAIRD: No, actually it wouldn't. I don't want
10 to change the priorities or the categories on a whim. It
11 doesn't mean that if we're in an area we won't go out and spend
12 a day or two surveying some other priority because it makes
13 sense. But just changing the categories willy nilly I think is
14 probably bad policy, at least from my perspective.

15 MR. GRAY: You said a few minutes ago that resurvey areas
16 don't go away, sort of.

17 COMMANDER BAIRD: That's my understanding.

18 MR. GRAY: Okay. And I see here on page 47 that -- right
19 where we are here, Cook Inlet, it's 557 square miles which is a
20 fairly big area. And back on page 11 where it has this -- all
21 -- the breakdown of everything, critical, emerging critical,
22 priorities one through five. It doesn't say how many total
23 resurvey areas and if they won't go away they should be added
24 into what still has to be done at least at some frequency I
25 would think.

1 COMMANDER BAIRD: I think the idea of the table on page 11
2 is to show progress towards an end goal. If there's
3 510,000.....

4 MR. GRAY: Right.

5 COMMANDER BAIRD:square nautical miles of
6 navigationally significant and we're working on those and would
7 like to get those numbers down, you know, to zero on the bottom
8 of all those columns. But.....

9 MR. GRAY: Well, I see that and -- and then you have a
10 table on page 13 which shows the critical of 43,000, the ones
11 that are completed, the ones remaining. And all I'm saying is
12 if the resurveys don't go away then they're still remaining.

13 COMMANDER BAIRD: That's correct.

14 MR. GRAY: So how much are they in total?

15 COMMANDER BAIRD: I could go back and total them up. But
16 basically that -- I guess I don't see the reason of counting
17 something that -- of a number that never changes. I mean the
18 whole idea of these tables is to show progress towards a goal of
19 reaching zero for (indiscernible).

20 MR. GRAY: No, all I mean is if you've got to resurvey
21 where you say they don't go away, they stay that way, you've got
22 to resurvey them so it's still to be done.

23 COMMANDER BAIRD: That's correct.

24 MR. GRAY: Well, then still to be done is just the same as
25 being category two or four or anything else. Except it's

1 probably more critical if it's considered a continuous resurvey.
2 And so I'm saying again, how many resurvey square miles do we
3 have? Right out here in Cook Inlet you got 500 and some square
4 miles against a total target of you're doing 1,000 or 1,500
5 square miles a year so it's a pretty significant number on a
6 yearly basis.

7 COMMANDER BAIRD: Actually the resurvey were not designed
8 to be yearly. It was done on a frequency that is reasonable for
9 that area. It could be every two to three years, such as in
10 Knik Arm, or it could be every five to seven years somewhere
11 else.

12 MR. GRAY: Yeah.

13 COMMANDER BAIRD: Such as outside Wilmington, North
14 Carolina.

15 MR. GRAY: I would just say that to me I get the
16 impression that the navigationally critical areas, one, defined
17 some years ago still to be done, they're the highest priority.
18 But your comments on your resurvey sound like they're about the
19 next highest priority. So we ought to know how many there are
20 totally, not just in Cook Inlet.

21 MR. RAINEY: Could I take a stab? I think -- am I correct
22 in saying that a couple areas of complexity what we're looking
23 at, I mean to Bill's comment and Andy Armstrong's comment. The
24 priority areas as I see them are set up primarily as a
25 navigation safety prioritization. You're looking at the

1 expected changes and the bathymetry or hydrography and then the
2 types of -- kind of the Marine Transportation System sort of
3 arguments it seems.

4 COMMANDER BAIRD: Correct.

5 MR. RAINEY: And that seems to be the major theme that
6 establishes the priority areas. Now there's other issues that
7 come up and I think what you're eluding to, let's take for
8 example like the law of the sea surveys or homeland defense
9 surveys. They may have priorities that rise to a certain level
10 and that patch of area may not be, you know, a priority one or
11 critical area navigation safety wise but then that becomes a
12 national priority and so that gets surveyed. And I think on
13 Bill's question, the complexity issue there is part of this is a
14 planning document but part of it's a marketing document in that
15 -- insofar as we want to have -- show progress on the benchmark,
16 that Congress establishes a new line item and it be responsive
17 to that. But am I not right in my understanding that your
18 critical survey areas can also be -- I mean these aren't
19 necessarily distinct categories. In other words you can have a
20 resurvey area -- in other words you can do a critical survey but
21 that would be something that you want to go back, as you said in
22 the 100 percent requirement, maybe look at a, you know, periodic
23 resurvey. So, you know, these aren't necessarily mutually
24 exclusive categories across all cases as I understand and I
25 think that's the difficulty in trying to have a table that

1 exactly accounts, you know, for it all. Am I right in that
2 understanding?

3 COMMANDER BAIRD: Yes, you are correct.

4 MS. DASLER: While we're on the subject of resurveying, I
5 was just looking at 47 and the resurvey area in Cook Inlet and
6 then when you look back at the priority areas it looks like that
7 the resurvey area goes out and into the priority four area. And
8 I don't know if that's the intent or -- I mean just as people
9 looking at this document that could raise questions I guess.

10 COMMANDER BAIRD: I'm sure there's room for amending the
11 areas. A lot of these regions were drawn either at a relatively
12 small scale or on the quick. And so part of the reason is we'd
13 like to get feedback is to -- you know, maybe we should pay
14 attention to page, you know, 47 and basically check the extent
15 of the polygons.

16 MR. RAINEY: Captain McGovern.

17 CAPTAIN MCGOVERN: Andrew McGovern. Possibly, you know --
18 I mean it was mentioned before maybe, like Andy said, we should,
19 you know, put in here, you know, look, your chances of getting a
20 priority five area are slim to none. Maybe that's not a way to
21 say it but maybe -- and again, without lobbying, is there a way
22 we could say that, you know, based on current funding levels
23 this is how many -- you know, this is the -- this is how much we
24 need to do but this is how much we're able to do. And that.....

25 MR. RAINEY: That goes back to my -- yeah.

1 CAPTAIN MCGOVERN: That then maybe you can use as that --
2 you know, then you can use it when you go up to them, somebody
3 says, well look, this is what they fund us now, if you have a
4 problem with that you go to your -- see your -- you know.

5 MR. RAINEY: That was what I was trying to drive at
6 is.....

7 CAPTAIN MCGOVERN: Yeah.

8 MR. RAINEY:just to say, you know, we're doing the
9 best we can but give them -- you know, not to lock yourself in
10 but just to be flat up front along with, you know, we're finding
11 all this stuff, we recognize we have this great -- you know, our
12 national responsibility is this entire -- you know, the whole
13 enchilada but we've got, you know, all of our effort, everything
14 we've got -- putting on this we're just barely going to get, you
15 know, through this in the foreseeable future and -- anyway, that
16 was -- I mean that was the basis for my recommendations.

17 CAPTAIN MCGOVERN: I don't see it as -- you know, it's not
18 lobbying because you're just stating facts. I mean you're
19 saying this is -- these are the facts, this is our priorities
20 but based on present funding levels this is what we're going to
21 be able to do. And then people can then take it from there.
22 But without that this really doesn't help the people that need
23 to figure out, you know, do they need to go -- that guy that's a
24 priority two, you know, he may look at this and say, well, you
25 know, according to these calculations I'll be done in, you know,

1 2040, if I want to get past that I'm going to have to go to my
2 Congressman, you know. And -- you know. And the other thing is
3 when you were talking about the priority areas, and you
4 mentioned based on depth that some of the priority -- you know,
5 the difference between a four and a five may be that it's just
6 naturally deeper than five but it doesn't say that in the
7 description of the different priority areas. You're talking
8 about types of ships, tonnage, traffic, but I didn't see
9 anything in there where it said, you know, area five may just
10 normally be deeper than.....

11 COMMANDER BAIRD: On page number eight on the top half of
12 the page it actually lists the depth limits that we consider
13 navigation (indiscernible).

14 CAPTAIN GOVERN: (Indiscernible) page 10 where it kind of
15 got into the.....

16 COMMANDER BAIRD: Yeah, and then basically areas within
17 those depths on page eight based on age of survey and type of
18 traffic is then how they're further broken down.

19 CAPTAIN MCGOVERN: Yeah, see but this talks about depth
20 limit but this doesn't connect the depth limit with the priority
21 number. So if you go to page 10, right, and you then tell
22 what's a priority one, a priority two, a priority three, it
23 doesn't bring those depths back into that.

24 COMMANDER BAIRD: No, because we basically use the
25 information on page eight and on page 10 to create the polygons

1 that are shown on the graphics in the rest of the document.

2 CAPTAIN MCGOVERN: So it's a combination thereof.

3 COMMANDER BAIRD: Right. So anything that said.....

4 CAPTAIN MCGOVERN: (Indiscernible).

5 COMMANDER BAIRD:the first currently charted at 21
6 fathoms off the Coast of North Carolina is something we will
7 consider navigationally insignificant, that we don't plan to
8 address it unless there is something other than a navigational
9 interest into it.

10 CAPTAIN MCGOVERN: Okay.

11 COMMANDER BAIRD: Of course there is the rub in that, you
12 know, we're using charted data to define where we're going and a
13 lot of times that's -- you don't find out what's there until you
14 go there and survey it.

15 CAPTAIN MCGOVERN: Yep. All right. But I still think you
16 should put in a schedule based on -- either based on current
17 funding levels or whatever that will give people the real idea
18 of when this is actually going to happen. That may be the most
19 politically correct way to do it, I don't -- you know, you're
20 not saying -- you're not promising them that you're going to be
21 done in -- because if the funding level goes down, somebody says
22 how come you're done, say hey, that was based on those funding
23 levels, it didn't get there, you know. I don't know but I think
24 you really have to -- it would be a more useful tool for some
25 people to use that way.

1 CAPTAIN BARNUM: Excuse me. I think that's probably a
2 very good point, Andy, in that it gives folks a reference on
3 when they might see an area surveyed. Right now it really
4 doesn't show the schedule for that, it just shows the what. So
5 that would be I think an important dimension that I think we
6 could add. Especially since it's going to be updated every
7 year.

8 COMMANDER BAIRD: Chris, to paraphrase Dwight Eisenhower,
9 he said that he found plans to be useless but planning to be
10 indispensable. So I mean something I create this summer could
11 be thrown out the window after the next hurricane season.

12 CAPTAIN ARMSTRONG: Yeah, I think what we're looking for
13 is not a schedule but a sort of conceptual understanding of when
14 the agency is going to be able to do this work.

15 MS. DICKINSON: It might also be useful, I don't know if
16 you've done this or if it's possible to put a dollar figure. I
17 mean I know it sounds a little pie in the sky, but has anyone
18 ever calculated say to do the critical areas how much money
19 would it cost? I mean that -- you know, I'm just thinking from
20 maybe a lobbying point of view you could show just the drastic
21 difference in what you're getting and what you need. Have you
22 ever sorted it out by dollars?

23 COMMANDER BAIRD: We actually do keep track of the cost
24 per square nautical mile. There are problems inherent with that
25 type of accounting but it seems to be the most useful at this

1 point. And it's something we probably could float but it's a
2 decision beyond me.

3 MR. GRAY: Elaine, we talked about that in San Diego and
4 saying it's a lot different to do a square mile in the Gulf of
5 Mexico than to do almost anything that you find in Alaska and I
6 mean just common sense will tell you that. But just the same,
7 some order of magnitude figures are inevitably -- I mean if
8 somebody's going to take it seriously that we feel the
9 government should spend more of the taxpayer's money to get some
10 of these jobs done sooner inevitably you're going to say, well,
11 how much do you need to get done in five years. And we heard
12 the other day if it get -- the remaining critical areas done in
13 10 years, no, let's do them in five years. Somebody said that
14 yesterday. And if we want to follow that through to the logical
15 conclusion of the decision maker we got to have some idea of --
16 I mean are we talking tens of millions of dollars or hundreds of
17 millions of dollars or are we getting into billions of dollars,
18 they want to know how much is it going to cost to do this.

19 MS. DICKINSON: Maybe it could be done by cost per square
20 nautical mile per region, like the Gulf of Mexico costs X,
21 Alaska costs this much. I don't know if that's possible.

22 COMMANDER BAIRD: Ac -- excuse me. Actually that's how
23 we've been tracking some of the -- especially the contracts. We
24 know basically sort of based on the prior work as to how much
25 it's been costing per square nautical mile, gives us an idea how

1 much we can accomplish in a year. Because we know how much
2 contracting money's coming down the pipe, so.

3 MR. RAINEY: Let me get John and then back to Andrew.

4 MR. OSWALD: Yeah, John Oswald. Yeah, I find this
5 document extremely useful. Every one of our congressional
6 delegation members has this and expanded maps at their homes. A
7 couple of recommendations I would offer is there's areas on here
8 that have already been surveyed because of the date that you did
9 this but perhaps look at a publication of around the end of the
10 third, beginning of fourth quarter of the year and then at least
11 -- I don't know so much on the east coast, but west coast and
12 Alaska the work is done. So there's blocks that are already
13 actually done, the contractors -- the contractors are demobed or
14 in the process of demobing now so it might be a target date
15 every year. I agree with not -- printing a limited quantity and
16 using the web to distribute this. This document is not that
17 widely distributed in the ocean community. I think you should
18 mandate that every geodetic advisor and navigation -- well, not
19 the geodetic advisor in North Dakota. But the geo -- the
20 coastal geodetic -- CGA's, coastal geodetic advisors, and the
21 nav advisors. I don't know how you'd do that from a management,
22 but -- like at the AOS meetings in this state it comes up every
23 time in the focus groups that almost always the number one thing
24 is bathymetry and number two usually is shoreline. And then
25 they get into the tides and currents and physical chemistry. So

1 that would be a way to get this more widely distributed and NOAA
2 funds -- I don't know in every case but they fund this -- the
3 regional associations. And you have a mechanism with the
4 advisors and the -- geodetic advisors and nav advisors. The --
5 you'll hear about the Drift River but I'll bring that up again
6 because that is in the papers in the winter. Drift River oil
7 terminal which is west of Nikiski and Captain Jeff Pierce
8 mentioned that today so I'm sure they'll have their red coloring
9 pens out when you're in Homer tomorrow. There's ice issues in
10 Cook Inlet, some years heavier than others, that -- in the
11 Rainier -- it's Rainier did some modest surveying there a few --
12 maybe two or three years ago. Possibly on the resurvey areas
13 it'd be helpful for me to explain things to other people. As
14 you know in Cook Inlet, maybe it's not that whole 557 square
15 miles but what the -- is it two year schedule, three year
16 schedule and possibly with some shading techniques, you don't do
17 this in GIS, say when the last survey was done. Which I think
18 is about -- Tara would know. Two years or something?

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

21 UNIDENTIFIED MALE: I believe it was '04, wasn't it, Tom?

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

24 MR. OSWALD: Yeah. A part of that was done, so. And you
25 guys know because you have been doing it. We've been surveying

1 Cook Inlet since 1778, so. Stakeholders, I would like to see
2 you guys put on the internet like other parts of NOAA, I'd like
3 to see the GIS files for these maps put on there, georeference.
4 Because we have done it for all the Alaska maps so I merge it
5 with other data -- if you can believe this, I take these maps,
6 merge it with a nice Alaska map and then I take the NOAA, CO-
7 OPS, NWLONS and tertiary sites and we prepare map products to
8 give back to NOAA for planning purposes and to sell concepts.
9 But if that were done the coastal managers I think would pick up
10 and see where their priorities overlay in this, just a GIS
11 technique. Just post the GIS files just like NGS posts the --
12 what's it called, Mike, the -- shoreline exporter and.....

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

15 MR. OSWALD: Yeah, we've used that extensively too. Now
16 we did it, we actually just did it through the back door, we got
17 the files from the last GIS technician that was there through I
18 guess Captain Parsons is how we did it a few years ago. And
19 then with respect to the ranking, I've never quite understood.
20 You have these critical areas, the resurvey and emerging
21 critical areas and your area around Kodiak is a huge area,
22 3,900, 3,600 square miles emerging. And I've been told by
23 Office of Coast Survey before that that status of emerging and
24 the critical is the same, it's just the critical is that -- you
25 know, the original 43,000 square miles, I know we had that

1 benchmark. So how do you decide within the priority areas what
2 to survey, is it like the -- how thick the pile of letters is or
3 -- for instance, why do you survey, you know, Sand Point,
4 Metraphaney (ph) Island versus the entrance to San Francisco
5 Bay? Metraphaney (ph) Island is sort of a sleeper. I mean it's
6 not surveyed but just a remote area here in Alaska. We were
7 just there. And then why -- like in next year in --
8 specifically in Alaska -- I guess two part question. How do you
9 prioritize within the critical and then why would you have
10 substantial probab -- I don't know, dollar wise, \$5 million of
11 work done on a priority one in southeast Alaska, specifically
12 Chatham Straits area, it's the east side of Sitka, on the other
13 side of that island, when it's -- the majority, 90 percent of
14 it, appears as priority one versus the area at Craig which is
15 critical survey. And we're making statements in this most
16 wanted list about, you know, whether we use the word critical
17 and this mileage and this dollar figure. So we're sort of --
18 and you just mentioned you just survey priority one and two.

19 COMMANDER BAIRD: Prioritization within certain categories
20 is based on where we have field units working currently. I like
21 the keeping the wet edge to the paint. Keep working in an area,
22 it seems to be more efficient that way. And if we can keep the
23 moving hop scotching around to a limited number of projects,
24 that way it seems to enhance the efficiency of the units, that
25 they can continue working in an area they know. And we do take

1 into consideration the number of requests for surveys in an
2 area.

3 MR. RAINEY: Andrew, you had something?

4 CAPTAIN MCGOVERN: Well, just getting back to this. I
5 mean I really think you got to flush this out with some of this
6 -- you know, the cost, you know, whether it's, you know, okay,
7 this is, you know. Again, this is what we can do with what we
8 got and then maybe add to that this is what it -- you know, the
9 approximate cost per square mile after that. I mean Jack said
10 -- the other day he said, you know, we want to grow NOAA. Well,
11 this is the fertilizer, you know, this is what we need in order
12 to grow NOAA. I mean it's got to be -- you know, you're only
13 going to grow -- NOAA's more money and, you know, we need those
14 figures so that we can take them to the Hill and have them and
15 -- to put them in here just gives it a wider distribution which
16 will help, I think.

17 MR. RAINEY: Before -- John had kind of asked the
18 question. The question I had in my mind was I was going to just
19 ask you to briefly describe how you do that and you just did
20 that for John. But on page 12 it just simply states, the annual
21 survey plan is finalized at least six months prior to the
22 beginning of the survey field session. Is that ground truthing
23 out, is that what you're seeing, are you able to accomplish
24 that? I mean it sounds like a tremendous challenge to -- you
25 know, as you just mentioned, the Eisenhower quote there. I mean

1 you have your long term plan but things happen. And I'm just
2 wondering, are you able to -- is that happening, are you getting
3 the ability to marshal your resources in house and contracting
4 and you feel comfortable with that statement standing?

5 COMMANDER BAIRD: For the most part. There's always
6 little hiccups along the way and, you know, speed bumps and
7 tangents and diversions and stuff like that. But for the most
8 part we decide that we're going to work -- we made a list of
9 2007 survey areas. I expect the large majority of those to
10 proceed as we've planned.

11 MS. DICKINSON: Can you say what percentage is being
12 contracted out? Total.

13 COMMANDER BAIRD: By miles or by cost? I think it's split
14 down the middle on money, isn't it Captain?

15 MR. SZABADOS: I think the ratio is about 40 percent in
16 house and the rest contracted but we can get you an exact
17 number. But roughly.....

18 COMMANDER BAIRD: And by miles it's almost half, it's
19 maybe 55 percent in house, 45 percent contracted.

20 MR. RAINEY: Okay, thanks. Doug or Captain, what -- you
21 know, like I said, this was one of the things that was
22 explicitly mentioned and I don't know if there'd be any benefit
23 to you or us to mention we talk about it, you know, in the plan
24 itself. Is there a particular, you know, comment, notion or
25 just, you know, capture it in the record of our deliberations?

1 I mean how can we best package that for you so that we've -- you
2 know, we both work together to meet that, you know, requirement
3 of the committee to review and discuss it with you, what would
4 be the most -- you talked about changing maybe the timeframe of
5 it a little bit, maybe perhaps the format primarily, going to
6 digital so that it can be updated more regularly. Is there a
7 schedule you would want to propose that we get on with you that,
8 you know, we can kind of I guess institutionalize our review
9 with you on that?

10 CAPTAIN BARNUM: I think so, I think we would -- ideally
11 would like to get in a synchronized schedule where the panel can
12 review the priority document on a yearly basis and so that it
13 gets a stamp of approval so to speak and that, again, shows the
14 -- that we're vetting it with the panel and that it is -- can
15 use that as we pass it along. But I think it'd be very valuable
16 to have your input, and certainly we're hearing it here,
17 certainly about the schedule and using it as a potential
18 document for educating folks on the rate of completion versus
19 just the priorities.

20 COMMANDER BAIRD: If I could make a suggestion. If you're
21 going to start putting a timeframe, we rely exclusively on
22 survey outlines from the field units to update the graphics and
23 those are usually turned in anywhere between, you know, during
24 the field season through -- into November, December timeframe.
25 And starting in October, November timeframe through March my

1 entire branch is working on letter instructions and getting the
2 documents ready for the upcoming field season. So if it could
3 be after March, say a late spring, early summer timeframe, to
4 expect the updated that'd be -- work best for my schedule.

5 MR. RAINEY: Okay, I think that's very helpful. Were
6 there any other comments or suggestions, questions, from the
7 members? All right, well, Commander, thanks very much, really
8 appreciate it. Can I toss it to you, Tom, on the -- pick up on
9 the report?

10 (Pause - background conversations)

11 MR. SKINNER: People see that? Is that readable? No,
12 because I think maybe if we can just edit it this way we'll save
13 another round of grass. But what we've done here, I had a
14 couple of minor changes on the actual list here that I wanted to
15 go through and then we had talked earlier about having some sort
16 of intro paragraph. This I don't think would be a final
17 version, it's just sort of if the concept is -- people -- if the
18 concept people agree with then I think we would then turn it
19 over to Ann and say can you work on this. So I wouldn't worry
20 too much about the style or anything like that, just see if it
21 gets the concepts. This part is what we had before except that
22 on number one to try and elevate the issue of ENC's. On the
23 last one I added to reduce ping to chart time and accelerate
24 development of ENC's. I don't know if that's the right
25 language. If anyone has some changes but that's what I come --

1 John, I don't know if you had time to think about that. So any
2 reaction to that change? Elaine.

3 MS. DICKINSON: I don't think anyone outside this room
4 would know what ping to chart means. It's like a foreign
5 language. This is mainly I think intended for an outside
6 audience of, you know, policy makers and people like that.

7 MR. SKINNER: Okay. Just for this group as shorthand
8 maybe, Ann, that's something that you can come up with something
9 a little bit more English like. Going on, any other comments?
10 Once, twice, three. The second one had a couple of changes
11 under the bullet. It used to identify wrecks and other
12 obstacles, it's now identify wrecks and other obstructions that
13 threaten navigation in federal channels, it used to say dredged
14 channels. Is that all right? And then skipping down to number
15 four, there were a couple of suggestions. You can see here that
16 the wording question was the Vdatum, expand and fund real time
17 tide and current observations and either Vdatum modeling or just
18 modeling to commercial ports nationwide as a critical component
19 of the IOOS system. Any thoughts?

20 MR. SZABADOS: Tide was supposed to be replaced with water
21 level.

22 MR. SKINNER: You're right. I'm sorry. I'm sorry, Mike.
23 Real time water level and current observations. Yeah, thank
24 you. Elaine.

25 MS. DICKINSON: This is where you know that I'm an editor.

1 I think this has to be in plain English and is there another
2 word for Vdatum? Because nobody is going to know what that is
3 either. Is there just some other regular word that would imply
4 the same thing?

5 MR. ZILKOSKI: I mean Mike handed out a two page write up
6 that explains it and I think you could just give it to -- and
7 edit it and change what it is and -- I don't know if you really
8 need to even put Vdatum up there so much. It's the modeling
9 part that you're interested in.

10 MR. SKINNER: I think that's the first question is whether
11 we.....

12 MS. DICKINSON: Data modeling.

13 CAPTAIN ARMSTRONG: How about calling it tidal modeling?

14 MR. ZILKOSKI: Well, Vdatum really is the transformation
15 from one datum to -- one vertical datum to another vertical
16 datum. So it's making -- it's the modeling allows you to be
17 able to do that transformation. So I don't know how you want to
18 put that in words that are simplified.

19 UNIDENTIFIED MALE: I think the problem I would have with
20 just saying modeling is it could get -- I mean there could be
21 current modeling, zone modeling, I mean all kinds of things. I
22 mean maybe just putting it as datum modeling.

23 MR. ZILKOSKI: Yeah, you could go datum modeling.

24 UNIDENTIFIED MALE: I would just leave it as modeling, try
25 to keep it simple. And then in the text itself you can expand

1 on that.

2 MR. DASLER: I mean leaving it modeling is -- I think is
3 good because there are current modeling going on and, you know,
4 the other. So, you know, what's wrong with just saying
5 modeling. They say, well, what kind of modeling, well, we got
6 Vdatum modeling, we got -- you know, we got the, you know,
7 current modeling going on, we've got water level modeling going
8 on, we've got all these things going on.

9 MR. GRAY: Are you really just talking about accuracy?
10 Expand and fund real time -- I don't know why we took tide out,
11 we should have tide and current and the accuracy of the
12 observations.

13 UNIDENTIFIED MALE: Tide was just replaced with water
14 level.

15 MR. GRAY: People want -- lay people want to know is it
16 accurate or is it not.

17 MR. DASLER: Right. I mean I think the point -- at least
18 initially in getting in the datum modeling was you get very
19 accurate observations at point measurements. The problem is is
20 when you start getting away from where those observations are
21 made, you know, all bets are off. I mean there -- and that's
22 the point of the -- and I think.....

23 MR. MCBRIDE: Is predictive models the right
24 (indiscernible - away from microphone).

25 MR. DASLER: No, it's the model between -- and what Dave

1 was talking, the ellipsoid and mean lower well water. So if we
2 can get accurate modeling we can do more accurate surveys. I
3 mean eventually you can start putting the GPS on the ships and
4 even navigate them on that surface. I mean I think that's the
5 real point. I mean there -- yeah, there's a lot of other
6 modeling efforts but I don't think that's what we're talking
7 about here, we're talking about datum modeling and trying to get
8 those point measurements spread out over a wide area and improve
9 those accuracies. So I would say datum modeling would be the
10 way to express it.

11 MR. MCBRIDE: I'm not exactly clear what that means
12 either.

13 MR. RAINEY: It seems to me, I mean just my two cents on
14 it would be to leave it simple. I mean remember what we're
15 talking about here is our -- is the basic sort of headlines if
16 you will and this is an organizational structure and then behind
17 all of this we've got a couple of pages of text, graphics and
18 recommendations that will support it. And it strikes me that we
19 could have both. I don't see why it wouldn't be an appropriate
20 modeling. The Vdatum I would characterize as like a tr -- and
21 Dave, help me out, but in my reading on it, I mean it's a
22 transformation or a translation methodology to model -- I mean
23 to basically, you know, level the playing field so to speak
24 across these various datums so everybody can speak to each
25 other. Okay? Whereas we're also interested in, as Adam just

1 mentioned, predictive modeling and all the modeling that you're
2 talking about, hydrographic modeling and other things that allow
3 and enable, you know, the better ports and decision making
4 things. So you've got two types of things going on there. If
5 we left it modeling and then we've got the benefit of spelling
6 that out and probably talking about each in the subsequent
7 supporting text.

8 MR. SKINNER: Okay.

9 CAPTAIN MCGOVERN: (Indiscernible) percent. I mean that's
10 -- we've got these two different types of models and both of
11 them are important. You know, it's no good to know -- you know,
12 if you got a current or a tide gauge here, if you don't have a
13 model to tell you what the -- you know, what the height of the
14 water is over here it -- you know, it's not going to help you if
15 you're not right on top of the tide gauge, just as -- you know,
16 even if you're doing a survey, you don't have the accurate
17 differential, you know, it's not going to help you because you
18 have to put a -- you know. And, Bill, you have to leave it
19 water level because it's more generic and -- because you have
20 these things in lakes -- places where there are not necessarily
21 tides. There could be a storm surge which wouldn't -- you know,
22 so water level is more generic.

23 MR. GRAY: How about tides comma water level, and water
24 level.

25 MS. DICKINSON: Scott.

1 MR. RAINEY: Okay. Can I.....

2 MS. DICKINSON: I think.....

3 MR. GRAY: I think the water level tables would make tide
4 tables.

5 MS. DICKINSON: I think we're way in the weeds here and I
6 think -- I envision this as like a public outreach piece that,
7 you know, should be a very succinct, clear, easy to understand
8 list that -- I mean I could foresee, you know, Xeroxing it and
9 attaching it to a letter and sending it to some staffer
10 somewhere or somewhere on Capitol Hill or giving it to somebody,
11 you know, that could influence budget decisions. They don't
12 need all the jargon, they're not going to understand it and when
13 they see those words their eyes are going to glaze over. So I
14 would just recommend we try to keep this as simple as possible
15 and then explain all the nuances in the text of the work.

16 MR. SKINNER: Can we go with just modeling, is that what I
17 heard? Okay. And we may want to change this around just -- I
18 was just thinking that it may want to be fund real time
19 observations and modeling for water levels and currents. It's a
20 little bit unclear because current could either be tide currents
21 or -- like right now I'd think. So we'll leave that up to Ann.
22 Okay. Good. So anything else on these five or we'll go with
23 these as our priorities? Lou.

24 DR. LAPINE: Just kind of an afterthought. I thought we
25 were.....

1 MR. SKINNER: No afterthoughts allowed.

2 DR. LAPINE: Oh, oh. It's a forethought then.

3 MR. SKINNER: All right, all right, go ahead.

4 DR. LAPINE: Well, I was going to change my nomination for
5 the Vice Chair.....

6 MR. SKINNER: Please, do me the favor.

7 DR. LAPINE: I thought we were going to remove the word
8 hydrographic after contracting. In other words we're going to
9 expand NOAA's in house and contracting survey capabilities.

10 UNIDENTIFIED MALE: Yeah, that (indiscernible).

11 UNIDENTIFIED MALE: Capabilities (indiscernible).

12 UNIDENTIFIED MALE: Yep.

13 MR. SKINNER: Wait a minute.

14 UNIDENTIFIED MALE: First paragraph.

15 MR. SKINNER: Where are we?

16 DR. LAPINE: That's helps -- it's the first bullet.

17 MR. SKINNER: Okay.

18 UNIDENTIFIED MALE: (Indiscernible) first bullet.

19 MR. SKINNER: Oh, right. Missed that one too.

20 DR. LAPINE: That will cover the shoreline as well as the
21 hydrographic.

22 MR. SKINNER: Yep. Sorry about that. Is this something
23 that we need to approve formally or just go for it? Yes,
24 Andrew.

25 CAPTAIN MCGOVERN: I'm just looking at it now but second

1 bullet of number two. I thought it was -- we talked yesterday
2 about this. Did we say multipurpose survey vessels or just
3 multipurpose vessels? Because you're going to use them for
4 fisheries and this and that. I don't know if they're going to
5 be -- I thought they were going to be multipurpose platforms,
6 not necessarily -- you know what I mean?

7 MR. SKINNER: Yeah. I.....

8 CAPTAIN MCGOVERN: Would that be.....

9 CAPTAIN ARMSTRONG: I think it ought to stay survey.

10 CAPTAIN MCGOVERN: Well, I don't know what their plan is.
11 If their plan is to use them for other than surveys we should
12 take the survey off.

13 MR. SKINNER: I think there were fishing survey -- I
14 mean.....

15 CAPTAIN MCGOVERN: Fishing enforcement and things like
16 that that could be.

17 MR. SKINNER: I think they were all research type
18 (indiscernible).

19 UNIDENTIFIED MALE: Yeah, I think it was a variety of
20 kinds of surveys.

21 CAPTAIN MCGOVERN: Steve, could you answer that question?
22 Captain Barnum. Oh, sorry.

23 UNIDENTIFIED MALE: Steve.

24 CAPTAIN MCGOVERN: Steve, we have a question for you.

25 MR. SKINNER: The question was on the bullet here, replace

1 aging single purpose hydrographic survey fleet with multipurpose
2 survey vessels. Do we -- should we specify that they're
3 multipurpose survey vessels or just multipurpose vessels?
4 Now.....

5 CAPTAIN BARNUM: I think (indiscernible).

6 MR. SKINNER: Okay. So that what NMFS does is also
7 surveying with these -- with their vessels and you just want one
8 platform for all of NOAA's surveying activities.

9 CAPTAIN BARNUM: The discussion we've had about this issue
10 is that there's many different views of it but my view is that
11 the NOAA fleet would be composed of survey vessels that could do
12 other missions while they're on the site. I think you heard you
13 heard it from the panel today, being able to drop a camera, it's
14 not something we normally do now, but have that kind of
15 capability to collect other data that's useful to our users.
16 Same could be said by the fisheries vessels, that when they're
17 steaming 2,000 miles to do a survey or wherever that they're
18 able to collect data that would be useful to hydrographic
19 community.

20 MR. SKINNER: Great, thank you.

21 MR. DASLER: Tom.....

22 MR. SKINNER: I was just kidding when I said no last
23 minute thoughts. I think this is the time to sort of look
24 through it, so.

25 MR. DASLER: Could I add one?

1 MR. SKINNER: I'm sorry.

2 MR. DASLER: I was going to add one thing. Mr. Baird here
3 suggested this. I know you had aging in there but I don't know
4 if the word modern, I don't -- hesitant to use new, but modern
5 multipurpose survey vessels. And maybe it's just implied by
6 replace aging that you're getting modern.

7 CAPTAIN MCGOVERN: (Indiscernible - away from microphone)
8 one of the Navy's aging vessels.

9 UNIDENTIFIED MALE: Yeah. That's very possible.

10 MR. SKINNER: If it's possible -- so general consensus no
11 problem with modern?

12 UNIDENTIFIED MALE: Sounds good.

13 MR. SKINNER: All right.

14 MR. DASLER: And, Tom, one last -- I guess to get rid of
15 the ping to chart we could just say reduce chart production time
16 and then we can talk about that. If that makes.....

17 UNIDENTIFIED MALE: Yeah.

18 MR. SKINNER: Okay. Oops, what did I just do. Anything
19 else? Is this something we need -- or we should take a vote on?
20 Just to finalize it or.....

21 MR. RAINEY: I don't see any harm in that. I've put in
22 backstops and check valves all over. Can I have a motion?

23 MR. GRAY: So moved.

24 MR. RAINEY: Okay, Bill Gray. Second. Jon Dasler. Okay,
25 all in favor.

1 SIMULTANEOUS: Aye.

2 MR. RAINEY: Opposed. Okay, we have -- yeah.

3 MR. SKINNER: There are a couple things that we'd like to
4 do from here on. I did mention this intro paragraph, I don't
5 know if you want to go through that right now. The other
6 activity is to go through the other four groups that met this
7 morning. And what Scott did with John's group is he wrote down
8 the themes that John and his group had developed on another
9 document and then listed some examples with the idea being that
10 by the end of today we would have an outline of not only these
11 five things and the bullets that you see here but then the
12 themes and potential examples that each group has developed and
13 really have a pretty good outline of what the document -- what
14 the final document would look like. So I don't know if it makes
15 more sense to spend more time on that or if you want to go
16 through this just quickly and see if this captures. People are
17 looking at. Why don't we just -- we can -- if this is
18 controversial we can just delete it and make it -- put it to a
19 different time. But I just put down there the HSRP has
20 developed a list of the five most wanted priorities to help
21 guide NOAA and Congress on the nation's most pressing
22 hydrographic needs largely unnoticed by policy makers and the
23 general public unless something goes wrong. Accurate
24 hydrographic services are critical to the safe transportation of
25 -- or safe passage it probably should say of commercial vessels

1 that carry 95 percent of U.S. foreign trade, fishing vessels,
2 the nation's 78 million recreational boaters, researchers,
3 emergency response professionals and coastal managers. The HSRP
4 believes that an improved understanding of the importance of
5 accurate surveys, charts and real time data is critical to the
6 success of NOAA's hydrographic mission. That, again, is trying
7 to get the -- to the -- to Andy's point that getting people to
8 realize that this is an issue is critical to getting any of this
9 sort of moving forward.

10 CAPTAIN MYRTIDIS: Tom.

11 MR. SKINNER: Yeah.

12 CAPTAIN MYRTIDIS: Not because I feel neglected or
13 something, but I think you should mention the millions of
14 passengers. You know, we're talking safety of life at sea and
15 safety of navigation. So I think it's important to mention
16 that.

17 CAPTAIN ARMSTRONG: You must be around 10 million
18 passengers a year, somewhere around there? I don't know the
19 exact number, but it's millions, yeah.

20 CAPTAIN MYRTIDIS: I could find a good number, I don't
21 have it right now, but.....

22 MR. SKINNER: This is a huge list -- let's see.

23 MR. RAINEY: Yeah, cruise ship and ferries too.

24 CAPTAIN MCGOVERN: Yeah, I -- Andrew McGovern. I was
25 going to mention you've got, you know, important to like --

1 you've got everyone, then you've got coastal managers. Well,
2 it's actually all this information is important to everyone who
3 lives on the coast, not just the coastal managers but, you know,
4 the entire -- I don't know exactly how you define that. But I
5 like -- and I'd hate to lose this but there are some really -- a
6 couple really good paragraphs in the old document on outreach
7 and education that talks about, you know, that -- you know, the
8 MTS affects everybody everyday, only people who may never see a
9 coast community or busy port realize how important the MTS is to
10 their daily lives will the outreach be sufficient. I think --
11 and it doesn't necessarily have to be in this opening paragraph
12 but I think these couple of paragraphs in here really have to
13 get into this document. And we do not have a bullet on it so I
14 -- I mean -- I mean to say a bullet, but there's -- you know,
15 somewhere in the intro or in a conclusion that we really got to
16 hammer the outreach part of it. So.....

17 MR. RAINEY: Andrew, I think that would be exactly right
18 and what I maybe envision this is a single page so we've got the
19 intro page, this could be something that would -- will be, you
20 know, pulled out, faxed around or whatever, the one thing, but
21 there'll be -- I think there'll be space in the layout where we
22 can have -- again, pull -- not lose that in a -- either in a --
23 you know, a letter or introductory section and things. But
24 maybe what Tom's got prepared there would always sort of be a --
25 you know, in the one pager that has the five major elements.

1 But your point is well taken and certainly something we need to
2 talk more about.

3 MR. SKINNER: Put in a placeholder in case we -- yeah, you
4 want to work that in. And again, this is just to sort of say
5 this is how -- something like this would be have a -- or what I
6 would suggest that this would be framed as and we'll let Ann
7 work her magic on it.

8 MS. BOESE: One thing that is -- I think needs maybe to be
9 solidified is to -- and I'm hearing this in listening to what
10 Elaine's saying and what some other people are saying is that it
11 really is important to identify the reader or the audience. And
12 if something like Vdatum is going to be a potential stumbling
13 block, which it very well could be an alienating point in a --
14 in the beginning of something, it doesn't -- of course has its
15 place later on in the material. But I'm almost hearing that we
16 have to come back a little bit more and really say what are
17 hydrographic products and services and why should you care. I'm
18 thinking that we have to decide that -- is it going to be
19 something that's going to make sense to the average Joe then
20 maybe it has to take one step back. Which isn't going to be
21 hard, it doesn't mean that all the other information can't be
22 there, it's just that it needs to be kind of -- it needs to be
23 explained a little bit more throughout. Not simplified, but
24 explained.

25 MR. RAINEY: But I.....

1 UNIDENTIFIED MALE: That's a good point.

2 MR. RAINEY: My thinking would be that that would all --
3 this is going to be sort of ensconced in the whole special
4 report and that -- just what you're saying would be in a -- you
5 know, in the introduction.....

6 MS. BOESE: Right, right.

7 MR. RAINEY:and then weaved throughout the
8 supporting sections and that this -- for this particular one --
9 kind of one pager that we're highlighting it then -- you know,
10 that -- you know, you want to keep it, you know, kind of
11 (indiscernible).

12 MS. BOESE: No, I think succinct but I'm thinking of
13 looking at this introduction, I'm listening to what everybody's
14 saying and I'm thinking that there is a place. And it was
15 really in the original way that we had laid it out. I had -- my
16 feeling was to put the vital statistics about the Marine
17 Transportation System up near the front too because as a person
18 who maybe doesn't even know what the heck the Marine
19 Transportation System is, what is it, how does it affect me, how
20 does it affect my fellow Americans, why should I care. And that
21 basically is how we laid it out to work, the function -- you
22 know, how a person would take the information in and what --
23 hopefully how they'd be able to process it. So it's just --
24 it's nothing that has to be word smithed right now but I guess I
25 want to get a feel. Do you think that is a good way for me to

1 go in the editing? I do.

2 UNIDENTIFIED MALE: I do.

3 UNIDENTIFIED MALE: Yeah.

4 MS. BOESE: Okay.

5 UNIDENTIFIED MALE: Yeah.

6 MS. BOESE: Because I want to be able to hand it to my
7 next door neighbor who's a fairly intelligent person and
8 probably could be on the Hill at some point and say can -- what
9 -- can you read this, what does it say, what does it mean. Is
10 that what we want to be able to do? Okay.

11 MR. RAINEY: I think absolutely. The only thing I'm not
12 quite getting is I don't think anything Tom has written is
13 inconsistent with that ultimate goal.....

14 MS. BOESE: No.

15 MR. RAINEY:because I think we have -- we'll frame
16 it in all of that and I think, you know.....

17 MS. BOESE: But it's how you want to fold it and
18 that's.....

19 MR. RAINEY: Yeah, okay.

20 MS. BOESE:not something for introduction.

21 MR. RAINEY: Right.

22 MS. BOESE:but how it unfolds. The idea, and
23 Elaine's point is well taken, if you start hitting people with a
24 lot of words of things that they don't necessarily know, they're
25 foreign, you'll lose them. If they're -- if they are unfold --

1 if they unfold later in the text they'll be interested by that
2 point. And it's the process and that really comes when we get
3 all these pieces in and then we smooth it out so that it works
4 for the mind who doesn't know all this already. And that's -- I
5 think that we agree on that, so. I just want to make sure I was
6 understanding.

7 MR. SKINNER: Okay. Good, I think that's great. Can we
8 go back to the groups if we're all set here? I can cancel this
9 out and -- I think it's.....

10 MR. RAINEY: That's it.

11 MR. SKINNER: Yes. So this is group one. And, John, this
12 is what Scott had recorded for your major themes and then a
13 couple of examples. So this is sort of what the final project
14 -- product would look like by the end of today is the priority
15 area, a couple of the bullets, the themes and then examples. So
16 I guess want to make sure before we go on with this that
17 everyone thinks that that's a -- that's the product that we want
18 by the end of today.

19 MR. RAINEY: The thought is exactly what Tom articulated.
20 My thinking would be that if we could do this, if we could
21 run through -- Ann has all the raw data, everybody, you know,
22 passed her, you know, please give if you haven't, you know, the
23 information that we did, kind of mapping things back and all of
24 that. But if we had this, sort of the capstone, and everybody
25 could leave the meeting, you know, with a copy of this, this

1 kind of gives us our skeletal outline and then we can leave with
2 some ideas. If you've got some graphics on a certain section,
3 I've heard people have, you know, some promises of some good
4 photographs or whatever. It might -- you know, we all leave,
5 you know, literally on the same page of what -- you know, how
6 this thing flushes out a little bit. And then when we pull it
7 together and get it back out to everybody, you know, then we can
8 do another review. So that just was the idea, try to capture
9 this as much as we can and be in agreement as we all leave the
10 meeting with the short time we have physically together.

11 MR. SKINNER: I guess just logistically if we can spend,
12 excuse me, about -- maybe until around 3:30 on developing that,
13 print out some versions -- print out a copy so that everyone can
14 actually then go through the whole thing and say okay, what are
15 we missing here or does this -- does everything fit together and
16 wrap it up by 4:00. I think that would be a pretty successful
17 day.

18 MS. DICKINSON: On the -- on section one there was a
19 really interesting statistic I've heard at previous meetings
20 that might be worth putting in there. Something about a certain
21 percentage of soundings on current charts were generated before
22 the 1940's. And if anyone has that statistic we might want to
23 put it in.

24 MR. RAINEY: It was actually in -- we could probably cite
25 this maybe as the most recent document (indiscernible).

1 MS. DICKINSON: Oh, okay.

2 (Whispered conversation)

3 MR. SKINNER: Okay. Whisper, whisper, whisper.

4 CAPTAIN MCGOVERN: Scott, just on this one. The example,
5 the Coast Guard reg on carriage of ECS is not due out till
6 January '07. Maybe we should change that to the bill, the
7 Congressional mandate. Because there is no right, they're not
8 required to even have a right promulgated till.....

9 MR. RAINEY: Right. That's no problem, we can get
10 the.....

11 CAPTAIN MCGOVERN: Okay.

12 MR. RAINEY:you know, proper citations and things.
13 That's just quick shorthand.

14 CAPTAIN MCGOVERN: Yep.

15 MR. RAINEY: The idea there is that there's what I would
16 call a hard requirement.....

17 CAPTAIN MCGOVERN: Yep, there definitely is.

18 MR. RAINEY:and we need to make that point I think,
19 that, you know, this isn't just a nice to do thing, there's a
20 responsibility to try to deliver on.

21 CAPTAIN MCGOVERN: Just so whoever's looking at it.....

22 MR. GRAY: If you're getting into....

23 CAPTAIN MCGOVERN:(indiscernible) looking for the
24 Coast Guard reg they're.....

25 MR. GRAY: I'm sorry to be (indiscernible), but, you know,

1 if you're getting into these details about the ENC's or anything
2 like that, just remember the IMO is working on ECDIS and that's
3 where the requirements are eventually going to come from in
4 another year or two. And whatever NOAA or anybody else has done
5 on ENC's up to that point is going to be obsolete by what IMO
6 puts out on ECDIS. So.....

7 UNIDENTIFIED MALE: Well, really though.....

8 MR. GRAY:that's the way I hear it.

9 UNIDENTIFIED MALE: It will.....

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

12 MR. RAINEY: Yeah.

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

15 MR. RAINEY: Yeah, they've got all the technical
16 requirements on carriage so now it's up to the nation's states
17 to implement -- you know, it will -- I think we'll be proper if
18 we cite the -- you know, the federal law for our purposes. But
19 what you say though is exactly right, I mean IMO is genesis of a
20 lot of this but there's a lot of coordination with the Coast
21 Guard and all the -- to make that happen.

22 MR. SKINNER: Any other thoughts on group one? Okay.
23 Moving onto group two. We've got about an hour. The break I
24 think will -- it was scheduled for 3:00 o'clock, I think if
25 people are all right, are okay, I don't know if you need a

1 break, sort of working through. Just help yourself to coffee
2 and whatever is brought in, I think we'll get through it a lot
3 faster.

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

6 MR. SKINNER: Hey. Anyone who doesn't like that has
7 detention.

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

10 MR. SKINNER: Bill, do you want to go through what your
11 group came up with?

12 MR. GRAY: Yes.

13 MR. SKINNER: Thank you.

14 MR. GRAY: My group was me and Andy I guess, maybe one or
15 two others. And all we -- the theme is let's get rid of
16 obstructions that cause damaging groundings. The incidents that
17 we came up with, there is a thing called the 1992 Hen report.
18 Gene (ph) Hen was a Coast Guard admiral that did the
19 investigation of the grounding of a ship called BT Nautilus and
20 it was out of the Kilvin, called the Arthur Kilvin, the port of
21 New York, New Jersey I think in 1992. And in his report to the
22 commandant on it there was some pretty pointed words about how
23 bad the hydrography was in those areas and the fact that
24 obstructions were known to exist in government maintained
25 channels as well as along private berths and so forth. I've got

1 that report, the Hen report, somewhere and I'm going to send to
2 Ann and to Scott the INTERTANKO Port and Terminal Safety Study
3 in which we used that as one of the prime examples why the
4 hydrography had to be better.

5 The next one that -- it's already been mentioned, is the
6 QE-2, that was the grounding that took place in Vineyard Sound.
7 We -- one of the things, excuse me, about it that I don't think
8 we have to mention was that accident was not entirely caused by
9 a chart that was bad, it was caused by the fact that the pilot
10 and the navigating crew of the QE-2 despite being on board for
11 about 24 hours didn't even talk to each other until they almost
12 hit the thing and then they had an argument and they hit it.

13 MR. RAINEY: Can I just ask a -- I'm sorry, one -- are we
14 capturing this?

15 UNIDENTIFIED SPEAKER: (Indiscernible - away from
16 microphone).

17 MR. RAINEY: Yeah, we need to get this because at the end
18 of the day we want to have this. I mean so I can come and type
19 it or -- I mean.....

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

22 UNIDENTIFIED MALE: The QE-2.....

23 UNIDENTIFIED MALE: Bill.....

24 MR. RAINEY: I mean we need to have the.....

25 UNIDENTIFIED MALE: Shouldn't be in this one.

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

3 MR. RAINEY: Yeah.

4 UNIDENTIFIED MALE: Yeah.

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

7 UNIDENTIFIED MALE: Yeah. No, this QE-2 shouldn't be in
8 this one.

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

11 MR. RAINEY: All right.

12 MR. GRAY: All right.

13 UNIDENTIFIED MALE: Okay.

14 MR. GRAY: I don't care where it gets used, I'm just
15 getting incidents and it's -- the whole point is that all of
16 these things are doing to prevent accidents that cause
17 groundings that could cause pollution or damage or whatever.

18 MR. SKINNER: Bill, just if I can interrupt just for a
19 second. What we're trying to do, and I know every group didn't
20 do it in the same format because we didn't specify when we
21 started. But for the purposes of trying to get a completed
22 outline I think if each person reporting can identify the major
23 themes first and then go to the examples it'll be easier to have
24 a -- sort of a consistent approach for each group. And if
25 that's not something that the other groups did it may be

1 worthwhile to sort of spend a few minutes before we start
2 recording thinking about what the themes are. So I can -- I
3 don't know if there's a -- Bill, if you want to spend a little
4 bit more time or if you're ready to go with the themes.

5 MR. GRAY: Well, I already said what it was. Which is to
6 find obstructions and whatever, impediments to safe navigation
7 that vessels otherwise might encounter.

8 MR. SKINNER: Okay.

9 MR. GRAY: And that's why we want to do this. And then we
10 have incidents where obstructions have been found, some of them
11 have been in federally maintained channels, some of them are
12 not. And I've listed about 10 different ones that have occurred
13 in the last 10 or 12 years, three or four of these had to do
14 with boulders that have been found in the Long Island Sound,
15 Block Island Sound area, in Portland, Maine. We heard that from
16 Captain Jeff Pierce earlier this morning, he said the same thing
17 happens out here in Cook Inlet. Andrew told me that he heard
18 from Sam DeBow I guess that about 10 years ago or maybe five
19 years ago the -- NOAA was asked by the Department of Defense to
20 do full bottom surveys in some of the more important federally
21 maintained channels in the United States to find objects that
22 might be terrorist inspired or otherwise dangerous to navigation
23 and they found some examples of obstructions in those channels
24 that they would not otherwise have found. Sam DeBow is the guy
25 that Ann and Scott can talk to on that. We heard Doug tell us,

1 again we've talked several times about it, that since the full
2 bottom coverage and the multibeam have been available wrecks
3 have been discovered at the rate of something like one or one
4 and a half a day and other obstructions have been uncovered. I
5 think that just by talking with those people, Dave MacFarland,
6 maybe Roger or whatever, right within NOAA we can get a good
7 catalog of what are the -- some of the more interesting
8 incidents were. The most important example of course is the
9 Athos I, which I've talked about since this happened because
10 it's right there in a federally maintained channel by the Army
11 Engineers, channel and anchorage, and they found these two large
12 objects that caused a spill that's cost \$240 or \$250 million so
13 far.

14 The one other instance of things that show up that can
15 cause groundings that I'm aware of, and I mentioned it and what
16 I'll hand over to Ann and Scott is in the lower Mississippi. I
17 know in my Exxon years we had a very high percentage of our
18 groundings in the lower Mississippi each and every year but
19 almost never with any damage. The lower Mississippi is a very
20 interesting and kind of unique place I would probably say down
21 by southwest pass because they dredge 24 hours a day, 365 days a
22 year and they run new survey lines each day I think down there
23 at southwest pass. They've got in the area that deep sea ships
24 can go up to Baton Rouge about 260 miles up the river, they have
25 I think some 11 or 12 crossings that they also run surveys on

1 every day or so and like that. I put reference to the lower
2 Mississippi here and so forth but I don't really think that's
3 something I would suggest that NOAA tried to take over what Army
4 Engineers are doing down there. It's a situation that changes
5 every day and the way the engineers do it and run those survey
6 lines which are immediately made available to mariners and
7 pilots, I think that's probably the right way to do it.

8 The other thing I put on the bottom of my paper goes back
9 to something and Ann said a moment ago that she feels that the
10 whole subject should be introduced by explaining what is the
11 Marine Transportation System and why is it that people should be
12 interested in it. And that was covered in the draft that we got
13 on page four and on page 21 and I disagree with most of the
14 numbers there. I think the amounts of cargo moved, the volumes
15 and so forth, they don't coincide between page four and page 21
16 and I think all of them are low which makes me suspect they're
17 from old sources of information. So I think that stuff should
18 very definitely be checked. And I have mentioned two websites
19 on here that I think should be -- everybody should go and look
20 at them and I want -- I mentioned one before,
21 www.shippingfacts.com. And that website is maintained by I
22 think all the roundtable in Europe which is the International
23 Chamber of Shipping, the INTERTANKO, Intercargo (ph) and BIMCO
24 (ph) and between those four ship owner associations it covers
25 pretty much the world of bulk shipping. And they have all kinds

1 of very good data on not only what the volume and value of cargo
2 movements are but also on what the cost economies are that have
3 been achieved. In other words I mean how much it takes to ship
4 a pair of shoes from Asia to Chicago or a bottle of whiskey or a
5 car or whatever it may be, it's a very good source of
6 information. So www.shippingfacts.com, I think you should use
7 it.

8 The other one that I would refer to is the world -- it's
9 www.worldshippingcouncil.com. That's an outfit run by Chris
10 Koch in Washington, D.C. who is the spokesman really for pretty
11 much the entire world container ship industry and he does a very
12 good job of looking out for the container ship people. As a
13 matter of fact he's kind of the guy that went up to the Congress
14 when the due by ports fiasco was underway and all these crazy
15 bills were coming out from people like Mrs. Clinton and Schumer
16 and so forth saying that all containers have to be expected by
17 Americans before they can be put on board a U.S. ship and that
18 would certainly stop all container traffic absolutely dead in
19 its tracks. But anyway, his website has excellent information
20 on cargo flows, costs, all the rest of that for the container
21 ship side of the industry.

22 And one other thing. Ann, you had asked when I send off
23 the Port and Terminal Safety Study which has the reference to
24 the Hen report which was all about bum hydrography and objects
25 in channels, I'll send some other things that I think may be

1 relevant as sources of information on these subjects. You've
2 got there, Scott, that MTS report that we did in 2004, number
3 279, and I thought it was kind of a crummy report and that's why
4 I put a minority report in the thing and that makes some of
5 these same points. And also the point that what our country has
6 done is disgraceful in the way it criminalizes the acts of
7 seafarers and that type of thing. I know that's not a NOAA
8 issue but that's an issue that everybody ought to be aware of,
9 that we've got people in this country treating seafarers in a
10 despicable way. Anyway, I'll give you a reference to that as
11 well.

12 MR. RAINEY: Thanks, Bill. Virginia, on -- let's start
13 another section on kind of global comments. Because I mean
14 we're going to keep going through on the specific things but
15 Bill made some really great points, I think the last three
16 bullets, if we can put them in a -- sort of an overall or global
17 comment category that we can use and put them in the appropriate
18 sections there and then that'll help us maybe at the end of the
19 document because there'll be some -- and then that way.....

20 MR. GRAY: It's world shipping -- oh, yeah, okay, world
21 ship -- that's right. Okay.

22 MR. RAINEY: And Steve had a comment.

23 CAPTAIN BARNUM: Yeah, I was going to -- a couple
24 comments. Certainly for the obstruct -- the homeland security
25 surveys that were done for the baseline imagery for the

1 potential mine hunters, I can address that. I conducted 18 of
2 those all the way from Norfolk to Brownsville to Tampa to --
3 even to the Virgin Islands. So I can be a source of information
4 for that, some of the objects that were found. And another
5 example that might be relevant is the Rebel which hit the
6 submerged rig and sank, it created an oil spill down in the Gulf
7 just this past winter after the storm, so might be another
8 recent example.

9 MR. DASLER: I don't know if it's appropriate in here at
10 all to get into. I know the Corps has been -- and DOD has been
11 pushing now this munitions at sea and UXO and the large hazards.
12 I know we had -- some staff was working on a dredge just off of
13 Virginia Beach that the dredge hit ordinance and blew up a
14 dredge pipe. But when -- just earlier, I think it was in a
15 couple of -- some of that information was passed around and -- I
16 mean, Steve, maybe you can -- I don't know if there's a place to
17 fit that in or not or what that -- it's a little bit out of the
18 realm but I know it's a concern that's being raised now.

19 CAPTAIN BARNUM: I know ordinance is certainly a concern.
20 I know Hawaii there was an area that they were doing some
21 surveys, trying to figure out where it is, there's -- off of
22 Puerto Rico areas that -- where they're trying to identify
23 coordinates. These are areas that are also in habitat areas,
24 not critical navigation but certainly approaches to Chesapeake
25 Bay is, so.

1 MR. RAINEY: So, Virginia, the last two as you're -- was
2 the Rebel struck a submerged.....

3 MS. DENTLER: (Indiscernible - away from microphone).

4 MR. RAINEY:rig. These would be under examples.
5 And then let's say -- and then --it's just Rebel, right, R-E-B-
6 E-L. Yeah.

7 CAPTAIN BARNUM: I be -- yeah, R-E-B-E-L.

8 MR. RAINEY: Okay. We think it's R-E-B-E-L.

9 CAPTAIN BARNUM: It was a integrated tug barge unit.

10 MR. RAINEY: And then the last thing maybe to add would be
11 the issue of ordinance.

12 CAPTAIN ARMSTRONG: If -- I guess I would encourage us to
13 keep this particular item strictly to federally maintained
14 channels. I think that's where we started out on this. Rather
15 than just things all over the place.

16 MR. RAINEY: You're right. Yeah, so we can cut and paste
17 those in the other.

18 MS. DICKINSON: As I recall there was a more recent
19 incident where a -- I think it was a pipe or a pier was found
20 when they did a multibeam scan right in the middle of Baltimore
21 Harbor.

22 CAPTAIN BARNUM: That was post Isabelle surveys when we
23 were doing the response surveys of the condition, make sure
24 there's no objects that was discovered. And it turned out it
25 had been there for quite some time. Scott also mentioned in

1 Lake Union where they found a pile that was a danger to
2 navigation that also went undetected.

3 UNIDENTIFIED MALE: So there's a lot of them.

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

6 MR. RAINEY: Yeah, we could put -- yeah.

7 DR. LAPINE: You know, does anybody know what the
8 magnitude of this undertaking is? I would think it eclipses the
9 critical area survey and I think it should be noted in the
10 beginning here, you know -- and what's the impact when the U.S.
11 Army Corps of Engineers reads this, isn't this their job? And
12 now what we're saying is we're going to take over maybe a
13 billion dollar program from another agency.

14 MR. RAINEY: Well, you're exactly correct in that --
15 except that I think that somebody, and this has been the thing
16 for me for years before I was on this panel, but somebody has to
17 stand up and say this is a major -- we all say we're about
18 safety but -- and we are, but somebody's got to point this out
19 and somebody has got to start to figure out how do we resolve
20 the fact that this is going on. I mean we've -- we just can't
21 have the Athos I just keep happening. We've got to find a way
22 to deal with it. So I don't think we're necessarily saying
23 we're going to -- I don't think we're -- I mean we're pushing it
24 by mentioning it I guess but I mean somebody's got to make this
25 statement and then.....

1 DR. LAPINE: I would suggest that we -- somebody check
2 with the Army Corps of Engineers and see if they don't have some
3 cost benefit studies that they've done. You know, sure, half a
4 dozen incidences have been labeled here for 500,000 transits of
5 those channels. You know, you're going to start up a billion
6 dollar program.....

7 MR. RAINEY: Well, I think that.....

8 DR. LAPINE:to find -- to prevent three pilings from
9 being struck.

10 MR. RAINEY: I don't think it's irresponsible for us to
11 suggest that this is an issue because we can cite things, the
12 Athos happened, the -- you know, John did a lot of work on the
13 High King, the -- you know, the Corps surveyed that multiple
14 times and then the vessel finally found it, they just went right
15 by it. I mean I think it's an issue and I think it's one that's
16 within our -- I don't know, I'd like us to -- you know, to
17 mention it and then how it sorts its way out. The issues you're
18 talking about would be what would be then the -- you know, the
19 subsequent debate at the CMTS level and, you know, among the
20 different agencies and the legislative authorities. But I think
21 we're completely right to at least point this out, that this is
22 something that needs to be looked at given, you know, recent
23 incidents. Andrew.

24 CAPTAIN MCGOVERN: I agree and I guess the real success of
25 this is, you know, just because there hasn't been an accident

1 doesn't mean it's safe. And if you hear the stories of what --
2 that Steve could relate which hopefully will come out in this,
3 what they found during these homeland security surveys, it was
4 absolutely amazing. And it was just -- it's just plain luck
5 that we haven't had more of these, right, Steve?

6 CAPTAIN BARNUM: More surveys or more (indiscernible)?

7 CAPTAIN MCGOVERN: No, the -- yeah. But -- and, you know,
8 the other thing maybe that's missing in this, Bill, is -- an
9 example would be the fact that under OPA '90 the masters are now
10 required to know their under keel clearance at all times.

11 MR. GRAY: That's true.

12 CAPTAIN MCGOVERN: And obviously they don't, you know. So
13 you've got this requirement in there but you're not giving them
14 the tools to fulfill that requirement. And it's just -- I just
15 think that this is something that -- you know, it does have to
16 happen. I mean.....

17 MR. GRAY: If you -- Andy, if you go back and you read the
18 Hen report in 1992 it made the point that in federally
19 maintained channels and in the areas between federally
20 maintained channels and private berths there were lots of pieces
21 of different information and most of them were inaccurate.

22 CAPTAIN MCGOVERN: I mean (indiscernible), yeah.

23 MR. GRAY: And for the -- and back to what Lou's point is,
24 what's the Army engineers going to think? What they ought to
25 think is that they -- either learn how to do the job right and

1 keep doing it and find objects by making surveys periodically or
2 let somebody who knows how to do it do the job.

3 CAPTAIN MCGOVERN: Well, I was just going to say that. I
4 mean the other option to this is that instead of NOAA doing
5 these multibeam surveys is that the Corps does it because they
6 don't do multibeam surveys, they'll tell you that. We don't do
7 that, we do single beam, we do them 50 yards apart. You know,
8 and they used to do wire drags at least in the Port of New York
9 and they stopped doing those until.....

10 UNIDENTIFIED MALE: The Corps of Engineers.....

11 CAPTAIN MCGOVERN:a (indiscernible) ship had the
12 bottom thrown out of it after a dredging project and, you know,
13 found out that there was a boulder they missed.

14 MR. WHITING: Andy. The Corps of Engineers does multibeam
15 surveys when they deem it necessary. It's getting that
16 education into the Corps of Engineers to deem it necessary a
17 little more often and that's what we have.

18 MR. DASLER: And I think one of the bigger problems, not
19 all Districts are created equal. Some are really on the cutting
20 edge and are doing it, some are still back in the single beam
21 era. And I think the -- to address Lou's concern, I mean this
22 -- NOAA charts these areas, it's still NOAA's responsibility
23 when something grounds, I mean they're the ones that are called
24 to the table. And -- so I don't think we're stepping out of
25 bounds that we're getting into federal channels, I think we're

1 just highlighting some concerns and some incidents that have
2 happened and it needs to be addressed somehow. Either the Corps
3 needs to get in there and start doing obstruction surveys or
4 somebody needs to pick up that gap.

5 MR. SKINNER: Can I jump in just for a second?

6 DR. LAPINE: I'll rest my case, but I think we ought to at
7 least show what the magnitude of this project is, somewhere in
8 the -- in a bullet or something that the reader understands that
9 this is a major undertaking. And a major cost.

10 MS. DASLER: Wouldn't -- I mean some of it is happening,
11 it's just not happening all over. I don't think it's that
12 major. The Corps does surveys and some of them -- some of the
13 areas now they're still doing single beam. It's just upgrading
14 some of that technology, getting some of that information put
15 in, if they're going to take that on. If they're not and the
16 Districts don't want to take that on then at least they should
17 say, hey, NOAA, you need to -- I mean we're not -- we're just
18 looking at dredging, we're just doing single beam, somebody
19 needs to come in here and address this issue.

20 MR. SKINNER: I think we need to somehow come to some
21 conclusion that either we can wrap this up or it needs more work
22 and move onto the next one. I'm concerned that the energy level
23 will rapidly fall off and I don't want to shortchange groups
24 four and five, three, four or five. So I guess I need some help
25 in terms of are there some major issues that we still need to

1 somehow hash through or is there a way to resolve things here?

2 MR. RAINEY: I think that's good, that's.....

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

5 MR. SKINNER: This is not necessarily a major theme, it
6 was just I heard it and it had to go somewhere, so.

7 UNIDENTIFIED MALE: I think it's a.....

8 MR. SKINNER: Cannot always meet? Okay. Anything else on
9 the second group? Okay. Number three. I think this is Adam.

10 MR. MCBRIDE: Most of the material that was drafted in the
11 initial draft was pretty much on point and there wasn't really a
12 great deal to add to that. I was concerned about the statement
13 that NOAA needed to assess its NRT capabilities and then the
14 next item was the conclusion that they needed to expand it and I
15 think you -- you don't come to that conclusion until you've done
16 the assessment or if you've made that conclusion I hope you've
17 done the assessment. So I would eliminate the assessment
18 because I'm pretty clear in my own mind in talking to the NOAA
19 folks that they've assessed their five or six NRT's and
20 determined that it's not adequate. Beyond that I didn't have a
21 great deal to add to what was already drafted, I thought it was
22 very much in keeping with what we wanted to do. So that really
23 -- and that's just an editorial observation that -- coming out
24 of the paperwork which I believe I gave back to Ann.

25 MR. SKINNER: Anything else?

1 MR. MCBRIDE: No.

2 MR. SKINNER: Anyone want to add?

3 MR. RAINEY: Just a question maybe, Adam. Do you have
4 some photos? I mean having gone through that and the
5 presentation you gave us and your staff gave us in Houston, I
6 mean I'm just wondering to make that real I mean would you have
7 or know of some things for -- as far as maybe photographs we
8 could use to show that? We can maybe pull from your
9 presentation or the other -- we got a couple of maybe good sand
10 bites from the API presentation I thought in Houston as well to
11 really drive home how critical was -- we heard a number of times
12 that if we're not back up and running within 48 hours, you know,
13 a whole train of consequences. Could you help us or.....

14 MR. MCBRIDE: Yeah, no, I'd be happy to go back over ours.
15 I think as well though that somebody like Tim Osborne who was
16 actively involved.....

17 MR. RAINEY: Okay.

18 MR. MCBRIDE:in a raft of these last year might have
19 some.....

20 MR. RAINEY: Right, okay.

21 MR. MCBRIDE:some better photographs.

22 MR. RAINEY: Okay. That'd be great (indiscernible).

23 MR. MCBRIDE: Because -- yeah, I mean he was -- he and his
24 teams were in the water and -- with his teams.

25 MR. RAINEY: Right, okay. Maybe -- Elaine.

1 MS. DICKINSON: It might be worth putting in the text
2 somewhere that we're entering a -- or we're in a more active
3 hurricane period that is expected to last at least -- or about
4 another 10 years, perhaps longer.

5 MR. MCBRIDE: I think the -- actually Tom, there was one
6 other theme that I had that I wanted to mention was that NOAA's
7 work, whether in emergency response or in some of these other
8 incidents that arise is largely coordinated with other agencies,
9 Corps of Engineers, DOD, et cetera. And I think that NOAA at
10 least in the hurricane season last year did a great job in that
11 coordination work. And I've made the observation before that
12 the water side recovery and -- after hurricanes Katrina and Rita
13 was fabulous, the land side was a disaster. So I'm not sure
14 that that needs to be particularly developed but I would like to
15 highlight in the notes that this is an interagency activity
16 which has worked well. And not to focus completely and utterly
17 on hurricanes because there are a whole raft or a variety of
18 other events, tsunamis, earthquakes, just other events to which
19 NOAA brings NRT or emergency response expertise. So I don't
20 want anybody on the west coast, for example, to think that we've
21 forgotten them.

22 MR. RAINEY: Right. I -- and I think that's a really good
23 point that -- in Houston we talked about it and I -- in the
24 draft -- I can't remember whether I had it in there or not, but
25 NOAA has developed an all hazards incident response plan and

1 maybe that's a way to get at that. Because I think that's a
2 really good point, it's not just hurricanes, it's manmade,
3 natural and, you know, really all hazard response and recovery.

4 MR. SKINNER: Is that it? We've -- and we've got
5 examples? Okay. Great. Group three, going, going, gone.

6 CAPTAIN MYRTIDIS: Well, just -- I'm sorry, just a
7 question. How this last bullet is integrated with the most
8 wanted. I mean, okay, they did a great job which is great but
9 what this has to do with what we're trying to present.

10 MR. SKINNER: I'm using the major themes and this is
11 probably in -- may not be correct. It's sort of just a
12 placeholder for comments and then I think that -- I mean I can
13 go through and just.....

14 CAPTAIN MYRTIDIS: Okay.

15 MR. SKINNER:erase that.

16 MR. MCBRIDE: Let me just add. As Minas has pointed out
17 and as I said, that.....

18 MR. SKINNER: Examples?

19 MR. MCBRIDE:I didn't think that was a major theme
20 so much as an item to be -- and because it went so well, but
21 that in the context of NOAA's emergency response it isn't
22 interagency ordinarily activity which they already do quite
23 well. And maybe that's extraneous to the major theme that we're
24 trying to push anyhow.

25 CAPTAIN ARMSTRONG: Well, if -- you know, if -- we have to

1 be careful with something like this because if we're going to
2 say they did a really excellent job then what's the problem?

3 MR. MCBRIDE: Well, the problem is capacity.

4 CAPTAIN ARMSTRONG: Right.

5 MR. MCBRIDE: Yeah.

6 MR. DASLER: Is this an appropriate spot to mention the
7 supplemental funding and the work that's being done this fall
8 and winter down there also?

9 MR. MCBRIDE: Well, again, I think you're trying to
10 highlight the things that need action, not the successes that
11 have happened in the past. Unless you're going to point out
12 that it's a drop in the bucket or, you know, it's a good start
13 but there's still serious problems or something.

14 MR. DASLER: I mean it is a little bit of drop. Other
15 than I guess they've designated 1,200 square nautical miles to
16 be done and only about half of that is going to be -- and there
17 was only funding to do half of that this year, so I don't know.

18 MR. SKINNER: I've just put a notation here, it's under
19 examples under number three. And maybe what we do is possible
20 high -- possibly highlight it as a future need that NOAA seems
21 well positioned to take on this responsibility and it's -- it is
22 something that we should look at moving forward.

23 MR. MCBRIDE: Yeah, in the hurricane Rita example, as we
24 mentioned during our presentation there was an NRT -- a single
25 NRT response vessel which went first to Houston and then tried

1 to get down to Port Art Beaumont and then came over to us third.
2 In the meantime we were trying to -- contracting facilities. So
3 I think the interagency cooperation was working, the capability
4 of getting the work done instantaneously, which is what every
5 port director wants, was not there.

6 MR. ZILKOSKI: Well, I think you hit it right there, and
7 you said it before. It's the capacity that you have in that.
8 And your whole idea there is you're trying to increase the
9 number of them. So you can highlight the successes that you had
10 in the Gulf but there was also some -- not failings, but not as
11 quick response because you didn't -- you got a person doing too
12 much area so you got to decrease the area, increase the number
13 of people. So you highlight the successes and this could have
14 been better if we would have had more people on the ground, and
15 that's what you use it for.

16 (Pause)

17 MR. SKINNER: Any other thoughts? Number three. Going
18 onto four, expand and fund real time tide, current and -- wait a
19 minute.

20 CAPTAIN HICKMAN: You changed that to modeling.

21 MR. SKINNER: Right.

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

24 MR. SKINNER: What's that?

25 UNIDENTIFIED MALE: (Indiscernible - away from

1 microphone).

2 MR. SKINNER: All right. You know what I mean.

3 UNIDENTIFIED MALE: You know.

4 MR. SKINNER: Who had this one, was it Sherri, is
5 this.....

6 CAPTAIN HICKMAN: Yeah.

7 MR. SKINNER: Okay.

8 CAPTAIN HICKMAN: Yeah. I guess for your major themes,
9 accurate, timely and reliable real time hydrographic info. The
10 next one would be identify water level. And the next one,
11 identify speed of current.

12 MR. SKINNER: Speed of current.

13 UNIDENTIFIED MALE: You mean direction?

14 CAPTAIN HICKMAN: No, the next one's.....

15 UNIDENTIFIED MALE: (Indiscernible - away from
16 microphone).

17 CAPTAIN HICKMAN:the next one's direction, identify
18 direction of current. And modeling of nowcast forecast and
19 Vdatum.

20 MR. SKINNER: Of nav?

21 UNIDENTIFIED FEMALE: Now.

22 UNIDENTIFIED MALE: Nowcast (indiscernible).

23 CAPTAIN HICKMAN: Nowcast.

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

1 UNIDENTIFIED MALE: Nowcast forecast.

2 MR. SKINNER: Nowcast forecast.

3 UNIDENTIFIED MALE: Dave, instead of saying modeling.....

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

6 UNIDENTIFIED MALE: Speak to me anyways.

7 CAPTAIN HICKMAN: And Vdatum. Stop, stop typing. Get
8 your hands away from the computer.

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

11 CAPTAIN HICKMAN: Yeah, go to modeling such as. Delete,
12 delete.

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

15 CAPTAIN HICKMAN: Okay. And then.....

16 UNIDENTIFIED MALE: (Indiscernible - away from
17 microphone).

18 CAPTAIN HICKMAN: That's what we were saying and then
19 there's a lot that we've highlighted for Ann within the current
20 draft.

21 UNIDENTIFIED MALE: (Indiscernible - away from
22 microphone).

23 CAPTAIN HICKMAN: That's it for the themes that we.....

24 MR. SKINNER: Okay.

25 CAPTAIN HICKMAN: Now -- I've highlighted a bunch of the

1 stuff that was in the original draft of our handout to be used.
2 And the example, one of the best examples would be the Potomac
3 Trader. And I guess -- Andrew, you want to just give them a
4 little recap of that, of how much -- there's just more than the
5 fact that this one went aground because of -- it was a parameter
6 of different problems.

7 CAPTAIN MCGOVERN: (Indiscernible) New York there's a, you
8 know, meteorological conditional effect on obviously the water
9 level fairly greatly and the Potomac Trader went up the East
10 River, they had a northeast wind -- we had an easterly wind of
11 about 40 knots that's going around in about an (indiscernible)
12 to northwest about 40 knots. And the tides were supposed to --
13 this is all we found out later and (indiscernible) has all this
14 info as to why. We had a normal five foot rise and a ten foot
15 rise on one high tide. The ship was 35 (indiscernible), it's a
16 35 foot channel, (indiscernible) high water. So basically, you
17 know, looking at planning, it was planned perfectly,
18 (indiscernible). The problem was when this wind shifted from
19 east to northwest we went from a 10 foot rise of tidewater to a
20 minus one foot rise of tidewater, 11 foot (indiscernible) we
21 lost. The ship went up on the high (indiscernible) but there
22 wasn't any high water, it was -- you know, it -- and so it ran
23 aground and of course bottomed out. Luckily for us it was one
24 of the first double hull tankers and there was no spill but
25 major, major damage. So -- and the subsequent investigation,

1 then we were able to access the tide gauge at -- this was right
2 before PORTS so we were able to access the tide gauge and the
3 battery and get all this information and he -- Mike's got the,
4 you know.....

5 CAPTAIN HICKMAN: Yeah, Mike's got that all in graph form
6 so that would be a really good visual.

7 CAPTAIN MCGOVERN: Yeah. So that for me is a good example
8 (indiscernible).

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

11 MR. SZABADOS: Another example (indiscernible - away from
12 microphone).

13 CAPTAIN HICKMAN: And we've highlighted that in the
14 critical connections, yeah, for Ann.

15 MR. SZABADOS: Okay.

16 UNIDENTIFIED MALE: (Indiscernible - away from
17 microphone).

18 MR. SKINNER: What's that?

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

21 MR. SKINNER: Okay. Anything else? Group four. Others.

22 CAPTAIN MCGOVERN: You guys want anything about the Vdatum
23 (indiscernible)? I don't know really what the.....

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

1 CAPTAIN MCGOVERN: Yeah.

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

4 CAPTAIN MCGOVERN: Okay.

5 MR. SKINNER: Group -- moving onto group five. Elaine, is
6 that you?

7 MS. DICKINSON: That would be me. Last but not least. I
8 had a meeting with myself. Steve came over and helped me a
9 little bit. This one, fully disseminate hydrographic data and
10 develop additional products to support other navigational and
11 non-navigational uses. I think -- then there's four bullets, so
12 -- and some of them are very different so do you want to do them
13 bullet by bullet?

14 MR. SKINNER: Sure, yeah.

15 MS. DICKINSON: Okay. The first one is provide education
16 and information to recreational boaters. And off the top of my
17 head there's two major themes there. One is that the most
18 claims that are -- that occur on recreational boats for
19 insurance companies is hitting a submerged object. And at one
20 time I had a dollar cost of those losses, it was in the tens of
21 millions. I can flush that out. The other theme is that the
22 consumer market for marine electronics, particularly what we
23 call GPS chart plotters, is pretty much exploding.

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

1 MS. DICKINSON: People are buying these things, using them
2 on their boats.

3 MR. RAINEY: It's a tough crowd.

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

6 MS. DICKINSON: Loggers.

7 UNIDENTIFIED MALE: (Indiscernible - away from
8 microphone).

9 MS. DICKINSON: Not bloggers. They have perhaps a false
10 sense of security that -- just like the cartoon we saw
11 yesterday, that just because they have the latest marine
12 electronics, they're only as good as the data being entered into
13 them on a card and they may think they know exactly where they
14 are but we would like the -- all of the baseline data to be
15 updated and improved.

16 MR. GRAY: (Indiscernible) to say they know where they are
17 but they don't know what's in front of them. Because the data
18 that's on the electronic chart (indiscernible) just the same as
19 it is for anything other than that.

20 MS. DICKINSON: Exactly. But people think because.....

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

22 MS. DICKINSON:they have -- yeah, they know where
23 they are but they think because they have the latest Garmond GPS
24 that it's very, very -- that the chart information is absolutely
25 positively accurate and up to date and it might have come from

1 1942.

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

3 MS. DICKINSON: So you're putting horseshoes on, you know,
4 modern products.

5 MR. GRAY: Yeah. It's just like on page seven of this
6 (indiscernible), it says (indiscernible) with much -- have much
7 greater accuracy. They don't have anymore accuracy
8 (indiscernible).

9 MS. DICKINSON: Well, the GPS gives you some pretty good
10 accuracy.

11 MR. GRAY: For where you are.

12 MS. DICKINSON: Right.

13 CAPTAIN HICKMAN: Bill, I think the point.....

14 MR. GRAY: (Indiscernible) doesn't tell you what's under
15 the water.

16 CAPTAIN HICKMAN: The point you're missing though is this
17 is to educate the recreational boater with the equipment. This
18 is an education (indiscernible).

19 MS. DICKINSON: Well, yeah, this is to support why it's
20 important to provide all these things to improve products and
21 services to the boating public. Because they're using all of
22 these chart plotters. So the better the charts the better it is
23 for everybody.

24 MR. GRAY: (Indiscernible) because they're got it on
25 screen it's more accurate (indiscernible).

1 MS. DICKINSON: Right.

2 CAPTAIN HICKMAN: So they have to be educated that it's
3 not.

4 MS. DICKINSON: The other item we can mention there is
5 also the -- that NOAA's been producing some nice products, we
6 don't want to see them disappear, such as the small -- what do
7 you call it?

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

9 MS. DICKINSON: Small.....

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

12 MS. DICKINSON: Well, the pocket charts, chart downloads
13 and then the small -- what's the word. Small craft charts.
14 They're -- we don't want them to go away is the point here.
15 Because of budget constraints.

16 CAPTAIN HICKMAN: Help me out here. The small craft --
17 yeah, isn't that what they're called?

18 MS. DICKINSON: Yeah, and there's also booklet charts,
19 it's a new product that's very handy and downloadable. The next
20 bullet was provide baseline and real time information for
21 emergency response.

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

23 MS. DICKINSON: I'm going to the next bullet.

24 MR. SKINNER: Okay.

25 MR. SZABADOS: I might have an example for that.

1 MS. DICKINSON: Yeah, we could use an example. This would
2 be something other than what the NRT's are doing. This would be
3 other emergency responders who could really benefit from using
4 NOAA data that's already there like -- I think what Adam was
5 mentioning about the Calcasieu oil spill.

6 MR. SZABADOS: Another one is that Lakes Charles Emergency
7 Center has a display of the real time water levels and they also
8 have a GPS survey which Dave did and they have their evacuation
9 route tied to the tide gauge so as the water rises they know
10 when that road floods. Previous to that they used to have the
11 sheriff go out there with a two by four banging in the walkie
12 talkie and tell when the road was closed. And actually during
13 Katrina they actually implemented that so there's a good story
14 there. And we have pictures and data, we can give some
15 examples.

16 MS. DICKINSON: Okay. I think we need to catch up with
17 the typist.

18 MR. SKINNER: Get all that? I'm sorry.

19 MS. DICKINSON: Did you get all that? Emergency
20 responders. Mike has an example of using it for evacuation
21 routes.

22 MR. SKINNER: Okay. So this is more an example?

23 MR. SZABADOS: Example, yes.

24 MR. ZILKOSKI: And I think that's part of what's important
25 here is linking the water to the land. I mean the water levels

1 are measured, that you know the water's coming and you're going
2 to get flooded. And so the -- linking that to the digital
3 elevation models for the evacuation routes. So that tells the
4 emergency managers when they have to have people evacuate and
5 also if there's flooding going on where they potentially can go
6 and not go because they're under water. So it's that linking
7 part I think and that's the theme part of it if you will. Okay.

8 MS. DICKINSON: Yeah, I don't know if you need another
9 example. We could probably come up with one.

10 CAPTAIN MCGOVERN: Elaine, I think another one would be --
11 I'm sure Mike's got about 1,000 of these probably, but an oil
12 spill response when -- especially in a port with -- let's say
13 with a port system where they would give the on scene responders
14 all the trajectories for the -- you know, the spill and
15 everything like that. And that actually ties right back into
16 Adam's of what went wrong, right, when you didn't have that
17 information. So it could be maybe your -- an example would be
18 the response of yours versus the response of a port that had
19 these systems in place and how much better one went than the
20 other may be really a good example, you know, good versus bad.

21 MR. SZABADOS: Going to Houston, Galveston, we have a port
22 system there and it's been used for placing oil booms. So we
23 can get an example for that.

24 MR. ZILKOSKI: If you'd add under examples the Gulf Coast
25 height modernization examples. Just put that bullet and I will

1 get you lots of different one pagers that you can extract what
2 you want out of there for examples.

3 MR. DASLER: Other examples are the -- what we talked
4 about the other day, the Coastal Services Center and how they --
5 you know, I guess to address the resilience of the coastal
6 communities and the -- again, the map once, use many times and
7 the examples of that in that Coastal Services Center brochure
8 that uses all the different kinds of data and how they can be
9 used for coastal managers. There's -- I think Mike sent an e-
10 mail that there -- it's also a link to the Coastal Services
11 Center.

12 MS. DICKINSON: For the -- the third bullet is support
13 marine habitat protection. I think there is some stuff already
14 in the draft that we got that speaks to that. The only other
15 thing we could use as examples, some of the folks that were on
16 our Alaska panel talked quite a lot about fisheries management
17 and that how much they relied on the NOAA data to help with
18 fisheries.

19 MS. BOESE: I did get her card and I did take some quotes
20 and I'll check them against the transcript.

21 MS. DICKINSON: Okay. And the last bullet, support
22 resilient coastal communities. That might pertain to shoreline
23 erosion, communities using NOAA data for, you know, managing
24 land use projects, beach replenishment. I'm not the expert on
25 that one, so.

1 CAPTAIN ARMSTRONG: Well, the sediment, the offshore
2 sediment maps that we mentioned today would be a -- an ideal
3 (indiscernible).

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

6 CAPTAIN ARMSTRONG: Sand and gravel from offshore is
7 probably the biggest mineral extraction activity in the U.S.

8 MR. SKINNER: This was also mentioned, but it's used by
9 managers of aquaculture leasing and so forth.

10 MS. DICKINSON: Aquaculture?

11 MR. SKINNER: Using this information as a way to figure
12 out where to license aquaculture facilities was mentioned today
13 and I know that's one of the things that coastal managers use it
14 for.

15 MS. DICKINSON: Okay. The draft that we got, I think we
16 can just reformat pretty much most of the stuff that was on page
17 10, 11, 12 and 13. Because those sections were already
18 supporting resilient coastal communities and informing and
19 expanding user group outreach and education efforts. So a lot
20 of that is good stuff that's already written. There's two boxes
21 that were included that I'm not sure belong there anymore and
22 that was -- there was a box on IOOS in that section and I really
23 don't know if that belongs here or somewhere else.

24 UNIDENTIFIED MALE: Yours can't be bigger than number one
25 though.

1 UNIDENTIFIED MALE: Tom, can you cover wetland
2 restoration? Is that.....

3 MR. SKINNER: I'm (indiscernible) examples.....

4 UNIDENTIFIED MALE: Yeah. Okay.

5 MR. SKINNER:with the theme, so -- but let me --
6 I'll try and clean this up.

7 MS. DICKINSON: I came up with a couple -- on the
8 education and outreach end of things I just sketched out like
9 two recommendations. One was having to do with training of
10 future survey professionals. That there is a lack of -- that
11 there should be an investment in higher education training, the
12 next generation of survey professionals that have the adequate
13 skills to meet future capacity. Or future needs, something like
14 that.

15 MR. DASLER: I think we should replace survey professional
16 with hydrographer.

17 MS. DICKINSON: No. We had a discussion on that.

18 MR. SKINNER: Was there a second recommendation?

19 MS. DICKINSON: Oh, yeah. Sorry. The other was re -- I
20 don't know, for a better word, repackaging and publicizing
21 existing NOAA data to serve a broader range of applications.

22 MR. SKINNER: Repackaging and?

23 MS. DICKINSON: Publicizing.

24 MR. SKINNER: Publicizing.

25 CAPTAIN ARMSTRONG: Yeah, I think I prefer.....

1 MS. DICKINSON: The existing.....

2 CAPTAIN ARMSTRONG:you know, hydrographic and ocean
3 mapping over survey because.....

4 MS. DICKINSON: That's right, ocean mapping was a
5 good.....

6 CAPTAIN ARMSTRONG: Yeah.

7 MS. DICKINSON:phrase for the previous one.

8 CAPTAIN ARMSTRONG: People might jump to the land survey
9 conclusion. I think there's plenty of that training.

10 MS. DICKINSON: Survey data to serve a broader range of
11 applications. And that's as far as I got.

12 CAPTAIN ARMSTRONG: Tom, that was -- in that first bullet
13 under recommendations, changing survey professionals to
14 hydrographic and ocean mapping.

15 MR. SKINNER: Training future.....

16 UNIDENTIFIED FEMALE: You want it on that line or the
17 second line?

18 CAPTAIN ARMSTRONG: Either one.

19 UNIDENTIFIED MALE: (Indiscernible). Because there's a
20 lot of land survey training, I think that's where we're -- we
21 were just trying to differentiate that.

22 UNIDENTIFIED FEMALE: This is for NOAA, (indiscernible).

23 UNIDENTIFIED MALE: When -- well, but it's going.....

24 CAPTAIN BARNUM: When Elaine and I were talking we were
25 trying to capture, you know, the geodesy and the oceanography

1 professionals that go into the compliment -- you know, the
2 hydrographers.

3 CAPTAIN MCGOVERN: I guess -- I think we -- you know,
4 maybe there's not the problem in training land surveyors in --
5 as there is in hydrographic surveyors. That's all I was
6 thinking.

7 MR. SKINNER: We don't actually have to -- our recommen --
8 sorry. Our recommendations are the main bullets. So, Elaine, I
9 think maybe this could still fit under the themes section if
10 that's what we want to focus on.

11 MS. DICKINSON: Okay. I was.....

12 MR. SKINNER: I mean the themes generally are.....

13 MS. DICKINSON:what I was doing was following the
14 draft that had actual recommendations in little boxes.

15 MR. SKINNER: Oh, okay. I guess it did.

16 MS. DICKINSON: So I guess that all changed. That's okay.

17 MS. BOESE: Those recommendations actually came from
18 (indiscernible). But that's a good question. If there's going
19 to be just the five most wanted do you still want to go through
20 and have all those other recommendations?

21 MR. SKINNER: I'd prefer to have it just as part of the
22 discussion. Because all of these -- I mean if you look back on
23 these they're all sort of things that we -- they're describing
24 what we think is important so I think our -- could easily be
25 rephrased as recommendations as well. But what we want to do is

1 sort of get at the larger issue and use these as illustrative I
2 think. Have -- how's everyone's energy level?

3 UNIDENTIFIED MALE: Low.

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

6 MR. SKINNER: Do you want to just see if we can clean this
7 up a little bit and print it out and -- so that everyone can
8 take a look at it? And in the meantime people can get up and
9 stretch and walk around, grab a cup of coffee. Does that make
10 sense?

11 UNIDENTIFIED MALE: Sounds good to me.

12 MR. SKINNER: All right. Thanks very much to the groups.

13 (Off record at 3:23 p.m.)

14 (On record at 3:56 p.m.)

15 MR. RAINEY: I was going to -- we've just passed out two
16 documents, just -- if you can have them in front of you. The
17 skeletal outline of the sections and then we have a public
18 comment that we want to get to in time. And then we'll be able
19 to wrap it up.

20 (Pause - background conversations)

21 MR. SKINNER: Again, I think we're looking for major
22 changes, not so much word smithing, but if you have comments.
23 Minas has already suggested that the QE-2 under number one was
24 not really an appropriate example so we might want to think
25 about moving that out of there. Because it was not just a

1 charting error, it was a -- I guess the finding was that it was
2 significant seamanship error. So that it might be better to use
3 another one that is specifically.....

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

6 MR. GRAY: Real time what?

7 UNIDENTIFIED MALE: (Indiscernible - away from
8 microphone).

9 MR. GRAY: What's that?

10 UNIDENTIFIED MALE: It's a more precise GPS
11 (indiscernible).

12 THE REPORTER: Put your mic on over there, Bill.

13 MR. GRAY: What's that?

14 THE REPORTER: Your mic on.

15 UNIDENTIFIED FEMALE: Your microphone.

16 MR. GRAY: I'm just trying to find out what real time
17 kinematics is and I still don't understand but maybe I don't
18 need to know.

19 UNIDENTIFIED FEMALE: The lights aren't on.

20 MR. GRAY: You're right about that. That's true when I
21 use my computer too. Real time kinematics. We've got ping in
22 here still.

23 MR. DASLER: That should be kang, K-A-N-G.

24 MR. GRAY: What?

25 MR. DASLER: K-A-N-G, high -- were you talking about the

1 ship?

2 MR. GRAY: No, we just talked about.....

3 MR. DASLER: Oh, ping.

4 MR. GRAY:ping to chart.

5 MR. DASLER: Oh, right.

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

8 UNIDENTIFIED MALE: Where is that?

9 MR. RAINEY: In the first section, okay, the very first
10 section was drafted -- I put that down contemporaneously as John
11 was making his report. So we can amend that with the panel's
12 concurrence to, you know, pick up the comments we just had in
13 the last round. So, yes, the -- you see some of the original
14 language that we kind of agreed to change and I -- okay.

15 MR. SKINNER: I also went back to try and update the
16 actual most wanted five and I think I got everything but we'll
17 double check that. If you see anything mention it. And under
18 five, the last one, because I don't know how to do sub-bullets,
19 the major themes are broken out under the four -- according to
20 the four bullets on pages two and three.

21 UNIDENTIFIED MALE: (Indiscernible - away from
22 microphone).

23 MR. SKINNER: Yes.

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

1 MR. SKINNER: Just want to make sure everyone has the time
2 to go through it. But since we have a motion, when people are
3 ready. Anyone want to second the motion?

4 UNIDENTIFIED FEMALE: I will.

5 MR. SKINNER: Been seconded. I'm sorry, that's your job.

6 MR. RAINEY: No, that's all right, you (indiscernible).

7 MR. SKINNER: All in favor of using this document with the
8 notations that we've discussed as the outline for the report
9 signify by saying aye.

10 SIMULTANEOUS: Aye.

11 MR. SKINNER: Any opposed? Abstentions. Great. Thank
12 you all very much.

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

15 MR. RAINEY: Right. Could I -- Ann, could you join us
16 here? We talked about kind of the next steps and let me bring
17 Ann up and we'll just throw out -- because what we've got now is
18 we've approved the skeletal outline, we've reorganized it, we've
19 got our major themes. We've got the raw data so to speak in a
20 stack and the report out. So Ann would like to put out a couple
21 of target dates for folks that had some pictures that they
22 identified and other -- like I'm going to get some citations and
23 some things. So can I just turn it to Ann as -- with some of
24 these -- with the additional data that we need to collect fairly
25 quickly and then we'll pull all that together and then get it

1 back out to the panel and talk about that in a little bit.

2 MS. BOESE: Well, if anybody has artwork that they'd like
3 to submit. I think the best thing to do would be to e-mail a
4 high res JPEG format at 300 DPI to Barbara so that it goes
5 through NOAA by next Friday. And if anybody has any sudden
6 thoughts or ideas or something that needs to be considered or
7 should go into the text part I would like for them to e-mail it
8 to Scott by next Wednesday which is August 23rd and next Friday
9 is August 25. I believe I have everybody's written packet, the
10 work packet that everybody worked on with their section. If
11 there's anything else just drop it off to me. And I did want to
12 say that I think that it was a very dynamic and useful process
13 to get the hands dirty in the copy and the guts and now we'll
14 have to sort the guts all out. But thank you.

15 CAPTAIN HICKMAN: Good luck.

16 MR. RAINEY: I think -- what I propose is we do that and
17 we'll get the information all pulled together and then
18 basically, you know, follow up the outline that we have with the
19 information that we've all talked about and pull it together and
20 then we can get it out to the panel once we have it together.
21 This is jumping ahead a little bit into the new business but I
22 think it's appropriate to talk about it now because it's sort of
23 the next steps. And the ultimate -- I talked with Jack here.
24 Again, from our perspective having this, you know, delivered by
25 the end of the calendar year would be the objective. So there's

1 likely that the thought process and talking with NOAA and just
2 looking at the next meeting is that we would probably do this,
3 as we've done before, after the New Hampshire meeting we'll pull
4 this together and communicate through e-mail and or a conference
5 call that we'd produce this document likely without having
6 another physical meeting on it. And then look to have our next
7 meeting in the February timeframe which would be in conjunction
8 or very close to the 200th birthday anniversary of the Coast
9 Survey and if we'd have this document that we can, you know,
10 have for that occasion and it would give us a real nice press
11 release and an event that we could, you know, kind of start the
12 process with this product. So that's right now the thinking.
13 So it's -- it'll be important to follow through. I'll send out
14 an immediate e-mail to try to update Admiral West and Admiral
15 Larrabee as quickly and as thoroughly as I can. I know they had
16 sent an e-mail saying that they were, you know, interested in
17 that and I want to try to get them as up to speed as I can and
18 we'll incorporate if they have some comments and get that down
19 to Ann as quickly as I can facilitate that. I just wanted to
20 thank everybody, this was a tremendous undertaking and a
21 phenomenal accomplishment I think this meeting. Are there any
22 other specifics on that? I think that's how we'll proceed.
23 Just like to let you have the last word if there's another
24 comment and then we'll turn -- we have a -- one public comment
25 and -- so is there any other panel comments on that? Want to

1 thank.....

2 CAPTAIN HICKMAN: Well, I thought I might wait. But I
3 just wanted to say that -- I know we've mentioned it but I think
4 it deserves to be said again that we know you put a lot of time
5 into the original critical connections that you brought here
6 with you and -- and to your buddy sitting next to you, good
7 luck.

8 MS. RAINEY: Well, thanks. I think it's a huge -- I think
9 we're going to all be proud of this, it's going to be a good
10 document, good effort, and everybody's really contributed and I
11 think that's been tremendous and really happy to have Tom on
12 board. But -- well -- okay, well let's turn the floor over
13 then. You have another document from Mr. Scott McClaine who's
14 joined us to make public comment, professional land survey under
15 State of Alaska and he'd like to address the panel. So Mr.
16 McClaine. Anywhere is fine. If -- kind of -- there, that'd be
17 great. Thanks.

18 MR. MCCLAINE: First of all I'd like to thank you for the
19 opportunity to make a few brief comments. I'm Scott McClaine,
20 I'm a professional land surveyor here in the state of Alaska and
21 I represent a small business concern that's been providing
22 support services on NOAA multiyear contracts since 2001. I'd
23 like to encourage you to -- encourage the participation of
24 Alaska small businesses on NOAA projects. I feel that our small
25 business has -- it's been a team effort to gain a little bit of

1 experience on NOAA projects to try to attain the ability to
2 provide those services in a fully functional manner in a later
3 timeframe once we gain the necessary experience. So I'd
4 encourage NOAA to continue with providing those opportunities
5 for Alaska small businesses.

6 Secondly, I'd like to encourage the participation of
7 professional Alaskan surveyors on NOAA projects. Recently the
8 State of Alaska has adopted regulations that follow the NC's
9 model law and one of those specifically require that Alaskan
10 professional surveyors be responsible for acquiring hydrographic
11 data within the jurisdictional boundaries of the state.

12 And lastly I'd like to encourage NOAA to adopt a faster
13 method of data dissemination to the community. As an end user
14 we all like to see the data put out to the public in the
15 quickest manner possible. And those are my comments. Thank
16 you.

17 MR. WHITING: Scott, I'd like to thank you for putting
18 that provision in the model law for the hydrographic survey and
19 in the Alaska Statute and stuff. We talked about this, what, 10
20 years ago?

21 MR. MCCLAIN: We did. It took a long time to get there.

22 MR. WHITING: It took a long time. Thank you.

23 MR. MCCLAIN: I'd be happy to answer any questions that
24 somebody might have. Thank you.

25 MR. RAINEY: Thank you, sir. Are there any other public

1 comments at this time?

2 MS. MORRISON: Hello everyone, my name is Gail Morrison,
3 my company is Allied GIS. My team which consists of IIC
4 Technologies, TerraSond and 3001 recently won a NOAA contract,
5 we maintain the NOAA ENC charts. We won that about two years
6 ago. So, first of all, with that in mind I'd really like to
7 encourage you all to change this number from zero to something
8 much larger that's on here for the ENC's for 2005, seven it's
9 zero.

10 And I'd like to just talk briefly about my experience with
11 NOAA. You are by far one of my favorite contracts. Everyone
12 has been so nice to deal with, everyone -- the contracting
13 officers, my client, Alexandria Heliotis. I'd just like to say
14 that everyone's just so professional and just so nice, the whole
15 contracting experience has been very nice. I've learned so
16 much. This was my first large contract and everyone has been
17 just so nice. And I've learned so much and all the knowledge
18 that I gained from this contract I've been able to carry on
19 through some of my other contracts and have been able to win
20 some other larger -- some other large contracts.

21 I'd like to encourage NOAA to continue providing contracts
22 for small businesses. It's very tough for small businesses to
23 get into the federal market, so I'd like to thank you for
24 supporting small businesses and especially women owned small
25 businesses, which is what I am. So thank you.

1 A second topic I'd like to bring up is throughout this
2 meeting I've -- and I was only here for today, unfortunately I
3 couldn't make it yesterday. There is -- I'm hearing different
4 companies, different agencies are using different datums,
5 different geoids, et cetera. I use GIS -- US GIS products is my
6 specialty, I also use CAT. I do a lot of data importing, data
7 exchange. The U.S. Army Corps of Engineers has developed a data
8 toolset called SDSFIE. It's Spatial Data Standards for Facility
9 Infrastructure and Environment. This is an enormous relational
10 database. What this provides is data standards, it provides
11 templates for your contractors when they go out to collect data.
12 It provides visuals so people know exactly what they're going to
13 collect. For instance, there is a field saying what geoid did
14 you collect this in, what's your vertical datum, what's your
15 horizontal datum, how many feet are you off. There's about --
16 there's at least 40 fields and then you can add additional
17 fields to that, you can hyperlink documents to the GIS. This --
18 the SDSFIE creates a GIS feature, either a point line or poly.
19 So again, this is an excellent tool for standardizing your data
20 and explaining to your contractors exactly what you want,
21 exactly what you need and exactly what format you need it in.
22 It imports data from many different fields, from many different
23 types, Excel, DBF, text file, there's quite a few. So again,
24 this is an excellent way to standardize your data.

25 And the last thing is, I'd just like to mention a contract

1 that I have locally, it's the Alaska Army National Guard, and
2 this goes back to federal dollars, everybody's budgets are
3 getting squeezed. What I've been able to provide for the
4 National Guard is on some of my -- I have several contracts with
5 them and different teams that provide different services. For
6 instance, right now I have a vegetation contract with them and
7 when these vegetation people, veg people go out to the different
8 sites I have them collecting survey -- some survey data for the
9 National Guard as well. So I'm helping them group these
10 contracts so that they don't have to do a separate land survey
11 contract. It just costs another \$100.00 or \$200.00 to have
12 these veg people go out. They're not registered land surveyors,
13 but again, we don't need extreme accuracy, we just need to know
14 plus or minus 30 feet where the buildings are, we need some sort
15 of X, Y, Z -- or X -- just X, Y coordinates so that other
16 contracts can feed off these coordinates. So I don't know -- I
17 talked to Mr. Baird about this, he had been doing this in the
18 past. But I'd like to encourage you to tap into your
19 contractors to tap into their contracts and their contacts so
20 that if they're going out into an area where you might need a
21 couple of points collected, just ask them if they wouldn't mind
22 swinging by. It's a huge cost saving here in Alaska. I'm
23 already saying my con -- my National Guard contacts thousands of
24 dollars by doing this. Thank you.

25 MR. RAINEY: Thanks very much. Okay, I think that

1 exhausts our public comment. Is there any new business from the
2 panel members? McGovern.

3 CAPTAIN MCGOVERN: Just something to think about I guess
4 for the next meeting or something, it's something that's
5 bothered me for years and -- we're doing a huge dredging project
6 in New York. We've done several of these, because of the way
7 the federal government funds it it's like every five feet so
8 we've done this -- we're doing the same project three times to
9 get 15 feet of extra draft. And each time, obviously, the whole
10 current picture changes, there's never -- you know, they give us
11 a billion dollars to dig or they give the Army Corps a billion
12 dollars to dig and not a dollar to do a new current study.
13 Which we know everything has changed after it but we don't know
14 exactly how -- you know, how much because we can't get -- I
15 would just think that there should be a way to almost require,
16 you know, after a -- I think Andy had the words better
17 yesterday, but if there's a change in the bottom then there
18 should be required that there is a subsequent current study to
19 follow up -- I mean we're talking, you know, pennies compared to
20 what the dredging project cost. You know, that -- I don't know
21 how we'd do that because it's a -- I guess it's one agency not
22 necessarily against another but it's a follow up thing and I
23 don't know how we can do that but it's something maybe people
24 can think about between now and the next meeting. But just
25 that, you know, if there is a major dredging project that that

1 dredging project should be followed up by a new current study to
2 see how, you know, the currents and maybe other things that were
3 affected by this dredging project. Because, you know, we've had
4 dredging -- some of these dredging projects they make the turns
5 bigger but make them harder because they've changed the whole
6 current profile and it's -- it makes the turn actually a harder
7 turn even though it's a wider turn. So just something to think
8 about between now and then, it's a -- you know, I would love to
9 get that requirement in there but I don't know exactly how you
10 would do that and the procurement process and maybe that's
11 something that the -- you know, (indiscernible) can work out.

12 MR. WHITING: Andy, ask the Corps of Engineers to do that.

13 CAPTAIN HICKMAN: I was going to.....

14 MR. WHITING: They are very interested in anything that
15 affects their bottom, why don't they do just that, ask them to
16 do it.

17 CAPTAIN HICKMAN: Andy, I think.....

18 CAPTAIN MCGOVERN: Because they're not paid to do it so
19 therefore -- they're paid to dig.

20 MR. WHITING: You're their client, right?

21 CAPTAIN MCGOVERN: No.

22 CAPTAIN HICKMAN: Andy, I think -- I don't know how it
23 came about but I believe they did a study on ours before we
24 dredged between and made the new spoils between Lynchburg and
25 Morgans Point because we were concerned with the bottleneck in

1 the water flow there.

2 MR. RAINEY: Was that because of the special asymmetrical
3 channel or was that a different navigation project?

4 CAPTAIN HICKMAN: It was because they were going to be
5 putting the dredged material into.....

6 MR. RAINEY: Okay.

7 CAPTAIN HICKMAN:new spots. And so they were not
8 only dredging the channel deeper but they were making new land
9 around it.

10 MR. RAINEY: Kind of camping. Yeah, okay.

11 CAPTAIN HICKMAN: So I'm not sure how they -- how we had
12 that done, I could look into that. But I would imagine if
13 they're doing it prior to it they might be willing to do it
14 afterwards.

15 CAPTAIN MCGOVERN: And I guess this is -- I mean we had
16 one current study done too in between two of the -- between the
17 first project and the second project. But it was a special
18 deal, it was a big deal that was -- you know, it took a lot of
19 effort. To me, what I'm trying to do is try to maybe -- is to
20 automate this, that it should be I guess call it the chicken and
21 the egg or the egg and the chicken. I mean it should just be,
22 you know, if you're going to do this that this -- this is just
23 done automatically, you know, following it whether it's part of
24 the original allocation or what but it's just, you know, when
25 you do this this will be done too and make it more automatic and

1 not such a big deal to try to get that done.

2 MR. RAINEY: Might be the recommendation we could draft
3 that we would recommend NOAA take that as an agenda item to the
4 CMTS because that's the whole idea is that you've got Corps of
5 Engineers digging but you've got NOAA doing your hydrographic
6 modeling, you've got Coast Guard doing ATON. So all of this,
7 somebody should manage the big picture and when you change
8 something that affects everything else you ought to take a look
9 at the everything else. Bill Gray.

10 MR. GRAY: Yeah. I surely agree with what Andy is
11 suggesting but it brings up the thought -- you say we might have
12 a meeting in February and what I'm thinking, we talked yesterday
13 about possibly inviting people from (indiscernible) H-10, Alex
14 Landsburg or something like that, to the meeting to talk a
15 little bit about the work that was done in Houston, the full
16 scale measuring. Which then brings me to the thought maybe it'd
17 be -- you know, if we can do that why don't we invite somebody
18 from the Army Engineers and somebody from the Coast Guard as
19 well and talk about this subject. And you remember, Andy, when
20 we did that Norfolk meeting four or five years ago, we had a
21 very small workshop where we got a lot of pilots together, we
22 got a -- quite a few Army Engineers together, we got good Coast
23 Guard representation. And it was interesting because we had a
24 fellow from the Army Engineers called Barry Holiday (ph) and I
25 had only barely met him but we said we wanted to get some sort

1 of a dialogue going between Coast Guard, Army Engineers and so
2 forth. And at the end of this day and a half meeting where we
3 had some break out and work, you know, the way ships maneuver,
4 all these various things, they asked Barry Holiday (ph), said
5 what did you think of this meeting. He said, you know, I have
6 been in this business of planning and designing channels for the
7 United States for roughly 35 years and he said I learned more in
8 the last 36 hours about the way mariners regard what we do than
9 I did in the previous 35 years. And it -- I think everybody
10 went away with a very good feeling about that and several of us
11 wrote a paper about that, Al Bloom (ph) and me and Alex
12 Landsburg I guess and Jennifer Waters (ph). And it worked out
13 very, very well and that kind of a thing might be a little
14 bridge building step that we could take. And as Lou was
15 mentioning, you know, we're talking about grabbing some of
16 Army's responsibilities or however the hell you might want to
17 talk about it. But as I said, that's the only time in my quite
18 a few years in the industry that I've really had what I thought
19 was an open and positive discussion take place with the dredging
20 people, the Army Engineer people. So that's just for
21 consideration as we think of the next meeting. Oh, and one
22 other thing I had. We don't have Helen anymore, are we going to
23 try and replace.....

24 MR. RAINEY: Yes, I guess what I -- we talked just real
25 briefly about that but the -- my understanding is that there is

1 a process in place, a selection board has met and that's
2 proceeding. There's -- there are, you know, various and sundry
3 requirements with the FACA Act administration that go into that
4 selection process. So I would suspect that, you know, by our
5 next meeting perhaps we may be able to have that member with us.
6 Is that fair?

7 CAPTAIN BARNUM: I think the package is downtown, I think
8 probably the announcement is -- would -- I would say would be
9 imminent, so we should know soon.

10 MR. RAINEY: All right. We've kind of arrived at -- is
11 there any other new business? Okay. Well, again -- Barbara,
12 can I turn it to you to give us the -- I don't know if there's
13 more to say other than by -- we have an event for this evening
14 for the panel graciously hosted by John Oswald and my
15 understanding is there'll be a -- some cars for transportation
16 available if you get out at the lobby by what was it, 5:15 we
17 figured, is that the.....

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

19 MR. RAINEY: Is that okay?

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

21 MR. RAINEY: Okay. All right. Minas

22 CAPTAIN MYRTIDIS: Yeah, just a question and I don't know,
23 I'm sorry if I missed that. Did we discuss the possibility of
24 location, time for the next meeting, do we want to do that
25 or.....

1 MR. RAINEY: If -- we did but clearly not with much
2 specificity. Let me say what I think we have in the works is
3 that try to look for an opportunity. So it'd be worth it to
4 check -- to hear from the panel what the availability would be
5 around February 10th is the anniversary of the Coast Survey and
6 the thinking would be perhaps to do a meeting that abuts that or
7 is adjacent to that timeframe. So maybe if you could give
8 Barbara your availability, you know, a week before or after that
9 date and we were going to check with NOAA leadership and we're
10 -- the thinking is to look for an appropriate site that would
11 allow us to make this a pretty watershed event for the panel as
12 well as -- you know, in conjunction with the -- Coast Survey's
13 200th birthday and also we would hopefully have our special
14 report on hand. So that there would be some synergies of, you
15 know, time, place and manner of the meeting.

16 MR. WHITING: Is the Hydrographic Society going to have
17 their meeting about the same time?

18 UNIDENTIFIED MALE: That's in May.

19 MR. WHITING: That's in May.

20 MR. RAINEY: May, yeah. May in Norfolk.

21 MR. WHITING: And you wanted to have this meeting before
22 then, right? Are we going to have another meeting in Norfolk
23 right after that? Because I think we still, even though -- I
24 think that the place that this thing belongs is at the
25 Hydrographic Conference, right there, day before, during it or

1 whatever. Have a panel like this and invite some of those big
2 people.

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

5 MR. WHITING: In May. Right. We're going to have two of
6 them in Norfolk at the same time, the same year?

7 UNIDENTIFIED MALE: (Indiscernible - away from
8 microphone).

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

11 MR. RAINEY: Well.....

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

14 MR. RAINEY: Why don't we.....

15 MR. DUNNIGAN: We might, for example, want to have a
16 meeting in Mobile. Have any -- Chairman have any committees
17 that come from Alabama?

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

20 UNIDENTIFIED MALE: That thought just occurred to me
21 because Barbara and I had been talking about something else.

22 MR. RAINEY: Yeah.

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

25 UNIDENTIFIED FEMALE: Sorry.

1 MR. RAINEY: Why don't we leave it, if it settles with the
2 panel, that we're looking for around that timeframe. I would
3 very much like to have the opportunity for NOAA leadership to
4 kind of get back with us where -- when they look at all of the
5 activities they have for the 200th and things going on. I think
6 Larry's point's very well taken that, you know, look at the
7 HSOA's and we had a very good meeting in conjunction with them
8 in San Diego. But maybe we can get a short list of -- you know,
9 I think we'll benefit from taking -- getting back and checking
10 schedules and looking for a special opportunity, I think we
11 would be -- benefit from tying it into something that would work
12 for NOAA leadership as well as the panel. So can we just
13 promise to get back with you on some options here within the
14 week?

15 CAPTAIN MYRTIDIS: Of course the other option is to have a
16 very long meeting on a cruise ship, but -- take seven day
17 cruise.

18 MR. RAINEY: Well, nothing's impossible, we got to Alaska.

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

21 MR. RAINEY: Can we leave sometime around February 10th
22 and then arrive in Norfolk by May something? Yeah.

23 CAPTAIN MYRTIDIS: We are just making deployment right
24 now, so probably we could do that.

25 MR. RAINEY: All right. Well, is there any other new

1 business? All right. Well I'd accept a motion to adjourn with
2 -- Jack, thanks.

3 MR. DUNNIGAN: Yeah, let me just add my thanks to
4 everybody for your time. I have to tell you something. I'm a
5 professional bureaucrat so what you all did this afternoon and
6 over the last day and a half I know is hard work so I really
7 appreciate that. I'm very much looking forward to your product
8 here. And I learned really a lot from a number of aspects over
9 the last two days. So from my standpoint this continues to be a
10 really important group that I'm committed to working with. I
11 think the discussion we had about programming and planning was a
12 little dense but it's really good for you to know what we have
13 to go through. I thought the discussion we had this morning on
14 reauthorization of the HSIA is a good start. I did get a sense
15 from you about, you know, sort some outlines of the scope of
16 what you thought would be useful for going into so that's very
17 helpful and we'll continue to work with you on that. But from
18 my position, once again, thanks an awful lot for being here,
19 it's a good meeting, appreciate it. And congratulations, Tom.

20 UNIDENTIFIED MALE: I might just add, just on behalf of
21 the panel I think we're all reenergized I think by the
22 interaction that has taken place and some of the NOAA leadership
23 that's stepped up and working with this and I'd just really like
24 to show my appre -- express my appreciation for those efforts.

25 UNIDENTIFIED FEMALE: Group hug.

1 MR. RAINEY: Okay, could I have a motion to adjourn?

2 UNIDENTIFIED MALE: So moved.

3 MR. RAINEY: All right. All in favor.

4 SIMULTANEOUS: Aye.

5 MR. RAINEY: All right, thank you.

6 (Off record at 4:31 p.m.)

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I, Nicolette Hernandez, hereby certify that the foregoing pages numbered 268 through 492 are a true, accurate and complete transcript of proceedings of the National Oceanic and Atmospheric Administration, Hydrographic Services Review Panel, held August 15, 2006 at Anchorage, Alaska, transcribed by me from a copy of the electronic sound recording to the best of my knowledge and ability.

9/7/06

Date

Nicolette Hernandez

Nicolette Hernandez