

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

HYDROGRAPHIC SERVICES REVIEW PANEL

PUBLIC MEETING

DAY 1 - VOLUME III

PAGES 329-422

LOCATION:

Marriot Providence

1 Orms Street

Providence, Rhode Island 02904

Acting Chair: Ed Welch

Vice Chair: Ed Welch

May 5, 2010

8:33 a.m. - 5:55 p.m.

1 Our metric, unfortunately, is measuring
2 days at sea, and that's how we do our cost
3 models. That's how we measure success.

4 We build into our scheduling plans enough
5 margin in there to deal with things like
6 maintenance, weather, personnel and so on and
7 so forth.

8 So we try to achieve something around 94
9 percent operating day success rate.

10 So from those same three years for the TJ
11 it was 91, 92, 94. However, when you look at
12 that graph, that utilization is based on hours.
13 So what Coast Survey does is they look at each
14 ship, see how many hours those ships can be
15 available or made available to do survey work,
16 and that's what those rates are.

17 So you can see we're down below 80 percent
18 across the board for -- so there's a problem
19 with the metrics there.

20 I mean, ours -- ours were almost -- I
21 mean, one would argue we're close to a
22 successful metric, and obviously that's --
23 that's not how Coast Survey views it.

24 The chart does take into account weather

1 and safety issues. So what you're really
2 looking at there is lost hours because of ship
3 and survey equipment, personnel and possibility
4 mandatory standdowns.

5 When you have nautical miles for TJ in
6 '07, we're about 8,000 11,4 in '08 and then
7 12,8 in '09.

8 What this doesn't demonstrate from my
9 perspective is really the true value of the
10 data that's being collected on this ship. It
11 doesn't really tell you where are they working,
12 what are the conditions they're working in, and
13 what's the chart usage in that area, tonnage,
14 cargo. Value, what's the value of the cargo?

15 Did we or did the fact that we surveyed in
16 those areas avert certain hazards, potential
17 loss of cargo, life, environmental impacts, you
18 know, were there possible port closures that
19 needed to be considered.

20 The other thing I'm not quite sure of, and
21 I'm working with the folks at Coast Survey, is
22 are we optimizing these assets as best we can?
23 Are we getting the biggest bang for the buck?

24 What you're also not seeing up here is

1 certain places that you are survey certainly
2 are more difficult, higher risk, challenging
3 than others, and they may require a higher
4 level of effort, and you're not getting the
5 same output.

6 So the chart certainly is an indication of
7 what we're producing, but I don't think it
8 gives you the full picture.

9 The recapitalization front, this is the --
10 the revised fleet recapitalization plan as we
11 adjusted it for budget, for the new
12 administration, for ARRA funds received. So
13 there are certain assumptions that go along
14 with this recapitalization plan.

15 It only looked at the ten oldest ships in
16 the fleet. There was an understanding there
17 was going to be no substantial growth in the
18 number of ships and a certain funding profile.

19 So you can look at the different ships
20 that the new ships are going to replace.

21 The interesting thing about the NSV, there
22 wasn't a heck of a lot in the report about the
23 NSV or what the NSV would look like, and I'll
24 talk to that in a little bit.

1 We're also -- we also put together an
2 aircraft recapitalization plan. We're putting
3 together workforce plans for the NOAA corps
4 officers and also for the wage mariners. We're
5 also trying to come up with a small platform
6 usage plan for NOAA.

7 We know -- in the second phase, we'll work
8 on the second phase of this recapitalization
9 plan, and what we're looking at is other
10 assets, whether it's autonomous vehicles,
11 unmanned vehicles, you know, whether it flies,
12 floats or swims, are there better ways, small
13 boats and so on and so forth.

14 So it's not a one-to-one ship-to-ship
15 replacement. It's holistic look at what assets
16 are out there to accomplish the missions that
17 we're trying to accomplish here.

18 Fishery survey vessels. Like I said,
19 we've built four. We just took final delivery
20 of PISCES, a Dyson. It has been operating
21 seven years now. SHIMADA, we took preliminary
22 delivery of SHIMADA.

23 As I said before, five is a shallow draft.
24 We don't have the design for that. Six was

1 just awarded to Marinette.

2 And occasionally folks come up to you,
3 well, why the FSVs first, you know? And
4 unfortunately, or fortunately, depending upon
5 your perspective, they can really made a hard
6 case. You know, they got the Marine Mammal
7 Protection Act, the Endangered Species Act,
8 they got Magnuson Stevens.

9 Magnuson Stevens told them that -- fishing
10 in '11, come up with a plan in '10. They've
11 got 235 stocks that they have to manage. They
12 can show the negative impacts of not measuring
13 those stocks.

14 We added SHIMADA on the West Coast. As an
15 example, we added SHIMADA on the West Coast.
16 One would argue it's an additional capacity,
17 because they showed absence of the SHIMADA
18 doing the work on the West Coast was about
19 \$7 billion of economic impact to the West
20 Coast.

21 So they can put hard numbers on the table,
22 so that's why they get noticed.

23 One would argue, you know, it's a fishing
24 industry, somewhere between a \$70, \$80 billion

1 industry. What's marine commerce? It's in the
2 trillions. Is it 1.2 trillion or what -- it's
3 huge, right?

4 So you got 80 billion and you got
5 1.2 trillion. What's wrong with the argument
6 here?

7 I think President Obama uses the phrase "I
8 inherited this challenge." I did inherit this
9 challenge, but I think we also probably have
10 something else in common. Our approval ratings
11 are probably about the same right about now.

12 A quick history on swath. Original
13 delivery date was June 2008. If you do the
14 math, we're almost two years behind.

15 Originally \$250,000 preliminary design
16 contracts that were let to do the contract
17 design, detail design and construction all at
18 once, not an acquisition strategy for success.

19 You ball all that up and you give it to
20 one person, and you eliminate a lot of
21 competition when you do it that way.

22 Of course one of the potential
23 shipbuilders came in and said -- and initially
24 it was a \$10 million bill. One of the initial

1 shipbuilders that was interested in building
2 this said you can't do it for anything less
3 than 15. They walked away. And the
4 shipbuilding left standing said, well, we can
5 do it.

6 So long story short, the contract design,
7 detail design and construction was about twice
8 the \$10 million -- no, more than twice. It's
9 about 20.2. At this point, it's about two
10 years late.

11 And as of March 19th, we just got a report
12 from Halter which indicated the vessel is 17.8
13 metric tons over its design weight.

14 This is after we've seated 22 metric tons
15 a year and a half ago, eliminating 500 nautical
16 miles off of the endurance of the vessel to
17 help mitigate a 39-metric-ton problem.

18 So we've taken some serious action
19 recently and are going to hold them
20 accountable. We've told them to fix the
21 problem, give us a new delivery date or we take
22 the next steps.

23 So as you can see, the -- certainly the
24 picture on the right is much more dated than

1 the one on the left.

2 The one on the left I believe it's either
3 March or just a couple of weeks ago.

4 The vessel is almost done. It's -- they
5 want to do builders trials this week, but we
6 told them we're not sending our folks out in
7 the middle of an oil slick, so we'll pick
8 another week to do this.

9 So -- but it's close. It's close to
10 being -- close to being done, but there are --
11 there are a couple of significant deficiencies
12 that we're trying to get them to own up to,
13 which is a good segue into the NOAA survey
14 vessels.

15 As I indicated, there's supposed to be six
16 of these vessels. Two of them are to replace
17 the two hydroships, the FAIRWEATHER and RAINIER
18 and the other four are going to replace the
19 other multimission ships.

20 There wasn't a heck of a lot said about it
21 in the report. And then based on that, we got
22 a request -- not a request from Congress. It
23 was written in language that we have to provide
24 Congress a report which says evaluate "the

1 design and operations of future research
2 vessels in the form of a NOAA survey vessel" --
3 and here's the "for" end -- "for multi-mission
4 operations, to maximize on-site activities and
5 modularize for versatility" -- "versatile
6 platform availability."

7 So in the process of putting that report
8 together, we took a look at our acquisition
9 strategy, and we believe that we need to fix
10 that so we can put something together for them
11 that will be successful.

12 We need to look at mission operational
13 performance requirements. We need to do
14 feasibility studies, analysis of alternatives,
15 look at the CONOPS, look at lifecycle and all
16 the other good stuff and come up with a good
17 design and construction process.

18 I got a couple of slides that I wanted to
19 show you just to provide a little context of
20 some of the acoustic quietness activities and
21 design and engineering that went into the FSVs
22 just to give you an idea of what the
23 ramifications of some of these are and why you
24 need to provide a different acquisition

1 strategy.

2 I don't know if you know or not, but the
3 it FSV vessels were built to meet the ICES
4 curve, the International Council for
5 Exploration of the Sea.

6 Everybody knows that ships give off noise
7 in a variety of places. It's not just shaft,
8 prop and engines. It comes from everywhere.

9 I got these slides from the noise control
10 engineering folks. They're on contract with
11 Halter to work these issues, design and
12 engineering issues so we can meet the ICES
13 curve.

14 This is the gen set that was originally
15 tested. What I want to emphasize here is --
16 that didn't work. There it is.

17 These are the -- these are the noise and
18 vibration dampening mounts. There's 38 of them
19 on this gen set alone. There's four gen sets
20 and two main motors on these vessels. There's
21 over 166 of these mounts. They're \$300 apiece.
22 They last about seven years. DYSON's is seven
23 years old now.

24 So you can do the math there, and it gets

1 real expensive real quick.

2 Not only do you have to have them on the
3 engines. Like I said, there's -- you got to
4 isolate your auxiliary equipment, whether it's
5 a fan, whether it's a pump. All of these have
6 mounts, vibration- and noise-canceling mounts
7 on them.

8 Why won't that work? All right. It's not
9 only that, it's everything. Your clamps, your
10 piping. Everything needs to be isolated.

11 Right here, this is the -- this is the
12 noise- and vibration-dampening system for the
13 stack. The stack is not fixed, so you've got
14 all of these -- they kind of look like the
15 shock absorbers on your car.

16 Everybody knows about prop noise and
17 cavitation and the noise associated with that.
18 That's the -- I think that's the SHIMADA's
19 prop. A lot of engineering design went into
20 that prop. A lot of testing of the hull with
21 Carderock. And if this works, I can -- do
22 you -- do you have to click on it?

23 VIRGINIA DENTLER: I might have to click
24 on it.

1 ADMIRAL BAILEY: The ship has four
2 hydrophones on it. What I'm trying to
3 demonstrate here is there's a prop cavitation.
4 And the ICES -- trying to meet the ICES curve
5 all the way up to 12 knots. They want it all
6 the way up to 12 knots.

7 (Sound played.)

8 ADMIRAL BAILEY: Pretty quiet. Hit the 11
9 knots. You can -- you've got to hit the
10 blue -- right there.

11 VIRGINIA DENTLER: Got to find my mouses,
12 too.

13 ADMIRAL BAILEY: Sorry.

14 (Sound played.)

15 ADMIRAL BAILEY: You can hear it starting
16 to cavitate. Then 12. It's off the charts.

17 (Sound played.)

18 ADMIRAL BAILEY: It's interesting that the
19 SHIMADA is dinging the prop. That's why we're
20 doing those testings.

21 So again, as I alluded to throughout the
22 presentation here, is what we started to do is
23 looking -- look at our acquisition process.

24 Unfortunately, the government is set up

1 the way it's set up. Annual budgets are hard
2 to work with sometimes. And when you're doing
3 longly timed buys, when you're doing
4 construction of facilities or for ships, it's
5 tough to package all of that into an annual
6 budget.

7 So there's always issues associated with
8 the planning process and the funding process,
9 and certainly the design process. Some of the
10 things that we were constrained by, we were
11 constrained by, you know, a common hull.

12 We had to stick with a common hull to
13 satisfy certain mission requirements. The
14 scheduling of funding, as I said, drove the
15 study approach.

16 Some of the ship operational
17 characteristics were based on historical needs
18 and techniques, things they knew, things they
19 liked. Didn't necessarily look at new mission
20 operational performance parameters.

21 So all of that kind of adds up to being
22 forced into a process that doesn't necessarily
23 give you success.

24 Also, on the cost-estimating side of

1 things, when you let a contract to a single
2 vendor with options and you do analogous cost
3 estimates, I mean, what are you drawing from?

4 You're drawing from the data from a single
5 vendor historical who not necessarily drives up
6 costs but doesn't have to pay attention to
7 costs as closely as you would want them to with
8 those options. So your cost estimating gets
9 very difficult.

10 We'd like to get into some sort of
11 parametric estimating method where we not only
12 look at analogous, we also look at what else is
13 out there, other hulls, other designs and so on
14 and so forth.

15 And the big thing that I'm really pounding
16 right now is the lifecycle costs, particularly
17 with these FSVs. I have no idea what these
18 things are going to cost to maintain in the
19 future, and we should know that up front.

20 You shouldn't get 10 or 12 years down the
21 road and find out what your lifecycle costs
22 are.

23 You can just look at those mounts and the
24 acoustic quietness -- we estimate the acoustic

1 quietness in other vessels are at least
2 \$10 million over the life of the vessel.

3 So do you want to build that into the NSV?
4 Is it worth doing that?

5 People tell me that the acquisition --
6 acquisition piece -- the acquisition design and
7 construction piece only is about 25 or 30
8 percent of the lifecycle costs of the entire
9 ship.

10 So the more time and effort and work you
11 put up up front putting bid specifications
12 together, good designs together, we'll get --
13 and I try to tell folks all time, if you do it
14 right up front, you actually might save tens of
15 millions of dollars down the road.

16 But that -- again, that's a tough argument
17 to make in a -- an annual budget cycle.

18 So this is not a revelation. This is a
19 type of design process. This is the one that
20 the Navy uses. The first two steps, we think
21 we can do most of that in-house. And then what
22 we'd like to do is go out for competition for a
23 contract design and then down-select from that
24 competition for somebody to do a detailed

1 design and construction.

2 One would argue the way we've been doing
3 it is we've never even gotten to detail design.
4 And we've been doing some of contract design
5 work on the fly, and it's cost us a lot of
6 money.

7 The FSV class had weight problems of
8 itself. We mitigated that with about a
9 \$750,000 change order, and then we had
10 additional weight problems with the
11 superstructure.

12 We had to go in and spend another
13 \$1.3 million on new design for the
14 superstructure, which equated to building
15 aluminum versus steel superstructure, which
16 cost us another \$650,000. It just goes on and
17 on and on if you don't do it right up front.

18 I think that's it. And that's my --
19 that's -- that's our new P3. I had to put an
20 airplane slide in there. You can see right
21 there, the aircraft was taken out of -- out of
22 mothballs and refitted up at INP in Halifax in
23 Canada, and they put a Canadian flag on it.

24 That is the same airplane plane right

1 there. Unfortunately, at 2:00 on a Sunday
2 morning, their fire suppression system went off
3 and dumped 22 feet of foam on our airplane, so
4 we got the cleanest airplane in the world.

5 Any questions?

6 ED WELCH: Thanks, Admiral.

7 Questions?

8 Larry Whiting.

9 LARRY WHITING: You mentioned AUVs.

10 ADMIRAL BAILEY: Yes.

11 LARRY WHITING: Can I talk about -- what
12 is this, this is a PDF ship recap plan that I
13 have here?

14 ADMIRAL BAILEY: Yes.

15 LARRY WHITING: How do you justify only 12
16 hours out of 36 of that thing moving -- being
17 down, when an AUV takes probably at least that
18 much more, 12 hours more, maybe even 24 hours
19 in between survey types?

20 Have you got a new AUV out there?

21 ADMIRAL BAILEY: Do we have a new AUV --
22 no, I'm not -- I'm not sure I understand the
23 question.

24 LARRY WHITING: In your analysis in this

1 thing, there's a comparison of AUVs to
2 contractor-supplied AUVs.

3 Maybe I misunderstand what you're talking
4 about.

5 ADMIRAL BAILEY: No, I --

6 LARRY WHITING: This is in your base
7 document.

8 ADMIRAL BAILEY: Yes, the -- the comment I
9 was making about AUVs is in the Phase II of
10 looking at the rest of the fleet, is to take
11 into consideration other assets, other
12 platforms like AUVs.

13 That was not done with Phase I.

14 GARY MAGNUSON: Which document are you
15 looking at, Larry?

16 ADMIRAL BAILEY: Is that the recap plan?

17 LARRY WHITING: You had some comparison.
18 I can't find -- that thing is 120 pages long.

19 ADMIRAL BAILEY: Yes, it's thick.

20 LARRY WHITING: And I can't find it now,
21 but I did go through it -- I'm sorry.

22 ADMIRAL BAILEY: They did address them,
23 but they did not do an analysis. They did not
24 compare AUVs -- AUV or a number of AUVs or

1 other small platforms versus a ship.

2 We did do that with the aircraft. We
3 looked at UASs. We did an actual analysis of
4 alternatives, an MPV analysis of UASs in
5 aircraft, but we did not do it with that first
6 phase, but we are going to do it with Phase II.

7 LARRY WHITING: Because I think that most
8 of the AUV operators out there will -- will say
9 that they have more downtime for a system,
10 possibly ten -- four years into the future
11 we'll have that better --

12 ADMIRAL BAILEY: Right. I think they're
13 coming of age, but they're not ready for prime
14 time. I think the report was probably written
15 before we lost the 6,000 in New London.

16 LARRY WHITING: And then there was -- in
17 your recap of the vessels, you alluded to a
18 charter service.

19 ADMIRAL BAILEY: Right.

20 LARRY WHITING: Now, does that mean you're
21 going to -- would be leasing the vessel or is
22 that --

23 ADMIRAL BAILEY: Those charter graphs
24 were -- each line can do whatever they want

1 with their money. I'm allocating a certain
2 amount of money, and I spread that money, that
3 O&M money across the fleet.

4 And if they need something beyond that
5 which I can provide, they'll charter. Most of
6 that is fisheries work, yes, near-shore fishery
7 stuff, although I believe NOS does a fair
8 amount of chartering, too.

9 Plus the fact there was -- there was
10 \$5.6 million allocated a number of years ago
11 when we decommissioned two of our global class,
12 our large vessels, and that's where a lot of
13 the UNOLS charter goes -- money goes, to
14 charter UNOLS vessels.

15 LARRY WHITING: I -- NSV-1, is that the --
16 that's the replacement.

17 ADMIRAL BAILEY: For the RAINIER, right.

18 LARRY WHITING: You have it down that it's
19 almost four times more cost-effective than a
20 charter.

21 What does charter read in that space? Are
22 you going to -- would you consider leasing a
23 vessel similar to the --

24 ADMIRAL BAILEY: They looked at charter

1 and -- they looked at charter and leasing
2 vessels versus keeping the -- they looked at
3 three things.

4 They looked at doing a service life
5 extension, they looked at charter or they
6 looked as replacement. And when they did the
7 net present value analysis on those three
8 options, it came out that they billed nine new
9 and do a service life extension on a KIAWANA
10 [phonetic].

11 LARRY WHITING: Okay. I was probably
12 misinterpreting what I was reading.

13 ADMIRAL BAILEY: Okay, yes.

14 LARRY WHITING: Because I read it on the
15 airplane down here. It was handed to me as I
16 left.

17 ED WELCH: Admiral West.

18 ADMIRAL WEST: You mentioned on your bill
19 problem -- is that a problem you've got to
20 compete for union sailors? Is that your
21 problem?

22 ADMIRAL BAILEY: We're both bound by the
23 same statute for hiring and pay-setting; and
24 actually, they're the pay-setting authority,

1 because they're the largest by far.

2 So we work with them and the unions to try
3 to maintain some parity.

4 And the reason that they did that is they
5 didn't want the federal agencies competing with
6 each other and one agency offering a lot more
7 money than the other and --

8 So they set it up that way, but they're
9 the 800-pound gorilla in the room. They're
10 pretty good about it.

11 I mean, but we looked at an example, we
12 looked at increasing shore leave. Our -- one
13 of our biggest complaints from our folks is
14 they don't get enough time off based on the
15 amount of time they spend at sea.

16 They look at the commercial guys, and it's
17 typically 40-60 or 50-50. So they wanted
18 increased shore leave. Of course for us, that
19 might not have been a dramatic increase in the
20 labor cost, but for UNOLS, it's -- for MSC,
21 it's huge. So they're not going to go there.

22 ED WELCH: Jon Dasler.

23 JONATHAN DASLER: Yes.

24 Just talking about attrition, the moving

1 of the civic marine center to Newport, do
2 they -- do you foresee that as being an issue?

3 ADMIRAL BAILEY: No. It was an issue for
4 the 60 folks on beach. It's probably safe to
5 say 55 of them didn't particularly like the
6 idea. Five were ambivalent or were happy.

7 But as far as the ship and the officers --
8 because what we did when we reconstituted the
9 staffing model is instead of assigning the wage
10 mariners to a ship, we told them they would be
11 assigned to a marine center, and then they
12 could pick a home record wherever they want.

13 But whatever home record they pick, they
14 have to pick the next closest marine center.
15 That allows us to fly them home, pay for a
16 ticket home every 90 days of deployment.

17 So I forget the exact numbers, but a fair
18 percentage of them don't even live in Seattle.
19 You could have folks on the East Coast staffing
20 ships on the West Coast.

21 They're kind of like MSC. They just go
22 wherever the ship is, and it's a condition of
23 employment with them anyway, so they're pretty
24 good about it.

1 JONATHAN DASLER: I'm not sure, is the
2 marine center, is that under the ORF or do they
3 have their own budgets for that?

4 ADMIRAL BAILEY: The marine centers?

5 JONATHAN DASLER: Yes.

6 ADMIRAL BAILEY: That's all the ORF stuff.
7 And, you know, we're -- we're scheduled to move
8 MOCP in July of '11.

9 ED WELCH: Other comments?

10 Admiral -- Virginia, can you go back to
11 the slide with the timeline for replacement of
12 vessels. I think you missed it. There you go.

13 I believe, Admiral, in our last meeting
14 when we saw slide or its predecessor, I think
15 if I'm recalling right in our letter to the
16 administrator with also comments and
17 observations, we expressed some concern about
18 the extended gap with the FAIRWEATHER down the
19 bottom.

20 ADMIRAL BAILEY: Right. Right.

21 ED WELCH: Can anybody remember if we put
22 that in our letter to the administrator? We
23 talked about it. We'll have to check.

24 Can you talk a little bit more about

1 what's happening there.

2 ADMIRAL BAILEY: With the gap portion?

3 ED WELCH: Yes.

4 ADMIRAL BAILEY: That gap -- originally
5 there were no gaps, but based on -- and again,
6 this is -- the previous administration approved
7 this. Got a new administration. We've only
8 funded one ship so far in this plan, and that's
9 been through ARRA, so things may change
10 dramatically here. I don't know for a variety
11 of reasons but the gaps were originally
12 established because of the funding profile that
13 was set up.

14 Nominally, to do this and close those gaps
15 is about seven \$75 million a year was
16 required., If you wanted to keep it somewhat
17 level-funded.

18 Price -- Lautenbacher at the time was not
19 willing to jump into this thing at the
20 \$75 million. He wanted to jump in 50 and kind
21 of ramp it up, and once you start doing that
22 you created those -- you create those gaps.

23 And this has got to be balanced with
24 everything else that NOAA does. They got a

1 \$2 billion satellite program so it was just
2 a -- it was a compromise that that was made.

3 I'm -- you know, gaps like that just, you
4 know, to me are unacceptable. I mean, what
5 you're saying is you don't need the vessel.

6 ED WELCH: Well, that's exactly right,
7 because a gap, to me, implies there's an end
8 date, there's an interim date -- I mean there's
9 a gap period and then there's a start date.

10 ADMIRAL BAILEY: Right.

11 ED WELCH: But there's no start date on
12 this. This is a gap that goes to the end of
13 the plan.

14 ADMIRAL BAILEY: Well, that's a bit
15 misleading, because the plan ended at '24.
16 It's supposed to be a seven year gap when you
17 go to Phase II which picks up at '25, you'll
18 see that gap will end.

19 ED WELCH: Well --

20 ADMIRAL BAILEY: But you're right. It's
21 not represented.

22 ED WELCH: Well, Phase II doesn't even
23 exist yet. So to me, that's not a seven-year
24 gap. That's an end.

1 And if I might make an analogy to some
2 folks here, this looks like to me as far as
3 your hydrographic ships, you're getting in the
4 same position as the Coast Guard has gotten
5 with their -- with their icebreakers.

6 And all of a sudden -- and they -- they
7 let things go. It was a major capital expense.
8 They couldn't come up with the political clout
9 or the justification, and so let the
10 icebreakers go. They even left -- they even
11 decommissioned one, and now they're having to
12 spend got knows how much money to recommission
13 decommissioned 40-year-old ice breaker because
14 all of a sudden the Arctic is a big thing.

15 And I would encourage the current
16 administration to look at this, particularly in
17 light of the presentation that was made earlier
18 that was talking about one of the emphases of
19 NOAA is going to be infrastructure.

20 Well, this is about as much infrastructure
21 as anything is, and you've got a glaring gap
22 that's more than a gap on one of your two main
23 hydrographic ships.

24 That just looks very worrisome to me.

1 ADMIRAL BAILEY: I agree. I expressed my
2 concern just as recently as a couple of days
3 ago, that if you keep pushing things to the
4 right, you're starting to line up design
5 activities, construction activities, delivery
6 activities.

7 And if the workforce is not there -- this
8 is a very well choreograph -- all those major
9 repair periods are very well choreograph. You
10 got to hit those at the right time or --
11 because if you're going to extend everything,
12 then you got to put more money, and the MRPs
13 extended beyond that which you've already
14 designated as a service life.

15 So it does -- it starts getting into a
16 point where it's just unmanageable and you just
17 reconstitute the thing.

18 Don't really want to go down the road
19 because to the best of my knowledge, this is
20 the first recap plan that's ever made it
21 through an OMB.

22 ED WELCH: Any other comments?

23 John.

24 JONATHAN DASLER: Yes.

1 I guess just to -- questions about the
2 acoustically quiet ships.

3 I'm assuming this is for -- for a better
4 signal-to-noise ratio with sonars, is the
5 primary reason, is that --

6 ADMIRAL BAILEY: I believe. I don't have
7 anybody from fisheries here. I don't want to
8 mischaracterize what they're doing, but I think
9 their ultimate goal is to be able to measure
10 the marine resources, the biomass, without
11 putting instrumentation in the water.

12 JONATHAN DASLER: So that's just --

13 ADMIRAL BAILEY: Necks in the water.

14 But they've shown with some of the
15 vessels -- they do comparative tows with the
16 older vessels like the FREEMAN and newer
17 vessels like the DYSON, and they've actually
18 got some evidence that the more acoustically
19 quiet vessels aren't scaring the fish as much
20 as the other ones, so -- but it's -- it's at a
21 price.

22 JONATHAN DASLER: Right.

23 So that's not -- I guess I was thinking
24 that was for the NOAA survey vessels, but --

1 ADMIRAL BAILEY: See, that's the thing.

2 They get into this multi-mission thing, and
3 they want to be able to go fishing with them.

4 So do you want to pour 10, 15, whatever
5 the number is, million dollars into
6 acoustically quiet vessel that's going to fish
7 30 days a year, not to mention the fact I'm a
8 little concerned that you hang too many
9 ornaments on his Christmas tree, you're going
10 to break its back.

11 ANDY ARMSTRONG: And that's one of the
12 things I would offer to this group, is two
13 dozen NSVs are going to replace a hydroship.

14 There's no longer going to be an
15 exclusively designated hydroship, one would
16 argue.

17 JONATHAN DASLER: Because a lot of the --
18 like the RAINIER, for example, the big gun, I
19 mean, most of survey work is done by the
20 launches.

21 ADMIRAL BAILEY: Right. And that's why I
22 kind of put the brakes on the NSV study, to
23 take a harder look at the requirements and see,
24 you know, the 66 requirements were thrown on

1 the table and said put this on a ship. The
2 ship was about -- in a conceptual world is
3 about 300 feet, and we're not going to build a
4 300-foot ship.

5 Can't -- first of all, can't get the money
6 for that. And then the O&M will eat you alive,
7 but does it really need to be that big?

8 So that's why we're taking a harder look
9 at the NSV requirements, acquisition, strategy,
10 design and so on and so forth.

11 I'm only funded -- I got -- I think I got
12 3 million in '11 to do the design work.

13 JONATHAN DASLER: So I guess that said, in
14 terms of multi-mission, have they thought about
15 putting survey launches on the fishing vessels
16 and making those survey launches or survey
17 vessels?

18 ADMIRAL BAILEY: Want to answer that,
19 Gary?

20 GARY MAGNUSON: No, they haven't.

21 ADMIRAL BAILEY: What the recap plan has
22 demonstrated is there's a whole heck of a lot
23 of work -- requirement is about 120 sea days a
24 year that NOAA could do if given the assets to

1 do it.

2 Back in 1980 there were nine. I think
3 there were nine hydrographic survey vessels.
4 Three -- well, there's supposed to be four.
5 Back then, there may have been four or five
6 fisheries vessels. That whole thing has
7 flipped. There's ten boats, ten ships
8 designated exclusively to the fishery research
9 right now, fisheries, mammals, so on and so
10 forth.

11 ED WELCH: Any other questions?

12 SHERRI HICKMAN: What's the size of the
13 new vessel?

14 ADMIRAL BAILEY: Which one?

15 SHERRI HICKMAN: The --

16 ADMIRAL BAILEY: The fishery survey
17 vessel?

18 SHERRI HICKMAN: No.

19 ADMIRAL BAILEY: The NSV?

20 SHERRI HICKMAN: Yes.

21 ADMIRAL BAILEY: We don't know.

22 SHERRI HICKMAN: What's the length of it?

23 ADMIRAL BAILEY: We don't know. He's kind
24 of -- I'm using this report to Congress to --

1 what we're telling them is here's some
2 background. Here are the requirements. Here
3 are the lessons learned over ten years of
4 constructing fishery surveying vessels and
5 HASSLER.

6 Here is the way we did it in the past.
7 The acquisition strategy we used, here's the
8 money we put towards design, contract design,
9 detail design and so on and so forth.

10 Here's the way the industry does it, and
11 here's the way we'd like to do it.

12 I can't ask for money. But what I'm
13 trying to demonstrate to them is what the value
14 of putting a little more money up front to do
15 the types of analysis that need to be done to
16 get a ship designed and constructed properly.

17 None of the five vessels that we just
18 taken ownership of, none of them were delivered
19 on time.

20 Like I said, HASSLER is almost two years
21 late. And one can easily point the finger at
22 Halter. It's not all Halter's fault. We're
23 somewhat guilty in that regard, too, and then
24 that's why I'm trying to switch it.

1 I don't want to jump into building six new
2 survey vessels and get into the situation that
3 we're in now. And FSV-5 is supposed to be its
4 own class of ship, too.

5 And I explain to folks that you build one,
6 you build a hundred. The first one, you got to
7 take the time to do it right.

8 JONATHAN DASLER: So if you were going to
9 ask the HSRP for a recommendation or if we were
10 to consider a recommendation for the ship
11 recapitalization, I guess one of the things I'm
12 getting out of it is maybe more effort needs to
13 be spent up front on design.

14 ED WELCH: Yes.

15 JONATHAN DASLER: I'm trying to get this
16 into how we could table this into a
17 recommendation to help this process.

18 GARY MAGNUSON: Yes. The HSRP based on
19 Admiral Bailey's presentation is he's concerned
20 about NSV-1 and NSV-7, RAINIER and FAIRWEATHER
21 replacement such that we don't want to repeat
22 the same problems that we saw with the fishery
23 survey vessel and HASSLER, and we want to make
24 sure that those two NSV vessels are designed to

1 do what the hydro folks need them to do.

2 And then I'll hand them my retirement
3 letter. I don't know if they're going to be
4 happy.

5 No. Again, it's a totally different
6 administration. That's what we're working
7 with. Lautenbacher was -- the guy spent 41
8 years in the Navy. He knew infrastructure. He
9 knew you had to replace this stuff. He's a
10 process guy.

11 And now we've got a new administrator, and
12 she's focused in on other things, not to say
13 that that's wrong, but sometimes we need folks
14 like you to kind of nudge her a little bit and
15 say this stuff is important from our
16 perspective and here's why.

17 ED WELCH: Okay.

18 Admiral, thanks very much for your
19 presentation. We'll be in further
20 communication with you

21 ADMIRAL BAILEY: Okay.

22 ED WELCH: We're going to move now on --
23 Jill, we've got a real Washington NOAA acronym
24 here, "IOOS."

1 So we're going to be talking about
2 Integrated Ocean Observing Systems, and Jack
3 Harlan is going to be making that presentation
4 for us.

5 JACK HARLAN: I'll make one correction.
6 We're not going to be talking about IOOS.
7 We're going to be talking about HF radar.

8 That's what I do and what I am here to
9 talk about.

10 ED WELCH: All right. We'll strike off
11 "IOOS," and we'll go to --

12 JACK HARLAN: I'm the manager for the HF
13 Radar National Network, and that's what I am
14 going to focus on here.

15 This is more of a technical presentation,
16 a little bit different from what you've heard
17 today so far.

18 We're pretty late, and I don't normally
19 give a briefing on HF radar in 25 minutes, but
20 I will try.

21 So I may just skip some slides here.

22 ED WELCH: We've got some time devoted
23 towards the end of the day towards some of our
24 activities that we can -- we don't want you to

1 cut yourself short. Make the presentation you
2 want to do.

3 JACK HARLAN: I understand.

4 So HF radar actually for oceanographic
5 applications was invented in NOAA in the
6 research labs back in the '70s, so you might
7 say it's a mature technology.

8 There are three or four companies in the
9 world that provide them, and so it has a lot of
10 applications. This is kind of just a
11 background. This is the basic take-home
12 message, if nothing else.

13 There are some critical applications
14 where it can be used. You get hourly,
15 near-realtime service currents maps of them
16 with relatively high resolution, actually less
17 than a kilometer to about 6 kilometers, and
18 they are small, compact systems generally that
19 are relatively low maintenance and autonomously
20 run.

21 So what under the IOOS banner we're doing
22 is developing a data management distribution
23 system for the data but also managing all the
24 radars themselves and the people who supply

1 those radars.

2 I should say a little bit about myself, I
3 guess. I'm actually a technical guy. I have a
4 doctorate in aerospace engineering, but I've
5 been working in radar for about 20 years, HF
6 radar pretty much full time.

7 Actually go all the way back to the early
8 '80s when this was developed in NOAA.

9 So I was brought into NOS several years
10 ago, worked for Rich Edwing and Mike Szabados.
11 We did a lot of groundwork within CO-OPS for
12 establishing this network.

13 And as it's evolved slowly through the
14 last few years since IOOS became an actual
15 program, we've pretty much carried on those
16 same activities but just in a little more --
17 gotten a little bit more focused now.

18 So just an outline. Okay, background. We
19 did that.

20 Talk about what's out there now, the
21 products that come out of it and some
22 applications and where we're going in the
23 future.

24 What are these things?

1 Well, they are small antennas. This is a
2 transmit antenna. You can see there's our
3 standard size person there next to it, and that
4 gives you an idea of how big it is typically.

5 That's just a transmit antenna. There is
6 a receive antenna there.

7 Actually, right now these are called CODAR
8 systems. That's an acronym. But there's a
9 company that actually is called CODAR Ocean
10 Sensors who evolved from the NOAA labs back in
11 the '70s.

12 Very small footprint on these. There's a
13 typical enclosure. Sometimes you do need a
14 little shed, though, depending on the
15 situation. That was in Southern California
16 there, and so the weather being what it is, you
17 don't need a whole lot of infrastructure for
18 weather.

19 How it works, well, I guess I would say
20 very well. I'm not going to go into the
21 technology too much, but it has some pluses, as
22 you can see.

23 You can operate in any kind of weather.
24 It goes well beyond line of sight up to 250

1 kilometers from shore. Very low power, so
2 there aren't any issues with radiation. And,
3 like I said, it's a mature technology.

4 We have problems on the minus side:
5 Interference from other radars or other users,
6 actually. Usually not a radar. Usual from
7 radio

8 And you do need to have pretty much water
9 that is deep enough that is -- it's just half
10 the radio wavelength, so usually you're talking
11 about few meters in depth or more.

12 Interference is a problem, and we're
13 working on getting permanent licenses so that
14 isn't a problem. And waterway nonlinearities,
15 which I'm not going to get into, frankly.

16 So there are two basic kinds of radar.
17 Ninety-five percent of the ones are the small
18 ones, like you see on the left side there.
19 There are a handful of larger ones that
20 comprise these larger rays. But, as I said,
21 only a handful or so of those.

22 What we've got is basically for the data
23 distribution, there are portals, there are
24 nodes and there are sites. Sites feed into the

1 portals. Portals feed into the nodes, and
2 although acronyms there are a bunch of academic
3 institutions where we have portals, because --
4 the reason is, is that those institutions
5 supply nearly every single one of the radars in
6 existence.

7 NOAA has about four of them, which are
8 owned by CO-OPS, and those are part of the
9 network, at least one of them is right now in
10 the Chesapeake Bay area. But mostly we have 29
11 institutions with over 100 sites that have been
12 identified.

13 Typically 80 to 90 of those are running.
14 Since they are research radars, they go up and
15 down as the PI sees fit, so that's what we're
16 dealing with. We're dealing with a
17 research-to-operations situation.

18 Radar specs. For some of you, this may be
19 of interest. Resolution is on the order of a
20 few centimeters a second. Range, as I was
21 talking about, resolution from less than a
22 kilometer to 6 kilometers.

23 And you can -- depending on how you
24 process the data, you can get hourly or

1 20-minute updates, depending on what you're
2 interested in.

3 And, as I said, 200-plus kilometers is not
4 uncommon. We're conservative usually. We say
5 about 150 kilometers.

6 And the accuracy is on the order of five
7 to ten centimeters a second, depending on what
8 kind of timescales you're talking about.

9 Surface current speed is actually one of
10 the easiest things to measure in HF radar. As
11 you go down, it gets harder to measure wave
12 parameters. You can measure wave heights to
13 some extent, and that's something that is
14 likely to be coming along here.

15 It's probably hard to read this, but this
16 is basically the number of radar sites over the
17 last -- well, from 2004 to 2008. You can see
18 there is a rapid increase in the number of
19 radars in the US.

20 And the reason I don't go any further is
21 because that's pretty much a straight line
22 right now. It's pretty much capped off there.
23 And a lot of that growth, at least 30 of
24 those -- actually maybe 40 or more -- are

1 because of the California -- State of
2 California COCMP program that was devoting
3 \$21 million to HF radar for coastal ocean
4 monitoring.

5 And as those sites came into the network,
6 it obviously made it grow very rapidly.

7 So looking at this nationally, I did have
8 a link here to go to one of the servers. I
9 don't know, should we risk doing that? Is that
10 an idea? We can -- want to try it?

11 Okay. When the map comes up, click it.
12 Go ahead and just zoom if -- if you could --
13 you know, you can just push that around.

14 VIRGINIA DENTLER: Okay. Where do you
15 want me to go?

16 JACK HARLAN: May as well go down to the
17 Gulf Coast. Yes.

18 Over the past week, I've been involved in
19 getting three radars up and running down there.
20 They were taken offline because of a beach
21 nourishment project.

22 And so over last weekend, a bunch of
23 people were working on their crew of about
24 three people, actually, but working long hours

1 into the night to try to get everything up and
2 running.

3 I had to get special permission on a
4 short-term there.

5 So anyhow, there are a bunch of vectors
6 there. The radar, right now we get probably on
7 the order of 60 to 100,000 vectors every hour
8 from around the country.

9 And we are -- there are radars all over
10 the place, as I said, so there's actually three
11 there.

12 If you go down and click that -- if you
13 move your cursor down below the map, it says HF
14 radar sites. There's a little box to the left.
15 There you go.

16 Anyhow, you'll see there are three in the
17 West Coast of Florida, and then the three that
18 I just mentioned that were just put in.

19 And those data are going into the OR&R,
20 that is our Office of Response and Restoration,
21 to their trajectory forecasts.

22 If you pull one of those up on the Web or
23 if you see one somewhere, it will say that HF
24 radar data was used in that forecast.

1 So those are our two main applications, if
2 you will, spill response and Coast Guard search
3 and rescue.

4 Coast Guard is now using HF radar
5 operationally on the East Coast in the
6 Mid-Atlantic since last May, so it's been just
7 about a year now.

8 So anyhow, that's -- that's just -- we can
9 go back to the -- to the brief here. Okay.

10 Anyhow, that's a static picture just in
11 case we couldn't get to the website.

12 So as I said, we -- what we're doing here
13 is leveraging about \$60 million in investment
14 over the last -- these radars have been out as
15 long as from the early '90s, so some of them
16 are getting pretty old, but -- so it's probably
17 a ten-to-one ratio, the amount that NOAA has
18 put in, or IOOS has put in, sorry. Most of the
19 money has not come from IOOS.

20 As I said, it's probably ten to one or
21 twenty to one. So you're probably familiar
22 with IOOS a little bit. You got to use 11
23 regional associations or regional coastal
24 observing systems, including the Caribbean and

1 Alaska and the Pacific islands, mainly Hawaii
2 and the Great Lakes, as well as our CONUS area.

3 We can talk all day about those, but this
4 is a static from Google Earth of the sites that
5 we now nominally have. This is fairly
6 accurate.

7 The red or the different-colored circles
8 indicate the type of radar. That is, some of
9 them go out further from the coast than others,
10 and you'll see down in the Gulf Coast there we
11 have those blue ones which can go out 150 or
12 more.

13 I know for a fact that those systems are
14 going well out beyond that. So the yellow ones
15 are like 45 kilometers, kind of our standard
16 systems. The red ones --

17 The only ones that we have in the US right
18 now are in San Francisco Bay, and they're just
19 within the Bay because they're only used for
20 those kinds of environments.

21 So we did a gap analysis. We had all the
22 regions kind of put their wish list together
23 and also looked at their needs, and you can see
24 they tried to come up with where they would put

1 new radars if they had them.

2 And you can see the Gulf Coast was really
3 missing quite a few there. But even so,
4 there's a place where you don't see a gap and
5 there should be now, because the radars that
6 were there were defunded by Texas General Land
7 Office, who had been funding them, and it was
8 100 percent cut.

9 So those radars actually aren't there, so
10 there would be even more needed down in the
11 Gulf.

12 But putting anything on the coastline down
13 there is really difficult, and so if we could
14 put in half that many, we'd be happy.

15 Now, if you go to CODAR, for example, and
16 buy a radar, this is what you'll get for a
17 standard system. It's a single pole, so it's
18 much easier to find a place to put it.

19 And when you're working on coastal areas,
20 you can imagine high real estate costs, people
21 don't want radars and posts in their view shed.

22 So the smaller you can have something to
23 put out there, the better. And so now we have
24 a system that's single-pole. So I'm looking

1 forward to replacing a lot of the old ones as
2 they -- as they need to be with these new ones
3 if -- or putting in new ones that are like
4 that.

5 It just makes permitting much, much
6 easier, and permitting is the longest part of
7 putting in a radar.

8 So applications, as I said, search and
9 rescue is up there and spill response. Those
10 are our two main groups that we work with I
11 have been for many years now, but a lot of
12 other things, harmful algal bloom forecasts and
13 simply modeling, just improving our knowledge
14 of how circulation is working.

15 You don't see marine navigation up there.
16 Oh, yes, I do. There it is. All right.

17 Actually, can you try clicking on that top
18 link? See if this works.

19 Long Beach Harbor, the Marine Exchange out
20 there worked with a regional association out
21 there, and they were already working with the
22 so-called CEDA program, with the wave buoys,
23 and said we'd like something simpler that's
24 more integrated. And this was the shipping

1 industry out there saying we would like -- I
2 probably have the wrong link. It's totally
3 blank. I'm sure it's not down.

4 There's always all sorts of -- okay.
5 There's the legend. Anyhow, you can choose all
6 sorts of different things. You have the
7 shipping lanes and nautical charts you can pull
8 up underneath it. And don't ask me too much
9 about what thought call charts they are,
10 because I couldn't tell you.

11 So anyhow, it's an integrated product that
12 was actually basically designed and asked for
13 by the Marine Exchange out there. It wasn't
14 the other way around.

15 So they said okay, we'll try to do it in
16 Southern California. SCOOS was able to put
17 that together with them fairly rapidly.

18 So you can get the radar data on here.
19 You can get all sorts of wave information. I
20 think you even might have -- well, you do
21 have -- you have wave -- yes, all the nominal
22 wave parameters.

23 And I'm not sure what all else is in
24 there. But anyhow, it's just an example of

1 several products we have. Okay. Let's go on.

2 So one thing that CO-OPS has been doing is
3 putting together a title --

4 VIRGINIA DENTLER: Did I do that.

5 JACK HARLAN: Yes, could you go back?

6 I'll go back. That's underway, where you'll be
7 able to get a tidal chart for -- you can pick
8 out any one of those points within that big map
9 of surface currents and look at tidal
10 velocities for a particular point, and that's
11 still, to my knowledge.

12 Let's see. Some of these are just really
13 costly situations where HF radar came into play
14 and helped out quite a bit.

15 In California where they have -- obviously
16 beaches are very important out there, and they
17 had to move some wastewater pipes, so they
18 coordinated with the folks that provide the HF
19 radar data out there to do some -- to time it
20 properly to do the least damage.

21 So Deepwater Horizon spill, as I said,
22 I've been working on this since it happened.

23 And the radars came online Friday night.

24 That's -- the red symbol there is the Deepwater

1 Horizon.

2 So we've got pretty good coverage there.
3 No complaints so far.

4 As I said, spill hazmat is using this
5 constantly now operationally. And this is just
6 a static picture of that previous product I was
7 showing you just in case we couldn't get to the
8 website. That shows the nautical charts.

9 And another example, as I was talking
10 about, where they had to basically cut this
11 pipe open and start the spilling out wastewater
12 a mile from shore instead of 5 miles from
13 shore, which got people pretty excited, and so
14 it was actually a huge success with --

15 I was there at a meeting when the head of
16 the wastewater department out there was just
17 ecstatic about how well this went because it
18 could have been his job, possibly.

19 So for search and rescue, this is kind of
20 a -- gives you an idea of the improvement that
21 you can get when you use radar.

22 This is some simulations that were done
23 prior to them going operational. And in the
24 top right there, you see basically the spread.

1 The colors just indicate after a certain number
2 of hours. But without using HF radar, you have
3 this huge search area to do.

4 I mean, it's most of the State of New
5 Jersey. And then in the bottom, that's
6 really -- with the radar, the area is much
7 smaller. And in the -- I think that's 24 hours
8 in the green area. Maybe six hours. I'm
9 sorry.

10 But it's -- nonetheless, it's a much
11 smaller area any way you look at it. So Coast
12 Guard is completely signed on to using this
13 data whenever it's possible.

14 One of the big things that I spend a lot
15 of time doing was just trying to -- we're
16 working this international process, trying to
17 get transmit licenses, because we're using
18 frequencies on a not-to-interfere basis, and
19 that's just not a way to do operations.

20 So it's been quite a process and it's got
21 many hoops and we're still underway, so we got
22 our fingers crossed on that.

23 We -- when we were putting the data
24 management together, we used standards that

1 have been accepted generally. They're open
2 standards. Basically it's the adopt, adapt or
3 create, so hopefully you can adopt one or adapt
4 an old one or as a last resort create one.

5 So two years ago, I convened a panel to
6 create a national plan for taking HF radar to
7 operations, and basically that plan was
8 released last September. It's available at
9 that website, at our IOOS.gov/hfradar, and it
10 goes pretty much soup to nuts, the whole
11 9 yards, if you will, as to how you might do
12 that.

13 What else is going on this year is that --
14 second to the last bullet is that we're strike
15 to take the thing they're doing on the
16 Mid-Atlantic coast and take that to the whole
17 country to provide that search and rescue
18 product for the Coast Guard, so there's a small
19 amount of money available, and that's underway
20 or will be underway soon when we get our FY10
21 funding out to the regions.

22 Last thing, there was a Small Business
23 Innovation Research award that was just
24 announced about a week or so ago. So we -- the

1 folks that submitted the proposal won the award
2 and just -- and in a nutshell, it's -- you
3 can -- to do attendant [phonetic] calibrations
4 is really important for your radars, and
5 there's a way to do that, they think, with --
6 using the AIS system as a target, a hard
7 target.

8 So this -- and this is just a schematic
9 cartoon of -- give you an idea of the search
10 and rescue product. It's a lot of moving
11 pieces, as they say, and it's all over the
12 country.

13 A lot of the work is going on at SCRIPPS.
14 That's SIO on the lower left there. Rutgers
15 has a role. ASA is Applied Science Associates,
16 and University of Connecticut, and of course
17 the US Coast Guard, that's their environmental
18 data server there, so --

19 And our partners at the National Data Buoy
20 Center as well. So just all -- a lot of moving
21 pieces, but a lot of very willing participants.

22 So again, this is just the same slide we
23 saw at the beginning and reiterating some of
24 these things. It's been around for a long time

1 and pretty much works, so I think that's where
2 I'll stop.

3 ED WELCH: Okay, Jack, thank you.

4 Comments, questions?

5 Andy McGovern.

6 ANDY McGOVERN: Thanks.

7 Quick question: Has there been any
8 studies done -- I see where the HF -- it's
9 great at giving the surface currents, which is
10 good for search and rescue and spill response;
11 but navigation, a lot of times it's the current
12 below the surface may be different.

13 Has therein been a study with, let's say,
14 an ADCP and HF radar run together and linking
15 the two just to get a relationship between,
16 let's say, at that point between surface and
17 water column currents?

18 JACK HARLAN: Well, that's always going to
19 depend on the circulation of that particular
20 place. They could be calling this -- it's all
21 sort of relationships, right?

22 I mean, so yes, I mean, there have been;
23 but, you know, the radar only sees, if you
24 will, the upper approximately one meter, three,

1 you know, or so of the flow.

2 So beyond that, no, you know, you don't
3 know.

4 ANDY McGOVERN: I guess my question is
5 could you -- because the HF obviously takes a
6 much larger area, if you did enough studies
7 between the relationship, could you now cast
8 based on the surface current what's going on
9 below it on a normal day?

10 JACK HANLAN: I see what you're saying,
11 but it would have to be site-specific, I think.

12 ANDY McGOVERN: Oh, yes, definitely.

13 JACK HANLAN: Oh, sure. Sure, yes.

14 And there have been, like I said, some
15 studies on that, but it would have to be very
16 site-specific.

17 ANDY McGOVERN: As I understand, it would
18 be a lot easier to maintain. ADCPs are
19 maintenance -- not necessarily nightmares, but
20 they have to be cleaned, where this is --

21 JACK HANLAN: Yes.

22 ANDY McGOVERN: -- easier.

23 Once you did the studies, then you tend to
24 be done.

1 JACK HANLAN: Yes, I think you could.

2 But -- well, there's some technical challenges
3 there in terms of, you know, when some of your
4 shallow areas are so shallow that there's all
5 sorts of nonlinear effects and turbulence
6 and -- I don't know.

7 I can see the hydrodynamic challenges
8 there, you know, but it's doable.

9 ED WELCH: Jon Dasler.

10 JONATHAN DASLER: Yes.

11 Do you collect backscatter reflectivity?

12 You mentioned water qualities. I don't
13 know if that means you're just tracking the
14 currents or if you're getting some kind of
15 reflectance on that.

16 And if so, do you think there's the
17 ability to track slicks and oil with HF radar?

18 JACK HANLAN: No. That was only meant
19 to -- water quality in the sense of telling
20 the -- you know, anything that floats in the
21 water we tell you is surface current.

22 Anything floating, whether it's a person
23 or garbage or whatever, we can help with that.

24 But no, the reflectivity, if you will, is

1 basically unchanged by the water quality or the
2 water changes.

3 Only when you get into very slow salinity
4 areas, like the Great Lakes, for example,
5 that's when you're going to have some
6 attenuation that the range is going to be
7 really -- really degraded.

8 JONATHAN DASLER: It will be interesting,
9 I guess, if you get a big enough slick within
10 the range, because I wouldn't suspect you'd see
11 some change on a large slick.

12 JACK HANLAN: Yes, it shouldn't.

13 In fact, if you do the math, the current
14 waves we're measuring on the order of 10 meters
15 in wavelength.

16 So in theory, you should actually get
17 better propagation because your wave becomes
18 more sinusoidal rather than cussant and have a
19 nonlinear wave, so you could actually get even
20 more perfect -- I mean, if the sea were a
21 perfect sinusoid, you know, we'd have perfect
22 radars, but it's not, so we --

23 JONATHAN DASLER: You also mentioned
24 difficulty in siting.

1 Is there much bandwidth required at these
2 sites or is it relatively low?

3 JACK HANLAN: In terms of frequency?

4 JONATHAN DASLER: Well, just transmitting
5 data off whatever, a site -- I'm assuming you
6 can't use something like QoS --

7 JACK HANLAN: Yes. In terms of that kind
8 of bandwidth, yes. Communications bandwidth,
9 yes. You need high-speed Internet really
10 anymore. You need a high-speed -- although we
11 have now -- we have everything from radio
12 modems to cell modems, regular old landlines,
13 satellite communications and hard cables, and
14 so everything is possible.

15 Whatever is best, you know, we'll use.

16 JONATHAN DASLER: There's a lot of
17 platforms out in the Gulf --

18 JACK HANLAN: Yes.

19 JONATHAN DASLER: -- where I guess
20 visibility isn't so much of an issue.

21 JACK HANLAN: Yes. There are a lot of
22 challenges working on the oil platforms, and
23 that's another half hour. It's -- we've tried
24 that.

1 ED WELCH: Other comments?

2 Andy?

3 ANDY ARMSTRONG: Will these work from a
4 ship or do they have to be absolutely still on
5 the land?

6 JACK HANLAN: That's a good question.

7 There have been studies not that long ago,
8 within the last few years, from -- ONR funded
9 some studies, just relatively recently, and
10 it's -- it's real tough, but it's -- it may be
11 possible.

12 I -- you know, I wasn't involved the
13 study, obviously, but it's -- it may be doable,
14 but it's going to be hard.

15 ED WELCH: Anyone else?

16 Do I understand you correctly that for
17 most of these sites, some entity other than
18 NOAA is putting up the majority of the funding?

19 JACK HANLAN: Absolutely, yes. Almost all
20 of them.

21 ED WELCH: Okay.

22 So while NOAA has been involved in the
23 technology development and the promotion and
24 uses the data that's generated by these or can

1 use the data, you're not really -- it's not
2 really a budget -- doesn't have a big budgetary
3 implication for you.

4 JACK HANLAN: No, no. It's a huge
5 leveraging, as I said, yes.

6 Like I said, about \$60 million we
7 estimated last year had probably been put into
8 HF radar over the last 18 years or so.

9 ED WELCH: Is the Coast Guard funding some
10 of these?

11 JACK HANLAN: No, none.

12 ED WELCH: They're using it, but they're
13 not funding it?

14 JACK HANLAN: Yes. Generally they don't
15 fund.

16 ED WELCH: Sounds like the Coast Guard.
17 I'm sorry. I shouldn't say that.

18 JACK HANLAN: Yes.

19 ED WELCH: Okay, good. Thank you.

20 Excellent.

21 All right. We've come to the part of the
22 program where we've got some time for public
23 comment.

24 Kathy, did you give me the list or do you

1 want to --

2 KATHY WATSON: Right here.

3 We're going to start with Bob Hamilton
4 with the Woods Hole Group.

5 Is he still here?

6 BOB HAMILTON: Right here. Where do I go?

7 ED WELCH: Why don't you go up there.

8 BOB HAMILTON: Thank you for the
9 opportunity. I will be brief.

10 Again, Bob Hamilton with the Woods Hole
11 Group.

12 I just wanted to take this opportunity to
13 brief you on a local initiative that's taking
14 some time, but our hope is to put another dot
15 on the NOAA PORTS map some day.

16 We're a company that's involved -- we're a
17 contractor to NOAA, CO-OPS. We do a lot of
18 current data collection. We service a lot of
19 the PORTS equipment on the West Coast, Gulf
20 Coast, and here on the East Coast, and a few
21 years ago took it as sort of a personal
22 initiative to fill a conspicuous absence in the
23 PORTS network, that being Boston and some areas
24 in the Northeast. It's interesting to us

1 there's not a PORTS system in Boston.

2 So a few years ago we started working with
3 a group of local stakeholders, including the
4 pilots, the Boston Pilots, including some of
5 the elected officials, including some of the
6 environmental organizations.

7 We worked with some folks to host some
8 workshops where we would have prospective users
9 of the PORTS data in Boston and the vicinity,
10 come to a number of workshops, define what
11 types of data might be most usable in the
12 region.

13 We actually extended those workshops
14 throughout to the north, through New England,
15 up through Maine to get sort of informal advice
16 from a number of folks on the types of data
17 they'd like to see.

18 This was done cooperatively with some
19 folks from NOAA, of course. And as you
20 imagine, the wish list came back pretty big.
21 So we went back and sort of collectively tried
22 to do some prioritizing, worked with some folks
23 at NOAA to define what a Boston PORTS might
24 look like and that, again, became maybe bigger

1 than a Boston PORTS.

2 And subsequently have had some follow-up
3 discussions with folks on trying to implement a
4 program. I'd say this to you today, just to
5 let you know, that hopefully this will be
6 coming forward and it's something that you'll
7 see as reality some day.

8 As you're aware, there are certain
9 challenges associated with the funding of
10 PORTS, whether it's the installation or the
11 ongoing operation and maintenance.

12 So where we stand right now is where we're
13 building sort of a local coalition of
14 stakeholders who have a vested interest. And a
15 few small victories along the way, some small
16 progress but no victory as of yet.

17 I guess the reason I'm sharing this
18 information with you is so you know that it's
19 going on. We hope to have an expanded network.
20 To the extent that you see any activity on
21 this, obviously the local stakeholders are
22 looking for support.

23 And our short-term goal is to build enough
24 stakeholder interest so we can formally request

1 NOAA to come in and do the user-needs
2 assessment that would then go to funding.

3 So that being said, it's just a simple
4 update on some local activities in the spirit
5 of this being a regional meeting. And
6 hopefully some day we'll have good news that it
7 will be on a website and there will be data
8 that are being used.

9 That's all I have. Thank you.

10 ED WELCH: Thank you, Bob.

11 Do you have any observations as to why
12 there's a -- Boston has not had a PORTS up to
13 now?

14 Is there any conclusion you came to as why
15 it was omitted in the system?

16 BOB HAMILTON: I guess the simple answer
17 is initially lack of awareness, frankly. So
18 that part of the education process is still
19 going on.

20 I think the basic reason, the simple
21 answer is lack of funding, and it's probably as
22 simple as that.

23 ED WELCH: Who are some of the
24 officeholders that you're working with.

1 BOB HAMILTON: Officeholders?

2 ED WELCH: You said political officials?

3 BOB HAMILTON: Right. So Congressman

4 Delahunt is the primarily -- his office is

5 primarily behind the initiative. They're very

6 supportive. He's actually exiting his office

7 this fall, so we're in the process of looking

8 for some additional --

9 Well, "we." There's a stakeholders group

10 in the process of looking for additional

11 support there. But they definitely stepped up

12 and helped coordinate the users meetings that

13 we had to define the needs. But now it's a

14 matter of taking it to the next step.

15 There was one small victory -- it's

16 probably debatable whether you consider it a

17 victory or not.

18 There was a debatable state bill in

19 response to an oil spill that included some

20 taxes on transit of cargo, and that may or may

21 not be a good idea, depending upon what side of

22 the fence you fall on, but there was a line we

23 put into that bill that if money is generated

24 in some way, shape or form, that it could be

1 used for installation and/or operation of a
2 PORTS system.

3 And our hope is that that will become
4 reality some day. This will be a way for the
5 local stakeholders to make it happen, lacking
6 federal support.

7 ED WELCH: Okay.

8 Incidentally, Woods Hole Group has an
9 interesting periodic email newsletter about
10 their activities on the list, so I enjoy seeing
11 that periodically.

12 Are there questions? Comments?

13 Tom.

14 TOM JACOBSEN: Jacob --

15 ADMIRAL BAILEY: Two Toms. Long Beach
16 Tom.

17 TOM JACOBSEN: Okay.

18 How big a system is the Boston system in
19 rough costs, what you're looking at?

20 BOB HAMILTON: The numbers are a little
21 bit old at this point. So, like I said, the
22 first wish list that came back was huge.

23 When it was pared down, the basic
24 requirements looked somewhere -- something like

1 New York PORTS. So that's -- somewhere in
2 between Narragansett and New York PORTS,
3 something like that, six to ten station type
4 installation with a range of equipment from
5 current meters to meteorological to actually
6 there was some requirements for airgap as well.

7 The installation costs, as I remember,
8 when they're estimated at the time were on the
9 order of hundreds of thousands.

10 Annual operations and maintenance costs
11 were on the order more of like a hundred
12 thousand or a little bit more than that,
13 depending upon how many stations actually
14 went up.

15 TOM JACOBSEN: Okay.

16 BOB HAMILTON: And that includes the full
17 regular, you know, monthly service of equipment
18 as per the NOAA protocols.

19 TOM JACOBSEN: Mm-hmm.

20 BOB HAMILTON: And I would add,
21 admittedly, why are we involved in this? We're
22 doing a lot of this work. So there's some real
23 and some perceived self-interest in trying to
24 make this happen.

1 But that's why we're building this group
2 of stakeholders that really wanted to make it
3 happen, and we feel like we're doing this all
4 over the place, and in our backyard there's not
5 a system.

6 So to the extent that we can help make it
7 happen, we understand it's going to be on the
8 heels of the actual users, and that's the path
9 we're taking.

10 ED WELCH: Tom Skinner.

11 TOM SKINNER: Just to follow up a little
12 bit on that, I've often wondered the same
13 question, why Boston doesn't have a PORTS, and
14 was talking informally at some of these
15 meetings and others about PORTS in Boston and
16 thought, well, maybe one of the reasons is that
17 the users may not be familiar with everything
18 they can be used for.

19 Discussed it with Deb Hadden, who is the
20 assistant port director for Massport, and we
21 were talking about trying to get some folks
22 from NOAA up to do a briefing to the monthly
23 port operators group on how various people, you
24 know, pilots and so forth, in other areas use

1 PORTS.

2 And it looked like things were coming
3 together, and I got an email somewhere in the
4 middle of it that was basically -- obviously an
5 email from NOAA that said, you know, faculty
6 members shouldn't be scheduling meetings, which
7 I think sort of missed what I was trying to do.

8 And fairly recently I got -- I saw Deb
9 Hadden, and she said I still haven't heard from
10 anyone from NOAA about doing a PORTS
11 presentation. And I mention this because if
12 this is something that's of interest, I think
13 there's some -- a fair amount of willingness
14 to -- receptivity to having a presentation
15 before the port operators groups in the Boston
16 area and still -- still a window to maybe
17 generate some interest among user groups.

18 ED WELCH: Well, perhaps that might be
19 something we want to consider for our report to
20 the administrator.

21 Any other comments or questions? Okay.
22 Thanks. We appreciate you being part of this.
23 Good presentation, and thank you very much.

24 BOB HAMILTON: Much appreciated.

1 ED WELCH: Okay.

2 Now we've got Don Jacob from SAIC.

3 DON JACOB: Thanks. I don't know if I'm
4 the last person, so I'm standing in between you
5 and your liberty card, so I'll keep this real
6 brief.

7 ED WELCH: I'm the last person, so don't
8 worry about that.

9 DON JACOB: You take the heat then.

10 I'm a vice president/division manager in
11 Newport, Rhode Island and Mystic, Connecticut
12 office, so kind of a regional guy.

13 First of, thanks for having this up here
14 rather than having to go somewhere else. I
15 really appreciate the drive this morning rather
16 than a flight.

17 And we have two major customers. The
18 first is NOAA. The second is the Naval
19 Oceanographic Office. So in our business this
20 is kind of our core business.

21 The first thing that I really enjoyed
22 today, I thought it was a terrific group of
23 speakers. And the panel, in particular, I
24 thought was fantastic.

1 Speaking to that, on behalf of -- I got a
2 couple of my colleagues here, John and Larry
3 from his previous -- pre-retirement life, I'd
4 like to just reiterate that the commercial
5 contract survey community does, in fact, have a
6 fairly robust ability to react to things such
7 as the two issues that were talked about on the
8 panel up in Maine and Canada with a flyaway
9 capability on very short notice using vessels
10 of opportunity to go out there and get surveys
11 like that done that wouldn't really require
12 NOAA.

13 Secondly, in response to John's gaps
14 there, you know, there may be -- I guess I'll
15 just say that there may be places where
16 industry could help fill those gaps when they
17 almost never really happen, despite planning.

18 And you were talking about a hundred
19 million to \$200 million cost for a -- for an
20 oil spill event or something like that.

21 When you look at the \$30 million a year
22 that Congress appropriates for its contract
23 survey backlog line item, it's a fairly small
24 number. It's well below the noise in the

1 national budget. So I would continue to push
2 to see that raised, because you get a lot of
3 bang for the buck.

4 And secondly, there was discussion about
5 tide stations, lack of tide stations,
6 specifically in the Arctic. We've been doing a
7 lot of work with the Navy, Naval Oceanographic
8 Office, on the ellipsoidal reference survey.

9 I know that NOAA has also done ERS, but
10 this is a technology that's becoming very
11 mature. The Navy is implementing it. It was
12 a -- NAVO's CO's number one priority last year
13 for us, and it really allows you to do very
14 accurate tidal work without tide stations being
15 involved, without using GPS, the z-component
16 GPS, something that's worth maybe having a
17 brief at a future meeting.

18 And thirdly, kind of a kudo to NOAA, who
19 is a very valued partner of ours. They took
20 particular -- I guess I'm talking here about
21 Jeff Ferguson in particular, for whom I have
22 great regard.

23 But NOAA HSD has done a really good job of
24 balancing ARRA funding and the contract survey

1 backlog funding for contractors in such a way
2 that for many of us, it's allowed a year-round
3 capability so that you're not running out of
4 funding in the winter and then hoping against
5 hope that the line item gets passed and you're
6 not in a continuing resolution situation,
7 wondering whether you're going to be able to
8 get going in the spring and get mobilized, et
9 cetera.

10 So that's really -- it's something that
11 NOAA has done with malice aforethought. They
12 really thought this through. It's been a great
13 help to contractors, and it gives us a much
14 more stable workforce.

15 It lets -- lets us get going right in the
16 spring without having to worry about the line
17 item and the budget. So I commend HSD for
18 doing a really good job.

19 And there are definitely cost efficiencies
20 there, because you save yourself one
21 demobilization and a remobilization, and it's a
22 good thing all around.

23 So that's all I have to say except thank
24 you for letting the public attend. It was a

1 pleasure.

2 ED WELCH: Well, thanks, Don. Don't
3 leave.

4 Could you talk a little bit more about the
5 specifics of what your company did with the
6 ARRA stimulus funding?

7 DON JACOB: Yes.

8 Well, in most cases stimulus for us was
9 for degree mapping. And we did that in the
10 Gulf Coast -- we had one in -- one in Georgia
11 and one in the Gulf Coast.

12 It allowed us to maintain our workforce
13 and, in fact, hire two additional survey
14 personnel, junior survey personnel, one of whom
15 was right out of Maine Maritime and another who
16 is -- we tried to steal from Nome,
17 successfully, sorry.

18 And we have a third open billet right now,
19 so it really did what it was supposed to do,
20 put young Americans to work, and it provided a
21 great amount of additional survey.

22 But it was a case -- I think a classic
23 case of what the -- what the Obama
24 administration called shovel-ready projects in

1 the sense that NOAA already had these survey
2 sheets ready to go, the remapping ready to go.

3 They knew what they wanted to do, and it
4 was simply a case of using existing contract
5 vehicles -- in our case, the omni vehicle --
6 and applying money to those vehicles and
7 putting contractors to work, so it worked very
8 well.

9 And I don't know if it affected John, but
10 for us it was a really nice way to keep going
11 for a couple of years.

12 ED WELCH: So basically, it -- it provided
13 an infusion to a private company. It hired two
14 or three people that otherwise wouldn't have
15 been hired.

16 DON JACOB: Correct.

17 ED WELCH: And it produced data that the
18 government needed and is now going to work.

19 DON JACOB: And it's data that would have
20 been collected but further down the pipeline,
21 you know, two years, three years farther down.

22 They would have gotten there, but it let
23 us accelerate, let us expand a little bit.

24 The challenge is going to be now to --

1 when the ARRA dries up, to hang onto those
2 folks who, you know, after you've trained them
3 for three years, they're even more valuable.

4 And so we'll work with HSD. And, you
5 know, I know that Jeff's very aware of that,
6 and we of course want to grow. But it was a --
7 I think a very, very successful application of
8 the ARRA.

9 ED WELCH: Are there comments or questions
10 for Don? Thanks.

11 DON JACOB: Thanks.

12 ED WELCH: Thanks for hanging in there.

13 Are there any other folks that didn't sign
14 the list that would like to make a comment or
15 address the panel? Here's your chance.

16 Okay. All right. We've come to the
17 official end of our program. We have a little
18 bit of a wrapup.

19 One thing I think might be worth taking a
20 minute or two, do people on the panel have
21 specific things that they think we ought to at
22 least put on the list for consideration
23 tomorrow as far as going into our report and
24 recommendation letter to the -- to the

1 administrator?

2 Particular themes or specific things we
3 might want to speak about?

4 For example, Tom, maybe your observation
5 about helping arrange a meeting of the Boston
6 user's community and appropriate folks from
7 NOAA as far as possibility of the Boston PORTS
8 system.

9 That would seem to me to be one thing we
10 could do.

11 Tom?

12 TOM JACOBSEN: Well, I'd like to talk a
13 little more about PORTS also.

14 This morning when we listened to Jennifer
15 in her next-generation strategic plan, you
16 never mentioned PORTS, the futures of PORTS.
17 So I think we should talk a little more about
18 PORTS across the nation.

19 ED WELCH: Okay.

20 And I think we might have some of those on
21 tomorrow's agenda. But in terms of, you know,
22 possibilities for our recommendation list, we
23 can certainly do that.

24 Andy?

1 ANDY McGOVERN: Thanks, Ed.

2 I think we need to build on -- your
3 observation of this morning on the importance
4 of the marine --

5 ED WELCH: Excuse me. Kathy, are you
6 getting this stuff down?

7 KATHY WATSON: Yes.

8 ED WELCH: Okay.

9 ANDY McGOVERN: The Marine Transportation
10 System where it had it just under coastal
11 communities, that's really got to be ramped up.
12 It's not a coastal community issue. It's a
13 national issue.

14 I think we need to punch that up with a
15 formal recommendation.

16 ED WELCH: Reemphasize to NOAA that
17 commerce doesn't mean coastal commerce but
18 means meanings national commerce. Okay.

19 Jon?

20 JONATHAN DASLER: Yes.

21 I think perhaps maybe we can get that read
22 back from the -- or get a -- I don't know if we
23 can get that from the court reporter, Admiral
24 Bailey's comment on the fleet recapitalization.

1 I don't know if we captured all of that,
2 but if we could get that pulled out of the
3 transcript, I don't know if that's possible, to
4 evaluate, recommendation about the --

5 ED WELCH: Some comment that we don't want
6 to -- we don't want to -- we want to make sure
7 the hydrographic replacement vessels actually
8 perform the hydrographic -- are capable of
9 performing the hydrographic services.

10 And also I'd like to express some concern
11 about this looming gap or -- I don't think we
12 ought to call it a "gap." I think we ought to
13 call it a "void" for the -- for the second
14 hydrographic vessel.

15 JONATHAN DASLER: And I guess capturing
16 his comment about more planning up front as
17 opposed to referring to in the process.

18 ED WELCH: Right.

19 Larry?

20 LARRY WHITING: The gap was defined as
21 charter work, which implies contracting. So
22 I'm not too sure it's the best way to go.

23 ED WELCH: We'll work on that. I'm sure
24 we can come to some acceptable way of phrasing

1 it.

2 Anything else? Matt.

3 MATT WELLSLAGER: I've got one question.

4 It seems that the direction of NOAA right now
5 seems to be moving a little bit more towards
6 ecosystems, environments, that type of thing.

7 And I'm wondering since we haven't put the
8 final pen to paper on the five most-wanted,
9 should we try to embellish a little bit more
10 into the five -- what is it, the five findings
11 here and add some type of a environmental touch
12 to this to get administration's bite into it a
13 little bit more?

14 ED WELCH: Well, that's a fair point, and
15 we're going to be discussing where we are
16 tomorrow as far as the reaffirmation and
17 revision of the -- of the most-wanted list.

18 So I think that's probably appropriate
19 for -- as part of that discussion. So if you
20 can -- if you can remember to bring that up,
21 that would be good.

22 MATT WELLSLAGER: Okay, thank you.

23 ED WELCH: Tom?

24 TOM SKINNER: I think we usually do this,

1 but just either a recap of the presentations on
2 the panel or recommendations that come out of
3 what was discussed I think is always useful,
4 and I think --

5 I mention a recap just because sometimes
6 it's just good to be able to see what we heard
7 in our periodic reports to the administrator.

8 ED WELCH: Okay.

9 Well, I think a recap is good. And in
10 terms of recommendations, I think we ought to
11 pay some attention to Captain Peacock's efforts
12 with the Maine senators about possibly some
13 attention to the survey needs of that area up
14 there and maybe have some kind of endorsement
15 or acknowledgment that that seems to be an area
16 that there's a great deal of interest in.

17 Also, I think it would be worthwhile us
18 commenting in some way on the need to not let
19 the process or new choices of membership on
20 this panel extend any longer than it has to as
21 far as the new solicitation.

22 KATHY WATSON: What do you mean by that?

23 ED WELCH: Well, in other words, we missed
24 one year, and we're going to have 11 people

1 replaced all at one point. Let's not miss
2 another year.

3 If we're going to -- if we're going to
4 defer the decision, at least let's have a
5 decision, you know, in this -- in this
6 particular round. And, you know, otherwise
7 we -- although I like all you folks.

8 I mean, heck, we'll all keep coming to the
9 meetings. It's good for us to keep coming to
10 the meetings, but I'm not sure it's what
11 Congress wanted when they directed that the
12 membership rotate on periodic schedule.

13 Did you have something, Elaine? Please,
14 Elaine.

15 ELAINE DICKINSON: I was saying make it a
16 lifetime appointment.

17 ED WELCH: Well, then we'd have to get
18 Senate confirmation. I'm not sure some of us
19 could get through Senate confirmation. Okay.

20 How about administrative stuff, Kathy, of
21 our acting designated federal official?

22 KATHY WATSON: Well, let's see. That
23 would be -- well, getting back to the
24 membership solicitation and the FRN -- I'm

1 sorry.

2 Getting back to the FRN membership
3 solicitation, it closes June 30th. We're
4 expecting to take about maybe a month and a
5 half or two months. That depends on Rich,
6 Juliana and Captain Lowell evaluating how many
7 applicants we get in. We might have 120. We
8 might have 150. We don't know.

9 Those recommendations --

10 ED WELCH: You're being awfully
11 optimistic, aren't you?

12 KATHY WATSON: Well, there are a lot of
13 2009s that are already responding back that
14 they still want to be considered.

15 Okay. And those recommendations, there's
16 11 panel people that this group -- evaluation
17 group selects goes to NOS, Dave Kennedy. And
18 of course he reviews it, approves it or not,
19 and we go back if he wants us to go back to the
20 drawing board.

21 And if not, it goes to Lubchenco. And
22 then of course that's her discretion. We're
23 hoping that these panel people that we
24 recommend, she would approve those.

1 But if so, then we're hoping a decision
2 would be made by October. Then that would give
3 us two months to do security clearance process
4 and all of that, January 1.

5 SHERRI HICKMAN: How many do we have now?
6 How many applicants, resumes?

7 KATHY WATSON: I haven't receive any 2010.
8 I've just actually gotten 2009 people that are
9 saying consider me for the application process.

10 SHERRI HICKMAN: And that was how many?

11 KATHY WATSON: I probably got about maybe
12 15 people already.

13 SHERRI HICKMAN: Okay.

14 KATHY WATSON: Since the FRN was issued
15 April 22nd.

16 ED WELCH: But in the 2009 solicitation,
17 didn't you get over 60 applicants?

18 KATHY WATSON: There were 70 applicants.

19 ED WELCH: So that was a pretty good
20 number, a pool.

21 Can I ask if there was, you know,
22 obviously a feeling that they wanted to throw a
23 wider net for applicants, what did NOAA do to
24 throw a wider net?

1 In other words, why are we -- why are we
2 not assuming that the current pool of
3 applicants won't be pretty much looking like
4 the last pool of applicants?

5 KATHY WATSON: There's no guarantee on
6 that.

7 JULIANA BLACKWELL: I believe, you know,
8 when they readvertised, there was a slight
9 wording change, trying to encourage a wider --
10 a few additional scientific areas that were
11 highlighted there.

12 But hopefully through word of mouth and
13 through your support, it will reach out to
14 invite other subject matter experts in these --
15 in these fields to apply for these positions as
16 well.

17 So there's no guarantee, but we're hopeful
18 that we'll have a wider variety in other areas
19 that will be applying for it this time.

20 ED WELCH: I'm just maybe a little bit
21 jaded, but it just seems like to me that the --
22 that the leadership of the Federal Register is
23 sort of the rather narrow and rather constant
24 group of people.

1 So are we -- are we looking at sending
2 messages out other than through the Federal
3 Register?

4 KATHY WATSON: Ed, I've been instructed by
5 NOAA leadership. I've already sent the Federal
6 Register announcement through the NOAA civil
7 rights office. They are a dispersing it
8 amongst their constituents and so forth.

9 I've already sent it through NOAA --
10 excuse me, NOS P-Pad, and they're sending it
11 out through their legislative processes.

12 And then, of course, after we get back
13 from this meeting, I'll continue to send it out
14 through all the other channels.

15 ED WELCH: Okay. That's good.

16 Some of you read Dennis Bryant's marine --
17 daily marine blog, and I know he put something
18 in his, but those are -- those types of things
19 are a great way of putting the word out.

20 Andy.

21 ANDY McGOVERN: I was just trying to say,
22 if you're looking to reach certain scientific
23 specialties, then I would look to advertise in
24 newsletters that those people would be reading

1 and not will the Federal -- in addition to the
2 Federal Register.

3 Because, as Ed said, those that read the
4 Federal Register have to read the Federal
5 Register. It's not exciting.

6 ED WELCH: And people that constantly read
7 the Federal Register, you know, they -- it
8 starts affecting them. And you can see what it
9 did to me.

10 LARRY WHITING: One quick question.

11 ED WELCH: Larry.

12 LARRY WHITING: Yes. Okay. We
13 extended -- one of these terms -- is the new
14 term going to be for a three- and in the
15 four-year?

16 KATHY WATSON: No, it's going to be for
17 the full four-year term. The two-year,
18 three-year and four-year was only when the HSRP
19 charter was first established, and then
20 everyone after that became four-year terms.

21 And then this new panel will be a
22 four-year term.

23 ED WELCH: That's a good point Larry
24 raises.

1 So, in other words, under the current
2 situation, we'll be getting 11 presumably new
3 appointees. All of them will be four-year
4 terms, and all of the terms will run out in
5 four years from now.

6 SHERRI HICKMAN: Well, they're not going
7 to -- you're only going to pick five this time,
8 right?

9 KATHY WATSON: No. There's going to be 11
10 vacancies to fill. Your five that -- you were
11 extended.

12 ED WELCH: That's a problem. That's a
13 problem. And we ought to highlight that
14 problem in our -- I mean, we met -- I mean,
15 "we" -- the calls of just the circumstances, we
16 missed a year.

17 But we don't need to institutionalize the
18 missed year, which is what we'll do if these
19 things are four-year appointments.

20 I don't know if the statute gives
21 flexibility to have less than four years
22 appointments.

23 ANDY McGOVERN: It's for the remainder
24 of -- the terms -- it's a third every, you

1 know, quarter, whatever it is.

2 And then if you're appointed -- because
3 this is what happens. I've seen people
4 appointed to the remainder of the term, and it
5 was so late that they got one meeting out of
6 that term.

7 So it's -- it's for remainder of that
8 term, and then they can be reappointed again,
9 but --

10 JONATHAN DASLER: Actually, we were
11 looking in the charter earlier, so I think
12 before we were just looking at the Hydrographic
13 Services Improvement Act, but it's spelled out
14 pretty good in the charter.

15 Actually, in the charter it says at the
16 end of four years, you can continue on until
17 you're replaced. So there wouldn't be a limit
18 necessarily at four years but it's until your
19 replacement is found. I think it's under Item
20 F in that charter.

21 But I think the other thing in the
22 charter -- and I think that was some of the
23 concern that was also raised -- is is the focus
24 going to change.

1 But the focus of the panel is pretty
2 specific in the charter, so if -- if the
3 administration is thinking of changing that
4 focus, then something would have to be done
5 with the charter as well.

6 ED WELCH: Well, we really identified two
7 related but separate issues here. One is the
8 expertise and the qualifications and the
9 background, and the second is preserving the
10 rotational period of whoever is chosen.

11 So we -- we ought to discuss that a little
12 bit more as far as what we want to say in the
13 letter.

14 Okay. Is there anything else we need to
15 attend to this afternoon? Kathy?

16 Tiffany has something.

17 TIFFANY HOUSE: I need the rest of the
18 travel vouchers and timecards. I think I only
19 have this side of the room.

20 ED WELCH: And those are in the back of
21 our blue packets?

22 TIFFANY HOUSE: Yes.

23 ED WELCH: And you don't need them right
24 this second but before we get out of here

1 tomorrow.

2 TIFFANY HOUSE: Yes.

3 ED WELCH: Okay. All right. Kathy?

4 KATHY WATSON: Okay.

5 For the dinner at Hemmingway, it's
6 7:15 p.m. So there is a shuttle that can take
7 nine people.

8 Does anybody have a rental car?

9 Otherwise --

10 TOM JACOBSEN: I have a car.

11 KATHY WATSON: Okay. Then the rest of you
12 will have to do a car or a taxi.

13 TOM JACOBSEN: I can cram about eight.
14 No, three, four.

15 ED WELCH: So what time do we need to be
16 down here in the lobby?

17 KATHY WATSON: 7:00. That's good enough.

18 ED WELCH: 7:00, okay. And then we
19 start -- we start our program tomorrow at
20 8:30 here?

21 KATHY WATSON: Yes.

22 ED WELCH: And is there a breakfast like
23 there was this morning?

24 KATHY WATSON: Yes.

1 ED WELCH: And what time will that open
2 up?

3 KATHY WATSON: 7:00 a.m.

4 ED WELCH: 7:00 a.m.

5 So if we come down at 8:30, the eggs will
6 be cold.

7 KATHY WATSON: So get here at 7:00.

8 ED WELCH: Okay. Well, I don't know if
9 7:00 a.m. is worth hot eggs or not.

10 Anybody else have anything?

11 Andy Armstrong.

12 ANDY ARMSTRONG: I did see a note that
13 testimony tomorrow is going to be webcast. So
14 if the chairman wanted, we could look at it, it
15 might be way late or out of sequence, but
16 just -- just bring it to your attention.

17 ED WELCH: And so if we have a choice
18 between a tie with a spot on it and a clean
19 tie, we should wear the clean tie if we're
20 going to be on the Web.

21 ANDY ARMSTRONG: No, I mean the Arctic
22 testimony.

23 ED WELCH: Oh, the -- oh, you mean we
24 aren't going to be webcast. I'm sorry. So

1 we've got competition for our own proceedings.

2 We might want to consider having webcast
3 this thing at future meetings, though. It
4 might be -- it might -- it might blow some
5 servers with all the people coming on.

6 Okay. Let's -- we're degenerating fast
7 here. Thanks to everyone, and we'll see
8 everybody informally later this evening or
9 formally tomorrow morning. Perfect.

10 (Proceedings adjourned at 5:55 p.m.)

11

12

13

14

15

16

17

18

19

20

21

22

23

24