

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL MARINE FISHERIES SERVICE
OFFICE OF SUSTAINABLE FISHERIES

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ATLANTIC HIGHLY MIGRATORY SPECIES
ADVISORY PANEL

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THURSDAY
MARCH 8, 2018

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The Panel convened in the Magnolia Room of the Sheraton Silver Spring Hotel, 8777 Georgia Avenue, Silver Spring, Maryland, at 8:30 a.m., Bennett Brooks, Facilitator, presiding.

PRESENT

BENNETT BROOKS, Facilitator
JASON ADRIANCE, State Representative; Louisiana
Department of Wildlife and Fisheries
PATRICK AUGUSTINE, Recreational
RICK BELLAVANCE, Recreational; New England
Fisheries Management Council
ROBERT BOGAN, Recreational
BENJAMIN CARR, Environmental Representative
ANDREW COX, Recreational; Marlin Magazine
MARCUS DRYMON, State Representative;
Mississippi-
Alabama Sea Grant
SONJA FORDHAM, Environmental; Shark Advocates
International

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ROBERT FREVERT, Recreational; Proxy for Robert
"Fly" Navarro

WALTER GOLET, Academic; University of Maine
School of Marine Sciences; Gulf of Maine
Research Institute

JOHN GRAVES, ICCAT Advisory Committee; Virginia
Institute of Marine Science

RANDY GREGORY, State Representative; North
Carolina Division of Marine Fisheries

MARTHA GUYAS, State Representative; Florida Fish
and Wildlife Conservation Commission

MARCOS HANKE, Council Representative; Caribbean
Fishery Management Council

LUKE HARRIS, Commercial; Pure Harvest Seafood

DEWEY HEMILRIGHT, Council Representative; Mid-
Atlantic Fishery Management Council

GLEN HOPKINS, Commercial; Proxy for Jeff Oden

RUSSELL HUDSON, Commercial; Directed Sustainable
Fisheries, Inc.

ROBERT HUETER, Academic; Center for Shark
Research, Mote Marine Laboratory

RAYMOND KANE, Commercial; Cape Cod Commercial
Fishermen's Alliance

DAVID KERSTETTER, Academic; Nova Southeastern
University Oceanographic Center

CHARLIE KLUCK, Commercial; Proxy for Martin
Fisher

GREG MAYER, Commercial; F/V Fishin' Frenzy

SHANA MILLER, Environmental; The Ocean Foundation

TIM PICKETT, Commercial; Lindgren-Pitman, Inc.

MICHAEL PIERDINOCK, Recreational; CPF Charters
"Perseverance"; Recreational Fishing
Alliance

GEORGE PURMONT, Commercial

KIRBY ROOTES-MURDY, Commission Representative;
Atlantic States Marine Fisheries Commission

MARTIN SCANLON, Commercial; F/V Provider II

DAVID SCHALIT, Commercial; American Bluefin Tuna
Association

JASON SCHRATWIESER, Recreational; International

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Game Fish Association

SCOTT TAYLOR, Commercial; Dayboat Seafood
 PERRY TRIAL, State Representative; Texas Parks
 and Wildlife Department
 RICK WEBER, Recreational; South Jersey Marina
 KATIE WESTFALL, Environmental Representative;
 Environmental Defense Fund
 ANGEL WILLEY, State Representative; Maryland
 Department of Natural Resources

ALSO PRESENT

NIC ALVARADO, HMS, St. Petersburg Office
 HEATHER BAERTLEIN, HMS Headquarters
 CHARLES BANGLEY, Smithsonian Environmental
 Research Center
 RANDY BLANKINSHIP, Branch Chief, Southeast
 Branch, HMS Management Division
 KARYL BREWSTER-GEITZ, Branch Chief, HMS
 Management Division
 WYNN CARNEY, Office of Law Enforcement, Mid-
 Atlantic Region
 CRAIG COCKRELL, HMS Headquarters
 PETER COOPER, HMS Headquarters
 ENRIC CORTES, Panama City Laboratory
 LEE CROCKETT, Public participant
 JENNIFER CUDNEY, HMS, St. Petersburg Office
 TOBEY CURTIS, HMS, Gloucester Office
 CHANTE DAVIS, HMS Headquarters
 GLENN DELANEY, Glenn Roger Delaney Consulting
 JOE DESFOSSE, Office of Sustainable Fisheries
 GUILLERMO DIAZ, Southeast Fisheries Science
 Center
 GUY DUBECK, HMS Headquarters
 STEVE DURKEE, HMS Headquarters
 MICHELLE EDWARDS, Smithsonian Environmental
 Research Center
 URIAH FOREST-BULLEY, HMS, Gloucester Office
 ERIN FOUGERES, Office of Protected Resources
 CLIFFORD HUTT, HMS Headquarters

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LAUREN LATCHFORD, HMS Headquarters
GERALD LEAPE, Public participant; Pew Charitable
Trusts
YONG-WOO LEE, Office of Science and Technology
BRAD MCHALE, HMS, Gloucester Office
SARAH MCLAUGHLIN, HMS, Gloucester Office
IAN MILLER, HMS Headquarters
DELISSE ORTIZ, HMS Headquarters
RICK PEARSON, HMS, St. Petersburg Office

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ALSO PRESENT

CHARLEY PEREIRA, Public participant
MARIAH PFLEGER, Oceana
LARRY REDD, HMS Headquarters
GRAY REDDING, Public participant
LOREN REMSBERG, Office of General Counsel
JOEL RICE, Joel Rice Consulting
ALAN RISENHOOVER, Office of Sustainable Fisheries
GEORGE SILVA, HMS Headquarters
CARRIE SOLTANOFF, HMS Headquarters
MEGAN WALLINE, Office of General Counsel
TOM WARREN, HMS, Gloucester Office
JOHN WALTER, Southeast Fisheries Science Center
JACKIE WILSON, HMS Headquarters
CHELSEY YOUNG, Office of Protected Resources

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

(8:32 a.m.)

MR. BROOKS: All right, we want to get started, so if the folks who are standing can grab their seats that would be good. Thank you. All right, so let's jump in. We have another busy day today. We're going to start in the morning with an overview of Atlantic Bluefin Tuna Management review of 2017 fishery trends and 2018 management issues, and then we will move into a discussion of the implementation of ICCAT recommendations for bluefin tuna and northern albacore.

So let's start off right now on the review of 2017 fishery trends and 2018 management issues, and Brad I see you're up here already, so over to you. I need to stall for more time.

MR. MCHALE: All right, good morning everyone. If there's anyone around the table that I have yet to have the opportunity to meet,

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1 my name is Brad McHale. I am the northeast
2 branch chief for the division out of Gloucester,
3 Massachusetts. And myself, my staff primarily
4 focus on those northeast HMS related matters and
5 really kind of hone in on some of the tuna
6 management. And the big dominator of our time
7 is the Atlantic bluefin tuna.

8 So what I will be doing this morning
9 is kind of doing a recap of how the fishery had
10 played out in 2017. I'll have a couple quick
11 updates of what's already transpired here in
12 2018. So we'll be looking at some catch
13 statistics, utilization of the quota, success
14 rates of different vessels, number of actions the
15 agency's taken, et cetera, et cetera. Just to
16 kind of get a recap of, kind of, what a day in
17 the life of Brad is up in Gloucester, because you
18 all are dying to know what that is. If you
19 haven't already heard it a dozen times before.

20 And then we'll kind of just open up to

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1 discussions. This is kind of dialed up, so, to
2 help encourage some dialogue about what the
3 agency should be thinking in 2018 when it comes
4 to managing these fisheries and --

5 MR. BROOKS: Here you go.

6 MR. MCHALE: Is that better? Just move
7 it? And I can talk loud so I'm not overly
8 dependent upon that mic, other than pure
9 purposes. So you know, let's get into it and
10 then we can kind of get to the meat of it, where
11 we actually are into the dialogue. You just have
12 to bear with me, I'm trying to figure out how I
13 can actually see these slides.

14 MR. BROOKS: This is what you're on
15 and this is the one --

16 MR. MCHALE: Yes, how do you increase
17 that, so I don't go blind by the third slide.
18 Okay. I'll go blind. We'll figure it out. So
19 anyway, here is a table, and I can look over my
20 shoulder too, so, here's a table essentially

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1 summarizing our 2017 landings of bluefin tuna.
2 You'll see how we have it listed out by category
3 and some of those categories we have broken out
4 by the subcategories. And as you go from left
5 to right, we're looking at the landings and
6 numbers of fish, the equivalent whole weight of
7 those fish, and then comparisons both to the base
8 quotas, the adjusted quotas and then the
9 percentages of landings.

10 This is something that both myself and
11 Margo and now this year, Randy have kind of looked
12 at, just to see how much of our actual bluefin
13 tuna quota are we landing at any given year. And
14 if you look in the lower right-hand corner, when
15 you look at our overall catch, which is inclusive
16 of our dead discards as well as our landings, we
17 honed in right about 84 or 85 percent of our U.S.
18 quotas harvested last year. And, as you kind of
19 march up the column you can kind of see where
20 we're at in the general category, the harpoon

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1 category, essentially those adjusted quotas were
2 fully attained.

3 As we briefly touched on yesterday,
4 the utilization of the IBQ is about half with
5 some real dips in the Gulf harvest there,
6 multiple causes going on leading to that. No
7 purse seine landings, there were no active
8 vessels in the recreational fishery.

9 We had about three-quarters of that
10 quarter landed in, that was divvied up amongst
11 the school fish and then our dead discard
12 estimates. And we'll get into this in a little
13 bit more detail as I proceed through the
14 presentation.

15 So as far as the list of number of
16 actions that the agency took last year, we had
17 six daily retention limit adjustments, all
18 applicable to the General category as well as the
19 Angling category. We had eight inseason quota
20 transfers, again recipients being General,

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1 Harpoon, Longline, and then some quota moved to
2 and from the Reserve. We had two quota
3 adjustments, differ slightly from the in season
4 actions.

5 So this is kind of, the transfer from
6 unutilized Purse Seine quota to the Reserve based
7 upon the participation in a fishery and then the
8 carryover of any allowable under-harvest from the
9 preceding year into the current year. And that
10 would apply not only to bluefin, but also for
11 northern albacore.

12 We had experienced a total of eight
13 closures throughout the year, both General
14 category and recreational, once again. And there
15 were essentially two different notices that had
16 gone out, one regarding to how quota is utilized
17 in the Northeast Distant Area, for our pelagic
18 longline fleet. And then ultimately the rule
19 making Tom Warren had taken lead on to modify our
20 accounting for IBQ debts from a trip level basis,

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1 to essentially a quarterly level basis, and that
2 is currently in effect this year.

3 One more detail regarding those
4 inseason actions as it pertains to the quota
5 transfers. I don't necessarily need to belabor
6 this, but it just essentially quantifies where
7 quota was coming from and going to, and in
8 essence, just trying to demonstrate the level of
9 engagement, my staff, and Margo's staff, and
10 Randy's staff, kind of had last year, where we
11 are kind of actively engaged in trying to keep
12 tabs on how these fisheries are proceeding
13 throughout the year, where the various needs are,
14 and then balancing those needs up against
15 objectives of the FMP. The different criteria
16 we need to assess before we do any sort of
17 transfers and try to provide as much equity
18 amongst these actions as possible.

19 When it comes to the recreational
20 fishery, as far as setting the retention limits,

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1 these have kind of been our standard limits for
2 the last few years where we've had two school
3 fish and one large school fish for our privately
4 operated vessels and a little bit more
5 liberalized school fish retention limit for our
6 for-hire fleet with the intent of helping to
7 encourage bookings. One thing that we'll be
8 looking forward to this year is assessing how our
9 quota increase from ICCAT, that approximate 17
10 percent to the U.S. allocation overall could
11 impact what we do with these retention limits.
12 Are there more opportunities that we can provide
13 for enhanced fishing and where might those
14 opportunities fall, but, yet still remaining
15 within our quotas.

16 And then, which has been a pretty
17 common place since the completion of Amendment 7,
18 is the, we have three different closure notices
19 for our trophy fishery. One for the southern
20 area, which essentially is, you know call it

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1 Florida north to southern New Jersey, the Gulf of
2 Mexico area, as well as the northern area in those
3 respective dates. I have some preliminary
4 information back at the office that shows that,
5 in all likelihood, when I returned the office
6 will be kind of looking for a southern area
7 closure as well, for that trophy area. Off of
8 the Carolinas is where, and Virginia Beach is
9 where a lot of that catch has been coming in.
10 When you start to look at our records of landing
11 estimates, and these numbers are predominately
12 numbers of fish, and then the landings are in
13 tonnage in the far right hand column, trying to
14 gauge essentially how last year's fishery
15 compared to the previous two. One item to
16 note here is that, through the different
17 methodologies, where we're collecting
18 recreational information it showed like there was
19 an uptick in our school of bluefin tuna catch.
20 And I'll have some of the geographic areas of

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1 where that occurred in a subsequent slide, and a
2 slight dip in our larger school fish and kind of
3 our small -mediums were kind of on par.

4 So when you look at actually the quota
5 utilization, even though there was that uptick in
6 school of bluefin tuna -- again those fish can be
7 lighter, smaller fish, more individuals per
8 metric ton. So the utilization was about 43
9 percent of our quota there, and we came in pretty
10 much right on target with our large school,
11 small-mediums.

12 And then with that trophy fishery that
13 I mentioned, because those quotas are so small,
14 currently it's one and a half metric ton per
15 geographic area. By the time you get two fish
16 over that quota, you're exceeding. So that 200
17 percent mark looks a little scary, but, then we
18 actually looked at -- it's about three fish.
19 It's kind of where we kind of fall, and kind of
20 in response to managing that small of an

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1 allocation.

2 When it comes to the geography per
3 region, why this catch is occurring, using the
4 Large Pelagics Survey as our data source here,
5 you can see that those school fish were
6 predominately caught off of New York and New
7 Jersey, last year. Some of the other geographic
8 distribution catch levels have been relatively
9 constant. And so this will be something that
10 we'll be continuing to monitor closely here in
11 2018, as we see these different size classes
12 being caught by recreational fishermen.

13 And one of the challenges we have
14 associated with managing this particular fishery
15 is the lag time associated with some of our survey
16 driven catch statistic, setting up retention
17 limits. And if a particular year class happens
18 to be moving through the fishery, even if you
19 have the same number of individuals being caught
20 from one year to the next, the weight equivalent

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1 of those same number of individuals can change
2 dramatically.

3 So that's something we'll just have
4 dialed up for our attention to keep tabs of this
5 year, is to see if all of a sudden those large
6 school small-mediums, if the numbers tend to
7 either increase or the weights associated with
8 that catch also increases.

9 So shifting more to the management of
10 our commercial handgear fishery. I wanted to put
11 together here a table that can show what our
12 retention limits were, kind of throughout the
13 season what the landings were associated with
14 those retention limits. And, then ultimately,
15 some of the unfortunate actions we had to take
16 this year, where we had a fair number of
17 intermittent closures in this fishery.

18 Some of the variables that were
19 contributing to this were unprecedented buyers of
20 fish, especially in the summer and fall fisheries

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1 up off New England, where, I forget who I was
2 chatting with yesterday, but, I can actually see
3 a fleet from my office that was less than three
4 miles offshore, parked for two weeks. And, you
5 can then actually see the landings coming in from
6 those vessels.

7 So vessels had to go very short
8 distances. The weather was unprecedentedly
9 nice, I mean, for all of July, all of August, at
10 least when it was open, and all of September, at
11 least when it was open. Every day was a fishable
12 day, no weather events to disrupt the forage
13 base, to disrupt the patterns. And these fish
14 were pretty numb, they did not get line shy at
15 all through the entire season.

16 So one item that we took away from
17 this is, don't repeat it, I think we've heard
18 that loud and clear. To do our best to try to
19 manage this so we don't have those disruptions in
20 the fishery.

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1 And one item that I will take complete
2 ownership is, is not necessarily being as
3 reactive to when we saw some of these increases
4 in catches take place to what were the retention
5 limits. You know, we kind of, well, I will take
6 ownership of being, lulled into a false sense of
7 security that there is going to be a weather
8 change. The fish will get warm and shy.

9 So we'll be dialed into that as well,
10 regardless of where we set the initial retention
11 limits for the year. But to keep very close tabs
12 of what's taking place so we can either adjust
13 them upwards or downwards as appropriate, again
14 trying to strike a balance of keeping the fishery
15 uninterrupted to the best of our ability.

16 Because we have some information
17 regarding the General category fishery already
18 here in 2018, that fishery started off in January
19 1st, and we closed that fishery on March 2nd.
20 And there was a one-fish retention limit that

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1 entire time.

2 We performed a number of different
3 quota transfers into this fishery. Ultimately,
4 the final landings, at least to date so far, are
5 just shy of 60 metric tons.

6 And then the two graphs located at the
7 bottom of this particular slide, I want to share,
8 so folks kind of had a good understanding of kind
9 of what action the agency has and has not taken,
10 especially, with this fishery in particular,
11 where the average baseline quota for this fishery
12 has danced just about north and south of 25 metric
13 tons over the past decade.

14 And over about the last eight years,
15 the agency has actually taken different actions
16 to either supplement that quota to the tune of
17 almost doubling it in some years, but also where
18 the catch and landings have fallen which is
19 usually, kind of, all north with this fishery.

20 And then as far as kind of closure

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1 dates that have transpired in this January
2 fishery over time. Over the last three, four
3 years, we've made it through the most of March.
4 Unfortunately, this year the catch rates are
5 getting rock solid.

6 Stupid fishing, is the quote I kept
7 hearing is rod, lines in, fish in the boat and
8 you're on your way home. But, yet, there were
9 some years where we were experiencing closures in
10 February and earlier, because the fish were
11 cooperating, or that's how the management was
12 organized.

13 Staying along the theme of trying to
14 manage this fishery to minimize disruptions, one
15 dynamic that my staff is looking at real-time,
16 and will be looking at this retroactively is,
17 when we set various retention limits, trying to
18 look at how successful fishermen are at landing
19 those various retention limits, to try to dial
20 this in, to see exactly where we might want to

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1 set retention limits so we're catching our quota
2 throughout the season, but, yet we're not
3 necessarily having these disruptions.

4 You know, one item in particular that
5 we experienced in the summer fishery, is when we
6 reduced, say, retention limits between that June
7 1st and August 4th date down to that August 5th
8 and 16th, where we dropped it from four fish to
9 two fish, actually catch rates went up. And so
10 whether or not there was more effort, because the
11 word was getting out more and more that the hawk
12 bite was happening. So especially with social
13 media and the proximity of those fish to the shore
14 line, we just saw effort rates, just spike. You
15 know, with no real gradual incline, they just
16 jumped. So extremely difficult to manage those
17 dynamics, but we'll be doing our best to try to
18 hone this in so we're not necessarily having
19 over-liberal retention limits that can then lead
20 to more problems in addition to just closing the

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1 fishery, but we heard as well as, you know, the
2 number of fish going onto the market, the number
3 of fish being exported, the number of fish
4 remaining domestic and, then ultimately, what is
5 the value of those fish that is being paid back
6 to the fishermen for that catch.

7 Essentially, just another way of
8 displaying the catch data, kind of showing
9 specifically to the General category, those time
10 periods, the base quotas, the adjusted quotas,
11 the catch that had occurred in that time,
12 essentially, how that catch had accumulated
13 throughout the season to try to give a
14 representation of kind of where we were at. You
15 know, again, trying to set the understanding in
16 those folks within the fleet, those interested in
17 the fishery and ourselves about where kind of
18 catch ended up based upon some of our actions or
19 inactions as the case may be.

20 Where, if you look at, say, some of

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1 those percentages in the middle of the table, of
2 percentages caught of the base quotas and
3 percentages caught of the adjusted quotas, last
4 year the winter fishery catch was, you know, 438
5 percent of their base quota. Now, granted the
6 adjusted was about 133. And as you kind of go
7 down the chart, kind of how we were lagging behind
8 of kind of staying on point to manage some of
9 these fisheries within those quotas or adjusted
10 quotas.

11 Thankfully, we had the reserve to kind
12 of cover for some of that. But just a dynamic,
13 again, again, we're going to be dialed in and
14 trying to monitor much closer this year. And,
15 Benny Hill is in the room.

16 (Simultaneous speaking.)

17 MR. MCHALE: So and again, for looking
18 at 2018 -- and Benny Hill left the room -- so
19 2018 our General category landings, just kind of
20 summarizing what's transpired so far. This year

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1 we had a base quota of, just shy of 25 metric
2 tons. We performed two different inseason
3 transfers, to essentially double that allocation
4 to just shy of 50 metric tons. The landings that
5 had been recorded before I left the office were
6 just shy of 60, which is about 240 percent of
7 that base quota, 121 percent of the adjusted.

8 And then we'll kind of see how that
9 plays out when we have subsequent landings as
10 time marches on. One graph that's relatively
11 new, that I'd like to thank Uriah for pulling,
12 that works in our Gloucester office, for pulling
13 together, that really, kind of, demonstrates how
14 this fishery played out over the past year.

15 So if you look at the straight,
16 horizontal lines, that essentially represents,
17 where the quotas were at. And you can kind of
18 see where we did inseason transfers to adjust
19 those quotas upwards.

20 And in the various colored curved

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1 line, you can kind of see how catch had progressed
2 kind of throughout the season. So as you kind
3 of go from left to right, you can kind of see
4 that landings in the January time period were
5 relatively slow and steady, up kind of through
6 February.

7 Then, we saw an uptick and things kind
8 of leveled out. And then we saw a kind of uptick
9 once again at the end of March, of last year.
10 Then as you kind of forward to the month of June,
11 there's this kind of misconception within the
12 fishery that, as soon as June 1st, the fishery
13 opened, catch rates were through the roof. And
14 we're getting a lot of feedback now that we should
15 start the fishery at one fish and be very
16 conservative.

17 And I understand that feedback, but
18 it's also kind of putting things in context that,
19 for the entire month of June, our catch rate was
20 the equivalent of one day of July fishing, or one

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1 day of August fishing. And so one thing that
2 we'll be wanting to keep in mind as we entertain
3 how to establish those retention limits.

4 But as you can see, apparently, the
5 bluefin caught, a memo, that July 4th was a
6 holiday, and they started to party because that
7 line just never came down, even, when we modified
8 the retention limits from four fish, down to two
9 fish, and ultimately, one fish.

10 It was a fishery very reminiscent to,
11 back in some of the late 90s and early 2000s,
12 where, you know, one fish was the norm. In fact,
13 we were actually exploring different management
14 measures of how you slow the catch down, where
15 there actually days where you weren't allowed to
16 fish for bluefin.

17 So very curious of whether or not this
18 pattern repeats itself in 2018. It's always the
19 question we have this time of year is, you know,
20 how are things going to shake out. Rarely, does

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1 one year repeat the next but, you know, we need
2 to be prepared for this scenario as well as kind
3 of any other scenarios the fishery throws at us
4 in '18.

5 Shifting gears to the harpoon
6 category, again kind of looking at how successful
7 that fishery was, the number of fish that were
8 landed in the large-medium or giant categories
9 and then looking at the various success rates,
10 just trying to figure out how to manage this
11 quota.

12 The quota is overall, relatively small
13 and, you know, small number of user groups, very
14 weather-dependent. So trying to figure out how
15 to manage, not only that category, but the
16 harvest with that gear type overall.

17 So harpoon gears are authorized not
18 only in the dedicated Harpoon category where that
19 is the only gear type allowed. It is also
20 allowed as one of our General category gear

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1 types, that diversified commercial handgear.

2 And so we kind of wanted to look and see
3 kind of what the catch was in both of those
4 respective categories. And it helps inform us
5 where we may want to set retention limits early
6 in the season when fish are line-shy, and are
7 more present and available to this gear type, but
8 also kind of looking at contributions of harpoon
9 harvest to the General category, where they were
10 just about five and a half percent of the overall
11 General category landings and trying to figure
12 out how to kind of manage that gear type as it
13 straddled these two different categories and
14 where those fish are weighed against the
15 respective quotas.

16 So some of the things that lead to
17 some of our actions or inactions is on the other
18 side of this table. And that is reporting a
19 compliance, whether it be on vessels or dealer
20 side. You know, one thing, when we have catch

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1 rates at that level and you're dealing with
2 potential closures, compliance with our reporting
3 is essential. The 24-hour requirement, isn't
4 just to be a pain in the ass. It's because,
5 everyone around this table and the folks you
6 represent, expect us to turn on a dime and be
7 that responsive when all of a sudden dynamics in
8 the fishery changed.

9 And for us to accomplish that goal and
10 meet that expectation, we also, then, in turn,
11 need real-time information. And so what we
12 experienced this past year, more so in previous
13 years, was some of the delays in our dealer
14 reports that were dependent upon assessing what
15 the catch rates are as well as the geographic
16 areas the catches are coming in from.

17 And so we did an assessment of those
18 kind of high-volume dealers throughout the
19 fishery, essentially, handling 100 fish or more
20 within the season and kind of looked at their

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1 kind of timeliness of their reports where we had
2 a range of some dealers being fully compliant,
3 getting us their reports within the 24-hour time
4 period, with others being close to a week behind
5 schedule, with the average across, you know,
6 those dealers being about three days.

7 Now if you compound that three-day lag
8 time with the weekend, or even a holiday weekend,
9 my staff and I are now a week behind the curve as
10 far as information we're using to inform our
11 decisions as far as retention limits, or closures
12 to kind of manage the rates of catch.

13 And so when we kind of extrapolate
14 that even further, you know, we had some dealers,
15 on the far right-hand side of this, that were
16 extremely late.

17 Again, these were kind of more mom-
18 and-pop type things. That wasn't really the
19 impact. The impact is really, when you have
20 those on the left-hand side of the chart, you

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1 know, when you're dealing with reports that may
2 be a week late. You know, granted our
3 communications are pretty strong with folks in
4 the industry, but, when we're ultimately making
5 management decisions, and you're a week behind in
6 your information, you may drop a fishery from a
7 couple fish, you know four fish, three fish, down
8 to one, but, you're too late.

9 And then all of a sudden, by the time
10 you've actually done that retention limit drop,
11 you actually need to close the fishery. And by
12 the time you close the fishery, you're now two
13 weeks late. And that essentially is a big
14 component feeding into those disruptions we had
15 this year.

16 And so I'll be working very closely
17 with our Office of Law Enforcement and have
18 already proactively communicated with our dealer
19 community, and will lean on all of you to work
20 with your constituents as well that are involved

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1 in this trade, to make sure that they get their
2 act in order.

3 Because, ultimately the fishermen you
4 may represent will be the ones impacted by these
5 closures. So everybody kind of essentially needs
6 to do their part.

7 When it comes to the vessel report
8 requirement, which we put into play with
9 Amendment 7, this also comes in as data source I
10 depend on. It's not only looking at the dealer
11 reports, but, what are vessels reporting.

12 And I know that this has been an issue
13 that we've been struggling with since its
14 inception of how do you improve compliance rates.
15 And as you can kind of see here, we've got it
16 measured in the number of fish and the fishermen
17 kind of reporting.

18 We can compare those dealer reports to
19 those vessel reports to kind of get a compliance
20 rate. And although, compliance has been

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1 improving over time, as you can see from looking
2 at the General category in percent of fish
3 reported, we started at 14 percent, jumped to 44
4 in '16, and are at about 51 percent last year.
5 That progress isn't nearly acceptable.

6 And so what we've also done here, is
7 we've migrated from say an outreach and
8 educational approach with our constituent base,
9 to supporting now Office of Law Enforcement and
10 our joint enforcement agents to start citing
11 these violations.

12 And I have been preaching it for a
13 couple years now that I can serve up these
14 violations to enforce them on a silver platter.
15 It is, here's list A of all the dealer reports.
16 Here's list B of all the vessel reports. Every
17 vessel report that's null -- write them a ticket.

18 And I'm pretty close to that point,
19 seeing that other efforts have been unsuccessful.
20 And so I suspect we'll have some upset fishermen

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1 in regards to this, but maybe it'll get their
2 attention with the stick versus the carrot.

3 So something we'll be striving once
4 again for is improved compliance here, given the
5 ripple effect on how responsive we can be in
6 managing the fishery.

7 Shifting gears to some of the other
8 commentary we heard last year was the quality of
9 the fish and then, ultimately, the prices
10 returned to the vessels. One thing that we kept
11 hearing from dealers and fishermen was,
12 especially during the summer months, a very low
13 quality of bluefin tuna where those fish were
14 actually competing with bigeye tuna on the
15 international market.

16 And some of the prices coming back to
17 the fish were minimal. I've seen weighout slips
18 where it was \$2 a pound. Or a fishermen not
19 actually getting paid because a dealer would
20 export the fish, but by the time those export

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1 cost were covered and what it sold for at auction,
2 the fishermen actually owed the dealer money.

3 Not that I think anyone wanted to
4 collect but that dynamic existed a number of
5 times last year. We bore the brunt of some of
6 that blame, given some of the retention limits
7 and the volume of landings, so we'll take some of
8 that. But some of it's just market driven as
9 well.

10 I do not control the quality of
11 bluefin, as much as I would like -- or the yen to
12 dollar exchange, but, I'm trying. So ultimately
13 what did that result to? You look at the kind
14 of volume of fish, where they're exported versus
15 remaining domestic.

16 And I know we've talked around this
17 room a fair amount of what are the marketplace
18 for these fish? And if we're in a situation
19 where 60 percent of our fish are remaining
20 domestic, then I think there needs to be work

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1 done, whether it's agency collaboration with the
2 industry or industry of, how do you then try to
3 establish more robust markets if these fish are
4 going to remain domestically, to try to improve
5 the value of this catch to the best of our
6 ability.

7 But again, this is something now that
8 is difficult. There are lots of different
9 variables at play that are beyond our direct
10 control, but something that we're, kind of,
11 keeping tabs of to the best of our ability as
12 well, as far as what's staying and what's going
13 here, domestically.

14 Brief update regarding the status of
15 our Atlantic bluefin tuna purse seine fishery.
16 We set it up in Amendment 7, that we would have
17 to announce the start date at the beginning of
18 every year.

19 Last year, we did not announce a start
20 date. There were no active permit holders or

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1 vessel combinations within the fishery. Hence,
2 there really wasn't much of an urgency to
3 establish a start date. And one of the things
4 that we'll be continuing to look at and discuss,
5 and Tom will touch on this briefly, and, kind of,
6 our three-year review, given the role of this
7 particular segment the fishery has in our IBQ,
8 is, what is the future of this fishery.

9 We know that there are a number of
10 participants that haven't been active well over
11 a decade. We know that some of the vessels have
12 been sold to different entities.

13 And so this is something that will be
14 getting a little bit more attention over the next
15 number of meetings, over time, trying to figure
16 out where the overall fishery needs to move to.
17 And the Purse Seine category is part of those
18 discussions.

19 Because I think I've already been a
20 little long-winded, this essentially is just to

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1 explain some of the catch information of the
2 provided table format earlier in the slide, if
3 you gravitate more towards charts versus tables.

4 Touching briefly on some of our dead
5 discard information. We know Marty has been
6 upset for a number of meetings about my inability
7 to deliver this sort of information regarding
8 some of the discard reports that have come in
9 from our handgear fisheries.

10 Some of the challenges that I've come
11 to experience with this particular data is, how
12 do you get it cleaned up? Like I know with our
13 logbook programs that we have a dedicated staff
14 in the Science Center that's working to clean up
15 that information. We know that the individuals
16 completing those pelagic longline logbooks, are
17 well versed as far as what needs to go in them.

18 Where the universe of individuals
19 filling out our handgear reports, we've noticed
20 a couple of different things where we need to be

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1 diligent in cleaning up that data.

2 For example, in data fields where you
3 would expect numbers of fish that would be
4 released, we're seeing actually lengths of fish.
5 So all of a sudden an 81-inch fish that was
6 released dead, is now looking like it's 81-inch
7 -- or, excuse me, 81 giants that are released.

8 And then the time it's taking to then
9 go back and clean up that data is a big chunk.
10 So one of the things, now that we have three
11 years' worth of information here, is trying to
12 figure out how to refine this reporting, whether
13 it's through its design -- is there confusion
14 where we're seeing patterns of human error where
15 maybe it's not clear in the instructions of what
16 sort of information folks should be reporting,
17 human error, and then, like I showed in the
18 previous slides, just overall the compliance with
19 these reports.

20 So this is something that, although we

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1 haven't been able to provide the data as rapidly
2 as we'd like, just like anything we'd like to get
3 that information as cleaned up and as accurate as
4 possible before we release it.

5 Because, once it's kind of out and
6 available, like we've all experienced, if there's
7 bad data out there and all of a sudden we're
8 latching on to it, it's very difficult for them
9 to correct the understanding of why that
10 information has changed over time or why it may
11 not be appropriate for informing certain
12 management decisions.

13 So overall kind of our landings by
14 quota, again, displaying it in chart versus a
15 table, very similar to the distribution and the
16 patterns from years prior. Our geographic
17 distribution of our commercial landings, again,
18 very similar, no dramatic changes here.

19 And then kind of getting into the meat
20 of some of the suggestions that we were hearing

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1 last year that are carrying over into this year,
2 of, ultimately, how important it is for the
3 United States to harvest its quotas, regardless
4 of what the species is, but especially for
5 bluefin, some of the dynamics of setting up
6 retention limits based upon the economic needs of
7 the fishery and how far offshore those fish may
8 be.

9 Given some of those market conditions
10 I touched on, price per pound, et cetera. And,
11 whether or not those fish may be offshore in one
12 geographic location and inshore in another -- how
13 do you strike the right balance there of trying
14 to level the amount of landings to maintain
15 continuity versus having those closures.

16 And there's different opinions here,
17 so we're getting both sides of the coin. I
18 believe somebody that wasn't around when we had
19 restricted fishing days suggested we actually
20 bring those back. And I will do my best to

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1 educate them on how successful they were. And
2 then, ultimately, concerns whenever we have any
3 of these closures.

4 And what is some of the post release
5 mortality when you still have large bodies of
6 large fish readily available to a fishery and
7 they're still having pressure where it's now
8 catch and release.

9 We have a couple of papers that have
10 been produced recently, Willy Goldsmith, for
11 example, that touches on some of this. But it's
12 still a concern is what is the mortality
13 associated with that keeping the fish pressure.

14 And then a litany of other items of
15 quota distribution, preserving December fishing
16 opportunities, concerns regarding maintaining
17 traditional quotas and, essentially, allocation
18 and balance is kind of what those all kind of
19 fall into.

20 What we also heard regarding the

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1 harpoon category was essentially don't allow
2 harpooners in General category. So that reflects
3 back on the slide of, what was the contribution
4 of that gear type to that category, pretty
5 minimal.

6 Whether or not there should be similar
7 retention limits to the General category
8 regarding large-medium bluefin. And then,
9 ultimately, you know, taking all of those into
10 consideration as we set up our retention limits
11 as we move forward further into the 2018 season.

12 So, essentially, knowing that -- well,
13 thankfully I broke down the last slide. So,
14 essentially, some of the, you know, discussions
15 that are appropriate kind of for the here and now
16 or any thoughts regarding retention limits and
17 almost that micro-management of the season
18 overall.

19 I'd like to hold off with some of our
20 bigger picture commentary to when Sarah

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1 McLaughlin, does her presentation regarding some
2 of the ICCAT quota increases and the forthcoming
3 rule making that'll speak to those, both for
4 albacore and bluefin.

5 And also this afternoon, where Tom has
6 a pretty extensive presentation, kind of looking
7 at some of the data analyses as it pertains to
8 our management measures in Amendment 7.

9 So I don't want to cut off discussion
10 here, but also just to let you all know that we
11 have multiple opportunities today to talk kind of
12 bigger picture as well as some of the longer term
13 management when it comes to the species.

14 MR. BROOKS: Great. Thanks, Brad,
15 very much. That was really a thoughtful and
16 thorough presentation. A lot to digest. We have
17 about 20 minutes or so, 15, 20 for questions on
18 what Brad just walked through. So just open this
19 up to either questions that are, you know,
20 clarifying questions on information he presented,

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1 or comments, observations on it. David, start
2 off there.

3 MR. SCHALIT: Thank you, Brad. Very
4 comprehensive. Just two things, kind of
5 bookmarks for further discussion. In connection
6 with catch and release when we have closed
7 periods, probably something to definitely take a
8 look at in connection with the possible
9 limitations on that and also best practices.

10 Another thought was, the reporting
11 from the fishermen in the General and Harpoon
12 categories directed to the agency is an ongoing
13 headache. And ABTA has been pushing this to the
14 fishermen. I think we can do more. You know
15 what, I think the agency and ABTA can do more.
16 We just need to get together and strategize on
17 that. Thanks very much.

18 MR. MCHALE: Yes. And, thank you,
19 David. I know one thing that had come up
20 yesterday was the streamlining of vessel

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1 reporting overall. And so where predominately,
2 you have a lot of these vessels, excuse me, that
3 may have multiple permits, so they may have VTR
4 requirement and then, in addition, the HMS, and
5 so some of the efforts that we're trying to push
6 that forward, would hopefully increase that
7 compliance rate where for example, underneath
8 some of the GARFO regulations, regardless of what
9 your target species is, you have to report your
10 catch through that methodology.

11 And I think it's kind of common place
12 where folks, and I understand that some think,
13 well, I just reported my VTR. That now has met
14 my HMS requirements. And so it's trying to break
15 down those stove pipes, where all of a sudden
16 that actually comes to a fruition versus a
17 misconception of fishery. So, thank you, David.

18 MR. BROOKS: Thanks. I've got a few
19 people in here, I've got Raymond, Jason, Glen,
20 Mike, Scott, Tim, and George. And then, I think

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1 Greg as well, just Tim did here -- oh, sorry,
2 Walter. Let's go Raymond.

3 MR. KANE: Yes, good morning, Brad.
4 Thank you for the presentation. What strikes me
5 is your compliance issues. We have it rampant
6 throughout many fisheries in New England. I know
7 on a State level we've set up by a green, yellow,
8 and red box. Well currently what are the fines?
9 Like, if a boat doesn't report in time or the
10 dealer doesn't report in time? Is it like a \$50
11 ticket? Is it a thousand-dollar ticket? Have
12 we any idea?

13 MR. MCHALE: We definitely have a, and
14 this came up yesterday, a penalty schedule that
15 I want to say it's almost like \$500 for first
16 offense, but I'm shooting from the hip here.

17 But there are kind of relatively
18 fines, stiff fines depending on whether it's a
19 commercial or recreational. But it's also how
20 egregious is that reported.

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1 Are they repeat offenders? Are there
2 high volumes of fish? You know, so things can
3 go from almost a citation at -- let's say you
4 have five fish you're delinquent on. Is that
5 five, \$500 penalty so now you're at, say, a \$2,500
6 fine. Or is it so egregious that we would then
7 collaborate with the Office of Law Enforcement,
8 and our attorneys of Law Enforcement, where maybe
9 a NOVA is more appropriate based upon the
10 behaviors being experienced in that particular
11 incident.

12 So there are essentially, the speeding
13 ticket versions as well as all the way on,
14 depending on the specifics or how egregious the
15 delays are.

16 MR. KANE: Thank you.

17 MR. BROOKS: Thanks. Jason.

18 MR. ADRIANCE: Thanks. Brad, are you
19 able to get back to Slide 22? Yes, that one. I
20 was just curious. And if this is too big

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1 picture, tell me to shut up and I'll wait. Is
2 there anything you're looking at that happened in
3 2012 or a set of things that may have happened
4 that just drove that off the cliff?

5 MR. MCHALE: Unfortunately, we have not
6 necessarily had the time to kind of do the
7 retroactive of why the 74 down to 49 percent.
8 You know, catch overall had been very solid the
9 last couple of years, so it's not like a -- so
10 one of the things we've heard and again, haven't
11 verified it, is what is the volume of U.S. fish
12 entering the market?

13 And is that ultimately depressing the
14 price to the point where it doesn't make sense to
15 export. So also you see that as a dynamic, which
16 I think there's some merit to that. But, not to
17 the degree where we're seeing that cliff there
18 during '12 to '13. But whenever there's a rainy
19 day or we get a free moment, which essentially
20 doesn't exist, this is something that we would

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1 like to sink our teeth into and collaborate more
2 with also some of the dealers and the exporters.

3 As far as, okay, what did they see?
4 Is it a drop off in quality? I know Walter's
5 looked at that for a number of years, and it's
6 kind of, the quality changes over time. You
7 know, but, unfortunately, we don't have a solid
8 grip right now of the variables at play.

9 MR. BROOKS: I think Scott has an
10 observation on that he wants to weigh in with.

11 MR. TAYLOR: I mean, obviously there's
12 some substantial in the deal or unavailability to
13 the export markets. What we really saw happen
14 in 2017 was a substantial amount of surplus
15 supply on the global market. So primarily most
16 of the fish going into Japan -- I mean, most of
17 the high quality fish go into Japan.

18 So unless you have a fish that really
19 has the right mix of both color and fat content,
20 it doesn't make sense to be able to ship it.

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1 What we saw in 2017 is you could have the right
2 mix of fat and the color content, but there was
3 no real value in shipping it to Japan. So if
4 there's only a couple-of-dollar upside
5 opportunity, the downside of the risk is so
6 substantial because if that goes wrong, you
7 really can wind up, as you said, upside down, you
8 know, in the marketplace.

9 But in general there were just more
10 fish that's on the marketplace. Whether or not
11 that's been associated with, you know,
12 additional, supply or ranching that's going on,
13 or stuff that was coming out of the Med, Spain,
14 Greece producing, you know, fish in general,
15 there was just a lot of high quality fish. And
16 the yen exchange rate was a big factor in that to
17 the dollar as well. So all of that dynamic,
18 ultimately, you know, affects whether or not, you
19 know, Japan becomes a big buyer for these fish.

20 MR. BROOKS: Thanks, Scott. And, then

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1 I think John wants to weigh in on that too.

2 MR. WALTER: Just to point out, during that
3 time, you know, the TAC has been increasing in
4 the East during this entire time. So there will
5 be more fish on the market. And something to
6 think about is that the TAC is going to continue
7 to increase dramatically in the East. And that's
8 going to continue to have this, to depress the
9 exports, our exports.

10 MR. BROOKS: Thanks, John.

11 MR. WALTER: Thanks a lot.

12 MR. BROOKS: All right. Glen. No,
13 who am I looking for here? Okay, Marty, let's
14 go to Mike.

15 (Simultaneous speaking.)

16 MR. BROOKS: I'm sorry, I did. Yes,
17 Dewey.

18 MR. HEMILRIGHT: Thank you for the
19 presentation. That was pretty neat. One of the
20 best transparent presentation that shows about

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1 the bluefin fishery.

2 A couple of things. Question I had
3 to looking at data requirements for reporting and
4 the 24-hour reporting.

5 There's no reason one of the
6 requirements for the dealers is to report within
7 24 hours. So there's no excuses for six, seven,
8 eight, ten days later.

9 I was under the impression the other
10 day, I heard that a dealer was fined for two days
11 being late, a thousand dollars. The other day
12 down in North Carolina.

13 And when somebody gets fined, that
14 helps with compliance. There should be no reason
15 for not reporting.

16 Going to the recreation, or to the
17 General category of reporting. Part of the
18 requirements of that is to report within 24 hours
19 your landings.

20 We saw that where over the past three

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1 years we got compliance rates up to 50 percent.
2 Still woefully inadequate.

3 I've had a discussion with you about
4 helping to put on the permit itself, there's a
5 spot in there where you can add that you have to
6 report within 24 hours. And that's going to be
7 looked at, because there's no excuse for not
8 knowing that.

9 Second of all, on your catch and
10 release -- your catch and release part, where you
11 go to report your bluefin tuna. Under the
12 category of fish released and where the
13 discrepancy is of how many fish or inches, or
14 whatever, maybe you could add some additional
15 language that under that is individual fish that
16 were released. Or something to that category.

17 Where they got a piece of paper here
18 where I reported a General category fish that was
19 landed. And there's room for that in there.

20 Also, the breakdown of compliance,

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1 could we have a breakdown of compliance by the
2 seasons to see exactly what season is not
3 reporting within 24 hours? Also, the amount of
4 vessels that's not reporting within 24 hours?

5 Because that would give you an idea,
6 maybe generally, what area doesn't want to
7 report. Who reports the best. And it would also
8 help in seeing who gets rewarded with more
9 categories, I mean, with more fish.

10 That is a problem. And I go back to
11 this reporting issue. It reminds me a little bit
12 with A7 for bluefin tuna where the Agency chose
13 for the pelagic longline industry that if you
14 sent your logbooks in late, and you didn't pick
15 an observer, but you avoided bluefins, your
16 scorecard wasn't good.

17 And so you decided -- you didn't fine
18 them. You decided to take people's livelihood
19 for December to April off a coast where they fish.

20 So the inequities here about what you

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1 all have chosen to do with the General category
2 for not reporting in their compliance in three
3 years, and the inequities of what the Agency
4 chose to do in A7 with the pelagic longline
5 industry is disgraceful.

6 And I want to spread the love of
7 reporting that I have to do --

8 (Laughter)

9 MR. HEMILRIGHT: That I have to do as
10 a pelagic longline fisherman, and the
11 accountability of our industry to everybody else.
12 No more, no less.

13 MR. BROOKS: Thanks Dewey. Oh,
14 didn't mean to cut your off there, sir.

15 MR. HEMILRIGHT: And so, some of these
16 things, you all are getting closer to getting
17 this achievability.

18 But, the way to get the action is if
19 you took the livelihood away from individuals who
20 don't comply, just the same as you all did with

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1 individuals for A7, you'd get a lot quicker
2 response.

3 But your report is very transparent.
4 It's good. It's interesting to see. But, these
5 are just a couple things of tune-ups that would
6 be helpful in the future and going a long way to
7 help individuals comply. Thank you.

8 MR. BROOKS: Thanks Dewey. There's a
9 lot of constructive ideas in there. Saw Brad
10 taking a bunch of notes. Thank you.

11 I want to be mindful of time. We
12 actually need to pivot to the next conversation
13 in about five minutes here.

14 And I've got a bunch of people in the
15 queue. So, I'm going to ask everyone to try to
16 be real focused in their comments.

17 Mike, you're up next.

18 MR. PIERDINOCK: Thank you. I'll try
19 to be straight and to the point. Dewey kind of
20 touched upon a few of these things.

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1 I mean, you noted the 50 percent
2 General category reported versus the seafood
3 dealers. I was curious of whether you had the
4 breakdown?

5 If you looked at the seafood dealers,
6 what states they were from? And compared that
7 to, you know, what was reported?

8 Maybe we could get some trends to
9 identify what states aren't complying. As part
10 of, I'm a board of directors of Stellwagen Bank
11 Charter Boat Association. We get -- we
12 constantly inform them and the public of the need
13 to report.

14 But, you see the numbers don't reflect
15 such. And if that's going on up our neck of the
16 woods, I want to keep pushing. And we'll have
17 others do the same.

18 The other thing is, is with the 24
19 hour seafood reporting, I was curious of whether
20 there was any issues with that with the winter

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1 fishery?

2 And it sounds like there was one
3 issue. And you know, they got fined. But, is
4 it the same dealers? Is it, you know, all over
5 the place?

6 Last one may be addressed later. You
7 noted that the winter fishery had the 24.7 metric
8 ton quota went up to 59.2 metric tons.

9 Did that come -- that transfer come
10 from the Reserve category? Did it come from the
11 Purse Seine category?

12 And maybe I don't have a concern if
13 the ICCAT levels are going to pump things up.
14 But just curious of where it came from. Thanks.

15 MR. MCHALE: So, the end season
16 transfers that took place this year, some of it
17 was moving quota from the December time period
18 forward to the January time period. So,
19 essentially from winter fishery to winter
20 fishery.

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1 And then there was a secondary
2 transfer from the Reserve of that General
3 category as well.

4 MR. BROOKS: Scott?

5 MR. TAYLOR: A question and a comment
6 that we can reserve for later.

7 The question is, is that I noticed
8 that on the charts there's nothing about the
9 longline fishery compliance. Which, as
10 everybody knows, we have VMS and on board, you
11 know, vessel reporting that you're looking at.

12 How -- so the question is, how is the
13 compliance in that fleet as it compares to the
14 General category and the Harpoon that are
15 executing, you know, different fishery? Kind of
16 how is our scorecard in that regard?

17 And the comment is, that I couldn't
18 help but notice that you have 100 percent
19 utilization of the quota in both the General
20 category, Harpoon and recreational fisheries, but

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1 that there is a substantial disconnect in the
2 utilization of the available quota in the
3 longline fishery.

4 And of course, we have zero in the
5 purse seine. Which you know, that I'd like to
6 kind of bookmark as well for later this afternoon
7 so that we can move on. Because I don't think
8 that's a quick topic necessarily.

9 MR. BROOKS: Thanks Scott.

10 MR. McHALE: So, just real quickly.
11 The presentation Tom will have this afternoon
12 will kind of get into more the longline specific
13 data and metrics.

14 So, we'll have your scorecard there.
15 Not yours specifically. But, you know, as a user
16 group.

17 And then, you know, that purse seine.
18 And you know, one thing we note there is how those
19 fisheries remain very differently, IBQ versus
20 fleet-wide management, you know, that's feeding

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1 into some of those numbers.

2 MR. BROOKS: Thanks. Tim?

3 MR. PICKETT: Just a general comment.
4 You know, looking at the pricing data and stuff
5 like that, one thing that I think should be
6 concentrated on is taking care of the fish that
7 you do catch.

8 And a limit of four doesn't
9 necessarily help that in a small boat. You know,
10 I have no doubt that a longline boat can take
11 care of four bluefin tunas.

12 But, you know, a small boat in
13 capacity, and maybe looking at a requirement to
14 carry ice. You know, I have a feeling a lot of
15 the quota gets burned up unnecessarily for
16 Instagram posts and stuff like that.

17 You know, it's just making a better
18 use of the quota that we have in terms of trying
19 to get as much money out of what is being caught
20 as possible.

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1 So, maybe there's a requirement to
2 carry ice. I know in south Florida with the
3 handgear fishery, it's not really enforced as
4 much.

5 But, we're required to carry ice.
6 You're required to carry, I think down by us,
7 that you're supposed to be carrying a pound of
8 ice for every pound of fish that you anticipate
9 catching.

10 So, you know, it becomes a product
11 safety thing too. You know, that plus letting
12 the -- you know, seeing as a lot of these fish
13 are staying domestically, informing the general
14 public. Because the general public is spoon-
15 fed that bluefin tuna you shouldn't eat because
16 it's the last white buffalo.

17 You know, somewhere online, or, you
18 know, the HMS page or the Seafood Watch page, or
19 whatever is going on, say hey, eat this stuff.
20 It's domestically sourced. And it's explicitly

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1 regulated.

2 So, that's it.

3 MR. BROOKS: Marty, you have a quick
4 comment on that?

5
6 MR. SCANLON: Yeah, I do. Number
7 one, I've witnessed firsthand fish being drug
8 behind the boat, not even boated, to the dock to
9 be landed. So, talk about no ice, they don't
10 even come out of the water.

11 Number two, how come HACCP isn't being
12 enforced on those fish? I mean, we have to be -
13 - we're HACCP -- we have to be HACCP approved.

14 We've got to plug our fish. We've got
15 to report to HACCP on what the core temperature
16 of those fish are before we can land them. So,
17 that should be being done.

18 The other thing that I've got is on
19 the discard. Does the Agency have a discard
20 criteria for the General and recreational

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1 category?

2 And what is that criteria? And has
3 it been passed onto those area -- to those
4 categories?

5 MR. BROOKS: Thanks Marty. Brad?

6 MR. McHALE: I'm not quite sure like
7 what you're referring to there like as a criteria
8 there Marty. Can you explain a little further?

9 MR. SCANLON: Well, what would you --
10 what would you consider a discard in the General
11 category? I mean, they rod and reel the boat.
12 Basically the fish isn't dead dead when you
13 release them.

14 But, what is the criteria when you
15 bring the fish into dock, to the boat, do you
16 gaff them? You put them on the boat. You shoot
17 them. Whatever you do.

18 And do you place them back in the
19 water after you measure them, he's not big
20 enough. What is the criteria of what a discard

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1 is in those categories?

2 You know, is the --

3 MR. BROOKS: He's got -- he's got the
4 question. Let him answer.

5 MR. McHALE: Thanks Marty. So,
6 essentially the way the reporting mechanism is
7 set up, is whether fish are released alive or
8 dead.

9 So, if that fish has come up and it's
10 the wrong size class, or you -- if it's exceeded
11 your retention limit and the fish is looking
12 good, you pop the hook, get off, it swims.

13 At the time of release if it's alive,
14 that's essentially how it's reported. You know,
15 within a size category and released alive.

16 In the same context if let's say a 72-
17 inch fish is gaffed. And all of a sudden you get
18 it on board. They measure it. They do the right
19 thing, unfortunately, and release that fish dead,
20 then that is how that fish would be classified,

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1 as a 72-inch fish released dead.

2 And that's kind of -- I didn't have
3 the live releases here. I have that data and I
4 can share that with you. There's a lot of
5 numbers when you kind of look at the size bracket
6 between 59 and 73 of live releases.

7 But, essentially it's categorizing by
8 the size class. And when you're releasing that
9 fish boat-side, is it in a live or dead condition,
10 and then reporting it for sourcing, you know.

11 MR. BROOKS: Thanks Brad.

12 MR. SCANLON: Well, I would think it
13 would be important to see how many fish are being
14 released alive, you know.

15 MR. TAYLOR: Is that for the General
16 category, Brad? Or only for the Longline
17 category? Are you keeping numbers on that?

18 MR. McHALE: We have numbers on both.
19 And so what I will do is I will follow up and
20 share those live releases, combined with the dead

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1 releases.

2 We'll get you those numbers. I have
3 them. I just included dead here because I think
4 that's where the conversation Dewey and I were
5 having at the time.

6 But, I have that information that we
7 can share back. And it is applicable to not only
8 the commercial handgear fisheries, but also like
9 in the longlines.

10 MR. TAYLOR: Is it included in the
11 U.S. dead discard quota? Or just for purposes
12 of the analysis?

13 MR. BROOKS: Let me have Brad --

14 MR. MCHALE: That I'd have to check
15 and see.

16 MR. BROOKS: Look into this and come
17 back later with some updates. Okay?

18 I need to do a little bit of time
19 management here. I have several people in the
20 queue.

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1 What I want to do is give three folks
2 who we haven't heard from today a chance to weight
3 in. And then I'm going to push us to the next
4 topic.

5 So, I'm going to go to George, Walt
6 and Greg. And apologies to anyone else wanting
7 to get in for right now.

8 MR. PURMONT: Thanks Bennett. In
9 continuing the conversation that Dave initiated,
10 fishing practices once the monthly quota is
11 realized, pertaining to the General category.

12 It seems to me a couple of things.
13 One is, the number of participants that are
14 actually out there on the water. We should have
15 a handle as to how many there are.

16 It provides also an opportunity for
17 tagging. Which should be taken advantage of.
18 It's cayo del cielo. It's right there for you.

19 The other thing is about fishing
20 practices, catch and release, General category.

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1 Boats are more oriented to catching. And the
2 practice of catch and release is much different.
3 So that you have a successful horizontal release
4 rather than a vertical release.

5 And I think that also it's an
6 opportunity for somebody like Walt, I'm
7 volunteering somebody else's services, to give
8 seminars to people that would like to be a little
9 more enlightened about catch and release
10 fisheries, as it pertains to giant bluefin.
11 Thank you.

12 MR. BROOKS: Thanks George. Walt?

13 MR. GOLET: Okay, real quick. Brad,
14 you don't have to address these. I'll just say
15 them.

16 Number one is slide 12. I just was
17 curious if that also includes charter
18 boat/headboats? That may skew the numbers a
19 little bit.

20 You probably know several of our

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1 higher profile vessels that do generally bump up
2 against that daily retention limit, quite often
3 catch their three or their four. Whatever their
4 daily retention limit is. And I'm wondering if
5 that might skew the numbers a little bit there?

6 The prices. The price seems on slide
7 21, I don't have them. So I -- this is just a
8 general comment. But 9.75 seems really high for
9 last year.

10 And I'm wondering if this might be an
11 artifact of the mean being pulled. Or the
12 average being pulled by a couple of fish on the
13 upper end. I do know of a couple of fish that
14 were -- that sold very well.

15 And then finally just to comment on
16 what Ray and Dewey put forward in the reporting
17 requirements. The biggest font you can possibly
18 use, to put it somewhere front and center.

19 Because we are witnessing even where
20 we aren't named, an influx of boats, probably

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1 many of which who haven't fished a lot before for
2 bluefin. And honestly, I have no idea.

3 And fish coming in with five pound
4 bags of Cumberland Farm ice draped over the top
5 of them. So, thank you.

6 MR. BROOKS: Thanks. Greg?

7 MR. MAYER: Yeah, I had something to
8 say about reporting. When we were talking about
9 each individual boat having to report on the HMS
10 website.

11 Which actually works out fairly well.
12 I can do it pretty quickly. And Michael had said
13 something about it also.

14 Do you have any numbers about the --
15 like during the winter fishery and the summer
16 fishery, what the reporting compliance is?

17 And the reason I say that is where
18 we're fishing, it's one small harbor. Most all
19 of the fish are coming into Wanchese.

20 We've got a bunch of boats that are

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1 coming in there. There is some pretty good
2 enforcement.

3 There's a handful of NOAA guys that
4 have been down there on the dock talking to the
5 boats. Going around and making sure everyone's
6 reporting.

7 The example that Dewey brought up was
8 a fish house that caught their fish on a Saturday
9 -- what they were normally doing, on a weekend,
10 Saturday and Sunday, they'd report it on Monday.

11 Well, the reason the NOAA guy came in
12 and gave them a ticket for their fish on Saturday,
13 is because one of the fishermen had reported it
14 in his individual report.

15 So, when you're talking about
16 reporting, I'd like to know, is there a gap
17 between our fishery, or I said our fishery, the
18 winter fishery or what happens during the rest of
19 the year?

20 Because ours is so concentrated. And

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1 we've got enforcement right there, actually
2 spreading the message to let everyone know to
3 report. That's all I was checking on.

4 MR. BROOKS: Thanks. All right.
5 Yeah, Brad, please.

6 MR. McHALE: So, because that request
7 has come up, yes. The information within the
8 reports will allow my staff and I to break that
9 down either temporally or geographically.

10 So, we can do that and probably have
11 something set up for the fall meeting, if not
12 sooner regarding those compliance rates.

13 And as it relates to kind of the
14 dealer and the citation that took place, you
15 know, that was the dynamic that I mentioned in
16 the slides. Is that based upon what transpired
17 in '17, our tolerance limit is extremely low here
18 in '18. Regardless of where the fishery is
19 taking place.

20 And unfortunately that individual,

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1 you know, was the first one out of the season.
2 But I suspect there will be more of those
3 citations, especially in the summer months and
4 fall months, where if the expectations the Agency
5 is going to be held to be that responsive, then
6 we all have to do our part.

7 And I'd much rather have voluntary
8 compliance to support the fishery as a whole.
9 But, we've seen kind of where that's gotten us in
10 the last couple of years.

11 So, but as far as that geographic and
12 temporal breakdown, we'll tease that data apart
13 so we can kind of see if there's a -- what the
14 trends are.

15 MR. BROOKS: David can you be super
16 fast? I need it to be really fast. We're really
17 off schedule here.

18 MR. SCHALIT: Regarding best
19 practices. I think that this is fairly
20 important.

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1 We've talked about bringing more
2 bluefin tuna into the food chain in this country.
3 Whereas in 2012 we had exports of -- we were
4 exporting 75 percent of our catch.

5 And now we're exporting way less. And
6 so it means -- it emphasizes that we need to
7 establish best practices for onboard handling of
8 tuna intended to be eaten as sashimi. Thanks.

9 MR. BROOKS: Thanks. Brad, thanks
10 for a really strong presentation. It's obviously
11 creating some important conversations here.

12 Sarah, are you going to make your way
13 up here? It would be good.

14 As you're coming, clearly the big
15 focus this morning here was around compliance.
16 And a lot of really good ideas for moving forward.

17 And some good suggestions on data as
18 well. And then looking at prices and thinking
19 about what that means for market, for handling of
20 tuna, et cetera.

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1 So, at this point, we want to shift to
2 hearing about implementation of ICCAT
3 recommendations for bluefin tuna and northern
4 albacore. So, Sarah, it's all yours.

5 MS. McLAUGHLIN: All right. Good
6 morning everyone. I'm Sarah McLaughlin from the
7 Northeast HMS Office in Gloucester.

8 And as you heard earlier, we have two
9 new ICCAT recommendations. One for Atlantic
10 bluefin tuna and one for northern albacore that
11 need to be implemented.

12 And at the ICCAT meeting I'm the NMFS
13 staff lead for Panel 2 issues, which cover the
14 temperate tuna fisheries.

15 All right. First we have an outline.
16 And before diving into the recommendations, I'll
17 provide some basic information about harvest
18 control rules and management strategy evaluation,
19 which we spent some time talking about at the
20 ICCAT advisory committee meeting earlier this

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1 week.

2 And then I'll summarize what's in the
3 2017 recommendations. And the need for
4 rulemaking to implement the new quotas.

5 And I'll show what the baseline and -
6 - what the baseline quotas are now, subquotas,
7 and what they would be under the recommended
8 bluefin quota.

9 I'll also review an issue that I think
10 we heard a little bit about at the last meeting,
11 and we've heard comments back at home, to address
12 shark-damaged tunas. So, having a minor change
13 to the regulations to allow retention of those.

14 And then lastly I'll share the
15 anticipated timing for our proposed and final
16 rule.

17 So, ICCAT has been working for several
18 years towards the adoption of harvest control
19 rules for priority stocks. Which were identified
20 as northern albacore, swordfish, bluefin tuna,

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1 and tropical tunas.

2 Harvest control rules implement pre-
3 agreed management actions that will occur in
4 response to various stock status and other
5 performance indicators to help ensure identified
6 management objectives are achieved.

7 Objectives can include the target
8 reference point, like B target or F target. And
9 avoiding a limit reference point -- on this
10 chart, it's B_{lim} , below which the sustainability
11 of the stock may be in danger.

12 I've included on this slide the
13 generic form of a harvest control rule. And as
14 you know, generally the ICCAT objective is to
15 maintain populations at levels that will support
16 the maximum sustainable yield.

17 As part of this process, performance
18 indicators are identified. And for northern
19 albacore they fall into four bins: about the
20 stock status; the safety, which is staying above

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1 that biomass limit; yield, which is mean catch
2 over various time frames; and stability, such as
3 variation in catch from year to year, or TAC from
4 one management period to the next.

5 Management strategy evaluation is the
6 inclusive, interactive, and iterative process for
7 evaluating the performance of potential candidate
8 harvest control rules and reference points in
9 relation to the management objectives.

10 And ICCAT has identified northern
11 albacore as the pilot stock for this effort. I
12 think we started talking about it in 2013.

13 And the relevant management objective
14 for northern albacore, now that it's in the green
15 zone, is to maintain the stock in the green zone
16 with at least a 60 percent probability, and
17 maximize long term yield.

18 You'll also hear the term management
19 procedures, which are sometimes called harvest
20 strategies. And that includes the stock

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1 monitoring, the harvest control rule, and
2 management strategy evaluation. The whole
3 process.

4 All right. So first we have northern
5 albacore. ICCAT adopted a harvest control rule
6 for northern albacore on an interim basis.

7 And application of this harvest
8 control rule resulted in a TAC increase of 20
9 percent. Where's Jason? Yes.

10 MR. SCHRATWIESER: Yes.

11 MS. McLAUGHLIN: Thank you. Twenty
12 percent -- I need someone to be excited. Twenty
13 percent increase from 28,000 metric tons to
14 33,600 metric tons for each of the next -- these
15 three years, 2018, 2019, 2020.

16 And that's consistent with the
17 stability clause of the harvest control rule.
18 Which basically says that it wouldn't increase
19 more than 20 percent. So there you go.

20 The U.S. baseline quota has increased

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1 by 20 percent from 527 to 632.4 metric tons. And
2 the SCRS is going to continue to develop the
3 management strategy evaluation over this interim
4 period.

5 And the Commission will review it in
6 2020 with a view to adopting long term management
7 procedures at that point.

8 This year, just some sort of
9 housekeeping, the ICCAT would be merging this new
10 harvest control rule text with the previous
11 recommendation, which contained other aspects of
12 the northern albacore management plan.
13 Including things like capacity management, ICCAT
14 record of vessels. So they'll just be putting
15 it into one comprehensive recommendation.

16 For western Atlantic bluefin tuna, we
17 have Recommendation 17-06. This is an interim
18 conservation and management plan.

19 It's intended to be responsive to the
20 stock assessment, the scientific advice that we

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1 got in 2017. While recognizing the need for a
2 transition from the 20-year rebuilding program
3 that was adopted in 1998 and a future approach
4 that's -- that relies on management procedures.

5 And that, like I said, bluefin is
6 another priority stock. And probably the next
7 one that ICCAT will be working on.

8 The TAC increase from 2000 to 2,350,
9 that's about 17 and a half percent for each of
10 2018, 2019, and 2020. And this adopted TAC is
11 consistent with the scientific advice.

12 The baseline quota for the U.S. is
13 increased by 189 metric tons to about 1,248
14 metric tons. The total U.S. quota includes 25
15 metric tons in the NED. So that total with that
16 25 metric tons is about 1,273 metric tons.

17 The recommendation maintained the
18 other quota related provisions. So for school
19 bluefin, we continue to have a 10-percent cap by
20 weight.

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1 So where that was a cap of 108 metric
2 tons, now it would be 127 metric tons that could
3 be 27 to 47 inches. We also continue to have the
4 10-percent cap on how much we can carry forward
5 if we have an underharvest from one year to the
6 next.

7 Right now for 2018 it's still based on
8 the previous recommendation. So, it's 108 metric
9 tons. Going forward under this interim time
10 period it would be 127. So if we have
11 underharvest we can roll forward up to 127 in the
12 future.

13 We need to conduct rulemaking because
14 the codified base quotas right now will remain in
15 effect until we have a final rule effective --
16 that implements these two recommendations.

17 For bluefin, I'm going to show on the
18 next two slides what application of the currently
19 codified quota allocations in the regulations
20 would be when you apply them to the new ICCAT

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1 bluefin recommendation.

2 For albacore, we don't divide the U.S.
3 quota up into subquotas. So it's just a matter
4 of updating it in the regulations to be the 20
5 percent increase to 632.

6 You'll want to look at these on your
7 screen where it says here. But, the middle
8 column shows the bluefin, the U.S. bluefin quota
9 divided into the category subquotas.

10 And on the right-hand side is what
11 they would be under the new -- the adopted bluefin
12 U.S. quota, or the U.S. quota that's part of the
13 adopted TAC.

14 So for example, the General category
15 quota now is about 467. And it would be about
16 556.

17 The next slide shows further breakdown
18 for the General category and the Angling
19 category. So General category is broken into
20 time period subquotas. And then the Angling

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1 category is broken into the different size
2 classes. And then the north and south component.

3 Like Brad mentioned earlier, we have
4 a very small amount of quota in the Trophy
5 category. It's been 1.5 metric tons. That will
6 go up to 1.8. You can see the details there.

7 All right. So that was the quotas.
8 That was ICCAT recommendation that needs to be
9 implemented.

10 One thing that we've been talking
11 about addressing, and that we could also do in
12 this proposed rule is address retention of shark-
13 damaged tunas.

14 So, the minimum size regulations for
15 tunas have been in place since 1996. Minimum
16 size of 27 inches for bluefin, bigeye and
17 yellowfin.

18 And the tunas -- these tunas can be
19 landed round with the fins intact or eviscerated
20 with the head and fins removed, as long as one

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1 pectoral fin and importantly here, the tail,
2 remain attached.

3 They can't be filleted or cut into
4 pieces. The lobes of the tail can be trimmed.
5 They can be cut back for storage. But the tail,
6 the fork of the tail must still be there.

7 So when, as you know, a shark damages
8 your tuna, it may not be there. So, we've
9 received requests to change the wording like we
10 have for swordfish.

11 For shark-damaged swordfish, we
12 actually had language quite a while ago in the
13 regulations. And so we could do something very
14 similar, where we say like for instance, a bigeye
15 or yellowfin tuna that's damaged by shark bites
16 may be retained only if the remainder of the fish
17 is equal or greater to that minimum size, 27
18 inches.

19 Anticipated timing -- I plan on
20 working on this rule when we get back home. Hope

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1 to have a proposed rule out late March.

2 Typically have a 30-day comment
3 period. Probably have a webinar. And the final
4 rule we typically put out June or July.

5 We usually wait for the complete data,
6 catch data from the previous year. And we have
7 that at that time.

8 So, typically we put out a final rule
9 then. Typically there's a 30-day delay in
10 effectiveness. So, these adjusted quotas are
11 likely to be in effect late July or August.

12 But there are other actions that Brad
13 mentioned that can change the quotas for 2018.
14 We have the annual reallocation of the Purse
15 Seine quota to the Reserve.

16 And we'll be working on that when we
17 get home as well. Last year that was about 138
18 metric tons that were reallocated from Purse
19 Seine and went into the Reserve.

20 And then we also have the adjustment

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1 for underharvest. Expect that to happen, again
2 when we have the complete information for 2017,
3 probably in July.

4 And I anticipate based on catch
5 figures that Brad showed that we will have
6 underharvest beyond what we're allowed to carry
7 forward. So, we probably will be carrying
8 forward 108 metric tons that will get put into
9 the Reserve this summer.

10 So that's the timing. And I can take
11 any questions. Or you can use more time to ask
12 Brad questions now.

13 MR. BROOKS: All right. Well, let's
14 focus on you first here. Let's take some
15 questions and comments. David?

16 MR. SCHALIT: Excellent presentation
17 Sarah. Typically when do you have file
18 statistics on recreational landings?

19 MS. McLAUGHLIN: From the year
20 before? We have them now. And that was part of

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1 what Brad showed you from that breakdown of size
2 class.

3 So we have them typically in -- by
4 early, mid-February.

5 MR. BROOKS: Mike?

6 MR. PIERDINOCK: Thank you. The
7 recreational Trophy category continues to be very
8 small. Even with the ICCAT increase.

9 You know, up our neck of the woods we
10 typically suffer from that being shut down in
11 August. I'm just interested if there's going to
12 be any relief in any way of increasing that to
13 reflect the fact that we need it open.

14 That time of the year is where it's
15 the hot time of the year up in north of Cape Cod.
16 And maybe with that you could see a relief of
17 those individuals that are getting General
18 category permits.

19 And the fact that they could get a
20 Trophy category, they would go down that road

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1 instead of going the General or getting their
2 captain's license to get a Charter/Headboat
3 approach.

4 Is there any potential of that
5 occurring?

6 MR. McHALE: So, in regards to this
7 specific action, no. What this action Sarah just
8 spoke to is literally just applying that ICCAT
9 quota increase to the allocations that are
10 established via the FMP.

11 Knowing and acknowledging that those
12 Trophy quotas are very small and that a
13 compromise is fishing opportunities not only in
14 the northeast, but also in the mid-Atlantic where
15 the size class of those fish is so predominant.

16 When you're looking to increase that,
17 you're actually looking at more of an FMP
18 amendment. You know, reallocation is really
19 what's involved in kind of modifying some of
20 those subquotas.

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1 So, it's more of a -- along that
2 altitude versus a quick fix.

3 MR. BROOKS: Great. Thanks. Let's
4 go down to the far corner and then out to Scott.
5 So, we'll go with -- let's go with George first.

6 MR. PURMONT: A very nice
7 presentation. Thank you Sarah.

8 What percentage of albacore, of the
9 baseline 527 metric tons do we actually catch?

10 MS. McLAUGHLIN: Where's Heather? I
11 can tell you that we have a report that we post
12 on the website.

13 But it was way under.

14 MR. PURMONT: So, I guess my question
15 is, what promotes the 632 metric tons that we've
16 been reallocated?

17 MS. McLAUGHLIN: What promotes it?
18 What --

19 MR. BROOKS: What do you mean by that
20 George?

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1 MR. PURMONT: Well, essentially if
2 you're not catching what you're allocated, why do
3 you necessarily get more? What's the logic?

4 MS. McLAUGHLIN: At ICCAT the
5 application of the harvest control rule resulted
6 in just a TAC increase. The EU is the biggest
7 northern albacore user.

8 We are a small player on the northern
9 albacore stage. Our, you know, our quota is now
10 about 600. And the EU has the lion's share,
11 like, you know, high 20 thousands.

12 So, it just the science support -- the
13 science supports more catch. And so the quotas
14 are up.

15 Yeah, it would be nice if we could
16 catch it.

17 MR. BROOKS: John, you want to weigh
18 in on that?

19 DR. GRAVES: Yeah. Just to that
20 point George. There is a quota allocation key

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1 for northern albacore.

2 And so the United States is dialed in
3 there. And when they cut the TAC to allow
4 rebuilding of northern albacore, which is another
5 ICCAT success story, we had to take the cuts.

6 And it was of concern, because as you
7 know, albacore availability to our fisheries
8 varies dramatically year to year. And so when
9 we did the allocation key, it was based on sort
10 of a long-term mean.

11 And but then again, some years we use
12 it. Or may come up close. But other years we
13 don't.

14 MR. BROOKS: Thanks. I've got Greg,
15 Walt, Scott, Shana, and Glen. That's left over?
16 Okay. Greg?

17 MR. MAYER: The one thing I'd like to
18 address, where you said we could retain shark-
19 mutilated tunas, that would be really good for
20 our charter fleet. Because we go through a

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1 period of time there in June and July, we've got
2 charters every day.

3 Yellowfin fishing is great. Bigeye
4 fishing is really good. And there's days that
5 boats will lose anywhere from seven to ten, up to
6 20 fish a day sometimes.

7 And we've been told by enforcement
8 that you're not allowed to bring anything in. A
9 lot of these fish are 50 or 60 pounds. And you
10 come back with 25 pounds of meat that's 24, you
11 know, 24 inches long or something.

12 If we could retain that, for one thing
13 it would help -- it would help not have, you know,
14 once we could retain them, you could apply them
15 to your retention limit, you know, three per
16 person.

17 And then the effort would stop.
18 Instead of staying there, trying to get a whole
19 fish away from the sharks, now you've got
20 something for your people to bring home.

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1 And it would really help us out. And
2 I know the longline fleet in our area has got the
3 same problem.

4 You know, they're trying to make a
5 living. They're trying to sell a fish. You
6 know, normally they'd sell their fish whole.
7 But, if they've got a piece you get enough pieces
8 to put together, you made a paycheck right there.

9 So, if we could retain them and have
10 a standard for you. You could have 27 inches or
11 whatever it needed to be.

12 But, that would be -- that would
13 really help a lot of people out. And it would
14 be less of a waste of resource.

15 MR. BROOKS: Great. Thank you.
16 Scott?

17 MR. TAYLOR: Actually I have a
18 question. And also I wanted to kind of, you
19 know, make you aware of the fact that in the next
20 day or so there will be an announcement that we've

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1 moved forward to MSC-certify albacore tuna in
2 light of the stock assessment and the changes
3 that were made at ICCAT.

4 This has been a species that has been,
5 in my opinion, extremely undervalued for us.
6 It's a great fish.

7 But it hasn't had much commercial
8 value. And so, there's really not been much
9 effort in this particular country that's been
10 made to market the product.

11 It's, you know, sort of what we do
12 that that marketing should make it more
13 attractive to the EU market and some other places
14 where we hope to find a home for it. And with
15 increased value in the fish, there may present
16 some additional commercial opportunity for us to
17 catch it.

18 Again, this is a species that is
19 available to us to catch, but just hasn't been
20 pursued because the economics have not been

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1 there.

2 The second question has to do with,
3 you know, quota. And just kind of an overview.

4 I remember in years gone past, and
5 probably a subject for sidebar maybe for Walt or
6 the other experts. You know, in bluefins that
7 for a long time that there was this sort of status
8 quo perspective of the, you know, an eastern
9 stock and a western stock.

10 I know of a friend recently that
11 tagged a fish here off of Nova Scotia. It was
12 recovered in the net. Within the last couple of
13 months they got the tag information back.

14 And with that, you know, with this new
15 perspective of sort of mixing of stocks, can we
16 anticipate different modeling and additional
17 increases that might fall more into line with
18 what we're seeing?

19 I mean, you know, there's just huge
20 numbers of fish out there that we're seeing. And

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1 that the modeling was always kind of based on
2 these two separate things.

3 MR. GOLET: I mean, I'm not in a place
4 to talk about assessment. We do have an
5 assessment scientist in the room.

6 I will let him approach you if he
7 chooses. Not to call him out.

8 But, all I can comment to you is on
9 the stuff we do with the otolith and the mixing
10 is exceptionally high. You know, depending on
11 the mixing model that you use or the out, you
12 know the stock composition model that you use.

13 Eastern contributions can be between
14 60 and 80 percent. Even across some of the
15 larger size classes.

16 So, it's substantial. Subsidies are
17 substantial from the east.

18 MR. TAYLOR: If you could speak maybe
19 to how that may impact us in the near future at
20 ICCAT. That would be useful.

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1 MR. MCHALE: Let me see if John Walter
2 wants to weigh in now.

3 (Laughter)

4 MR. WALTER: So, thanks for being
5 here. I was almost out of it. But, thanks --
6 thank you for bringing that up.

7 And the mixing is a big issue. And
8 we are seeing a lot of mixing. And that our --
9 in particular fisheries in the -- off of Canada
10 where we thought were 100 percent western stock
11 origin fish, where those fish actually go to the
12 Med during their spawning time.

13 So, probably the best path forward for
14 bluefin is really in the MSE process. That's
15 what ICCAT is thinking.

16 And so the operating model, which is
17 basically trying to capture the biology, is
18 explicitly incorporating mixing. So that is
19 going to account for the mixing of stocks under
20 different scenarios.

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1 The challenge with incorporating it
2 for the current stock assessment was that there's
3 still a tremendous amount of uncertainty with
4 mixing. In fact, just this recent data that's
5 come in in the last couple of years has changed
6 what we've thought about mixing in particular,
7 like with the Canadian fisheries.

8 So we just didn't have the time to
9 incorporate all of this new information. We're
10 constantly learning about their mixing.

11 So the stock assessment remained
12 largely two separate stocks. And I can't comment
13 for the future of what that mixing is going to do
14 for quotas.

15 But, it is part of the model that's
16 used for the MSE.

17 MR. BROOKS: Thank you. That was
18 helpful. Sarah, Brad, anything you want to add
19 to that? No. Okay.

20 Okay, I've got Shana, Glen, Rick and

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1 Marty.

2 MS. MILLER: Just one point on the
3 mixing. As the eastern quota is going up, you
4 know, threefold over just a handful of years, and
5 Walt mentioned those really high mixing rates,
6 you know, there's a strong possibility that the
7 U.S. fishery is going to be hurt by those eastern
8 quota increases via less subsidy coming over.

9 But, regarding Sarah, your
10 presentation, thank you. I will not get too far
11 into the ICCAT discussion, since we had that
12 earlier this week.

13 But, you know, it was a disappointment
14 that the U.S. went in, you know, especially given
15 that we had this rebuilding plan that was
16 supposed to end this year. And went in and
17 pushed for this higher quota that we know will
18 lead to stock decline. At least that's what the
19 stock assessment suggested.

20 And so as you take this rule and

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1 implement it domestically, I hope you also
2 consider the science that suggests this quota
3 decline will -- possibly there will need to be a
4 quota decline in the next few years. Potentially
5 below the two thousand tons where we already
6 were.

7 And so, you know, any efforts to relax
8 domestic requirements now, we might be back here
9 in a few years having to put them all back in
10 place. Thanks.

11 MR. BROOKS: Thanks. Glen?

12 MR. HOPKINS: Yes. I just want to
13 thank you all for finally addressing the
14 mutilated fish issue.

15 But I am wondering, why is the
16 insistence on having the fork always intact if -
17 - I mean, what I run up against is -- I have a
18 small boat. And I'd like to cut the thing off
19 at the fork.

20 If I've got a fish that -- or a carcass

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1 that's 50 inches, why would I have to cut that
2 fork off? I mean, there's no ID purpose with
3 that little bit.

4 I mean, it's just common sense if the
5 carcass is 50 inches, surely it's, you know,
6 longer the 27-inch minimum size. That's one
7 thing.

8 Another, just a comment, is also with
9 the fork having to be intact. A hooked fish
10 that's trying to escape a shark, a lot of times
11 that's the first attack point, is the tail.

12 And so the tail is going to be
13 naturally bit off by the shark. So, are we
14 saying that you can bring in mutilated fish? But
15 if they bit it off at the tail, then you can't
16 bring it in legally?

17 And I'd also just like to make a note
18 of it just kind of begs the question of why we're
19 having this discussion to start with. It kind
20 of ties in with later on.

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1 But, sharks are, in my opinion, way
2 out of balance. And here we are taking a nice
3 high dollar resource and sacrificing a great
4 amount of it to feeding sharks.

5 So, anyway, but my main question is
6 why do we have to insist on having the 27 -- or
7 the fork intact if the fish is obviously big
8 enough?

9 MR. BROOKS: All right. Thank you.
10 Sarah or Brad, do you want to weigh in on that?

11 MR. McHALE: So, in essence, for all
12 of our regulated Atlantic tunas, given that we do
13 have minimum sizes, and in particular in
14 bluefins, especially in recreational fishery,
15 different sizes that we dial our retention limits
16 into, that fork length measurement, whether it's
17 to the snout or to the fin, is the sole criteria
18 of how those fish are measured and then
19 classified.

20 And that's something we've held true

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1 to -- I think we entertained doing away with that
2 back in maybe the 2006 rulemaking. And then
3 proceeded to maintain it based upon the
4 enforcement difficulties it would have
5 introduced.

6 Now, acknowledging that and with this
7 particular proposal that would be forthcoming,
8 we've heard not only from the longliners, but
9 also the for-hire fleet of exactly the points you
10 both have made. And Jeff has made around this
11 table, and Dewey, as well as others, of the number
12 of fish heads that say come back to the boat.

13 And you know what, they don't fill the
14 hole. And they don't satisfy the customer.

15 So, we're looking to try to figure out
16 where we can make those accommodations where if
17 that fish is naturally damaged, and in this case
18 say, we propose that even if the tail is mutilated
19 because of the attack characteristics of some of
20 these sharks. But if what remains is above that

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1 minimum size, to make that accommodation.

2 And that's kind of currently where
3 we're at. Again, it's the sole criteria. That
4 sole criteria has led to the discard of a lot of
5 those mutilated bigeye, yellowfin and bluefin and
6 albacore for that matter, where there's still
7 valuable meat left on that carcass that can't
8 come shore-side.

9 It's trying to strike that right
10 balance.

11 MR. BROOKS: Thank you.

12 MR. HOPKINS: Yeah. I appreciate
13 that. But, could you maybe look -- I understand
14 with a bluefin you've got all the different
15 lengths and measurements.

16 But, on the yellowfin, the base tunas
17 if you could look at maybe doing away. If it's
18 obvious -- if a fish is 50 inches long with the
19 tail cut off, then obviously it's long enough.

20 So, just maybe you all could, it seems

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1 like it would be a pretty easy lift there to do
2 that. Thank you.

3 MR. McHALE: We can consider it.

4 MR. BROOKS: Thanks. Rick Bellavance
5 and then over to Rick Weber.

6 MR. BELLAVANCE: Thanks Brad and
7 Sarah for your presentations. I'd like to just
8 take a second if I could to make some
9 recommendations regarding the Angling category
10 retention for 2018.

11 When I looked at some of Brad's
12 slides, it looked like there was a pretty
13 significant increase in the school bluefin catch,
14 the numbers of fish for last year. And then when
15 I looked at his length at age, or catch at length
16 chart, it also looked like there may be a little
17 cohort of that size school possibly developing.

18 So, I guess I'm more worried about
19 inconsistency with regulations from year to year.
20 And if there's a chance that these fish are going

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1 to grow a little bigger, maybe weigh a little
2 more.

3 The increase in catch potentially go
4 up, that we may actually exceed our Angling
5 category quota. So, with that in mind, and since
6 the quota's averaged for the next three years,
7 it's not going to change.

8 I think I'd recommend keeping the
9 Angling category adjustments like they were last
10 year on April 30 when you increased them from one
11 fish to the three. Keeping that the same for
12 next year to see how it plays out.

13 And then if there is a change and I'm
14 updated, it looked like it might have been a bump,
15 you know, any consistency there, we could look at
16 an adjustment in 2019. But for next year I think
17 I'd recommend, for a safety precaution, to kind
18 of keep things the way they were.

19 MR. BROOKS: Thanks. Rick Weber?

20 MR. WEBER: Shana brought up a point

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1 that was on my mind. Just in the spirit of Margo
2 with no surprises that what was selected by ICCAT
3 is going to lead to a decrease in biomass over
4 time.

5 But that has more to do with the '03
6 year class working its way out the top end. And
7 it's not that they necessarily selected something
8 that was -- there were almost no lines that
9 maintained the biomass.

10 Everything was going to go down as the
11 '03 year class moved. And I knew there'd be, to
12 that point.

13 But in that diagram, there was one
14 that maintained. Everything was going to go down
15 largely as a result of the '03 class.

16 But Shana, in support really that's
17 what this group needs to know, is things like
18 that. That we're going -- you know, I mean, the
19 numbers that were there are going to lead to an
20 eventual decrease in the biomass just from

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1 harvesting what's there.

2 Hopefully Brad, I noted that a
3 possible 2012 class. And maybe this bump that
4 we've seen in rec is another year class that is
5 going to come through that will help us get
6 optimism into the assessment.

7 And just as Walt didn't want to call
8 out the stock scientist in the room, I understand
9 that Walt has an alternate measurement that he's
10 had to develop for his otolith studies. Because
11 all he gets is heads.

12 And he has to go back and back
13 calculate length based on heads. And though it's
14 not an immediate solution and it's not -- there's
15 at least an alternative in development there that
16 maybe helpful.

17 MR. BROOKS: Thanks Rick. Shana, did
18 you want to respond just quickly to that?

19 MS. MILLER: Yeah. Just on the 2003
20 year class. The reason it would disappear is

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1 because the F_{0.1} strategy that the SCRS
2 recommended is allowing them to be fished out.

3 Those fish are only, you know, 15
4 years old they're selling. They could live for
5 more than double that time based on their life
6 expectancy if they weren't fished out by this
7 increased quota.

8 MR. BROOKS: Okay. We are getting
9 close to break. But I want to get a few folks
10 in here.

11 Hold on, David. Because I want to get
12 Marty in, Bob, Mike and then over to David.

13 MR. SCANLON: Well, we could
14 certainly live with the 27 inches. Does -- that
15 means that -- what I'm reading here is that the
16 tail is bit off and the fork isn't there, as long
17 as it's 27 inches, we'll be able to keep it.
18 Right?

19 And the one quick comment I'd like to
20 have here to Brad really on the last issue is

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1 that if you had done, I think, that financial
2 thing on the prices of the bluefins, if you had
3 taken and looked at what the difference is in
4 retention limit.

5 If you had put a graph in on that, on,
6 you know, what the retention limit, you know,
7 what the price would be as you do the retention
8 limit. Thanks.

9 MR. BROOKS: Thanks. Bob?

10 MR. BOGAN: How you doing? I just
11 was thinking about the slight quota increase.
12 And I'm thinking about large party and headboats.

13 We used to have a -- used to be able
14 to keep up to 30 fish, like one per man on a party
15 boat. I think that was -- I don't know if that
16 was the late '90s or early 2000s, or whatever.

17 But now we're subject to the same
18 rules, the same catch limits as a guy in his own
19 private boat. So, you know, the bluefin fishery,
20 especially like in the early '70s, late '60s, was

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1 a viable fishery for the party boats.

2 And now there's very few of us left.
3 So, we were kind of essentially pushed out of the
4 bluefin fishery. Like, you know, it's nice to
5 get a bycatch once in a while. But, we really
6 don't have that opportunity.

7 So I was just wondering if there was
8 some kind of a mechanism in place as the quota
9 goes up to get some more quota to the party boats.

10 MR. BROOKS: Either one of you want
11 to weigh in on that there?

12

13 MR. McHALE: Yeah. I mean it's
14 definitely something we can consider. You're
15 right. It was like the late '90s where we had
16 those liberal limits for the headboats.

17 One of the things I'd want to go back
18 and look at was, what were the contributions of
19 some of those that led to some of the gross
20 exceedances of a recreational catch at that time

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1 as well. And in the grander context of the
2 private boats, the six pack vessels as well as
3 the headboats.

4 But that is within our authority to
5 kind of review those and set different retention
6 limits for those three different types of
7 recreational fishers.

8 So, I wouldn't want to overly make any
9 commitments. But, it's something you know, we
10 can look at in the context of quota increases.

11 MR. BOGAN: Yeah. And even if it
12 wasn't 30 fish for the whole boat. I mean, like,
13 you know, a gradual increase and see how it works
14 out.

15 You know, maybe 12 fish just to start.

16 MR. McHALE: Something we can look at.

17 MR. BROOKS: Thanks. Mike?

18 MR. PIERDINOCK: Thank you Brad.
19 Thank you Sarah. To just throw on the table for
20 the General category or, you know, other

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1 commercial means and methods that are used north
2 of Cape Cod.

3 And it's discussions and the phone
4 calls that you have received and I have received
5 concerning whether you take one fish, two fish,
6 or three fish. There's one consistent thing that
7 all have said, we don't want to see a season
8 closure, especially during the fall months that
9 we rely on bluefin up north of the Cape in those
10 waters.

11 That's the only fish we have. We
12 don't have yellowfin, bigeye or other species.
13 And last year that closure and early closures had
14 a substantial impact on us as well as the entire,
15 you know, like all those that rely on such to
16 make a living.

17 So, you know, whether it's one -- what
18 everyone has said, if you have to have one to
19 keep us open, that's what they would want.

20 But naturally, we deal with the

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1 issues, do I have to go out to Georges Bank? And
2 therefore I need two, maybe three, maybe four to
3 make the economics work.

4 Or, can I go a mile off of Chatham
5 like last year. And like you saw them in your
6 office, and I don't have to go far and you know,
7 the costs are such.

8 So that's a typical thing. But
9 ultimately what I heard from all is, if it has to
10 stay at one to keep it open that's what we need.

11 But then you have the economic end
12 that impacts more of the commercial guys. That
13 they're looking for more.

14 Ultimately the charter/headboat guys
15 though, September, October, they want to see one
16 so they can get out there every day. So, I throw
17 that out there.

18 And I need to place this here, because
19 if we have another closure, there's very few that
20 are surviving on anything other than bluefin.

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1 And with our cod closures north of the 42, we
2 have zero retention.

3 Cod, there's been a two-third or more
4 reduction in charter boat bookings as a result of
5 that. So, bluefin is all we have.

6 And I just want that to be kept in
7 mind with future measures. So, thank you.

8 MR. BROOKS: Thanks Mike. David, you
9 seem to have the last word in many of these
10 conversations.

11 MR. SCHALIT: Unintentional.

12 (Off mic comment)

13 MR. SCHALIT: Yeah.

14 (Laughter)

15 MR. BROOKS: Fortunately that's --
16 fortunately that's not in the ground rules. So,
17 you're able to say that.

18 MR. SCHALIT: With regard to the 2000
19 it's a very successful -- 2003 year class of
20 bluefin tuna, it would be inaccurate to say that

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1 the fish -- that this year class was fished out.

2 We would -- it would be more accurate
3 to say that it is no longer statistically
4 significant.

5 In actual fact, there is virtually
6 nothing wrong with fishermen taking advantage of
7 a strong year class. It's done in every fishery.
8 Okay.

9 But that's not what I was talk --
10 asked -- I raised my hand on. The issue I'm
11 interested in talking -- mentioning, it has to do
12 with sharks taking a chunk out of tuna. Okay.

13 This, you know, dealers, fish dealers
14 generally who are handling HMS are rather -- are
15 well experienced in managing these kinds of fish
16 who have -- these fish who have been damaged by
17 sharks.

18 The big consideration there,
19 particularly with the market is that there --
20 that the bacteria that's in that shark's teeth,

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1 in its mouth, would not spread to the adjacent
2 tissue, beyond -- you know, in other words they
3 will remove a very large chunk of meat around
4 where that bite took place.

5 And we can understand, this is all
6 just logic. But, this problem could be an issue
7 for charter/headboat or recreational fishermen
8 who don't have that knowledge of these issues
9 with bacteria, which generally tend to spike when
10 the fish goes through rigor mortis, et cetera.

11 And it might be something that the
12 Agency could look at to consider that, you know,
13 charter/headboats, yes, some of them will have
14 experience with this. Some won't.

15 Very often they're filleting the fish
16 right there on board. Recreational guys who
17 fillet the fish on the dock or they fillet the
18 fish at home, may not have that experience.

19 And the net effect will be that people
20 will get sick. That's my comment. Thanks.

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1 MR. BROOKS: Thanks very much. And
2 just so you don't actually get the last word.
3 Shana put her card up. Shana?

4 MS. MILLER: Yeah. Just on the 2003
5 year class. I didn't say that it has been fished
6 out. It's still very much showing up in the
7 catch data, even if not the U.S. catch data.

8 What I had said was that the bump up
9 in the quota, I mean, is intended to, or could
10 fish out that year class. And you know, your
11 point about it being okay to target a strong year
12 class, I think you're right.

13 Except in this case because, you know,
14 we haven't seen strong recruitments for the last
15 almost a decade, the SCRS has recommended
16 protecting that year class. Yet somehow just as
17 they're reaching their reproductive peak, now all
18 of a sudden, you know, they're recommending that
19 we catch them.

20 So, yeah, they're not fished out yet.

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1 And hopefully they won't be.

2 MR. BROOKS: Okay. Thanks everyone
3 for the good comments and for the presentation.
4 It seems like you heard a bunch there and Brad,
5 around support for the mutilated tuna rule with
6 a last minute consideration on bacteria concerns.

7 And a request about dropping the fork
8 requirement, at least for yellowfin tuna and
9 bays. Something to be thinking about.

10 Other ideas that came up were to look
11 at whether there was an opportunity to increase
12 rec trophy allocation in August. Some concerns
13 expressed about the higher quota and whether that
14 in fact could just lead back to dropping quotas
15 in the future.

16 A suggestion to hold steady on Angling
17 quota for 2018. A request to look at the
18 opportunity to increase the quota to headboats
19 and party boats going forward.

20 So, thanks all for the good

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1 conversation. We should go to break. We're just
2 a few minutes off.

3 So, let's aim for being back here by
4 10:35. Thanks.

5 (Whereupon, the above-entitled matter
6 went off the record at 10:22 a.m. and
7 resumed at 10:38 a.m.)

8 MR. BROOKS: All right. If we can get
9 folks up here, we will get going.

10 Okay. So let's get going again here.
11 We want to shift now to shark stock assessment
12 updates. We're going to hear first from Enric
13 Cortes and Joel Rice, who will update us on the,
14 on the sandbar shark stock assessment.

15 And then, that's going to take up the
16 bulk of the time. And then at the end, we'll,
17 Karyl will give us a, a quick sense of assessments
18 to come here in the coming years.

19 So with this, I ask folks to grab
20 their seats, and let's just jump into it.

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1 So I don't know if Enric or Joel,
2 which one of you is going first.

3 MR. RICE: I'll present. Thank you,
4 Chair.

5 As noted, we will be talking about the
6 specifics of sandbar shark assessment that was
7 completed through the SEDAR process, SEDAR number
8 54.

9 Outline of the talk is, should be
10 familiar to most people that have seen stock
11 assessment talks. We'll go over the specifics
12 of the assessment by first comparing the new
13 modeling framework with the last assessment
14 framework, which was SEDAR 21.

15 And then we'll talk about the overview
16 of the new data, and how we adapted to fit into
17 the stock synthesis model, the development of a
18 base case, and then also the presentation of the
19 base case results.

20 As with most SEDAR assessments, the

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1 assessment went, underwent a peer review via the
2 CIE process. We will talk then about the updates
3 based on that CIE review.

4 The scope of the assessment really
5 didn't change from SEDAR 21, which was completed
6 in 2010 using data through 2009. It's mostly the
7 Atlantic states and Gulf of Mexico, though it
8 does include the northern Mexican states of
9 Veracruz and Tamaupilas.

10 MR. BROOKS: Hang on on --- Are folks
11 hearing him in the back of the room? Okay, if
12 you can get a little bit closer to the ---

13 MR. RICE: There we go.

14 So the first thing that we does was a
15 replication analysis with stock synthesis. The
16 previous modeling framework was the State-Space
17 Age-Structured Production Model Framework.

18 Stock synthesis is an integrated
19 analysis that's age and sex structured. And we
20 were able to use fleet and survey-specific

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1 selectivity. We had 11 candidate CPUE series,
2 as before. Four different time series a catch.

3 And then we also used the data and
4 biological parameters that had been used in the
5 previous assessment. The model parameterization
6 is almost identical. The only thing is that
7 instead of structuring it on the age base, we
8 structured it via length.

9 That, and we also included sex-
10 specific growth curves. Other than that, the
11 model parameterization was almost identically,
12 almost identical.

13 I'm not going to go over the
14 individual values. They're there for future
15 reference.

16 Again, just want to talk quickly about
17 the selectivity. There's a lot of parameters
18 here that we don't have to go over.

19 But basically, we re-parameterized
20 some of the selectivities for the recreational

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1 Mexican catch, and then three indices, the
2 Virginia longline index, the Large Pelagics
3 Survey, and also the Panama City gillnet index
4 were re-parameterized from the logistic to double
5 normal.

6 And I'll show the changes in how those
7 were affected.

8 Here, the blue lines are the
9 selectivity curves used in SEDAR 21. And the red
10 lines are the updated selectivity curves.

11 And you can see that, for the most
12 part they fit almost identically through,
13 throughout the H classes.

14 The initial conditions that we used
15 for the model included unfished stock in 1960.
16 We also set recruitment deviations to zero, and
17 this fixed the recruitments to the Beverton Holt
18 stock, stock recruitment curve that was assumed
19 in SEDAR 21.

20 We also allowed a small initial offset

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1 to the recruitment, so that it could be higher or
2 lower than our R-0, depending on how the model
3 needed to get fit.

4 We fitted the catches with outer, and
5 then also some proportional catchabilities for
6 each one of the indices.

7 These are the catches in numbers, or
8 for the replication and the SEDAR 21 analysis.
9 Growth and maturity are the exact same as
10 previously used, and as is the natural mortality.

11 This next slide's pretty hard to see.
12 Those are actually time series of the CPUEs
13 listed on the left, and there's, we didn't change
14 any of those.

15 All right, so at this point, I'm going
16 to show the results from the replication
17 analysis. And this is, note that we are just
18 using a new model, modeling framework to fit the
19 previous SEDAR assessment data, and then going
20 forward, we're going to update that model with

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1 new data.

2 The idea being that every time we
3 switch from one modeling framework to another, we
4 want to make sure that the results are backwards
5 compatible with the previous data.

6 The total and spawning biomass are
7 shown here. Basically, the model estimated
8 initial equilibrium, or equilibrium spawning
9 biomass to be slightly higher than the, the
10 previous model - and I'll show that in a minute
11 - and then a decrease through the 1980s through
12 2010 as the major fishery kicked in.

13 What we're seeing here is, the green
14 line is the SEDAR 21 output from the SPASM model,
15 or the State-Space Age-Structured Production
16 Model.

17 And then the blue line is the
18 replication analysis that was conducted with
19 stock synthesis.

20 Basically, we fit the model really

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1 well. The models were very well-correlated in
2 the time period where we had data. The initial
3 part was not as well-fit, but given the fact that
4 the results were almost identical in 2010, we
5 decided to take these results, and move forward
6 with the model fitting.

7 So just a comparison of the estimated
8 fishing mortality. On the left, we have the
9 replication analysis that shows high ---

10 Don't worry about it.

11 On the left here, we see some, can we
12 get there, no. Here we go.

13 On the left, we've got a really high
14 spike from the recreation and Mexican fisheries
15 coming in with that large input of catch.

16 And then on the right hand, this is
17 the ---

18 MR. BROOKS: You can push the button
19 right here.

20 MR. RICE: Got you. Estimated fishing

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1 mortality from that same fleet from the SEDAR 21
2 analysis.

3 The spike's not as pronounced, but for
4 the most part, the fishing mortality by fleet is,
5 is comparable - especially here in the last few
6 years, what you want to notice is that the main
7 fishing mortality is from that recreation and
8 Mexican fishery, as is replicated in, in the new
9 analysis.

10 So we're going to talk about the fits.
11 All, altogether, the fits to the data were, were
12 very similar, and similar in the fact that we
13 didn't fit all, all the points - especially on
14 the, in the early time series here, we've got
15 this high draw down of the stock during the height
16 of the fishery for the Large Pelagics survey.

17 This is evident again in the fits to
18 the stock synthesis model. But for the most
19 part, the fits to the data are comparable between
20 both modeling frameworks.

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1 I'm just going to go over to the other
2 fits here.

3 Virginia longline is the longest-
4 running time series we have, and it shows one of
5 the largest drops in relative abundance from the
6 1970s, when the stock was relatively unfished,
7 through to the later years of the time series,
8 2010 here.

9 And that's evident with both modeling
10 frameworks here. We can see that that was a
11 relatively well-fed, with stock synthesis, which
12 are these graphs on the right, and all the ones
13 on the left are from the previous SPASM model.

14 There, fits to coast, NMFS coastspan
15 data in the northeast survey are similarly fit.
16 Kind of split the difference here between some of
17 the high inter-annual variability, and for the
18 most part, the 95 percent confidence intervals
19 around the data there.

20 The Pelagic longline observer

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1 program, again, has a slightly precipitous drop
2 that starts later, in the 90s. The model had a
3 hard time fitting that, as the population had
4 been expected to start declining almost a decade
5 before with the advent of the Maine fishery.

6 But then again, the Georgia coastspan
7 fishery is relatively flat on a larger scale.
8 Kind of fit some of the, the trends straight
9 through.

10 Okay. Last slide here on fits. The
11 Panama City gillnet fishery is highly variable,
12 and for the most part relatively flat. Here the
13 fits are fairly comparable for both the
14 southeast, or South Carolina coastspan, and the
15 South Carolina red drum fishery, or index.

16 This one was, was poorly fit. It
17 just, at this point, the model is saying that you
18 can't be going down then going up at the same
19 time when the population is expected to be
20 decreasing throughout.

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1 The age structure. This is,
2 apologize, really difficult to see. For the most
3 part, the numbers, the average age is decreasing
4 from about 6 and a half to about 5 and a half
5 throughout the time, the time series of the
6 model.

7 Recruitment comparison, we're
8 estimating the exact same recruitment curve in
9 both models. So we're relatively confident that
10 based on the results we're getting, and based on
11 the input data in the two different modeling
12 frameworks, we're getting the same results.

13 And here are, because the models are
14 structured slightly differently, you don't get
15 the exact same model outputs. However, we can
16 back-calculate some of them.

17 The grade bars here are the ones you
18 might want to pay attention to. They are the
19 quantities of interest.

20 And so this is your F in 2009 over

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1 FMSY, .62 versus .51. The total FMSY is 0.21
2 versus 0.3. So that indicates that stock
3 synthesis believes that there's slightly higher
4 productivity of the overall stock.

5 Now, there's a couple reasons for
6 that. But mainly, there's an expanded age base
7 in the stock synthesis. We're modeling the age
8 0s, as well as the age 1+s, whereas in SPASM, we
9 were just modeling the age 1+s onwards.

10 And so that's a constraint of the
11 previous model, and one of the reasons we moved
12 to the updated model - so that we could include
13 more of the data.

14 Anyways, the, the overall results here
15 with respect to your, your depletion were very
16 similar. The biomass in 2009 over B0 was .034
17 in the SEDAR 21. And then the replication
18 analysis had it at 0.32.

19 So with respect to your stock status,
20 the estimates are, are almost identical.

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1 Overall conclusions, the early time
2 period was not well fit, mostly due to lack of
3 data. The data rich period, though, was almost
4 identically fit. It, the B_0 and B_{2009} estimates
5 are very similar. The, the ratio is almost
6 identical.

7 Stock synthesis on this side shows a
8 slightly more productive stock, and that's
9 evident in a higher F_{MSY} value.

10 And the estimated stock status in 2009
11 is the same. So that's overfish, not
12 overfishing.

13 And we concluded from this that stock
14 synthesis successfully replicated the results
15 from the SPASM model.

16 All right. So there, from there
17 we're, we started on the assessment update
18 process.

19 And what we did is, we made stepwise
20 changes, adding in new data, updating the

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1 timeframes, and increasing, and changing to the
2 parameterization.

3 So the, some of the main things with
4 that, we increased the longevity from 27 to 31,
5 noting that in 2006 the two assessments prior to
6 this, the longevity had been 40. It had been,
7 gotten dropped back to 27, and now we're updating
8 to 31. So there's been a bit of, of a back and
9 forth.

10 Added some new CPUE series, or updated
11 the CPUE series, and updated the natural
12 mortality. And we were actually able to add
13 length compositions into the model rather than
14 estimating the selectivities outside the model
15 and then putting in.

16 This was based on some of the CIE
17 reviewers from the previous assessment saying
18 that the correct way to include selectivity is to
19 have a, internals to the model.

20 And then I'll talk about the, the

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1 changes to the data, and then go over some of the
2 stepwise changes, and then I'll talk about the,
3 the results from that assessment.

4 So one of the main changes was that we
5 changed from modeling the catch in numbers for
6 catching the actual biomass. And that had the
7 effect of changing the proportionality in some of
8 the years over the relative fleets.

9 I'll note here that you can't actually
10 see the Menhaden discards, because they are so,
11 so tiny throughout. And again, this has a
12 different x-axis on, we were on it for 2015 here
13 for the SEDAR 54, whereas in SEDAR 21 is just in
14 numbers.

15 Again here, I'll notice that, note
16 that re-assessment was conducted in whole weight,
17 not ground weight or gutted weight. And that'll
18 become important later as we talk about
19 projections.

20 But for now, the yellow is the

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1 recreational and Mexican fleet, and you'll notice
2 that in later years since the closure of the
3 fishery, it's made up the bulk of the landings.

4 So as I said, there's been kind of a
5 back and forth between the assessment choices
6 with respect to the parameterization. Here on
7 the left, we're looking at the natural mortality
8 at age.

9 And the last assessment used this
10 green line here, which was a little, has a little
11 break around age 10, and then the slightly
12 decreasing. We updated that via some analysis
13 that, and we did through this process. And so
14 the blue line here is the estimated natural
15 mortality, starting off just a little bit higher
16 than .15, and then dropping down to .118.

17 You see the, the steepness value,
18 which is, helps define the stock recruitment
19 curve changed minimally, from 0.29 to 0.3 from
20 the two different SEDARs.

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1 But I thought that, I thought that was
2 important to highlight, though.

3 Indices of abundance, these are all of
4 the indices of abundance put together and
5 standardized by their mean.

6 You can see that in general, they're
7 highly variable inter-annually, and there seems
8 to be a slight trend upward from about 2008, 2009
9 onward, which would correspond with the closure
10 of the fishery - though I would note that that's
11 not for all the, the CPUE series, and including
12 some of the important surveys are, are
13 decreasing.

14 Just want to compare the updated
15 indices. So this was an updated assessment, not
16 a benchmark assessment, so we had the analyst
17 provide CPUE series that were vetted in the
18 previous assessment, which was a benchmark. And
19 those methods had been well-investigated by the
20 SEDAR team previously.

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1 And so this time, we asked people to
2 use the same methods with updated data and
3 produce new results. There was limited re-
4 analysis in cases where it seemed like some of
5 the data should have been pooled.

6 So for example, the COASTSPAN index
7 now includes Florida, which wasn't previous
8 available. I'll talk about that in just a
9 minute.

10 The Bottom Longline Observer Program
11 and Large Pelagics Survey - sorry for all the
12 acronyms here - are, are very similar. Some high
13 number of annual variability here in the last
14 years, but matches this increase. The black data
15 line is the newest, the new data. The green
16 solid line is, is the previous data.

17 Very similar with the Large Pelagics
18 Survey, we more or less hit that one right on
19 top. We, I say we, but I didn't actually do any
20 of the analysis for this.

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1 This is the COASTSPAN index. So now
2 the COASTSPAN southeast index includes both of
3 these two previous Georgia and South Carolina
4 index which, along with the Florida index - and
5 you can see that that changed rather dramatically
6 over time.

7 The COASTSPAN age 1+ survey seemed
8 almost identical as well, so pretty confident
9 with that.

10 The northeast and southeast Longline
11 surveys are very similar. You'll notice a slight
12 change here in the northeast Longline survey.
13 But for the most part the trend is right on top
14 of one another.

15 The Virginia longline survey changed
16 a little bit in the middle years, but for the
17 most part very similar.

18 And then again, the Pelagic Longline
19 survey shows that precipitous drop in the early
20 90s, and then more of a stabling, or more of a

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1 stable trend throughout.

2 So we included this, both of these in
3 the reassessment. This is the South Carolina DNR
4 red drum survey, which only lasted for about a
5 decade. So that one wasn't updated, because
6 there's no new information on that. But then the
7 SEAMAP Longline southeast series was also
8 included, so.

9 Just a summary of the updated indices.
10 So there are some that are increasing, there are
11 some that are stable and variable, and there's
12 actually two that seem to be decreasing
13 throughout the time series.

14 On the right here, you'll note the
15 study area. The yellow is the range of the
16 sandbar shape. And these blue lines that
17 correspond with the numbers are spatial coverage
18 of our CPUE series.

19 And so one of the things you may note
20 is that we have very limited coverage in the

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1 southern part of the range. And that's true,
2 though we do account for sharks caught in the
3 northern Mexican states here.

4 That being said, it, I guess is just
5 practice to treat the fishery in the United
6 States as one contiguous stock without a whole
7 lot of scrutiny paid to the recruitment.

8 Just want to talk about the observed
9 length composition, because it was one of the
10 reasons we moved to the stock synthesis
11 framework, was so that we could put this into the
12 model.

13 On the left, we have the females, and
14 on the right we have the observed male length
15 composition, and the green line in each one of
16 them is the age at maturity.

17 And so what you'll see is that the,
18 the catch stretches all the way from birth,
19 basically, we're catching the age 0s, and all the
20 way through the age of maturity, and up to almost

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1 the maximum size.

2 So we're not catching the biggest
3 animals, but for the most part we are catching a
4 whole lot of immature animals.

5 So that's the updated data. We put
6 in new catch, new CPUE series, and length
7 composition data - as well as reparameterize some
8 of the model.

9 So with that, we started going forward
10 on fitting the model.

11 And so the first time that we did, and
12 I talked about earlier, is we fit the SEDAR 21
13 data with the stock synthesis, and then we
14 included the new data, and we started to then
15 develop a base case based on hundreds, and you
16 know, just iterations of model runs, trying to
17 get better fits, looking at all the different
18 data components.

19 And then we evaluated our base case
20 and the uncertainty associated with it by running

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1 a number of different models, and investigated
2 the uncertainty that we had with respect to the
3 CPUE series and the parameterization for the
4 productivity, and things like that.

5 In the end, we did some forecasts and
6 uncertainty evaluation, also via MCMC.

7 So we'll talk through these next three
8 things here.

9 The model development, that was an
10 iterative process. First thing we did was extend
11 the timeframe through 2015. I should note that
12 it's now 2018, but when we start this process, it
13 was the beginning of 2017, and data from 2016
14 were not yet ready. So the timeframe went
15 through 2015.

16 Then we updated the longevity, the
17 maturity, and all the different parameters,
18 including natural mortality and steepness, and
19 that's what you can see here. And so we just,
20 this is the previous model, and then we updated

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1 the modeling framework. And that's the
2 replication analysis.

3 And then we updated the catch with
4 that. It actually dropped the population a
5 little bit lower. And then we started updating
6 the individual parameterizations one at a time
7 just to see if anything threw the model very far
8 off of where we were.

9 And it didn't. So basically from
10 there, a lot of different models fit a number of
11 different webinars, and we developed a base case,
12 and I'm going to present those results now, as
13 they were presented in the SEDAR 54 stock
14 assessment results.

15 The results here show the spawning
16 output on the left, and our summary fishing
17 mortality, that's F over F_{MSY} on the right.

18 And basically, the trend is very
19 similar to what we saw in SEDAR 21 - stable
20 throughout the first two decades, and then a

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1 decrease in the 1980s as the majority of the
2 fishery kicked in.

3 You see that here with the F ratios
4 going kind of up through the roof. With the
5 closure of the, with the decrease in catches, and
6 then the closure, F ratios came down and then
7 were fairly stable here, just below 1.

8 The fits to the length compositions
9 were actually pretty good. We had, we were
10 successful at adequately capturing the length
11 compositions here.

12 These graphs are, I know it's
13 difficult to see from the back here, but you've
14 got males on top, or males on the bottom in blue,
15 females on top in the red, and these, our green
16 lines are where we don't have sex-specific
17 information for that fishery.

18 They're slightly spiky, and that's due
19 to the patchiness of sandbar sharks. Sometimes
20 they cluster by age and sex, so you'll get high

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1 observed values of just one length composition,
2 or one, one class.

3 But for the most part, they, these
4 helped us pretty well fit, and the goal of fitting
5 the length composition is to inform the model
6 about what size classes are being taken out
7 throughout the time, and I think that was pretty
8 good.

9 The recruitment, you'll notice low
10 levels of uncertainty here in the early years,
11 and then in, kind of increasing over time. We
12 allowed a few early recruitment deviations, and
13 then the majority of our information starts here
14 in the 80s with respect to, with respect to the
15 estimated recruitments.

16 You'll notice there's a spike here in,
17 in the late 2000s, or early 2000s, and that is
18 estimated by the model. It's kind of necessary
19 for fitting some of the later increases. I'm
20 going to talk about that in a little bit. So

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1 just flag that for later.

2 This green line is our estimated stock
3 recruitment line, and these little red dots are
4 the actual annual recruitment.

5 So we allowed the model to fit a
6 little bit of a deviation from the annual
7 recruitments, and that helps it fit both the,
8 helps it fit the catch as known, and then also
9 allows for a little bit of play with respect to
10 the annual population numbers, so we can fit the
11 CPUE series a little bit better.

12 It fits the indices a little bit
13 better than before. But again, some of the model
14 is constrained by the biology of the species, and
15 also by the catch that we've put in there.

16 So at a certain point, you can't have
17 the population increasing faster than its annual
18 reproduction rate. And so we, what we've got is,
19 for this species, eight pups every two and a half
20 years.

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1 It's a very low fecund species. The
2 relative late age at maturity, and we've also got
3 a slightly long-lived species.

4 So it's, it's ripe for over-
5 exploitation. It's kind of that classic shark.

6 Again, fits for the most part are, are
7 decent. We're hitting a lot of the confidence
8 intervals, but we're not capturing some of the
9 big ups that are, no, no, excuse me. We're not
10 capturing some of the increases in the later
11 years, and, nor some of the decreases in that
12 same time period.

13 And that's partly because of the fact
14 that we have multiple different indices that are,
15 had some, some conflict in those just the last
16 few years.

17 The base case stock assessment results
18 indicate that - sorry for the big plot gap, it
19 got a little cut off here - the population
20 trajectory started off here unfished, and then

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1 moved through, moved into overfishing, and then
2 back to overfish, and is now here, hovering in
3 the overfished but not overfishing category.

4 And so these estimates would put the
5 stock at about .6 of the SSB MS-1, sorry. And
6 about .75 with respect to F_{MSY} .

7 So after we developed this base case,
8 what we wanted to do was evaluate how sensitive
9 the results were to some of the assumptions that
10 we were making with respect to both the
11 productivity - and so that's the reproduction
12 cycle, and pup survival, and natural mortality.

13 But then we also wanted to look at the
14 sensitivity to the CPUE series that we included.

15 So what we did is, we came up with an
16 uncertainty grid, which is listed here on the
17 left, and we looked at the low-productivity
18 scenario that showed a three year reproductive
19 cycle, and pup survival was reduced to 0.8.

20 And then we also increased the natural

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1 mortality for the older ages by 10 percent. And
2 then we kind of flipped that around, and we did
3 a high productivity cycle, where we assumed a two
4 year reproductive cycle.

5 Pup survival was increased to .9,
6 decreased the natural mortality, and then also
7 assumed a constant fecundity of 9.65 pups per two
8 years.

9 So those were how we evaluated the
10 uncertainty, and then as an investigation into
11 the CPUE series, and how sensitive the model was
12 to that, we included the base case assessment,
13 which included all series. And then what we did
14 is a hierarchical cluster analysis, which is
15 shown here in this figure on the right.

16 It's a little work in progress. It's
17 the method that's been used in ICCAT, and it's
18 not without some discussion as to the utility of
19 it, because you can have correlated trends that
20 are, or you can have uncorrelated trends that are

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1 actually showing very similar over the time,
2 overall trends.

3 And you can ---

4 So it's a work in progress. Take it
5 with a grain of salt.

6 The group decided not to just use the
7 correlated indices, which is shown up here in
8 this black box, but use the wider group of CPUE
9 series that includes the initial Bottom Longline
10 Observer Program and CPUE series.

11 And that was based on the decision
12 from the CR analysis group that the conclusion of
13 that early trend would help the model, was
14 appropriate.

15 Again, that took away one series from
16 the slightly more negatively correlated series.
17 And so that's how we evaluated the inclusion of,
18 of different CPUE series.

19 We ran a grid, so there was nine
20 different possibilities there, and we estimated

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1 and looked at the results, and compared them
2 individually.

3 So you'll see here on the left, the
4 light blue are the, what we call the positive
5 correlated CPUE series. The dark blue are these
6 base runs here, and the red are the, what were
7 the, the negatively correlated some runs.

8 Overall scale changed significantly
9 depending on which CPUE series you used, but not
10 so much depending on the overall productivity.
11 The higher productivity bumped you up a little
12 bit, but the lower productivity didn't affect the
13 model results that much.

14 Now, you'll notice here that the
15 lowest uncertainty was with these negatively
16 correlated, and the highest uncertainty was also
17 with the positively correlated ones.

18 And the recruitment estimates here, so
19 we've got extremely high estimates of uncertainty
20 with your initial, or baseline recruitment, your

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1 virgin recruitment there for the positively
2 correlated ones.

3 These blue are the base case runs, and
4 then you see, other group, the negatively
5 correlated CPUE series runs limit some of that
6 uncertainty with respect to the model.

7 You'll see also that these results
8 here for the annual recruitment show in, a very
9 high spike in recruitment in one year as the
10 population was going down.

11 That, that small spike is evident in
12 each one of the model runs that we looked at, so
13 it's extremely prominent and maybe implausible
14 with respect to the, the species biology for
15 these high productivity, or for these positively
16 correlated ones.

17 But nevertheless, we did estimate the
18 stock status based on these. And so what you'll
19 see here, there's just nine different circles
20 here.

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1 These red ones are hard to see, but
2 they're in the red here for the, and those red
3 ones are the negatively correlated ones. The
4 blue are the base case results based on the
5 different productivities.

6 And then here we've got the positively
7 correlated plus the other one that the group
8 thought should be in down there.

9 So basically, three different stock
10 statuses based on the grouping of CPUEs here.
11 These are the annual trajectories. And they all
12 follow this same or similar trajectory, with
13 increasing fishing mortality, and then the
14 population is recovering slowly.

15 So it's not really possible to compare
16 against, models against each other that have
17 different data in them, and that's an active area
18 of research.

19 But we can do is evaluate the internal
20 consistency with respect to the data inputs in

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1 the model. And so what we did is some
2 retrospective analysis, and also likelihood
3 profiling over the R0 parameter, because that's
4 our global scaling parameter, and everything kind
5 of relates to that within the model.

6 And so how that changes with your
7 model, it can give you some information about the
8 overall model fit compared to others.

9 I'll note that the model is developed
10 around the, all the CPUE series used at once, as
11 this was the base case model approved in the last
12 SEDAR assessment. And as this was an update, our
13 job was to take that model forward.

14 The retrospectives for the, for the
15 base case were actually very good. Some were
16 better, the best ones I've seen.

17 So what this does is, we run the model
18 all the way through, and then we drop a year of
19 data, and then we run the model all the way
20 through again, and again, and again, sequentially

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1 dropping one year of data.

2 And what you want to see, what you're
3 looking for is whether or not any of the later
4 data points have high influence on the overall
5 estimate, either of stock status or of your
6 population size there.

7 So what we're seeing here with the
8 base case is that it does not. Unfortunately,
9 for the positive CPUE runs, we're finding that
10 these last two years are highly influential. And
11 so that's changing not only our estimate of
12 virgin recruitment, but also the structure of the
13 stock.

14 The negatively correlated CPUE runs
15 are a little bit better, but there is some play
16 - it's kind of hard to see here - up and around
17 the base case, or the model run that goes all the
18 way through.

19 The next thing we did was, we looked
20 at the likelihood profile. And so what we have

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1 here is event examples of two different
2 likelihood profiles where we're calculating the
3 likelihood, which is kind of an information
4 theoretic approach to estimating the contribution
5 of all the data to the model, and how well that's
6 fit.

7 And so what we look for is the shape
8 of the profile over a number of different values
9 here for our virgin recruitment.

10 And so what we're seeing here is a
11 very uninformative profile, where it's, we want
12 to, we were looking for, like, a very low value.

13 And so what we're seeing here is as
14 you move across the model, can't really
15 distinguish between anything a little bit higher
16 than six and ten. So this is the virgin
17 recruitment on a large scale.

18 Whereas here, when we're looking at a
19 different data component, we're seeing that as we
20 move through our, our likelihood values get

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1 smaller and smaller, down to about zero, which is
2 right here, about 6.2.

3 And then as we increase that value,
4 the model gets fit more poorly. And so this
5 illustrates that there is information in our, in
6 our survey likelihoods here for the CPUE.

7 So we did that for the different CPUE
8 cases for both the length data, and also for our
9 survey. You can also do it for the catch, but
10 given that the catch is, is the same, and, well
11 the catch doesn't show a whole lot.

12 So this upper lefthand corner is the
13 one you kind of want to look for. It's the
14 overall survey, it's the overall likelihood
15 comprised of a number of all these different
16 likelihood profiles.

17 Note that they're on slightly
18 different scales. And some of them are fairly
19 variable, and you have a couple of local minimum,
20 and then definitely some, some different shapes

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1 here.

2 But what we're seeing is that the
3 overall survey likelihood is driven by the later
4 Bottom Longline Observer Program, as well as the
5 Virginia longline survey. And to an extent, of
6 this Large Pelagics Survey.

7 There, there's some information in
8 these other ones, but they're not all exactly the
9 same, whereas here, our length likelihood isn't,
10 isn't telling us a great deal overall. But
11 again, the later Bottom Longline Observer
12 Program, and the Virginia longline survey's
13 pretty informative.

14 Okay. Just got the axe.

15 Positive CPUE groups. This is it.
16 We're not seeing a whole lot of information from
17 the survey likelihood here when all combined.
18 And so this, it's not informative about the
19 overall scale, or as informative as it was when
20 we had all the CPUE groups in there.

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1 Again, the Bottom Longline is pretty
2 informative, as is the Virginia longline, but
3 they're kind of being swamped by these other,
4 other CPUE series.

5 The negatively correlated ones are
6 actually a little bit more informative. We're
7 finding that same minimum with respect to our
8 global scaling parameter here.

9 And again, that's resting on the Large
10 Pelagics Survey, and to an extent the Pelagic
11 Longline Observer Program.

12 All right, so model diagnostic.
13 Hello?

14 Likelihood profile showed that the
15 base case configuration had supported in
16 different areas of the survey likelihood, but the
17 overall likelihood profile was very informative
18 about the scale.

19 Negatively correlated CPUEs showed
20 that the Large Pelagic Survey was influential,

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1 which sampled some of the largest fish in our
2 assessment. So it was good.

3 We didn't get a whole lot of conflict
4 or, from the positively correlated CPUEs,
5 however. It didn't show us a whole lot of
6 information with respect to the overall scale.

7 We didn't see any bias with the
8 negative or base case retrospective runs.
9 However, there was some with the positively
10 correlated CPUE group.

11 All right, and so from there, we went
12 on to define our base case, which was the base
13 case from the previous assessment.

14 And one of the things we noted first
15 off was that the productivity scenarios we
16 investigated had minimal effect, and that from
17 there, while we thought the three different CPUE
18 groupings covered plausible states of nature, we
19 basically thought that the base case run was the
20 best, because it had, it had limited the

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1 uncertainty in both the stock, spawning stock
2 biomass over spawning stock biomass at MSY, and
3 the F over FMSY directions.

4 It also had better retrospective
5 diagnostics, and it had some high information
6 about the overall scale of the population. The
7 positive CPUE group didn't have that, didn't have
8 the good retrospectives.

9 And also, I didn't show it here, but
10 using that CPUE group, it assesses that the shark
11 stock had never been overfished, and had always
12 been fine. And that was because the scale of the
13 population was just so much higher.

14 So then from there, we wanted to also
15 kind of evaluate the uncertainty a little bit
16 further. And so what we did is, we ran each one
17 of those models through an MCMC process where we
18 generated a number of different results.

19 I'm not going to go into it now, but
20 basically, this gives us a distribution of

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1 results with respect to our overall estimate.
2 And so what you see here in red is the negatively
3 correlated base case, and then positively
4 correlated.

5 These white dots are the MLEs from our
6 plain estimates. And they're, for the most part,
7 right in the middle. But you'll notice that the,
8 this positively correlated group is, is kind of
9 all over the place, with respect to the
10 population biomass.

11 The overall projections showed that 66
12 percent of the runs indicated that stock is
13 overfished and that not, overfishing is not
14 occurring, and that the stock status is largely
15 stratified by CPUE grouping there.

16 With our base case showing that 97
17 percent of the runs show that the stock is
18 overfished, and overfishing is not occurring.

19 We went ahead and did some
20 projections. Basically, we did projections

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1 carried out through stock synthesis, and using
2 the uncertainty that's inherent in each one of
3 the parameters, we projected the TAC in whole
4 weight.

5 And then we also carried, so carried
6 out projections via MCMC.

7 And we did them based on different
8 time horizons according to the terms of
9 reference. So basically, if your stock's
10 overfished, you pick a different recovery
11 timeline than if overfishing is currently
12 occurring.

13 And then if you're in the green, then
14 you get to pick something different. Sorry.

15 So first thing we did was project kind
16 of at a number of different TACs.

17 The TAC in 2008 results in a 50
18 percent probability of spawning stock biomass
19 over SSB at MSY equaling one in 270, which is
20 right there. And the current TAC, which as you

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1 know is 220. And the average TAC from 2011 to
2 2015 was 170. All those are in whole weights.

3 So then 148 results in a 70 percent
4 probability of recovery by 2017.

5 And so those are the results presented
6 in the assessment. The CIE review made a couple
7 of comments, and one of their comments resulted
8 in me running a little bit, a couple more models.

9 And basically, did that because when,
10 one of the reviewers' comments was about the
11 adjusted sample sizes that we used in the model,
12 and that's basically how we tell the model how
13 informative the length compositions are.

14 And what had happened, when I'd gotten
15 the data I didn't notice that some of the
16 individual set IDs were non-unique, and so that
17 ended up being a underestimation in the overall
18 sample size.

19 So to rectify that, what we did is we
20 corrected the errors, recalculated the sample

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1 size by fishery, and then re-estimated the sample
2 size weighting that we used. And I ran three
3 more models.

4 These first two are diagnostic PRU,
5 Post Review Update 1, Post Review Update 2, and
6 then Post Review Update 3 is what I would consider
7 the updated base case, and what we as the analysts
8 recommend for management advice.

9 I'm not going to go into the length
10 record details, but if you have questions they're
11 in here, and also online in the Post Review
12 Update.

13 So basically, this is showing SEDAR 54
14 base case, the model that I just presented, here
15 in blue. We revised the sample size, and we got
16 this green line.

17 Again, in this, in the blue line here
18 we have used the Francis multinomial weighting
19 scheme and, to determine the relative weights.

20 And so when we did the same thing, we

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1 got the red, the red line here. That's this Post
2 Review Update number 3.

3 The intermediate one is to look at the
4 effects of down-weighting all the length
5 compositions so that they don't stop us from
6 fitting the CPUE data.

7 Length compositions. Yup.

8 They're the same. The fits are the
9 same. Almost everything else is the same, so
10 right now I'm just going to skip to the table of
11 results.

12 Here we go. There's the SEDAR 54 base
13 case, which estimated the overfish status to be
14 .6. And currently it's at, you know, .77. So
15 that's at, spawning stock fecundity in 2015 over
16 spawning stock fecundity in, at MSY.

17 And then fishing mortality in 2015
18 over fishing mortality at MSY went from .75 to
19 .58. However, yeah, so slightly different.

20 The rest of the results are fairly

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1 similar. F in 2015, 0.5 to 0.04.

2 For the, so that's basically it.

3 I'm going to just show the graphical
4 representation of the stock status here. This
5 is the previous base case.

6 This is when we unweighted everything.
7 This is when we down, or recalculated and
8 unweighted. This is where we down-weighted the
9 estimates, and then this is the updated base
10 case.

11 Here's the MCMC analysis of that with
12 respect to the MLE, and then also the quantile
13 for that. Don't need to see that.

14 Did the projections, and the
15 projection results indicate that a total
16 allowable catch in whole weight of 246 tons would
17 result in a 70 percent probability of rebuilding
18 by 2070. That's a 12 percent increase of the
19 current TAC.

20 Take any questions?

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1 MR. BROOKS: Joel, thank you. That's
2 obviously a tremendous amount of work, and
3 appreciate you pushing through that.

4 I suspect there may be a few questions
5 for folks. Rusty.

6 MR. HUDSON: Thank you, Bennett.
7 Thank you, Joel. It's nice to put a face to the
8 voice.

9 Anyway, one thing I observed is that
10 giant peak with the recreational Mexican on slide
11 nine, and then 16.

12 First one had to do with numbers -
13 that year, '83, I think is the approximate year
14 of the spike. And in '16 it's pounds.

15 Now, the good thing is that you see
16 that spike drop way down when you get into the
17 pounds. And that, I believe, is driven, if it's
18 those states just to the south of Brownsville, is
19 that secondary nursery ground that Stewart
20 Springer indicated in his work back in the '30s

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1 through the '50s. It's in his 1960 document.

2 And the times that we get the male and
3 females in there, or the females to drop their
4 pups, they're huge. They're a lot bigger than
5 the animals that we see up in the mid-Atlantic
6 region. Very few people overfished on that.

7 But based on what I'm seeing with this
8 recreational, they're fishing on pups. And so
9 that's a little bit of a, kind of a fuzzy area
10 for me. Longevity, I don't know what the, all
11 those tags are, but you know, those numbers still
12 are above the oldest tags, I believe.

13 COASTSPAN. Very big need is off of
14 North Carolina. Since the year 2005, it's been
15 closed seven months out of the year to bottom
16 longline, for sandbar and dusky pup protection.
17 No COASTSPAN.

18 North of there, south of there. But
19 not there. That's a problem.

20 Something happened with the Virginia

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1 Longline stuff after 2009. I think there's some
2 change. I can't get to the bottom of that just
3 yet.

4 The fishing mortality issues, and the
5 recruitment. There's a big spike in 2005, and
6 then there's a big drop-off. The sandbar fishing
7 directed, that took away from most of the fleet.
8 It accounted for half of our large coastal catch,
9 virtually, blacktip being the other from Texas
10 all the way up to New England.

11 And that being said, there's a smaller
12 quota. There was a payback that went on because
13 of overages there in '06, and then we had to start
14 paying back '07, '08, and then, so at some point
15 we got paid back, and then we could increase a
16 little bit on the sandbar allocation.

17 But still, via boats, research fishery
18 in certain spots, never more than two or three
19 ever fishing - now they do an even split, between
20 this year it'll be six votes, and if they get

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1 into the duskies, and the shutdown, or whatever
2 the difference are, there's protocols that's in
3 place.

4 The idea of never, ever fish - well,
5 right now our large sandbar population is so
6 intense that it is actually damaging our
7 rebuilding plans for a lot of our bottom fish,
8 and stuff like that.

9 We'll get on a spot, and in ten
10 minutes, the sandbars start eating everything up.

11 We also have the problem a little
12 further off with duskies eating everything up.
13 And so those populations are rivaling the 1960s,
14 before we ever had a directed fishery, as far as
15 what we see at the side of the boat. That's the
16 problem.

17 Francis 2011, that fitting thing,
18 there's weaknesses with that. It's been replaced
19 with the newer updated stuff. We've been going
20 through that protocol since red groupers SEDAR

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1 50, and tile. And there's still some issues
2 that, at times with that.

3 There's a few other things here that
4 really gets down to the whole weight. Enric,
5 maybe you can answer that. Are we using 2.0 in
6 this analysis, or 1.3 now?

7 Pretty much, that wraps it up. This
8 is just some of stuff I got.

9 MR. BROOKS: Thanks, Rusty. Enric?

10 MR. CORTES: Yeah, let me answer a few
11 of your questions. Some were more like comments.
12 Statements.

13 So the 1983 peak is, you're very
14 familiar with it. It's that peak from MRFFS that
15 occurred in numbers.

16 And in the - excuse me - in the past,
17 we used to take the geometric mean of the
18 surrounding years. We've done it for other
19 assessments, and we didn't do it for this because
20 there was only limited re-vetting of older

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1 series.

2 But it typically has not had a big
3 effect, because it's in the early years. So
4 we've done sensitivities for other assessments,
5 and it hasn't had anything with numbers.

6 For weights, it was not as large.
7 Right.

8 COASTSPAN, duly noted. That's
9 something that, you know, so it's something that
10 could be added.

11 There's longline, I mean the analyses
12 were, were redone. That's, that's, again, all
13 these issues are something that, as you know very
14 well, have to be re-evaluated during a benchmark
15 assessment in which we look at every single
16 individual series.

17 These were redone by any, I mean, it
18 was a good analysis of, there were slight changes
19 with respect to the previous, but no big changes
20 if you remember the comparison on the two from

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1 the previous one.

2 And, right, they have a couple of
3 things before.

4 So yeah, your observation of, so, so
5 let me just make a comment on the, I mean, you
6 said that we have the babies, right?

7 And then we, so we have these two
8 other scenarios that were just, you know, a good
9 faith effort to look at potentially other states
10 of nature.

11 And so what, what Joel showed it, with
12 his positively correlated indices, that they were
13 all showing the same trend - and in this case,
14 were all positively correlated, because they
15 could not be negatively correlated. So they were
16 all showing an increase.

17 As we said, those were, they covered
18 the larger animals that had the most
19 geographically wide coverage, and also the most
20 coverage of the fisheries - but yet, they were

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1 missing all the small individuals.

2 In contrast, the other, what we call
3 the negatively correlated, is where, and this is
4 the word negatively correlated, or lowly
5 correlated with previous grouping, okay? Or that
6 were lowly correlated among each other.

7 So those showed a completely opposite
8 picture. So we had three different realities,
9 right.

10 But the point we're trying to make,
11 and maybe it didn't come through clearly enough
12 in the original assessment, is that the base run
13 is the most credible one in terms of
14 incorporating all the different sets of data as
15 we have it.

16 And also when we, when he showed the
17 diagnostics, they had the best diagnostics,
18 because retrospective analysis and the likelihood
19 profiles give support to using the, the
20 benchmark.

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1 But it's something that in the future
2 has to be re-evaluated, because you know very
3 well, they have to evaluate every single piece of
4 data that goes into the assessment.

5 I'll let Joel make a comment about the
6 Francis method, because I know there is also a
7 also a McAllister, and that's a matter of
8 discussion.

9 Excuse me. In this case ---

10 MR. BROOKS: Let me, let me just. I
11 want to just jump in for one second.

12 Just, some of this may be, you may
13 want to answer sort of offline as well, just for
14 the sake of ---

15 MR. CORTES: But ---

16 MR. BROOKS: --- keeping us ---

17 MR. CORTES: Yeah, last point then.
18 The whole weight issue in this case for the
19 commercial, we just used what we had to do. So
20 we just used whatever was expressed in whole

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1 weight directly.

2 But typically, it's the 1.39. And,
3 except for, as you know, cases like North
4 Carolina, and Mississippi, that has a conversion
5 of two. But we didn't change anything in this
6 case.

7 For the other, that's for the
8 commercial. For the recreational, estimates now
9 come in weight as well, so those come from
10 converting lengths into weight from animals, then
11 you multiply the number by the average weight.

12 And then the ones from Mexico from the
13 recent period are in, from their official
14 statistics, they come in weight. Those are very
15 broad estimates, though, that we have, as you
16 know.

17 MR. BROOKS: Thanks very much. Hang
18 on one second. I just want to double check. We
19 have two speakers who are, are here. I want to
20 make sure that if, if you're pushed back a little

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1 bit, we're not messing up your schedule.

2 So Erin and Chelsey, you good? Okay.

3 All right. Thanks.

4 Question.

5 MR. HUDSON: I believe it was mentioned
6 under the terms of reference you constrained and
7 so the full benchmark was suggested, and we
8 believe that is necessary for the next iteration
9 of whatever we're going to do.

10 But we also need to do the dusky. The
11 reason? The co-occurrence of those animals, and
12 the fact that because of that co-occurrence,
13 until we can find that dusky has no overfishing
14 occurring - that'll take a full benchmark,
15 probably, to achieve, maybe a standard, but that,
16 you know, we, we did an update, that's all we
17 did. And that was technically no fishermen
18 involved, and et cetera.

19 But I would like to see a full
20 benchmark for both the animals done at the same

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1 workshop, and then just work our way through
2 that. It's not an impossible quest, it's
3 something we've done in the past.

4 And I believe that with full
5 benchmark, it gives us the options to deal with
6 reality versus assumptions that may not be
7 exactly correct.

8 So just for the record. Thank you.

9 MR. BROOKS: Thanks, Rusty.

10 All right, so I've got three people
11 who want to get into the queue. So I've got
12 Katie, then down to Glen, and then over to Bob.

13 MS. WESTFALL: Thank you very much,
14 Joel and Enric.

15 Quick question on, it looks like the
16 results from, from the addendum suggested a
17 higher TAC to rebuild by the year 2070 with a 70
18 percent probability.

19 SEDAR 21 had a slightly, a rebuilding
20 year of 2066. If you were to maintain the same

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1 TAC without that slight increase, how would that
2 affect the rebuilding year?

3 MS. BREWSTER-GEISZ: Thanks, Katie.
4 So because our rebuilding year right now is 2070,
5 that is what we ask the assessment scientists to
6 use.

7 MS. WESTFALL: Is that what it
8 currently is? I had it was 2066, but I could be
9 wrong.

10 MS. BREWSTER-GEISZ: Yeah, it's 2070.

11 MS. WESTFALL: Okay. Thank you for
12 that.

13 My other question is would you, would
14 you say that the results of this updated
15 assessment suggest that the current management
16 approaches are working?

17 MR. CORTES: Yes. They, they seem to,
18 especially after we did the Post Review Updates.
19 So, I mean, you see that uptick and lack of
20 overfishing that were supported, even when you

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1 can see that the three states of nature, the three
2 scenarios, you still have a 66 percent chance of
3 not overfishing.

4 And if you go exclusively with the
5 base case, it's almost 100 percent.

6 MR. BROOKS: Thanks very much. Glen.

7 MR. HOPKINS: Yeah, thank you. First
8 of all, I just want a caveat that this, statistics
9 is not my strong suit. Barely got out of William
10 and Mary because of Stats.

11 But I was just curious, and, was there
12 an acronym for that experimental shark fishery
13 y'all were doing, and was that included in the,
14 in this assessment?

15 MR. CORTES: You mean the shark
16 research fishery? Yeah, yeah, so that's, this
17 started with dusky shark, where we split the
18 series in pre-shark research fishery, and then
19 shark research fishery, so initially had one
20 series. But because of the inception of the

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1 shark research fishery, we split them.

2 So those were that BLOP 1 and BLOP
3 2. So the 2, the second one, is, shows upward
4 trend.

5 MR. HOPKINS: Ah, yeah. Just, just
6 curious, because the people I know that are
7 involved in that are just seeing outrageous
8 numbers. And just, just to make sure that was
9 in there.

10 I, I, I used to depend on sharks a lot
11 for my income and everything, and I know you guys
12 put a lot of time and work in this, and I'm sure
13 it's all correct. But that's not matching what
14 we're seeing in the ocean by any means at all.

15 I mean, we've had the discussion
16 already about, can't get fish to the boat. It
17 could be either bottom fish, and tuna fish, and
18 no matter what they're, you know.

19 And, and I, I know my species, and you
20 know, what I see on the water and stuff, the

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1 sandbar, and you know, everything I'm hearing is,
2 is it's exploding. Doesn't indicate that we need
3 another 52 more years.

4 I've given up years ago on ever having
5 a viable shark fishery again, but just the
6 observations, and one of these days I'd like,
7 like to think that the stock assessment matches,
8 at least in some degree, of what, what we actually
9 see in the ocean.

10 Thank you.

11 MR. CORTES: So just a brief comment on
12 that, which is related to what Rusty said.

13 I mean, when you look at the totality
14 of the information that we have, it doesn't quite
15 show that. When you look, if you were to look
16 at that positive scenario, it essentially shows
17 that, right?

18 So it's, again, it's, this was only
19 exploratory, and the, the use of those two other
20 scenarios, because if you consider the other one

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1 it'd give you a really, you know, dismal picture.

2 So I mean, I hear you, and you know,
3 it's something that we have to keep looking at in
4 the next assessment, re-vetting even more so than
5 we did, because we spent a lot of time on these,
6 vetting all these CPUE series. And, and we
7 cannot ignore them, you know, if they have been
8 better.

9 MR. BROOKS: Thanks. Bob.

10 MR. HUETER: Yeah, thank you. I just
11 have a few clarifying questions.

12 I'm really glad to see the use of the
13 Mexican data in this, in this assessment. Could
14 you tell me again which Mexican states you used
15 for the, the source of those data?

16 MR. CORTES: So those come from the
17 same, when you were involved in the exercise back
18 in the day, because this started like in 2002 I
19 believe, series 11.

20 So it's two adjacent states of,

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1 Tamaulipas and Veracruz, and I'd have to go to
2 the original document to look at all the, the
3 logic that we used.

4 But essentially, we assumed that all
5 the animals had come, in the case of sandbars,
6 are from, from Mexico, because there are no US
7 fishery -- in contract to the blacktip, where we
8 only assume, if you remember 50 percent.

9 So we use that, and then based on a
10 certain percentage of sandbar sharks in that
11 specific, those specific states, we apportion the
12 Mexican state-specific stat -- statistics, and we
13 come up with catch value from that.

14 MR. HUETER: Okay, we're, I'm a little
15 puzzled by that, because the NMFS tagging data
16 clearly shows movements of sandbars from the East
17 coast of the US down the other states as well,
18 down to Tabasco, Campeche, and Yucatan.

19 So I would encourage you to go ahead
20 and, and include data from those states. I think

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1 we did the adjacent state work, Enric, because we
2 were looking, we were focused on blacktips
3 movement up and down the western Gulf.

4 So, but sandbars move across,
5 according to the, to the tagging data. So I
6 think you need to expand the range of the Mexican
7 data that you're using.

8 The second -- I have three. The
9 second question is for Joel, on slide 24. I'd
10 just like to know for me, what is the meaning of
11 the figure N_{2009} ? About two-thirds, three-
12 quarters of the way down. Is that ---

13 MR. RICE: That's the ---

14 MR. HUETER: --- all of the animals in
15 the stock? Is that the females? What does that
16 number refer to?

17 MR. RICE: Yeah, that's the number of,
18 well, I'll have to, to check. But I'm pretty
19 sure it's the number of animals in the stock.

20 MR. HUETER: So of, at all ages.

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1 MR. RICE: Yep.

2 MR. HUETER: Okay. So 1.8 million
3 sandbars are estimated to be in the stock
4 according to that run.

5 And the last question, on slide 30
6 the, the Bottom Longline Observer Program data on
7 the left -- to my eye that indicates that there's,
8 there was, according to this one run, that there
9 was a greater than three times increase in
10 abundance in sandbars in that, in that index
11 between the 2000s and the 2010s? Am I reading
12 that right?

13 And what does that mean, given that
14 that fishery, that index probably is one of the
15 best for, for gauging the health of the stock,
16 being that that's the directed fishery, and it's
17 fishing in the core, by its very nature, core of
18 the population?

19 MR. RICE: So there's a couple things
20 to note there. But the, the first is that the

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1 green line is a combined index, right, and then
2 the, the black lines are independently
3 standardizing the indices there.

4 And so they're projected to be on the
5 same scale, but they're not, it's not continuous
6 in between the, what we call the Bottom Longline
7 Observer Program 1 and the Bottom Longline
8 Observer Program 2.

9 Now, definitely there's a different
10 scale in between the two of them, and there's
11 also, you know, some high, and are -- more
12 variable results in, in the second one.

13 And while it is fishing, potentially,
14 in the core, you could, some people would also
15 look at that and say you're, you're targeting
16 these sharks, and so of course you're going to
17 get higher catch rates than some of the other
18 surveys where you're actually sampling the
19 abundance across the entire species- the entire
20 range.

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1 I think it is important to note that
2 if we didn't have that last year's data, the
3 population trajectory at the end would have,
4 would have dropped, you know, 25 percent from the
5 previous year.

6 Overall, I think the interpretation
7 of, of this CPUE series, or these combined CPUE
8 series needs to be taken into account when, when
9 you look at also the, the trends of the other
10 populations, especially, especially the, the
11 young of the year.

12 What we don't want to have happen is
13 the catch rates going up because as sharks are
14 getting fished out in the margins of the
15 population, they're moving to a core area, and so
16 you, it looks like your catch rates are going up
17 when in fact your population's actually going
18 down.

19 That's it.

20 MR. BROOKS: Thank you ---

1 MR. CORTES: Bob, to your first point,
2 about Mexico, the states included, I actually
3 checked, and I mis-spoke. I got myself confused.

4 It included Yucatan as well. The
5 states in between, I don't remember why, because
6 there's a legacy from 2002. So I don't remember
7 why they were not included. Maybe they were not
8 available at the time, but this seems to indicate
9 that yes, we did try to take into account the
10 whole area.

11 MR. BROOKS: All right. I'm going to
12 hold off on any other questions at this point,
13 because we are getting seriously off, off agenda,
14 and need to get to our next presenters.

15 Karyl wants to just give a 30 second,
16 or 10 cent update -- 10 second update on
17 assessments to come, and then I, maybe if our
18 next speakers can step up here.

19 MS. BREWSTER-GEISZ: So I won't even
20 bother bringing up the slides. If you take a

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1 look at the next presentation, on the webpage
2 there is the slide about the assessments. The
3 first few slides are just where we're at now in
4 terms of stock status for all the different
5 management groups.

6 And then the second-to-last slide, the
7 one right before the questions, has the stock
8 assessments we were planning to do in the future.
9 I know that question comes up all the time.

10 If you need additional information on
11 any of that, feel free to see me during lunch or
12 in the afternoon. Thanks.

13 MR. BROOKS: So Enric and Joel, thank
14 you both very much for the really detailed
15 presentation. And I know you get clipped in
16 time, but we appreciate it.

17 Just for folks who are wondering when
18 we're going to let you go to lunch, and if we're
19 ever going to let you go to lunch, we will. But
20 it's probably going to be closer to 12:15, maybe

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1 even 12:30. So count on a shorter, a shorter
2 lunchtime for today.

3 So at this point, I want to introduce
4 two other speakers from the Office of Protected
5 Resources. We'll have two updates. One, we'll
6 hear from Chelsey Young on oceanic whitetip shark
7 Endangered Species Act listing, and then we'll
8 hear from Erin Fougeres on the Pelagic Longline
9 Take Reduction Team.

10 MS. FOUGERES: I'm actually going to go
11 first.

12 MR. BROOKS: You're going to go first?
13 Okay, Erin's first.

14 MS. FOUGERES: Here we go. I'm the
15 Pelagic Longline Take Reduction team coordinator
16 in the NMFS Southeast Region, Protected Resources
17 Division.

18 And the Pelagic Longline Take
19 Reduction team is under the Marine Mammal
20 Protection Act. And just as a little background,

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1 or refresher, the Marine Mammal Protection Act
2 was enacted in 1972. It prohibits the take of
3 marine mammals with limited exceptions for things
4 like commercial fishing.

5 Take means to hunt, harass, capture,
6 or kill, or to attempt to do so. And the
7 protection is extended to all marine mammals,
8 regardless of their status -- that is, whether
9 they're endangered or not.

10 The key MMPA goals are to maintain
11 marine mammals as functioning elements of their
12 ecosystems, obtain optimal sustainable
13 population levels for all marine mammals, and to
14 reduce serious injury and mortality, or bycatch,
15 of marine mammals incidental to commercial
16 fishing operations to insignificant levels.

17 So the strategy for reducing bycatch
18 of marine mammals involves preparing stock
19 assessment reports, categorizing fisheries
20 according to levels of bycatch, which is the list

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1 of fisheries that comes out, registering
2 participants in Category I and II fisheries under
3 the Marine Mammal Authorization Program,
4 monitoring Category I and II fisheries, which is
5 the observer program to require fishermen to
6 report all injuries and mortalities, and to
7 develop take reduction plans.

8 Take reduction planning is based on
9 stock assessment reports, and they're designed to
10 assist in the recovery or to prevent the
11 depletion of what are called strategic stocks
12 that interact with Category I or II fisheries.

13 And NMFS may also develop plans for
14 any stock -- it doesn't have to be strategic --
15 that interacts with a Category I fishery.

16 So just as background and timeline for
17 the Pelagic Longline Take Reduction Team, it was
18 established in June of 2005, and after a number
19 of meetings and full team conference calls, the
20 team developed consensus recommendations, which

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1 went out as a proposed rule and then a final rule
2 which became effective in June of 2009.

3 Those are the current Pelagic Longline
4 Take Reduction Plan regulatory requirements, and
5 I've listed those here.

6 So the, the first is obviously the
7 mainline link restriction, which is in the EEZ
8 portion of the Mid-Atlantic Bight, and also in the
9 Cape Hatteras Special Research Area, which is
10 within that area.

11 It established the Cape Hatteras
12 Special Research Area with special observer and
13 research participation requirements, and then it
14 requires the posting of marine mammal handling and
15 release placards in the US Atlantic EEZ, and in
16 the, obviously, the, the EEZ portion of the Mid-
17 Atlantic Bight, which is within that area.

18 So since that time that the plan
19 became effective in 2009, we've been monitoring
20 and having intermittent team meetings and

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1 conference calls to monitor the effectiveness of
2 the plan at reducing primarily bycatch of short
3 fin pilot whales, which are the animals that most
4 interact with the Pelagic Longline Fishery, and
5 are of most concern.

6 And it was determined over those sort
7 of intervening six to seven years that the, the
8 plan really wasn't effective at reducing bycatch.

9 So as a result, we did reconvene the
10 team for an in person meeting in December of 2015
11 to discuss updated bycatch levels, review the
12 effectiveness of the current regulations, and to
13 potentially develop new recommendations for
14 regulations.

15 As an outcome of that meeting, in
16 December of 2015, the team did come to consensus
17 for new recommendations for non-regulatory and
18 regulatory requirements, at which point we
19 started our rule writing process.

20 And through that, there were a few

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1 issues that came up, and reconvened the team via
2 webinar in September and October of 2016 to
3 refine some of those recommendations. And these
4 are the recommendations that sort of were an
5 outcome of those, those year-long sort of
6 conversations.

7 So based on the deliberations, the
8 team did agree to a full suite of consensus
9 recommendations, which included non-regulatory
10 measures, which were convening a workgroup to
11 recommend changes and updates to the current
12 handling and safe release protocols for marine
13 mammals, and updating our observer protocols and
14 data recording forms to enable recording and
15 analysis of data on pilot whale and marine mammal
16 bycatch events, and on target catch depredation
17 events.

18 The regulatory measures were to repeal
19 the Cape Hatteras Special Research Area, and any
20 associated call-in requirement under the take

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1 reduction plan.

2 There were terminal gear requirements
3 that would occur in the FEC, the South Atlantic
4 Bite, the Mid-Atlantic Bite, and the Northeast
5 Coastal.

6 And that was leader and branch land
7 requirements, and weaker hooks, using some hooks
8 that are currently used in the fishery, but not
9 some of the stronger hooks that are in the fishery
10 right now.

11 And then also to modify the mainline
12 length restrictions in the Mid-Atlantic Bite to
13 set no more than 30 nautical miles of active gear,
14 and no more than one piece of main line in the
15 water at once. And there are some other
16 variables associated with that regulation.

17 And you can find more information on
18 all these recommendations on the Pelagic Longline
19 Take Reduction Team website. All the key
20 outcomes and memorandums from those meetings do

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1 detail the consensus recommendations.

2 So the next steps for us are that we
3 are in the process of drafting the proposed rule,
4 and the associated NEPA analysis, the EA, to
5 implement the team's recommendations.

6 And we plan to finalize and publish
7 the proposed rule. And then after that is
8 published, we'll have a public comment, a meeting
9 during the, of the team during the public comment
10 period for the proposed rule.

11 Then as rulemaking, we would evaluate
12 those public comments after they're received, and
13 potentially put forth a, a final rule. So
14 that's, but we're still in the developing the
15 proposed rule phase.

16 And then because I'm here, my office
17 also wanted me just to put this up here just for
18 general knowledge.

19 So I just have a couple of slides,
20 switching gears, on the proposed ESA listing of

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1 the Gulf of Mexico Bryde's whales, just to make
2 everyone aware that this is another thing that's
3 going on right now.

4 And we did receive a petition to list
5 the Bryde's whale as an endangered species in
6 September of 2014. And after status review, it
7 was determined that that whale is a species, as
8 defined by the ESA, that is currently in danger
9 of extinction throughout all of its range.

10 So this is kind of where we are in the
11 ESA listing process and timeline. So there was
12 the petition, the 90 day finding, the status
13 review, the proposed rule published in December
14 2016. And we had a public comment period that
15 closed around this time last year.

16 And we're in the process of developing
17 the final rule, and that is pending.

18 So just some key biological
19 information on the Bryde's whale. They're the
20 only year-round baleen whale that's resident in

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1 the Gulf. They're consistently located in that
2 little yellow area that's, the arrow is pointing
3 to up off the De Soto Canyon, along the shelf
4 break between the 100 and 300 meters.

5 There's fewer than 100 individuals,
6 and they are genetically distinct from all other
7 Bryde's whales worldwide, and represent at least
8 an unnamed subspecies.

9 And within that proposed rule, we did
10 identify some of the most serious threats to the
11 subspecies as small population size, restricted
12 range, energy exploration and development, oil
13 spills and oil spill response, vessel collision,
14 and anthropogenic noise.

15 And we did also identify bottom
16 longline and pelagic longline as entanglement
17 risks to Bryde's whale where they overlap within
18 their habitat.

19 And the link on this slide gives you
20 a link to an FAQ sheet on the Bryde's whales, and

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1 the rule development and, and all of that stuff.
2 And it's not my area of expertise, so I can't
3 really super-adequately answer questions on that
4 one. But we did just want to make you aware of
5 it.

6 And that's all I've got.

7 MR. BROOKS: Thanks, Erin. Any
8 questions or --- Question, would you hit the mic
9 there for --

10 MS. FOUGERES: Oh!

11 MR. BROOKS: Thanks.

12 Any questions or comments for Erin?
13 I've got Marty, and then over to Bob.

14 MR. SCANLON: Do you, do you have any
15 data on what the impact of the Deepwater Horizon
16 disaster had on those, on that species? Do you
17 have any data on that?

18 MS. FOUGERES: Yes. So the Bryde's
19 whales were included in the Deepwater Horizon
20 natural resource damage assessment, and the, if

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1 you look at the, the damage assessment and
2 restoration plan that was kind of the thing that
3 came out of the whole investigation to the, to
4 the Deepwater Horizon oil spill, you can see the
5 impact to Bryde's whales.

6 I don't know it off the top of my head,
7 but there's a table in there that says the
8 proportion of the population that was estimated
9 to be impacted by that. Yeah.

10 MR. BROOKS: Thanks. Bob, did you have
11 your card up before, or no? Okay.

12 Any other -- Mike.

13 MR. PIERDINOCK: Thank you for your
14 presentation. I, you know, I appreciate the fact
15 you're taking appropriate efforts to try to
16 protect our marine mammals.

17 But up in Massachusetts and Cape Cod,
18 we have an upside down situation that, you know,
19 in early 2000 we had 1500 gray seals, and we're
20 now at the point of 50,000-plus that are found

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1 north of the Cape, out to the Cape.

2 On Muskegon Island itself, there's
3 30,000 of them. And they're also on the South
4 Shore, and the south coast of Massachusetts.

5 We're being told the Marine Mammal
6 Protection Act is such that nothing can be done
7 about this population until it returns to levels
8 up and down the coast that, whenever those levels
9 were established, that that's at the point that
10 something could be done to potentially cull the
11 herd.

12 You know, we ultimately, if you look
13 at those 50,000 seals and what they're eating,
14 it's, it's tremendous amount of fish. And from
15 an ecosystem-based management, it, it's have a
16 detriment on our fishery.

17 I'm curious, the longline fleet that's
18 up our neck of the woods is farther offshore,
19 whether there's been additional interactions as
20 a result of those seals. That's the one thing.

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1 Other thing I want to note is, is that
2 in our state, we have concerns about the fact
3 that the fecal material from the, the seals,
4 it's, there's a direct correlation between the
5 worms we see in cod, we now see them in haddock
6 - it's jumping over to them.

7 And then we're also seeing, from what
8 I'm being told, parasites in pelagics, or sharks,
9 that typically would not be observed that they
10 think may be linked from the seals.

11 So I share that with you, and would
12 like to have some insight from a longline
13 insight, as well as from the other end - what
14 could be done for us, because it, it's an, it is
15 an upside-down situation where they're eating
16 tremendous numbers, and pounds of fish. And it's
17 having a detriment on the entire ecosystem.

18 Thank you.

19 MS. FOUGERES: Sure. So that's not
20 really my area of expertise. I'm, I'm not aware

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1 of increased interactions with gray seals and
2 longline gear. I haven't been made aware of
3 that, you know, as a, as an issue.

4 But yeah, okay. So as a, but I do
5 primarily deal with the shortfin pilot whales in,
6 in the Southeast region. So I'm not, you know,
7 as familiar. I apologize.

8 But I, I can certainly talk to you
9 afterwards, and recommend someone that you could
10 speak to up there about those issues.

11 MR. BROOKS: Thanks. Tim?

12 MR. PICKETT: How are you defining
13 mainline length? Is it a linear length of the
14 set, or is it a length of the piece of string?

15 MS. FOUGERES: So we, it's complicated.
16 And so the mainline length restriction is a
17 restriction that the team strongly recommended
18 during their deliberations prior to the, to the
19 current plan that we have in place.

20 And we were very clear with them at

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1 the time that we actually don't have a good way
2 of enforcing that regulation, because it's very
3 hard to measure mainline length.

4 And so, you know, it is a linear
5 length essentially, and, and the way that we
6 currently look at it, to get kind of a ballpark
7 is, you know, when the set starts and when the
8 set ends, and how fast you're going kind of thing.

9 So, but there really isn't, you know,
10 a great way to measure it.

11 MR. KERSTETTER: David Kerstetter.
12 Yeah, to, to that point, because I was on the
13 team, and we ---

14 MS. FOUGERES: Yeah.

15 MR. KERSTETTER: --- had those
16 deliberations.

17 MS. FOUGERES: Thanks, David.

18 MR. KERSTETTER: In fact, I did a paper
19 on the different metrics for measuring the length
20 of a longline.

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1 And what it really came down to was an
2 analysis of the logbook, and Observer Program
3 data that seemed to show a clear break in the
4 data. You know, whatever method was used to
5 measure that mainline length, you know, how,
6 whatever it was reported as, showed a distinct
7 break from, above and below that number, in terms
8 of pilot whale interactions.

9 So we kind of recognize that it's a
10 difficult thing to measure. There's almost no
11 way to enforce it. So, you know, I've always
12 treated it as almost an aspirational goal, more
13 than anything, to try to keep mainline set
14 length, however you do it, minimized in that
15 area.

16 MR. BROOKS: Marty, I'll let you jump
17 in one more time, and then we should probably
18 hand it ---

19 MR. SCANLON: Yeah ---

20 MR. BROOKS: --- off to Chelsey.

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1 MR. SCANLON: --- the, the mainline
2 length, you know, as we understood it as a team,
3 is that, you know, you're not going to be able to
4 determine it by, to the inch, you know.

5 But it's basically a parameter that,
6 you know, you'll have an understanding whether or
7 not somebody's dramatically exceeding, or trying
8 to circumvent the rule.

9 The way, you know, the way the
10 Observer Program takes it, and with the VMS units
11 on the boat now, where they, you know, all of
12 that stuff combined, you have a pretty damn close
13 determination of, it's pretty close to going to
14 be what you've got there.

15 MR. BROOKS: Erin, thank you very much.
16 Appreciate it.

17 So now we're going to hear from
18 Chelsey Young again on oceanic whitetip shark
19 Endangered Species Act listing. Chelsey?

20 MS. YOUNG: Great. Hi, good afternoon

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1 everyone.

2 I will try to keep this as short as
3 possible so we can, you guys can get off to lunch.

4 My name is Chelsey Young. I work for
5 NOAA Fishery's Office of Protected Resources in
6 our Headquarters Office right here in Silver
7 Spring, and I was the lead biologist working on
8 this listing response for the oceanic whitetip
9 shark.

10 And today, I want to give you just a
11 little bit of background about the listing
12 process, what went into this decision, some of
13 the next steps that we have in front of us, and
14 potential implications.

15 So I know this is not your first time
16 hearing about endangered species listing, so I
17 will be really brief here.

18 The main purpose of the Endangered
19 Species Act is to provide a conservation program
20 for threatened and endangered species, and to

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1 conserve the ecosystems on which they depend -
2 and of course, the two main definitions that we
3 work with when doing a listing determination is
4 endangered and threatened species.

5 So just to give you a refresher of
6 what those mean, endangered species are any
7 species that are in danger of extinction
8 throughout all, or a significant portion of its
9 range, and a threatened species is any one that
10 is likely to become an endangered species within
11 the foreseeable future.

12 So the definitions are very closely
13 linked, and the only real difference between them
14 is the timing at which this endangerment is
15 happening. For endangered species, it's more of
16 a present-day, imminent thing. And for a
17 threatened species, it's more of something that
18 we can foresee happening in the future.

19 So this slide just basically shows a
20 schematic of our listing process. I think Erin

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1 showed something kind of similar with the Bryde's
2 whale.

3 I won't go through all the steps, but
4 basically it just shows that there is a very
5 stepwise process that we follow in our listing
6 determinations. And anytime we list a petition
7 to list a species, it really triggers a whole
8 host of statutory requirements and deadlines that
9 we have to follow under the law.

10 But one thing I do like to point out
11 here is the public comment periods that we do
12 have throughout the process. This shows from
13 start to finish, from the time we receive a
14 petition through proposed and final rulemakings.

15 And during these public comment
16 periods, we really are looking for information
17 that can help us inform our decision of whether
18 or not the species meets the definition of
19 threatened or endangered as I just read them to
20 you on the previous slide.

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1 And that's the only question that
2 we're allowed to ask and answer during this
3 process.

4 We can't ask whether or not the ESA's
5 the right conservation tool, we can't consider
6 socioeconomic or cultural implications. The
7 only thing we are looking at is the best available
8 science that will allow us to determine whether
9 or not this species qualifies as threatened or
10 endangered.

11 So to give you some background and
12 timeline of this particular listing process, we
13 received a petition to list the oceanic whitetip
14 shark from Defenders of Wildlife back in
15 September of 2015.

16 They asked us to list the species
17 either globally, or to divide it up into two
18 distinct populations - that being the Atlantic
19 and the Indo-Pacific.

20 And at our 90-day finding stage, we

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1 went forward with a positive review of the global
2 species in January of 2016, at which point we
3 convened what we call an extinction risk
4 analysis, or ERA team, in July of 2016.

5 And that comprised of six members from
6 across NOAA. So we had myself from the Office
7 of Protected Resources, we had a representative
8 from the, our Highly Migratory Species Division,
9 and we had four fisheries biologists with
10 expertise in shark biology, management,
11 population, stock assessments from the Northeast,
12 Southeast, Southwest, and Pacific Islands Fishery
13 Science Centers.

14 So we really wanted to have a
15 representative on that team from every NOAA
16 region where this species occurs.

17 Once we compiled the status review
18 report, which is all of the information on the
19 status of the species, its threats, its
20 management, we sent this out for peer review to

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1 five peer reviewers with expertise in shark
2 populations, and oceanic whitetips in particular.

3 And this is kind of unusual. We
4 usually shoot for three peer reviewers, but in
5 this case we got five from all across the range,
6 and we also had our regional reviews from the
7 Pacific Islands Regional Office, as well as HMS.

8 We published our proposed rule to list
9 the species as threatened in December of 2016.
10 We finalized that in, just this year, in January,
11 and as you can see the effective date of March 1
12 just passed a week ago today.

13 So a little bit about the oceanic
14 whitetip shark if you're not particularly
15 familiar with the species. It is globally
16 distributed, so we did have to look at the status
17 of the species across its entire range, which is
18 a really difficult task.

19 It has a clear preference for open
20 ocean waters. It is a pelagic species between

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1 10 degrees south and 10 degrees north, which are
2 those tropical latitudes that straddle the
3 Equator.

4 It has a depth distribution of the
5 upper mixed layer, up to about 152 meters, but it
6 does tend to dwell in the surface layer, so that
7 is partly why it has such a high encounter rate
8 with commercial fisheries. And then it also has
9 a preference for warm waters about 20 degrees
10 Celsius.

11 So as you can see, from the horizontal
12 and vertical distribution of this species, it
13 completely overlaps where the highest level of
14 fishing effort occurs in most of its range.

15 We also had to consider the life
16 history parameters of the species. So it's
17 relatively long-lived, and the oldest observed
18 species was about 20 years old, but they think
19 that they can live a little bit longer than that.

20 They have relatively late age of

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1 maturity. It's slightly different depending on
2 geographical area, so six to seven years for both
3 sexes was determined for the Southwest Atlantic,
4 and more recently, eight to nine years for
5 females in the North Pacific.

6 They have a gestation period between
7 nine and 12 months, and relatively low fecundity,
8 being that they give birth to about five to six
9 pups, and it's thought that they have biennial
10 reproductive period. So every other year.

11 I'm not going to get into all of the
12 details of this graph or table here, just because
13 it's a very simplified version of the information
14 we had on the population status and trends of the
15 species across its range.

16 But we did break up the global
17 distribution into these different ranges, and had
18 a lot of piecemeal information about what was
19 going on. We had pretty decent information for
20 the Northwest Atlantic. Not so much for the

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1 South Atlantic. And we had pretty robust
2 information, relatively speaking, across the
3 Pacific.

4 So as you can see, we have the
5 percentage declines here over in this column, and
6 across the entire Pacific Ocean basin, we had 80
7 to 95 percent declines, and that was based on
8 observer data from both longline and purse seine
9 fisheries.

10 We have pretty large historical
11 declines across the Atlantic as well, but as you
12 can see here, the current trend, we think, is
13 likely stable for the Northwest Atlantic.

14 And then the Indian Ocean is pretty
15 much a black hole. We don't really know a whole
16 lot about what's going on there.

17 But the information that we were able
18 to ascertain basically showed a similar pattern
19 - that these guys were very abundant historically
20 at the onset of industrial fishing, and they have

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1 experienced very significant declines to the
2 point where they're now considered pretty rare.

3 So as I've alluded to along the way,
4 the main threat to this species is
5 overutilization in commercial fisheries, in
6 particular bycatch and the international fin
7 trade.

8 So the oceanic whitetip is caught in
9 large numbers globally wherever it occurs in
10 longline and purse seine fisheries. And the
11 large majority of the specimens that are caught
12 are juveniles, so they're not able to reach
13 reproductive age before they're caught.

14 They have a varying at-vessel
15 mortality rate depending on the geographic range.
16 So the low end, 23 percent, is actually
17 representative of the Northwest Atlantic. The
18 58 percent is the higher end for the Indian Ocean.

19 So this is not really surprising,
20 since we have, you know, safe release handling

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1 guidelines, and things like that for our
2 fisheries.

3 And then we think probably greater
4 than 85 percent at purse seine fisheries. And
5 one of the things we don't really know is what
6 the post-release mortality rate is for these guys
7 once they're released.

8 And the other component to this is the
9 international fin trade. This species is
10 considered a preferred species for its fins. It
11 has these large, paddle-like fins that get quite
12 a bit of money per kilogram in the Hong Kong
13 market, and so that's been an economic driver in
14 the past for finning these species.

15 And it comprises approximately two
16 percent of the global fin trade, which doesn't
17 sound like a lot, but it translates to several
18 hundred thousand to up to 1.2 million individuals
19 per year.

20 So the other thing we looked at was

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1 whether or not the current regulations that are
2 out there are adequate for the species. One
3 thing to note is that this species-specific
4 regulations have increased significantly for this
5 species.

6 It's the only shark that's been
7 prohibited from being retained in every RMFO, and
8 that really underscores its conservation status,
9 that every single RFMO went through that process
10 to implement that.

11 We did find some issues that, you
12 know, the, the main thing is that there's
13 variable implementation enforcement, mostly out
14 in the Indo-Pacific. And so we found that these,
15 these retention bans are partially effective.

16 This is a similar issue with finning
17 bans and regulations. You know, not all
18 countries across the large range of this species
19 is following these things.

20 It is listed in Appendix II of CITES,

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1 however, when we looked into the data, we did
2 find that there have been several confiscated
3 shipments to Hong Kong of fins from oceanic
4 whitetips without the proper CITES paperwork or
5 permitting.

6 And we've also found a number of
7 reports of oceanic whitetip fins being
8 confiscated on a number of vessels fishing
9 illegally in areas, and things like that.

10 So basically this species, we still
11 find that it is in the fin trade, and it's being
12 utilized for that purpose.

13 So given all of that information,
14 again, it's a very big distillation of the
15 information that we had in our status review, we
16 considered a foreseeable future of approximately
17 30 years -- that's to take into account the life
18 history and the longevity of the species, as well
19 as how far out we felt we could reasonably predict
20 what was going to happen with threats.

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1 The big issue here is a significant
2 historical and ongoing abundance declines in all
3 three ocean basins, its life history
4 characteristics, ongoing threats of
5 overutilization, and largely inadequate
6 regulations to protect the species.

7 We came to a moderate risk of
8 extinction, which led us to go with a proposed
9 and final threatened listing under the Endangered
10 Species Act.

11 So what happens next? So this species
12 is listed as Threatened, so that means in order
13 for us to implement any additional protective
14 regulations to prohibit take, or anything like
15 that, we'd actually have to go through a separate
16 rulemaking process with public comment, and
17 input, and all of those things.

18 So really, the first thing that comes
19 into play here is Section 7, consultations under
20 the Endangered Species Act. And this is required

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1 for any federal action, such as federal
2 fisheries, that may affect the species.

3 And these consultations are actually
4 already underway for the Atlantic HMS Pelagic
5 Longline Fishery, and all other gears.

6 One thing that is required after
7 listing is to designate critical habitat.
8 Usually, we're supposed to designate that at the
9 same time of the final listing, but we
10 implemented a one year extension, because we just
11 don't have enough information to determine what
12 is critical to this species.

13 We don't know what its habitat
14 requirements are, aside from a temperature
15 preference at this point. And any critical
16 habitat designation would also go through a
17 separate rulemaking process that would be open
18 for public comment and input.

19 I mentioned the protective
20 regulations. We call them a 4(d) rule. We're

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1 not developing one at this time. We may consider
2 certain things in the future.

3 One thing I want to drive home here is
4 that the 4(d) rules are very customizable. We
5 can tailor them for specific threats in specific
6 regions, so it doesn't have to be a blanket,
7 across the range type of regulation.

8 And last but not least, recovery
9 planning is also something required under the
10 act. It's non-regulatory, it's just developing
11 a guideline, basically, for actions that we can
12 take to help recover the species and get it off
13 the list.

14 So implications, which I know is what
15 most people are interested in. Take is currently
16 not prohibited under this listing. As I
17 mentioned, we haven't done a 4(d) regulation at
18 this point.

19 So U.S. fishermen do not have to do
20 anything under current laws -- excuse me -- when

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1 they accidentally interact or catch an oceanic
2 whitetip. So U.S. fishermen will just continue
3 to operate under federal fisheries regulations
4 and RMFO measures that you're already subject to.

5 And again, fisheries that may affect
6 the oceanic whitetip will just undergo Section 7
7 consultation.

8 So that's it. Any questions?

9 MR. BROOKS: Thanks very much. Let's
10 take a couple of questions. Chelsey, can we ---

11 MS. YOUNG: Sorry.

12 MR. BROOKS: --- cut your mic? Thanks.

13 All right. Scott, then up to Rusty,
14 and then down to Bob.

15 MR. TAYLOR: So it's kind of a
16 combination of question and comment. This goes
17 along the same question that the seal question
18 from the prior presenter.

19 When -- if it could be demonstrated
20 that, that as this pertains to the US, this ESA

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1 listing, that either the information is
2 inaccurate or flawed, is there, how is, what does
3 the mechanism look like to get it unlisted?

4 This is clearly not a harvestable
5 species for us. Never was really a problem. But
6 it's near and dear, because this is a pelagic
7 species that probably not many other fisheries,
8 if any other fishery is going to interact with,
9 other than the Pelagic Longline Fishery.

10 And that I can tell you, you're only
11 going to find these animals if you look for them
12 where they are. Anybody that fishes the Bahamas,
13 or has been down off of Cat Island or Cat Key, I
14 wouldn't get in the water, okay?

15 The, we had boats down in the Southern
16 Caribbean, which I didn't see on your area
17 listing at all, that we saw such a proliferation
18 of these animals down there that we literally
19 could not fish.

20 Animals as big as submarines, and huge

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1 numbers, okay, in US Caribbean waters - you know,
2 areas south of Puerto Rico, the Aves Ridge. All
3 the way down through there, there is a huge
4 population of these whitetips that weren't even
5 taken into consideration.

6 So, you know that, I would agree that,
7 that where we generally longline fish out there,
8 we have, we're not seeing a lot of animals, and
9 the U.S. is certainly not the problem.

10 But this sort of goes to the same
11 discussions that we were having yesterday, which
12 is, you know, we put these things in place, but
13 there never seems to be any exit strategy for
14 them.

15 MR. BROOKS: So, Scott, I'm going to
16 jump in just to reframe your question, which it
17 sounded like it is, it, what's the process to
18 revisit the status if additional data can be
19 brought in? Correct?

20 Chelsey?

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1 MS. YOUNG: Yep. So we're required to
2 look at the status of species once they're listed
3 every five years. So once that happens, any new
4 information that we get, we can consider in that.

5 And we go through the same process,
6 the same kind of status review that we did before,
7 and include any information.

8 So at that point, we would be able to
9 make a different assessment to see, well, did we
10 make a mistake? Was their information in error?
11 Things like that.

12 And we have de-listed species because
13 of that. But as you mention, this is, so, so
14 just to step back -- for the Northwest Atlantic,
15 that included the Caribbean. That was based on
16 the Northwest Pelagic Longline Observer data. So
17 it did include those areas.

18 If there are things that we're not
19 seeing, then that's where we really need input
20 and information from you guys that are out there

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1 seeing these things, and that is definitely
2 something that we can take into consideration.

3 MR. TAYLOR: Just a quick response, I
4 don't think that you have much pelagic longline
5 observer data out of the Caribbean, because it's
6 been a long time.

7 I mean, Marcos could maybe answer that
8 better than I could, but I think it's been a long
9 time. I know that the boats that we had down in
10 there were some of the few boats that were
11 actually fishing down in that area for quite some
12 time.

13 And I'm not so sure that we actually
14 had an observer down there, but it's a
15 significant population.

16 MR. BROOKS: Scott. Rusty.

17 MR. HUDSON: Thank you. Chelsey,
18 thank you for the presentation. I did submit
19 comments through the years, and I had asked for
20 a distinct population segment, simply because, as

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1 was noted, we've made a lot of changes that
2 eliminated the mortalities from fishing --
3 particularly off of Florida, because they're a
4 warmer water animal with a year-round closure in
5 US waters.

6 What he mentioned about Puerto Rico,
7 we've heard that a lot. Particularly between
8 there and Dominican Republic, there's a lot of
9 full-grown oceanic whitetips.

10 The last thing I have a question about
11 was the two percent valuation, and was that just
12 using like Hong Kong numbers or something? Is
13 that a valuation built on pounds or dollars?

14 MS. YOUNG: So the, the study that
15 looked at the composition of the shark fin trade
16 was done back in 2006. It was a paper by Shelley
17 Clarke that looked at genetic samplings of the
18 markets.

19 And I do believe it was limited to the
20 Hong Kong market, as that was the largest and

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1 most significant market in Southeast Asia. I do
2 believe it is transitioning away from Hong Kong
3 in recent years, but back -- well, this is 12
4 years ago -- that is the, the biggest market where
5 they did the study.

6 And as far as the DPS question -- so
7 we did, and thank you for your comments. I
8 remember you calling me on the phone. And we did
9 look at the DPSs.

10 It was something that was requested,
11 actually, by the petitioner, and they submitted
12 comments as well, wanting us to look at that
13 issue.

14 Regulation differences is something
15 that we can look at, but identifying DPSs is a
16 very complex policy process that we go through,
17 and when we looked at the genetics and the tagging
18 data, we just didn't have enough information just
19 yet to be able to identify the Northwest Atlantic
20 population as a DPS.

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1 MR. HUDSON: With Hong Kong, what goes
2 to the auction isn't necessarily all the prime
3 fin. Sandbar, dusky, oceanic whitetip, great
4 hammerhead dorsal, the needle inside of the, the
5 needle inside of the fins is demanded with a
6 higher-value price, and a lot of times, spoken
7 for. Never goes through the auction.

8 And you're right. There is a
9 transition. I'm very familiar with Chelsey's
10 work --- not Chelsey, but Shelley's work with
11 regards to the 2006, and then she's updated some
12 of that for the FEO thing from 2015. But that
13 only goes through 2011, and remember that 2006
14 stuff only went -- so that's a lot of dated
15 information.

16 And a lot of people keep using that.
17 We need updated information. Thank you very
18 much.

19 MR. BROOKS: Bob.

20 MR. HUETER: Thank you. Thanks,

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1 Chelsey.

2 First, a quick note on the depth range
3 of the oceanic whitetip. It is true that they
4 spend the great majority of their time in waters
5 less than 200 meters deep.

6 But satellite, published satellite
7 tag studies have shown dives down to more than
8 1,000 meters. So keep that in mind in terms of
9 possible interactions with deeper gear.

10 Maybe this is a question for Randy,
11 but I, I've always questioned why oceanic
12 whitetips have not been listed as a prohibited
13 species, given all this that we've known for a
14 long time.

15 It, it is still an authorized species
16 with these restrictions -- can't be kept by
17 pelagic longliners, and can't be kept by
18 recreational guys if they have other HMS on
19 board.

20 But why, are we going to finally now

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1 use this listing to move it down to the prohibited
2 species category once and for all?

3 MR. BLANKINSHIP: I am going to look to
4 Karyl for assistance with this answer.

5 (Laughter.)

6 MR. BROOKS: It's the joy of wearing
7 the hat, you know?

8 MS. BREWSTER-GEISZ: Thanks, Randy.
9 Thanks, Bob.

10 So as you know, in our regulations, we
11 have four criteria in order to consider before we
12 list anything as a prohibited species.

13 Right now, oceanic whitetip, as you
14 said, are an authorized species. We do not
15 really see them anywhere in our landings. So
16 there hasn't really been a need to list it as
17 prohibited species.

18 But it is something we can consider in
19 the future now that they're listed. We do have
20 a, you know, as you know, scalloped hammerhead in

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1 the Caribbean is also an ESA species now that
2 we're also thinking about, and trying to figure
3 out what to do.

4 But we are also waiting for the
5 Section 7 consultation to complete.

6 MR. BROOKS: Thanks. I'm going to take
7 three more speakers, and then we'll get you to
8 lunch. So we'll go to Sonja then down to Marcos
9 and then over to Bob.

10 MS. FORDHAM: Thank you. Thanks for
11 the presentation. I was going to say what Bob
12 said, so I appreciate Carol's answer on that.

13 I have one slightly, just small
14 correction on the, it's true that this species
15 stands out with global protection, in terms of
16 prohibitions at RFMOs. But it's just the four
17 major tuna RFMOs, not all RFMOs. Not that
18 they're that relevant, but just that are a lot
19 more RFMOs.

20 And you, I appreciate the review of

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1 the inadequate regulations. I just had a couple
2 questions. Maybe I'll just shoot them all out,
3 and you can answer them later.

4 But I know the U.S. is doing a lot of
5 workshops to improve the implementation of the
6 CITES listings for sharks, and it's a bit hard to
7 keep track. I wonder if you know, or maybe we
8 can find out tomorrow, if there are any non-
9 detriment finding yet for, for oceanic whitetip?

10 And I think in general, a sort of
11 universal goal of the conservationists, in terms
12 of global shark conservation, is to get
13 government, environment and Protected Resources
14 officials working more closely with fisheries
15 agencies.

16 And I think the US probably does that
17 better than most, but I think there's still for
18 improvement and increased integration.

19 So to that, I'm just wondering if
20 Protected Resources is having any type of, maybe

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1 somewhat formalized process to work with the NOAA
2 people that go to RFMO meetings to see if we can
3 work together to improve compliance on those
4 TRFMO prohibitions. I think that would be a
5 really helpful addition.

6 And then my last question is just, I
7 assume, with the recovery planning, that you're
8 going to form a recovery team of stakeholders,
9 and I just was wondering about the timeline for
10 that.

11 Thanks.

12 MS. YOUNG: Okay. I'll see if I can
13 answer them all in order.

14 The first one, about non-detriment
15 findings, I'm not, I only am aware of one so far,
16 only because I came across it in my research in
17 between the proposed and final rules, and that
18 was from India. And so I, I can't give you the
19 details. I don't remember it off the top of my
20 head. But they're, I think that is the only one

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1 that has been submitted so far.

2 As far as working more closely with
3 fisheries organizations, I think that is where
4 having a recovery plan in place will help us to
5 be able to do that, and there is certainly an
6 intention to do that with this species.

7 We are talking about potentially
8 convening a team. We're, we're still in the very
9 initial stages of discussion, but I will be the
10 lead person for recovery coordination for this
11 species, so that is something that I will make a
12 priority for myself and for our office.

13 So I think that got to all of your
14 questions? Yes. Okay.

15 MR. BROOKS: Thanks. Marcos and then
16 Bob, and I'll ask you both to be as focused as
17 you can so we can get to lunch.

18 MR. HANKE: Just to report that there
19 is some interactions, also, with the artisanal
20 and the recreational fishermen with the white,

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1 oceanic whitetip on north coast of Puerto Rico.
2 And is very needed -- and some scalloped
3 hammerhead, too.

4 And it's needed, outreach and
5 education, and use maybe the council level to
6 educate the community down there. This is part,
7 part of the things that we really need on the
8 Caribbean region. Thank you.

9 MS. YOUNG: So I will be back tomorrow
10 to talk about SPAW protocol listings, which the
11 oceanic whitetip was just also added, and that
12 will be also a very helpful vehicle for getting
13 that information down to the Caribbean, and the
14 folks down there. So I will be talking about
15 that tomorrow. Thank you.

16 MR. BROOKS: Bob, do you have a point
17 on this?

18 MR. HUETER: Just a quick point of
19 information to add to that. We work on the, in
20 Cuba and on the north Cuba coast, there are also

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1 oceanic whitetip, especially the very, very, very
2 young. It looks like it's a nursery, a pupping
3 ground for them on that north coast.

4 MR. BROOKS: And then over to Bob.

5 MR. BOGAN: I'll be brief. Just a
6 cautionary tale. I, Mike brought up dogfish and
7 the seals.

8 And I know we're, we're concentrating
9 on the apex of predators. My concern is that,
10 you know, a few years ago, we protected the
11 dogfish. And it seems to me like they decimated,
12 from my experience, the groundfish.

13 So if we do something, it's got to be
14 in small increments. Got to be careful.

15 MR. BROOKS: Thanks. Thanks, Chelsey,
16 very much. Thanks, everyone, for staying so
17 focused through a lot of things this morning.

18 We have a very busy afternoon, so we
19 are going to ask folks to be back in an hour for
20 lunch. So we will reconvene at 1:30, and we're

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1 going to be diving into the Amendment 7 three-
2 year review.

3 So thanks to everyone, and all the
4 speakers. Thanks.

5 (Whereupon, the above-entitled matter
6 went off the record at 12:32 p.m. and resumed at
7 1:38 p.m.)

8 MR. BROOKS: All right, we're going
9 to get going, because we have a lot to do this
10 afternoon. Okay, if I can get everyone to grab
11 their seats, please? All right, so if I can get
12 everyone to find their seats and focus up here,
13 appreciate that.

14 So just so we all know that we are
15 under one constraint: This afternoon, the hotel
16 is going to be turning this room into an evening
17 event space, so that means we really need to
18 adjourn at 5:30. So we don't have the
19 flexibility to bleed to 5:45 or 6:00, although I
20 know we all may want to do that. We don't have

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1 that option, so we're all going to have to work
2 to keep ourselves on track. We have a number of
3 important topics to cover this afternoon, so
4 let's just dive in. We'll start off by handing
5 it to Tom Warren, to give us an overview of the
6 Amendment 7 three year review.

7 MR. WARREN: Thank you, Bennett. My
8 name is Tom Warren with HMS in Gloucester. Let
9 me know you can't hear me adequately. This is
10 going to be a brief status update of the three-
11 year review of the individual bluefin quota
12 program, and I'll be showing you some preliminary
13 data. As you may be aware, the Magnuson-Stevens
14 Act requires a formal review of all catch share
15 programs, and so we're in the middle of this
16 process currently.

17 An overview of the elements of a
18 three-year review: The purpose is to describe and
19 analyze the impacts of the IBQ Program since the
20 baseline period. We're defining the baseline

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1 period as the three years prior to
2 implementation, and comparing that to the three
3 years subsequent, determining whether the goals
4 of the program have been met, and evaluating the
5 various elements of the catch share program.

6 In the timing of this review, we've
7 given you some updates last year, we laid out our
8 plan and schedule. So this is the first time
9 we'll be showing you extensive data. We are
10 targeting the draft document to be completed this
11 fall, and then next spring will be the final
12 document.

13 There's been an extensive amount of
14 data compiled. I'm going to do a pretty brief
15 overview today to expose you to the type and scope
16 of the data, kind of perk your interest and
17 hopefully your questions. I won't be diving in
18 too deep, but I'll hopefully give you an example
19 of what's out there.

20 So, preliminary data: why

1 preliminary? We're soliciting your input for
2 ideas on how to evaluate this program: whether
3 the objectives were met, what type of data is
4 used, what could we use, and how to use the data
5 best. Also, the 2017 data -- the third year of
6 the review -- is not complete, specifically,
7 logbook data, as an example.

8 What we do have complete is a draft
9 introduction to the document, to give you an idea
10 of the narrative and how that document will
11 start. We have the data divided into various
12 chapters. As you go through this presentation,
13 you can see different types of chapters, and you
14 can consider how we can use it to evaluate the
15 IBQ Program, and what other data might be useful.

16 The objectives of the program,
17 briefly, as this is an abridged version: Limit
18 bluefin tuna catch with longline gear; provide
19 incentives to avoid bluefin; provide flexibility
20 in the fishing operations; optimize fishing

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1 opportunity; and balance such impacts on the
2 other permit categories.

3 The longline fishery does not take
4 place in a vacuum, and there are interactions,
5 notably through quota allocations, etc., with the
6 other fisheries.

7 So this is an example of one of the
8 chapter headings in this data presentation in
9 dark blue. The white font is actually what I
10 will be showing you, and the small yellow font
11 provides a description of the data that's
12 available online. You can access it through the
13 agenda, and there's extensive other data that's
14 also available, and I encourage you to look at
15 that. Again, these are just samplings.

16 So there are multiple types of
17 allocations that occur each year: the January 1
18 allocation, potential transfers from the Reserve
19 category that have occurred, and also a potential
20 bump-up due to an ICCAT baseline or quota change.

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1 One thing to note is, all the January
2 1 allocations occur to all eligible shareholders
3 that are associated with a vessel. So there are
4 136 eligible shareholders defined by Amendment 7,
5 but only a subset of that are allocated quota,
6 because they're associated with a vessel. Those
7 permit holders that are no longer associated with
8 a vessel, or the permits expire, don't get quota.
9 They do get kind of a placeholder, but again,
10 they are not allocated quota.

11 Another caveat here is, in-season
12 allocations may be to all eligible shareholders,
13 or we may choose to allocate only to active
14 vessels, as a way to target active vessels and
15 allocate more efficiently in season.

16 Also of note: Overall, the Gulf of
17 Mexico IBQ represents about 35 percent; in
18 contrast, the Atlantic IBQ is 65 percent.

19 So, fishing effort: I'll be showing
20 you only data from January through October in

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1 each of these years, because, again, 2017 data
2 isn't complete, and in order to show analogous
3 data over the years and get a better idea for how
4 2017 compares, I'm only showing you January
5 through October. The complete data set is also
6 available, though.

7 So this shows logbook metrics, numbers
8 of sets, numbers of longline trips, numbers of
9 hooks. The take-home message is, a decline over
10 time in fishing effort with what appears to be a
11 change in the rate of that decline, or maybe even
12 a cessation of that decline in 2017. We'll see,
13 as 2017 data is completed, how that picture
14 looks.

15 This looks at the number of sets in
16 the Atlantic and Gulf of Mexico by year, with
17 blue representing Atlantic. You can see there's
18 been a fairly stable trend, maybe a slight
19 decrease, in the number of sets in the Gulf of
20 Mexico over time.

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1 This shows the number of active
2 vessels, based on logbook data in blue, and also
3 VMS data in the brown color. Again, similar
4 trends with a stable pattern 2016 to 2017, and
5 you note the logbook data on the number of active
6 vessels corresponds well to the VMS data.

7 So now, some various data on landings
8 and dead discards: This table shows bluefin
9 landings, bluefin dead discards; it gives you the
10 total catch, base quota, adjusted quota, and
11 various percentages, how these landings measure
12 up to the quotas over time. This does not
13 include the Northeast Distant Area of 25 metric
14 ton set-aside quota.

15 The take-home message here is the
16 trend in decrease in catch since the
17 implementation of Amendment 7, dramatic decrease
18 in dead discards and a decrease in landings,
19 with, again, the decrease in total catch. So
20 note at the far-right column, as a percentage of

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1 the adjusted quota a market change with the
2 advent of Amendment 7 and the IBQ Program.

3 This shows the same data depicted
4 graphically. The landings are the lower bars,
5 dead discards are the upper bar. So landings are
6 somewhat down, but in a fairly stable trend.
7 But, again, dead discards have declined.

8 This shows total catch as well as the
9 adjusted quota. The adjusted quota, in orange,
10 has increased due to three factors: The
11 Amendment 7 added a different allocation scheme,
12 same percentage, but then the longline categories
13 give it an additional set sum each year; also, an
14 ICCAT quota increase; and then, in-season
15 allocations also contribute to this increase.
16 But then again, you'll see the blue line
17 represents total catch.

18 In contrast, this graph shows landings
19 by area including the Northeast Distant Area, a
20 little bit different picture. The Northeast

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1 Distant Area is a geographic area, east of 60
2 degrees. It also represents a 25-metric-ton
3 ICCAT set-aside quota. So a discussion of NED
4 can be confusing, because it can represent either
5 a quota or the landings attributed to this
6 geographic area.

7 Under the IBQ Program, vessels are not
8 required to account for this 25 metric tons using
9 their individual bluefin quota. But when the NED
10 25 metric tons has been attained, then they must
11 use their individual quota to account for such
12 bluefin.

13 The overall trend, you can see, is a
14 decrease in the Gulf of Mexico. Landings are
15 represented at the top bar. The middle bar is
16 the Atlantic other than the Northeast Distant
17 Area, and the blue bar is the Northeast Distant
18 Area. So a notable pattern in recent years has
19 been an increase in the Northeast Distant Area
20 catch. Again, this is inclusive of the 25 metric

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1 tons, and is applicable greater than the 25
2 metric tons.

3 This shows the distribution of
4 landings over time, comparing pre-IBQ Program,
5 2012 to 2014 average, to post-IBQ Program, 2015
6 to 2017. So, looking at the blue bars
7 representing before the IBQ Program, the trend is
8 predominantly landings in the first half of the
9 year. You can see, under the IBQ Program that
10 the trend has shifted to more evenly distributed
11 throughout the year, but with some summer pulse
12 in landings.

13 This represents the number of vessels
14 landing bluefin and the number of active vessels.
15 The blue bar shows the number of active vessels;
16 you can see that has decreased over time. The
17 number of vessels landing bluefin is the brown
18 bar, and also shown is the percentage. So as a
19 percentage of the active vessels, those landing
20 bluefin has declined in a pretty stable manner

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1 since 2015.

2 This shows the discards as a measure
3 of CPUE, using observer data extrapolated and
4 compared to the number of hooks we used, a metric
5 of per 1,000 hooks, so there's not a whole lot of
6 zeroes and the data is a little more
7 intelligible. Essentially, the trends are
8 similar. These different trend lines and CPUE
9 are shown by ICCAT area. So all the areas show
10 a similar trend with the exception of one area,
11 Area 51, which has very low numbers of both
12 bluefin hooks. We're going to be looking at this
13 data further, to make sense of it.

14 The purse seine fishery is related to
15 the IBQ Program, in that purse seine vessels may
16 lease quota to the longline fisheries, so that's
17 why that fishery is relevant. This shows the
18 base quota, the adjusted quota, the landings, and
19 the dead discards.

20 You can see the base quota has

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1 remained fairly stable or increased, but in
2 contrast, the adjusted quota declines with the
3 onset of Amendment 7 in 2015. You'll recall that
4 the longline quota as of 2015 is based upon the
5 catch of the previous year.

6 So a relatively inactive year or
7 inactive year would result in only a portion of
8 the quota being allocated in a subsequent year.
9 So that's the phenomenon you're seeing in 2015,
10 2016, and 2017 with the decreased adjusted quota,
11 and there's been no purse seine activity in the
12 last two years.

13 Now onto some IBQ metrics. The IBQ
14 balance over time is instructive. This is
15 showing the number of vessels with IBQ
16 allocation, basically, the number of vessels with
17 a one-fish equivalent. So again, this represents
18 basically how many vessels have enough quota to
19 fish.

20 This represents only 2017, but at the

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1 start of 2017, there were 124 vessels that had at
2 least a one-fish equivalent of IBQ. By the end
3 of the year, it was only 106 vessels that had a
4 one-fish equivalent. This makes sense over time;
5 vessels are, in fact, using a substantial portion
6 of their quota.

7 This shows the distribution of
8 landings by IBQ tier. You'll recall that there
9 are three tiers of allocation, high, medium, and
10 low, and this also shows permitted vessels
11 without IBQ allocation that are able to obtain it
12 through leasing. The landings are distributed
13 predominantly between the high- and medium-tier
14 categories.

15 This shows the distribution of quota
16 debt by tier, showing a little bit different
17 pattern. Most of the quota debt is by those
18 vessels with medium-share allocation, and this
19 table on the right shows actual pounds of quota
20 debt by tier.

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1 Then this shows the percentage of
2 total leases by weight by shareholder tier, a
3 different pattern once again, with medium
4 shareholders showing the lion's share of leases
5 in 2015 to 2016, but then in 2017, the high
6 shareholders had the most leases by weight.

7 Lease transactions by month: This
8 shows 2015, 2016, and 2017, although I don't see
9 2017 on the legend. The year-end high peak
10 transactions were in 2015, in contrast to the
11 other years.

12 The pattern of note is the difference
13 between 2015 and 2016 and 2017; in 2015, the rules
14 regarding IBQ allocation and use were different.
15 This was the first year of the program, and we
16 had annual accountability versus trip-load
17 accountability. Vessels were not required to
18 account for the bluefin using IBQ on a trip basis,
19 but again, could wait until the end of the year.
20 You can see this reflected in the lease pattern

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1 with that blue spike at the end of the year. The
2 other two years show the spikes in the summer
3 months, reflecting the highest months of bluefin
4 landing.

5 This looks at the longline leases
6 versus the purse seine leases, as a percentage of
7 the total leases. The longline-to-longline
8 leases are represented in the gray, versus the
9 blue are purse seine to purse seine, and the
10 orange are purse seine to longline. Basically,
11 this reflects the decreasing activity of the
12 purse seine fishery in the leasing market over
13 time.

14 The first year, they were relatively
15 active participants, and not so much in 2017,
16 although they did contribute 20 percent by weight
17 to the Longline category.

18 This shows the price per pound of
19 leased IBQ and compares that to the ex-vessel
20 price of bluefin tuna sold by longline vessels,

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1 to give you an idea of the trends and the price
2 differential between what vessels paid to lease
3 and what the ex-vessel price for that bluefin
4 tuna was. It also shows you the number of
5 transactions used to estimate those lease prices,
6 and then the total number of lease transactions.

7 So one take-home message here is the
8 decrease in the price of lease IBQ over time; the
9 other is, there is not a lot of different between
10 the ex-vessel price and the lease price. And
11 because this is an average, some vessels are
12 losing money on the deal; in other words, leasing
13 quota at a higher price than they get for it at
14 the dock.

15 Also of note is the relatively few
16 number of transactions used to calculate the
17 price; in other words, not all vessels are
18 writing down a price when they complete the
19 leased transaction on the online system. But
20 we've made changes recently that a vessel is

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1 required to complete information in the data
2 field in order to execute the lease.

3 This looks at the cost of leasing on
4 a little bit different basis, as a fleetwide
5 measure. We took the total pounds of quota
6 leased in each year, multiplied that by the
7 weighted average lease price of the same
8 information in the previous graph, estimated a
9 total cost of the leased IBQ, and then compared
10 that to the total longline revenue.

11 The total longline revenue in 2017 is
12 still pending, so that's not included. But based
13 on this fleetwide metric, the cost of leasing IBQ
14 represented about two percent of the longline
15 revenue in 2015, and about one percent in 2016.

16 However, arguably, a more useful
17 metric is looking at the cost on a vessel basis,
18 because many vessels did not need to lease IBQ,
19 and so this looks at the average pounds of leased
20 quota per transaction, multiplies that by the

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1 average lease price, and calculates a cost-per-
2 lease transaction. This is then compared to the
3 revenue per vessel per trip.

4 This only is revenue for those vessels
5 that leased quota, so it's not a fleet-wide
6 revenue, it's revenue based on those vessels
7 which leased, and this estimates approximately 34
8 percent of trip revenue, representing the cost of
9 a lease, 13 percent in 2016, and 13 percent in
10 2017. So, a little bit different metric.

11 And also of note, the average revenue
12 per trip for such vessels is greater than the
13 average revenue per trip fleetwide. So there are
14 some interesting things going on.

15 This shows average revenue per vessel,
16 2013 through 2016. The data for 2017 is not
17 available yet. Note the increase in the average
18 revenue per vessel in 2016 over 2015, although
19 certainly not back to historic levels.

20 Total revenue fleetwide: down in

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1 2016, but at least not down as much as the
2 previous trend. Again, I apologize; I'm flying
3 through these for the sake of time. We can have
4 a more ample discussion and dig into your
5 specific areas of interest when I've finished
6 this formal presentation.

7 This shows data on electronic
8 monitoring program. As you recall, vessels are
9 required to submit hard drives at the end of each
10 pelagic longline trip, which are mailed in. This
11 shows the number of hard drives received in 2016
12 and 2017, as well as some metrics on compliance:
13 the number of hard drives received late; how many
14 times there were multiple trips on a hard drive,
15 because, theoretically, there should be only one
16 trip's data on a hard drive, as the requirement
17 is to send the drive in at the end of each trip;
18 and then the number of missing trips. The metric
19 has improved over time. Compliance, overall, is
20 pretty robust.

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1 VMS reporting: Also recall that the
2 vessels are required to submit data on bluefin
3 catch, numbers of hooks set, catch by size
4 category after each set. Looking at the
5 compliance with respect the number of bluefin
6 reported retained by the vessels through VMS with
7 the number of bluefin landed based on dealer
8 data, this shows only 2017 data. But you can see
9 the correspondence is strong between the dealer
10 data and the VMS data, which, I believe,
11 addresses Scott's question from earlier.

12 In 2015 and 2016, the correlation was
13 strong, not quite as good, but the trend was
14 improving over time, so I thought I'd show the
15 best news in 2017.

16 Other topics with respect to the three
17 year review include cost recovery. Cost recovery
18 is a Magnuson-Stevens requirement, to evaluate
19 cost recovery and potentially implement it.
20 Under the MSA, NMFS may collect fees to cover the

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1 cost of management, data collection, analysis,
2 and enforcement activities associated with the
3 cost of a catch share program.

4 These costs are specifically
5 incremental, dedicated costs that would otherwise
6 not be incurred except for the existence of the
7 catch share program, and the maximum recoverable
8 costs set by Magnuson is three percent of the
9 total ex-vessel value of the catch share species.

10 So in this case, the catch share
11 species is bluefin tuna, and not the target
12 catch, so the amount of recoverable cost is
13 somewhat limited. This chart shows 2015 and 2016
14 revenue, as well as what three percent of such
15 revenue represents: \$17,000 and \$22,000.

16 So the considerations when we're
17 evaluating cost recovery is, again, the amount of
18 recoverable cost, which is relatively low, and
19 then we need to determine the cost to NMFS
20 associated with the annual logistics.

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1 So it would cost NMFS money annually
2 to estimate the amount of incremental costs that
3 we've incurred due to the catch share program,
4 develop a Federal Register notice to notify folks
5 of what the recoverable costs will be, how we
6 calculated them, the net cost to the industry,
7 and then mailing of bills, instructions to the
8 fleet, fees for the computer interface, and the
9 computer system for administering such payments,
10 follow-up communication with the fleet, and
11 oversight of the program.

12 So our preliminary assessment is,
13 given these costs to NMFS and the relatively low
14 recoverable cost, it may, indeed, not make
15 economic sense to implement a cost-recovery
16 program if the annual costs to execute such a
17 program approach the costs we would be
18 recovering; somewhat common sense.

19 Other topics for the three-year review
20 consideration that are required by Magnuson are

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1 IBQ permanent sale provisions. Currently, folks
2 may lease IBQ, but such leases expire at the end
3 of a specific year. There is no current
4 provision for permanent sale of IBQ. So the
5 question in the three-year review would be, Okay,
6 is this something that we need? What should the
7 provisions be? Should there be any limitations?
8 Should there be a cap on IBQ allocation or usage?
9 Currently there is no cap.

10 Next, IBQ allocation revision is
11 currently a 3-tier system as determined by
12 Amendment 7 that was based on historic bluefin
13 catch rate and target catch rate in a fairly
14 complex formula. Should this be tweaked, or
15 should this be essentially thrown out and go back
16 to the drawing board with some other allocation
17 type of system?

18 And then lastly, how does the IBQ
19 system relate to the purse seine fishery
20 participation in the program, so far as purse

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1 seine fishery is able to lease -- as I say, again,
2 to the IBQ Program, and vice versa, so the two
3 fisheries are linked in that manner. So again,
4 we'll be requesting your ideas on all these
5 aspects.

6 With respect to the purse seine
7 fishery, our thought is that the formal three
8 year review will look at the question of the purse
9 seine fishery with respect to any cap on IBQ
10 leases, whether or not the leasing program with
11 the longline and purse seine fisheries have
12 combined, should continue, but won't look at the
13 purse seine fishery in the wider context, such as
14 George Purmont alluded to yesterday.

15 Our thought is that a potential
16 amendment could follow up the three-year review
17 process to respond to recommendations and
18 necessary changes to the program. An amendment
19 could be more broad than the IBQ Program, and
20 include related bluefin topics, such as

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1 evaluation of alternatives for maintaining or
2 doing away or modifying the purse seine fishery.

3 Lastly, Randy covered this briefly
4 yesterday: Deepwater Horizon is a factor in what
5 was going on in the Gulf of Mexico in 2017 and
6 will be in 2018, insofar as there were seven
7 vessels in 2017, part of the repose. We're not
8 using longline gear, and 10 such vessels in the
9 current fishing year.

10 MR. BROOKS: Thanks, Tom, well flown.
11 We have a few minutes for some questions or
12 comments. Again, I think any clarifying
13 questions you have for Tom on anything he's
14 presented, but also feedback on things like, Is
15 there other data to be looking at? Are there
16 other ways to look at the data that he did
17 present? Again, we've got time for about five
18 or 10 minutes of questions and comments, and
19 we'll start with you, George.

20 MR. PURMONT: Nice going, Tom. I

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1 think, in essence, the distillation of the
2 history of the seine fishery which, in its
3 inception, the landings of commercial fishing
4 through seiners created the United States bluefin
5 tuna quotas. It is my opinion, and having been
6 there in the beginning, that it is time to close
7 the chapter on purse seining, and it is also time
8 for us to revisit, carefully, the concept of
9 lease, that the seiners have had.

10 I think it's a fraudulent thing that
11 you can lease something, but you can only lease
12 it to one particular fishing methodology, and
13 that in this case, longlining, should be the
14 recipient. But it could not go to harpooning,
15 could not go to the General category.

16 So I don't think that the seiners
17 should be rewarded necessarily with inactivity,
18 with non-participation. It was never NMFS's
19 intent that a lease should be established in
20 perpetuity. This is not a 401(k) plan for people

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1 who cannot, any longer, participate in a fishery.

2 So it's my recommendation that we
3 close the chapter. We say, Okay, it's done. Put
4 a fork in it. Thank you.

5 MR. BROOKS: I'd like to hear from
6 Scott, then Shana, then Dewey, and Glen.

7 MR. TAYLOR: I find it interesting
8 that one of the first objectives was to limit the
9 bluefin catch of the longline fishery, because
10 there was nothing in Amendment 7 that from
11 methodology really accomplished that. We talked
12 about that from the standpoint of areas that we
13 fish. When you put your gear out, you're going
14 to interact, basically, with what you're going to
15 interact with, if there are bluefins that are
16 going to be in the area that we're going to have
17 bluefin catches.

18 It poses the question to me --
19 essentially to elaborate where George was -- what
20 are we trying to accomplish now, as far as this

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1 bluefin fishery? I think some of the objectives
2 have changed, maybe not specifically just to
3 bluefin, but sort of in a global sense.

4 The industry's in trouble, as I keep
5 telling everybody, it's financially in trouble.
6 By your own numbers, it's in trouble. You want
7 to put the slide up there, of what the ex-vessel
8 value is, per boat? The total annual revenue per
9 vessel, I should say. There you go. Not
10 survivable.

11 I mean, a boat that's not stocking --
12 you know, the numbers are somewhat skewed,
13 because all the vessels are kind of filtered into
14 that number. But a boat that's not stocking
15 \$750,000 to \$1 million a year, with what it costs
16 to operate these things, is not going to survive.

17 And so, what has happened is, we put
18 these things into place -- I find it very
19 interesting that all the other user group
20 allocations are at 100 percent. There is

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1 obviously a fundamental flaw, from our
2 perspective, that nobody has really asked us the
3 reason why we're not getting utilization out of
4 this resource.

5 If you're going to allocate quota to
6 the longline fleet, it's reasonable that the
7 longline fleet at least gets to commercially
8 benefit from it. I don't want to get too far off
9 tangent, but the ex-vessel value per fish per
10 pound is very telling. It was telling in the
11 numbers that you've been seeing in the trend of
12 the value, but the reason is because the majority
13 of the fish that are being retained by the
14 longline fleet right now are essentially the fish
15 that would otherwise be discarded, and the fish
16 that are coming to the boat, as a general rule,
17 that are dead are going to be the lowest quality
18 fish.

19 But there's more than ample quota, by
20 your own admission. The quota that you have made

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1 available to the purse seiners only had one place
2 that it was going to go, which was to the longline
3 fleet. And if that quota was in the hands of the
4 boats that were capable of executing it and
5 fishing it, then from a practical sense I could
6 say to my guys, Okay, you've had a successful
7 trip, you've got a live bluefin there at the boat
8 that there's some value in. Go ahead and box
9 him, put him in the boat.

10 That's not, with your terminology,
11 targeted fishing. That's taking advantage of the
12 commercial viability. We are out there to make
13 money, at the end of the day. If we don't --

14 MR. BROOKS: I'm sorry. I just want
15 to jump in, because I think we can talk more about
16 this in the next subject, and I want to focus it
17 really on the three year review.

18 MR. TAYLOR: So then, I again want to
19 implore to you, a mechanism to have utilization
20 now that there's individual accountability put

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1 into the hands of the people that are executing
2 the fishery. We need whatever help that we can
3 get that does not equate into overfishing. We
4 just want the same opportunity that any of the
5 other user groups are being allocated.

6 MR. BROOKS: Thanks, Tom. I
7 appreciate that. Dewey?

8 MR. HEMILRIGHT: I'll save my card for
9 later.

10 MR. HOPKINS: Mainly I just have a few
11 questions. I didn't hear anything in your
12 presentation about the box that we have off North
13 Carolina. Do you plan to review any
14 effectiveness of that, or possibly changing those
15 criteria to qualify, or maybe just doing away
16 with it altogether?

17 MR. WARREN: In the larger
18 presentation that's available with the agenda;
19 there's a slide on that. The short answer is,
20 yes, we plan on reviewing the criteria and

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1 evaluating its effectiveness.

2 MR. HOPKINS: Okay. Was there any
3 talk about the hard drives being able to combine
4 trips? In North Carolina, we have a lot of small
5 boats, and a lot of times we'll go out for one
6 day, maybe have one set, two sets, maybe three
7 sometimes. It does get cumbersome to run to the
8 post office if you go out one day and come back
9 in. Have you looked at that, maybe being able
10 to change anything where we could have a number
11 of sets on a particular hard drive?

12 MR. WARREN: We have considered it,
13 not in an in-depth manner. There are some
14 technical issues that make that more challenging,
15 and during the initial phases, we were hesitant
16 to make the program even more complex. But it's
17 something to consider, going forward. If it
18 makes sense from your point of view and it's
19 something we can administer, it's worth having a
20 good look at.

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1 MR. BROOKS: Thanks. Shana?

2 MS. MILLER: Yes, thanks, Tom, for
3 this presentation; it took a huge amount of work
4 to compile all this data, so thanks for that.

5 I think it's really encouraging, the
6 numbers you've put up as far as the success of
7 the IBQ Program and the rest of the A7 measures.
8 The discards are way down, the overage that we
9 kept seeing in the Longline category has ended,
10 a reduced percentage of mortality coming from the
11 Gulf of Mexico, the lease price of the IBQs is
12 down, as the fleet has kind of figured out the
13 market for those, so really great news all there.

14 So just on this revenue: The biggest
15 drop in revenue is from 2013 to 2014, before
16 Amendment 7. So I think as part of this three
17 year review, you had the number of active vessels
18 back to 2012, for example. There's been this
19 steady attrition in the fleet for years now, and
20 I think it's really important to take this

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1 analysis back pre-2012, because there are many
2 more factors at play than just Amendment 7.
3 Thanks.

4 MR. BROOKS: Thanks, Shana. Marty?

5 MR. SCANLON: The first question I
6 have is, how many active vessels are in the Gulf
7 of Mexico? That's the first question I have.
8 They have 35 percent of the PLL quota, or we have
9 65 percent. How many active vessels are in the
10 Gulf of Mexico? Do you know?

11 MR. WARREN: Off the top of my head,
12 I don't have a precise number. It's less than
13 35 percent, though.

14 MR. MCHALE: And we can get that
15 number for you, Marty.

16 MR. SCANLON: Okay. The other thing
17 I say with regard to what George said: One of the
18 things that give some level of comfort within the
19 PLL when it comes to being a choke species is the
20 fact that that IBQ that's sitting in the purse

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1 seine can only be given to the PLL. So that is
2 really what's keeping us from becoming a choke
3 species, that we have any kind of control over
4 whatsoever.

5 So if you take that out and put it in
6 -- we can see that we've been getting limited
7 dispersals from you guys to begin with, so we
8 lose exclusive control of having access to that,
9 the chance of us getting that at all is probably
10 none, the way it looks to me right now.

11 The other thing to do is, like Scott
12 said, the biggest problem we have, and the reason
13 why you're telling us you're not going to give us
14 anymore dispersals is because there is so much
15 quota in the PLL. But you've never put a
16 mechanism in for us to really get that quota.

17 We need to have the active vessels --
18 and I'm not talking about a guy that made one set
19 to be declared active -- we need to have the
20 active vessels on a set basis. I'll use myself

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1 as an example: I make between 125 and 150 sets
2 a year. For me, to be classified as an active
3 vessel, make the same amount of bluefin IBQ as a
4 vessel that's considered active that gets maybe
5 25 sets a year, to get the same allocation and
6 the same dispersal rate, when I'm making all of
7 those sets.

8 The problem with the PLL is that 25
9 percent of those vessels go out, and those are
10 the captains who go out and look for the fish,
11 find the fish, and the rest of the fleet follows
12 them. So when you're making 150 sets a year, you
13 give the General category X amount of fish per
14 day. Well, we need to have X amount of fish for
15 every set, you know, a ratio of some sort of
16 bluefin quota to make X amount of sets.

17 For me to actually go out and look for
18 fish, look for my targeted species, and take the
19 chance of encountering bluefin interactions, I'm
20 at great risk. I have to be very, very careful

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1 of what I do. I'm limiting myself of even going
2 to areas. I've basically got to use, when I do
3 stumble across them, even in minor areas, I
4 barely have enough IBQ to cover myself.

5 And as you see in this data, to lease
6 the IBQ is not profitable, you're losing money
7 most of the time. So I'm on a very marginal
8 fishery right now, not only because of this.
9 You've got bait costs that have been through the
10 roof; that's probably our largest expense on any
11 of these vessels right now is bait. We're paying
12 as much for bait as we're getting for some of our
13 landed fish.

14 So my suggestion is that we have to
15 reclassify the IBQ as active, but they're really
16 not active. And if you want to consider them
17 active, you've then got to give the active
18 vessels the IBQ dispersals on a set basis, and
19 you've got to do dispersals on a set basis, and
20 that's throughout the year. Just because a boat

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1 is active and he's sitting at the dock for six
2 months, if he hasn't left the dock, he shouldn't
3 get anymore dispersal until he does leave the
4 dock and made some kind of sense.

5 That's the only way you're going to
6 solve this IBQ and not have dead IBQs sitting in
7 a category that nobody's using. I mean, I'm
8 actively fishing. I haven't got time to come to
9 the dock and go track down an IBQ on my free time.
10 I don't have free time. I'm a busy guy, as you
11 can see, I'm sitting here, I'm on a take reduction
12 team, I work with Blue Water; I've got a lot going
13 on, much less tracking down that stuff.

14 MR. BROOKS: Thanks, Marty.

15 MR. SCANLON: That's what we need to
16 focus on, is getting the IBQ into the hands of
17 active vessels on a set basis.

18 MR. BROOKS: Thank you. Tim?

19 MR. PICKETT: Maybe this is just a
20 pipedream sort of thing to look at, but I think

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1 you should probably review the whole program and
2 see if you even need it still. With the amount
3 of attrition that's in the fleet -- maybe that's
4 a harsh way of putting it, if you need it still
5 -- but look at the attrition that's in the fleet,
6 because it's certainly at a different place than
7 it was when this was all being evaluated, and the
8 overages were being looked at.

9 The fleet was a totally different
10 number and a totally different amount of effort
11 than it is right now. So that would be something
12 to consider when you're reviewing the whole
13 program, is where the fleet is and its abilities,
14 compared to its abilities when it was first
15 assessed, and all of this came down the
16 pipeline.

17 MR. BROOKS: Thanks. I think we've
18 gotten everyone for this piece of it. Did I miss
19 anybody? Oh, I'm sorry, Dewey?

20 MR. HEMILRIGHT: Something else to

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1 consider here is, a fisherman shouldn't have to
2 put down on his logbook that he discarded dead
3 fish when they're undersized, under 73 inches.
4 When he comes to the dock, he's got to go buy
5 more quota to go back fishing. I know of an
6 instance earlier in January where an individual
7 went fishing; he had nine fish that were under 73
8 inches, and it accounted for around 1,000 pounds,
9 I believe. So he threw them over, dead. He's
10 got to come to the dock, go buy 1,000 pounds at
11 \$2.50 a pound to replace the fish that he threw
12 over. That just does not make sense.

13 It might be that this three year
14 review might really need to look at whether we
15 need this program, because it is not only the
16 shaping of our industry, it is also causing it to
17 shape even farther. We're not talking swordfish
18 here today, but look at the last three years of
19 the swordfish era, and where it's at on the graph;
20 it's going down, down, down.

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1 So I hope this agency puts that into
2 aspect of the multi-fishery that the U.S. pelagic
3 longline does, bluefin being part of it, but also
4 the swordfish, because I'm still waiting to see
5 how leadership is going to take us. They
6 continue to ask us, How do we revitalize this
7 pelagic longline industry? This bluefin tuna is
8 one portion, as is the swordfish.

9 But fishermen should not have to throw
10 over dead fish and come back to the dock and go
11 buy quota to replace the dead fish they threw
12 over. Plain and simple, it shouldn't be
13 happening. Even if it was undersized when it
14 came to the dock to be sold, they have to have a
15 tag in, so even though they're small fish that
16 will be possibly entering into the marketplace,
17 they have that tag that's in their tail that's
18 tracked. So it's not like a phantom fish without
19 a tag. Thank you.

20 MR. BROOKS: Thanks, Dewey. Well,

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1 maybe with that comment we should pivot a little
2 bit here to the next topic. I believe Craig will
3 be giving this one, and Jen. So we want to shift
4 and talk about pelagic longline bluefin tuna weak
5 hook and area-based management and consider
6 possible management options, which will be laid
7 out here. Then we'll get some reactions to it
8 and put it on the table.

9 MR. COCKRELL: All right, good
10 afternoon, Jen and I are going to discuss area-
11 based and weak hook management for the pelagic
12 longline fishery as it relates to bluefin tuna.
13 This is related to a scoping document that we
14 released Thursday and sent out over the listserv
15 and posted to the website.

16 So just a quick outline of the
17 presentation here: We're going to discuss the
18 background, the purpose, and the objectives that
19 this action is looking to achieve, the management
20 options that we discuss in the scoping document,

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1 and then where we plan to have public scoping
2 meetings and next steps.

3 So to give you a little background,
4 the pelagic longline fishery obviously targets
5 swordfish, BAYS, and dolphin, and recently
6 there's been a decrease in effort in target
7 species landings. As Tom showed in his last
8 presentation, there's been a decrease in effort
9 and in total pelagic longline revenue in the past
10 couple of years.

11 In Amendment 7, we made some pretty
12 substantial changes to the pelagic longline
13 fishery, where we implemented IBQs, gear-
14 restricted areas, electronic monitoring, and VMS
15 catch reporting as it relates to bluefin tuna.

16 As Tom showed in one of his slides,
17 the IBQ Program seems to have resulted in a pretty
18 substantial drop in bluefin tuna landings and
19 dead discards. Part of Amendment 7 was that
20 shift towards individual vessels accountability.

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1 So given that individual vessel
2 accountability, this scoping paper is going to
3 look at some of the fleetwide management measures
4 for reducing bluefin tuna discards and
5 interactions. That would include the
6 Northeastern United States Pelagic Longline
7 Closed Area that was implemented in 1999, up off
8 New Jersey, and then it would also look at weak
9 hooks that were implemented for the Gulf of
10 Mexico in 2011, and the Cape Hatteras and Spring
11 Gulf of Mexico Gear Restricted Areas that were
12 implemented in Amendment 7 in 2015.

13 So here we have a quick look at where
14 these areas are spatially. As you can see, the
15 Northeast Closed Area is up off the New Jersey
16 shore. Then we have the Cape Hatteras Gear
17 Restricted Area off the Outer Banks, and then in
18 the Gulf of Mexico we have to two boxes that are
19 cross-hatched that are closed to all vessels in
20 April and May; that's the Spring Gulf of Mexico

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1 Gear Restricted Areas. Then the entire Gulf of
2 Mexico is where weak hooks are requested year-
3 round.

4 The purpose of scoping for this is to
5 obtain additional public input on the management
6 options that we're considering in the document
7 and whether or not there are additional ones that
8 we should look at, or there are ones that maybe
9 we shouldn't consider in a proposed rule. I'll
10 just restate here that the need is basically to
11 look at these fleetwide area-based and gear
12 management measures and evaluate whether they're
13 still necessary, given the A7 IBQ Program, the
14 decrease in pelagic longline fishing effort in
15 target species landings and our need to move
16 towards more of an individual vessel
17 accountability. We've also received requests to
18 remove redundant regulations as well.

19 So we're just going to run through a
20 couple of maps. One thing to note is that all

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1 of these maps have the same scale, as it relates
2 to bluefin tuna interactions. While some of them
3 include more years than others, we're really just
4 showing these for informational digestion here at
5 the meeting to show you how things have changed
6 over the past couple of years.

7 This first map is 1996 and 1997 data,
8 and that was actually the data that was used to
9 implement the Northeastern United States Closed
10 Area. As you can see, we had some pretty high
11 interactions within that box during those years
12 that were used to implement the closure.

13 Here, we're looking at -- granted,
14 this Northeastern Closed Area is closed in June,
15 but this is year-round data as well, so that's
16 why you're seeing data in the box. We just
17 wanted to show a full year, so you could get a
18 full picture.

19 What we show here is bluefin tuna
20 interactions for the two years before Amendment

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1 7 was implemented, the most recent two years
2 before it was implemented, and then 2015 and
3 2016, the two years after implementation.

4 This shows the Cape Hatteras Gear
5 Restricted Area, and this is actually the map
6 from the FEIS for Amendment 7, just to show the
7 level of interactions that were occurring in that
8 area when we implemented the Cape Hatteras Gear
9 Restricted Area. Note that this is seven years'
10 worth of data, whereas now we look at the two
11 years before Amendment 7, but the two years that
12 weren't in that analysis, and then the two years
13 after Amendment 7 in the Cape Hatteras Area.

14 Just to note, there are interactions
15 inside that area because that areas does
16 currently have performance access, and there are
17 folks who are fishing in that area during the
18 time when the gear-restricted area is effective.

19 Here again we show the interactions
20 that were occurring in the Gulf of Mexico during

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1 the implementation of Amendment 7. It's a little
2 hard to see here because we don't have quite as
3 big a contrast between the grid cells, but the
4 range was from zero to 50 bluefin tuna per grid
5 cell.

6 This again shows the two years of data
7 before Amendment 7 and the two years of data after
8 Amendment 7, and if you can see here as well, the
9 range of bluefin tuna per grid cell has decreased
10 from zero to 10, but then still given that you're
11 looking at two years of data per map.

12 And then as it relates to weak hooks,
13 we wanted to show a couple of different graphs,
14 and this is the catch per unit of effort,
15 basically the number of fish per 1,000 hooks in
16 the Gulf of Mexico, and this is for bluefin tuna.
17 It shows the change in the catch per unit of
18 effort when weak hooks were implemented in 2011,
19 and then also when Amendment 7 was implemented in
20 2015. You can see that there was a slight uptick

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1 in 2012, but a general decrease in catch per unit
2 of effort since weak hook implementation.

3 Now, given that, this is actually
4 looking at annual catch per unit of effort, same
5 scale, number of fish per 1,000 hooks, but for
6 white marlin in the Gulf of Mexico. As you can
7 see here, since weak hooks were implemented there
8 has been a general trend upwards in white marlin
9 by catch since weak hook implementation.

10 Then this graph here shows the
11 seasonality of presence of fish in the Gulf of
12 Mexico and the overlap with the orange bar being
13 bluefin tuna, where their main presence is from
14 March to June, and the high CPUE is from March to
15 June, and then white marlin being the blue line,
16 where there is a slight overlap. But some of the
17 higher CPUEs are actually when bluefin aren't as
18 prevalent in the Gulf of Mexico.

19 So Jen and I decided to split this up,
20 so she's going to take over the second half of

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1 the presentation.

2 MS. CUDNEY: All right. Craig walked
3 us through some of the preliminary maps and data
4 that are in the scoping document, and I'm going
5 to walk you through some summaries of the other
6 information that is in there.

7 The next couple of slides are going to
8 go through the objectives of a potential future
9 regulatory action that would look at this. We
10 felt that these objectives included simplifying
11 and streamlining HMS management as practicable,
12 while focusing on reducing some potential
13 redundancies in regulations that were established
14 to reduce bluefin interactions or dead discards
15 that apply to the longline fishery.

16 We also included as some objectives
17 for a potential future regulatory action, to the
18 extent that it's consistent with some of the
19 other goals and objectives that are listed, to
20 pursue management strategies that emphasize

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1 individual vessel accountability, as we have
2 discussed, and to also, while doing that,
3 continue to manage bluefin tuna by catch within
4 the longline fishery to ensure that the
5 objectives related to bluefin tuna stock
6 management, fisher management, etc., are still
7 met.

8 So that is going to include making
9 sure that we're not doing anything that's going
10 against any of our domestic or international
11 goals towards allocations and quota limits,
12 protecting spawning bluefin while they're on
13 their spawning grounds, and making sure that
14 we're still keeping in mind appropriate gear
15 restrictions for the longline fishery.

16 We are also interested, as we have
17 discussed, in optimizing the ability of the
18 longline fishery to harvest target species. So
19 specifically, we want to keep the swordfish
20 fishery and the swordfish quota in mind and be

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1 aware of the fact that we have not met our quotas
2 as we go through these exercises now and in the
3 future.

4 We would also be interested in looking
5 at accounting for mortality that is associated
6 with discarded bluefin tuna and maintaining the
7 incentives to reduce dead discards in bluefin
8 tuna interactions, keeping in mind social and
9 economic impacts on fisheries and fishing
10 communities and minimizing those where we can.

11 We want to minimize any disadvantage
12 to U.S. fishermen in relation to foreign
13 competition, and of course continuing to prevent
14 or end overfishing, keeping an eye on bycatch
15 regulations and minimizing bycatch mortality,
16 trying to strive for optimum yield consistent
17 with our fishery management plan and all the
18 other things that we have to keep in mind.

19 As you look at this scoping document,
20 you're going to see more than 30 pages of

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1 management options that relate to some of these
2 different spatial areas or as it pertains to weak
3 hooks. In general, you're going to see the
4 management option name, a description, and some
5 pros and cons for each of these. Because we have
6 so much material in here, what you'll see that
7 we've done with the rest of the presentation is,
8 we've consolidated some of the discussion,
9 because some of the pros and cons for the
10 different gear restricted areas are going to be
11 fairly similar when you're looking at similar
12 options for these.

13 So in general, you'll see that we're
14 talking collectively about the Northeastern
15 United States Closed Area, the two gear
16 restricted areas in the presentation, but they
17 are treated separately in the document. And then
18 we also have a nice section in there on the weak
19 hook measures as well.

20 So the next couple of tables are going

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1 to summarize the information that's in the rest
2 of the scoping document for the three area-based
3 management options. We tended to have five
4 different types of options that we considered,
5 and that ranged from our bookends of no action to
6 the elimination of the area. It also included,
7 where appropriate, the incorporation of
8 performance metrics that have already been
9 established for the Cape Hatteras Gear Restricted
10 Area, and modifying spatial or temporal coverages
11 of these closures or gear restricted areas, and
12 then looking at provisional application of the
13 areas.

14 So I guess you could say we ranged
15 from turning it off or turning it on when certain
16 thresholds in the fishery are met. We don't
17 necessarily define those; we think it could be
18 within a year, it could be within a season.
19 Those are things we can all think about as we
20 move forward with this discussion.

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1 So the next couple of slides are going
2 to have pros and cons listed out; they are not in
3 any specific order. The pros are going to be on
4 the left side of the screen, the cons on the
5 right. There is a parenthetical statement at the
6 end of each pro or con that indicates which area
7 that particular item pertains to. There could
8 be cases where a pro or con applies to all areas,
9 or it could apply just to the Cape Hatteras Gear
10 Restricted Area, for example, or the Northeastern
11 Closure.

12 So related to the new action options,
13 and these are just some of the things that we
14 brainstormed as a team, so we encourage you and
15 your consideration and comments to think about
16 additional pros and cons, to offer additional
17 suggestions. This is just what we thought of as
18 we were putting this document together.

19 Some of the pros for a no-action
20 option or status quo, keeping things as they are:

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1 We would continue to achieve some of the
2 reductions that we've already gained in bluefin
3 discards or interactions; it would also maximize
4 the protection of spawning bluefin tuna in the
5 Gulf of Mexico.

6 I'm not going to read every single
7 one, because you can read them yourself; I just
8 wanted to touch on a couple of the highlights.

9 For cons, a lot of the closed areas
10 that we have, we don't collect data in. So that
11 was something that we constantly thought of when
12 we were thinking about these areas. We also
13 noticed that bluefin tuna distributions may have
14 changed since the implementation of these areas;
15 these are mobile animals. Something that was
16 established 20 years ago may not necessarily
17 reflect the areas where bluefin interactions are
18 occurring now.

19 Then we also have, of course, the IBQs
20 that were established in Amendment 7 may not

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1 require certain fleetwide measures. So to go
2 with a no-action option would basically enable
3 the retention of a potentially redundant
4 regulation.

5 Okay, performance access for area-
6 based management: This is going to focus more on
7 the Northeastern U.S. Closure and the Gulf of
8 Mexico GRA, since we already have it for the Cape
9 Hatteras GRA. Most vessels would likely have
10 access as a pro, so hopefully this would not
11 negatively impact commercial fishing vessels that
12 much, if we were to implement it in other areas.

13 It could allow for limited data
14 collection in a rather controlled way in the
15 Northeastern Closure and the Gulf of Mexico GRA.
16 Cons for performance-based access: We may not
17 maintain that same level of reduction that we had
18 when we implemented the areas, if we are starting
19 to allow more vessels in there; there might still
20 be some vessels that are precluded from accessing

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1 the areas, based on performance metrics; and
2 again, you start to run into the question of, if
3 you have performance-based access, in some cases,
4 the IBQ itself may be duplicative to then
5 restricting somebody from going into an area.

6 Modifying the spatial or temporal
7 coverage for area-based management: kind of some
8 similar considerations, where, like I said, we
9 want to make sure that these areas are reflective
10 of the current fishing environment, so that would
11 be a pro.

12 If we found out, through some future
13 analysis, that we needed to change it, it could
14 reflect new locations or new timing for when
15 bluefin tuna are in these areas, and thus respond
16 to changes in their distribution or to
17 distribution in the fishery. It could minimize
18 some disruptions to the fleet, depending on those
19 changes, and it could lead to increased catch,
20 depending on those changes.

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1 The cons: Again, we come back to
2 whether or not we want to emphasize individual
3 accountability, and the fact that, if we have
4 areas that are closed, we are still not
5 collecting data in those areas.

6 Provisional application: Again, that
7 is the opening or closing of an area based on a
8 threshold that we could identify in an analysis.
9 That would open portions of these areas to the
10 fleet. We would get data, and it would probably
11 be more favorable for portions of the fleet that
12 could access these areas economically. That
13 would provide greater emphasis on individual
14 accountability, because those captains would have
15 to make those decisions based on the amount of
16 IBQ that they have, whether or not they were going
17 to fish in those areas and how they were going to
18 fish.

19 Cons for provisional application: You
20 have some uncertainty; you're not really sure

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1 when some areas are going to open or close,
2 because we would have to intensely monitor catch
3 levels from those areas. So most likely, if we
4 had a sensitive trigger or a smaller amount of
5 bycatch that was allowed in that area, we could
6 close it.

7 Then you also have the situation where
8 the actions of certain individuals within the
9 fleet could affect other individuals in the
10 fleet.

11 Elimination of these areas: As a pro,
12 that is going to emphasize individual
13 accountability. It could increase the target
14 catch and would be less of a monitoring burden.
15 Cons include difficulty to predict your impacts
16 to target catch and bycatch levels and may not
17 maintain the same level of protection for bluefin
18 when implemented, especially for small bluefin.

19 So getting into the weak hook
20 management options: We had three that we

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1 considered in this scoping document, and of
2 course, there could always be more. That's why
3 we're looking to you for general suggestions.

4 These options include a no-action
5 option, the elimination of the weak hook
6 requirement as bookends, and then in the middle
7 we have seasonal application of weak hooks, where
8 we would only require weak hooks within certain
9 months of the year. Typically, this would be the
10 time periods when bluefin had the greatest
11 abundance in the Gulf of Mexico.

12 Then getting into the pros and cons:
13 As a pro for the no-action alternative, it would,
14 of course, maintain, along with some of the other
15 measures, reductions in bluefin tuna discards by
16 releasing the fish before they are even brought
17 back to the vessel.

18 The pros for the seasonal application
19 of weak hooks would be continued protection of
20 spawning bluefin during peak seasonal abundance,

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1 and also the fact that other hook types might
2 increase target catch levels or decrease bycatch
3 of white marlin.

4 Then for the elimination of weak
5 hooks, a pro could be the levels of interactions
6 are low, so we may not need weak hooks to maintain
7 low levels of bycatch.

8 Cons for no action: Basically, we may
9 not need to address concerns about duplicative
10 regulations; we may decrease a large target catch
11 by hook-straightening; and we may increase white
12 marlin bycatch. You remember the graph that
13 Craig showed; there was a trend of increasing
14 white marlin bycatch after implementation of weak
15 hooks.

16 Cons for seasonal application of weak
17 hooks: This may not address constituent concerns
18 about duplicity in the regulations, and if we had
19 two different types of hooks that are being used
20 throughout a year, it could increase the cost of

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1 implementation for fishermen.

2 Finally, cons of eliminating the weak
3 hook requirement: It may increase the retention
4 of legal-sized bluefin tuna during spawning
5 season, it could put the spawners at more risk,
6 and it could lead to more rapid use of IBQ.

7 All right, on to next steps: As Craig
8 said, we rolled this out last Thursday, so we do
9 have an FR notice that is out for public comment.
10 The docket is available at the link at the top of
11 the slide. Our comments are due by May 1st, and
12 we do have, at the bottom of the slide, a website
13 where you can go to get more information on this
14 scoping document.

15 This table shows some of the upcoming
16 meetings and webinars, and I just want to make a
17 note that the Manahawkin, New Jersey, meeting has
18 been rescheduled, based on a request from some
19 constituents in that area. So we are putting
20 notice out about that meeting in a Federal

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1 Register notice that should be coming out soon.

2 Thank you.

3 MR. BROOKS: All right, thanks to both
4 of you. So, I think, a couple of different forms
5 of feedback, and obviously, any questions you
6 have about options in the presentation, we want
7 to hear that. But also, feedback on any of the
8 options, so you've got two things on the table.
9 One set of options dealing with area-based
10 management, and one dealing with weak hooks.

11 So with that, I've got already in the
12 queue David, Scott, John, and Jason. I'm going
13 to pick up the cards going this way.

14 MR. KERSTETTER: Thank you. A couple
15 of quick things: First, when you started out --
16 and this applies to Tom's presentation as well --
17 - when you talk about total revenue, I'm assuming
18 you mean gross revenue, correct?

19 MR. COCKRELL: Right.

20 MR. KERSTETTER: I just want it to be

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1 said very clearly that, given the increased cost
2 to the fleet -- and not just to this fleet, but
3 all fleets -- I think that, again, as we're
4 discussing management options for the fleet, we
5 need to keep that in perspective, just given the
6 economic viability question.

7 Larger question about your areas: I
8 know you were focusing on the tuna-specific
9 areas; however, I think it would also be very
10 helpful if you showed the rest of the areas
11 operated by the fleet, because of the effort-
12 redistribution effects.

13 And so, as has been said by others
14 around the table, if you're forcing these vessels
15 to fish in other areas, you could be forcing them
16 to fish on other concentrations, whether it's
17 bycatch species or something else that they're
18 trying to avoid.

19 Finally, and I've asked Charlie about
20 this before: Why the white marlin increase? I

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1 see Randy smiling, because I conducted research
2 with one of my graduate students in 2008, both of
3 the Carolinas and the Mid-Atlantic, where there
4 is no shortage of white marlin, and we didn't see
5 any pattern even remotely approaching that one.
6 Thank you.

7 MR. BLANKINSHIP: Yes, this was a very
8 interesting thing that was noticed in the
9 original weak hook research conducted by NOAA,
10 and that showed an increase in white marlin CPUE.
11 However, the difference was not statistically
12 significant. As time has gone on, however, the
13 trend has still shown up. So the question why
14 has been the question all along. It doesn't
15 really -- okay, John Graves has the answer, it
16 appears.

17 (Laughter.)

18 DR. GRAVES: Well, you're assuming
19 that your population has stayed level, but every
20 indication is that the white marlin population

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1 has increased. We've had a significant decrease
2 in fishing mortality as the recreational industry
3 has shifted from J hooks to circle hooks, and
4 that reduction in post-release mortality
5 represents about 80 metric tons of white marlin
6 a year.

7 So we're seeing that benefit, not only
8 in those tournaments that are directed towards
9 white marlin, but you should also compare the
10 observer estimates from the Atlantic, which also
11 show a big increase in the interactions with
12 white marlin. This would suggest that your
13 increase is due to a population increase, and
14 maybe not a gear effect.

15 MR. BROOKS: Thanks, John. Randy?

16 MR. BLANKINSHIP: A very good point,
17 and I think that all needs to have some further
18 investigation with other species as well, because
19 there might be other effects with other species,
20 even billfish species, that we're not seeing the

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1 same trend with the circle hook effect.

2 There's just not necessarily
3 consistency across all of those species, given
4 the population grid.

5 DR. GRAVES: We're not seeing that
6 same trend necessarily in the abundance of the
7 other billfish species. We're seeing it
8 particularly within white marlin, and I haven't
9 looked at sailfish, so I don't know.

10 MR. BROOKS: Dave, do you want to
11 weigh in at all on any of the options?

12 MR. KERSTETTER: Not at this time.

13 MR. BROOKS: Okay, that's fine.
14 Scott?

15 MR. TAYLOR: So there's a line from
16 the movie, Days of Thunder, that tires win races.
17 Well, in our business, hooks catch fish. I find
18 it interesting that you make the statement that
19 we try not to regulate -- and I believe that you
20 all believe that -- not to disenfranchise the

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1 U.S. fisherman.

2 The practical application of this,
3 from the guys that are there actually
4 swordfishing in the Gulf, is that this does
5 substantially disenfranchise them. I find it
6 interesting that this CPUE that you put up -- and
7 maybe it's there, and I missed it, so I'll give
8 you the benefit of the doubt -- doesn't include
9 CPUE for swordfish. We're only identifying the
10 impact for bluefin tuna in the graphics, unless
11 I missed part of the presentation.

12 MR. COCKRELL: Yes, right now we're
13 looking at bluefin tuna, but as we move forward
14 with a more robust analysis, yes, we would
15 consider swordfish and all other catch.

16 MR. TAYLOR: So I can only tell you
17 what happens in the real world. There's a
18 frustrating disconnect. From the best of my
19 knowledge, there are only three or four boats
20 that are really actively swordfishing down there

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1 during a limited period of time. I've got three
2 boats down in there right now, mandatory observer
3 on the boat, individual accountability, and
4 they'll come back with a bucketful of
5 straightened-out hooks.

6 Big swordfish straighten these hooks
7 out. Now, bluefin tuna will straighten hooks
8 out, if there were bluefin tuna there to catch
9 right now. But where they're fishing for these
10 swordfish, there's not bluefin tunas. And if
11 there were bluefin tunas there, you'd put an
12 individual accountability in place to be able to
13 deal with that. If they catch them, there was
14 Gulf quota to put in place for that.

15 It's time that we start to recognize
16 that the actions that we put into place to protect
17 every single species that comes and gets thrown
18 at the agency is destroying the pelagic swordfish
19 longline fleet, and that these accountability
20 measures that you put into place -- Lord knows,

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1 I don't know what else that you can come up with
2 -- electronic monitors, observers on the boats -
3 - all of the things that you require us to do,
4 have all led to our diminished ability to be
5 economically viable and to execute the fishery.

6 You need to get rid of these things.
7 There's been no substantial evidence that I've
8 seen that it's benefitting you in the way that it
9 is. I'm going to end with this: I was recently
10 down there in the Gulf of Mexico for an
11 alternative gear workshop that was put on by the
12 Audubon Society. I think the agency had some
13 people there at that particular meeting, and the
14 Vietnamese contingency was there. They like the
15 weak hooks; they think that they work very
16 effectively for them in the yellowfin industry.

17 I wouldn't prohibit their use, but I
18 wouldn't mandate their use. It's just time that
19 we move on and try to allow this fleet to do what
20 it needs to do before it really, sincerely, is

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1 too late.

2 MR. BROOKS: So, Scott, I just want
3 to make sure I'm hearing clearly what you're
4 saying. As far as the options on the table for
5 weak hooks, it sounds like you're saying, Option
6 3, elimination of the weak hooks requirement?

7 MR. TAYLOR: Yes, I would say that is
8 the --

9 MR. BROOKS: I knew you were going
10 there, but --

11 MR. TAYLOR: Yes, that's the clear
12 message.

13 MR. BROOKS: Did you want to weigh in
14 on the area-based management at all,
15 specifically?

16 MR. TAYLOR: The area-based
17 management really goes back to the same
18 discussion that we had yesterday: Until we can
19 resolve some of these issues and how we're going
20 to allow for flexibility for the fleet, it's a

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1 moot discussion. Right now, it's an agency
2 decision and a political decision; there's
3 something on the table here for you that would be
4 a first step in that direction.

5 If what you mean by area-based
6 management is that if there's bluefin interaction
7 within the areas that are open, if you eliminated
8 the weak hooks, then I would say to you that it's
9 completely unnecessary, because you have another
10 mechanism for that; that's the IBQ.

11 There's only so much Gulf IBQ that's
12 there --

13 MR. BROOKS: I was thinking of areas
14 outside of the Gulf, other areas that we talked
15 about.

16 MR. TAYLOR: I guess I'm really
17 misunderstanding. You mean, in terms of the weak
18 hook?

19 MR. BROOKS: There were six or seven
20 different options being put out by the agency --

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1 MR. TAYLOR: It goes back to the same
2 discussion I had yesterday which is, you have
3 individual accountability measures that are put
4 into place, so the area-based management that's
5 there is, from our perspective, always has been.
6 It's like dealing with the situation with the
7 baseball bat versus dealing with it with a
8 scalpel.

9 It's always been my belief that you
10 hold people individually accountable. There are
11 going to be bad players, there will be good
12 players that are there. You have enough measures
13 that are in place to identify whether or not
14 there's a problem. And if you really want to -
15 - it depends on what you want to solve. If we're
16 solving the swordfish problem, we need to be able
17 to fish in a way to target the swordfish.

18 MR. BROOKS: Shana?

19 MS. MILLER: Thank you. I will try
20 to be concise here. I may not be brief, but I

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1 will try to be concise. First of all, reading
2 this when it came out last week, I was a little
3 surprised, and it was very reminiscent of that
4 dot exercise that we did last year -- whenever it
5 was -- that I felt that, at least the way I read
6 it, the issues and options presented were all in
7 the direction of releasing regulations rather
8 than seeing if new ones were needed.

9 So I'll just start with that. And
10 then, looking at the Northeast Closure Area
11 first, it's a 19-year-old closure that was
12 designed specifically for bluefin. You
13 mentioned in the scoping document that there are
14 high interactions of bluefin to the east of that
15 area, and I think some of the fishermen have been
16 talking about that for years, with their sense
17 that that closed area needed to potentially be
18 extended to the east, rather than reduced.

19 We spent hours yesterday talking about
20 research in closed areas, and I'm surprised to

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1 see an option to re-open this closed area without
2 some movement to do some research in the area.

3 I agree it's been 19 years; it
4 warrants looking into, but it seems premature to
5 consider opening it or reducing the size or
6 temporal coverage of it at this point.

7 On the weak hooks, I think the data
8 that you showed indicates that they have been
9 effective, certainly more effective than I
10 thought they would be. I was definitely a
11 naysayer in the beginning, as far as how long it
12 took the fish to straighten the hooks, and
13 whether they would die, post-release, from those
14 hooks. I think the hook timer research you did
15 put that concern to bed, and the data you showed
16 has been effective.

17 But as you say, bluefin aren't in the
18 Gulf in big numbers for the entire year, so if
19 you consider a seasonal mandate of the weak
20 hooks, I would suggest looking at January through

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1 June versus March through June, as you include in
2 the issues and options paper. Certainly, white
3 marlin wouldn't be a concern in those earlier
4 months.

5 But the biggest concern in reading
6 this paper, by far, is the suggestion to curtail
7 or eliminate the gear restricted areas in the
8 Gulf of Mexico. We're three years into those
9 closed areas; it took more than six years to
10 develop that, and who knows how many hours of
11 NMFS staff time and analyses. The data are
12 really compelling that it's been successful. The
13 issues and options paper says, 82 percent
14 reduction in bluefin mortality during April and
15 May, those two months.

16 Scott asked about the swordfish and
17 yellowfin numbers; he's right, they weren't in
18 your presentation, but, of course, you have them
19 in the document itself. And we're talking in
20 those two months, 360 swordfish and 316

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1 yellowfin; that's it, that the fleet is missing.
2 So getting an 82 percent reduction in bluefin
3 catch for a few hundred swordfish, a few hundred
4 yellowfin out of thousands of swordfish and
5 yellowfin. So I don't see that as much of a
6 sacrifice, given the benefit.

7 You showed that slide No. 13, that
8 shows the mortality in the Gulf, pre- and post-
9 A7, and I think this actually shows how well you
10 did in picking the areas, because even with those
11 areas being closed in April and May, they're
12 still showing that those are hotspot areas for
13 bluefin.

14 We had a presentation at the ICCAT
15 advisory committee for later this week about the
16 post-release mortality from the longline fleet,
17 and I said this yesterday, so I won't get into
18 it. But just to reiterate, almost 50 percent of
19 fish caught on those longlines were dead at
20 haulback. So the best way -- and they had this

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1 in their presentation -- the best way to reduce
2 or eliminate mortality is to avoid interactions,
3 period, and these gear restriction areas are the
4 way to do that.

5 Jen, you had mentioned that one of the
6 reasons to get rid of the weak hook requirement
7 is because of the low level of interactions with
8 bluefin post-A7, and again, I would say it's
9 because of this.

10 So if you propose to roll both of
11 those back, that could be severely problematic.
12 Just to reiterate my point from this morning,
13 yes, the quota has gone up, but who knows how
14 many years that increased quota will remain?

15 And just lastly, we're three years in;
16 there's this three year IBQ review program this
17 year, which will likely look at more components
18 of the Amendment 7. In light of all that, it
19 just seems that this issue in the options paper
20 was a bit premature. Thanks.

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1 MR. BROOKS: Thanks, Shana. Katie,
2 your card was up before. Are you good? Okay.
3 Marty?

4 MR. SCANLON: Well, I've always been
5 in favor of giving the Atlantic folks access to
6 the Gulf of Mexico, where in A7, we were
7 identified where and basically when we can work
8 in the Gulf where there are any bluefins. That's
9 number one.

10 As far as performance metrics we're
11 talking about, let's just say on the weak hooks,
12 the hooks that we're going to be using in the
13 PLL, most of the take reduction team, once that
14 rule comes into effect, it's again going to
15 weaken, overall, the hooks being used by the
16 industry.

17 So now, we constantly keep finding
18 ways to reduce bycatch and this, that, and the
19 other thing, but with that implementation, we're
20 going to again be fishing with weaker hooks, and

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1 we're going to have more of a loss of swordfish.
2 How can we offset that?

3 One of the ways we could offset that
4 is to eliminate these weak hooks which, in many
5 cases, are too weak. We look at these slides
6 here on what weak hooks have done to reduce in
7 bluefin, and it actually increased them all. It
8 shows an increase in them all. But they don't
9 show what the effect it has on swordfish. So
10 that's an issue here.

11 Performance metric: You're talking
12 about area-based management with performance
13 metric. Well, what is that going to mean? I
14 mean, the biggest problem with the performance
15 metric is, we are judged where the main criteria
16 is based on three different categories. One of
17 them is a ratio of overall landings to landings
18 of bluefin. Well, how does that apply if you're
19 applying performance metrics to other areas on
20 for other management-based issues?

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1 So I think that particular portion of
2 the performance metric needs to be eliminated, as
3 far as whether or not it should be based on --
4 anything you do there, like is said, set effort,
5 is what it needs to be done on, if you're going
6 to do performance metrics, as far as that goes.

7 As far as the Northeast Area, up in
8 there, every time we talk about getting anything
9 given back to us, that area is specifically
10 closed to keep us from catching bluefin tuna
11 fish. We have an IBQ system, so that in itself
12 monitors and regulates how many bluefin we can
13 take in that area.

14 We always find a way that we can take
15 areas away from us, but we can never find a way
16 to get us back in there once it's taken away.
17 And when you start talking about area-based
18 management, all I see here is more and more closed
19 areas with no mechanism to revisit them and re-
20 open them.

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1 It's a train that just keeps going
2 down the tracks and just picking up passengers as
3 it goes along here. You know, just keep taking
4 more and more bottom, okay. What else do we want
5 to take away from these guys? We'll find a
6 reason to take it away, but we can't find a darn
7 reason to put them back in there once the problem
8 is corrected.

9 MR. COCKRELL: Yes, but just to be
10 clear, we don't have any options to include any
11 additional areas. These are all areas that
12 already implemented, and we're looking at
13 management changes for those areas that are
14 already implemented.

15 MR. SCANLON: All right. Well, like
16 I said, weak hooks, as far as I'm concerned,
17 there's no reason to have the weak hooks. We've
18 never developed a study in which we're finding
19 out what the optimum hook is to be used within
20 the pelagic longline industry to maximize a

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1 targeted species in relation to what we are
2 trying to avoid or eliminate, as far as discards
3 go.

4 It was either Hook A or Hook B or Hook
5 C. We never found out what really was the right
6 answer. This works better for this, but we never
7 found out what worked better for that, and that's
8 where we are with the weak hooks. The same thing
9 with the take reduction teams. A take reduction
10 team should have some sort of study there. But
11 now again, we're giving up a stronger hook, with
12 the elimination of those 18/0 hooks is going to
13 offset, by giving back the weak hooks and
14 allowing the weak hooks to be eliminated, you're
15 going to be getting some relief from that,
16 because you're not going to be allowed to use
17 those 19/0 hooks universally throughout the
18 fleet. Those strong 18/0 hooks are not going to
19 be in use after that take reduction team plan
20 comes into effect.

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1 So the concern that all of a sudden,
2 you're going to take those weak hooks away and
3 everything's going to go haywire, that's not
4 necessarily true.

5 MR. BROOKS: Thanks, Marty. I've got
6 David, Tim, Bob, and then over to Jason, then to
7 Scott.

8 MR. SCHALIT: Could you explain the
9 difference between an EA and an EIS, and also
10 explain under what circumstances you would go
11 directly to an EIS or alternatively, to an EA?
12 Thanks.

13 MS. CUDNEY: Some of this is going to
14 depend on the level of controversy and complexity
15 of the issues. Some of it is based on the amount
16 of public feedback that we're going to get, just
17 overall impacts.

18 MR. BLANKINSHIP: That's correct, and
19 then there's a difference in the process of
20 scoping, which is what this one is in right now,

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1 followed by a proposed rule, followed by public
2 hearings.

3 The EIS process is a much longer one;
4 EA is not as long, it doesn't require scoping
5 meetings before a proposed rule. Does that help
6 with your question?

7 MR. SCHALIT: So in this instance,
8 with these proposals, is it a foregone conclusion
9 that we will be doing one or the other, or is
10 that a decision made relative to each issue?

11 MR. BLANKINSHIP: In this case, there
12 was a notice of intent to prepare an
13 environmental impact statement for this
14 initiative. That is a starting point. It does
15 not require us to do an EIS. If, through
16 scoping, it is determined that the level of
17 controversy and potential impacts is not high
18 enough to require an EIS, then we could change
19 and do an EA instead.

20 MR. BROOKS: Thank you; Tim?

1 MR. PICKETT: Thanks for bringing all
2 of this up. It's something I have wondered about
3 here; I remember when the weak hook thing was
4 getting proposed in the Gulf. Just my general
5 perception of all of this: The area closures,
6 to me, is a belt and suspenders, with the A7 thing
7 being the belt, and it's a tight belt, and the
8 weak hook thing is a belt, suspenders, and an
9 elastic waistband.

10 The weak hook, if you go back to when
11 they first did the study on the weak hook, it was
12 also done, I believe, only in the northern Gulf
13 of Mexico, with the guys that are predominantly
14 tuna fishing. They did see a statistically
15 significant reduction in the swordfish that they
16 catch.

17 Now, they're not really a swordfishing
18 fleet either. We have guys, like Scott said,
19 that swordfish almost -- well, swordfish at
20 different times of the year in the southern Gulf

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1 of Mexico. So the hook is a terrible, terrible
2 thing, as Scott was saying there.

3 But I think it's nice that this is
4 getting reviewed again, and hopefully, at least
5 during the time period when the bluefins aren't
6 there, get rid of the weak hook. It's just
7 general redundancy, in my opinion.

8 MR. BLANKINSHIP: Real quick point
9 about the weak hook research: The difference in
10 swordfish retention was not statistically
11 significant during that research.

12 MR. BROOKS: David?

13 MR. KERSTETTER: Yes, but the work we
14 did with weak hooks off the Carolinas and mid-
15 Atlantic, swordfish CPUEs were statistically
16 lower. I'm just saying, though, as we consider
17 these for other things, there is a significant
18 reduction for swordfish in that mid-Atlantic
19 study.

20 MR. BROOKS: Okay, thanks.

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1 MR. PICKETT: My point was that they
2 weren't swordfishing during the study that was
3 done in the northern Gulf of Mexico with the weak
4 hooks. There are guys that do swordfishing in
5 the Gulf of Mexico more towards the south, and
6 fish out of the Keys, and they are swordfishing.
7 And like Scott says, they come back with a
8 bucketful of pencil hooks, especially a couple of
9 years ago when the fishing was really, really
10 good out of the Keys, it was a ridiculous thing
11 for them. For every fish they caught, they
12 caught a nice marker fish, and there were four
13 straightened hooks around it, and those guys were
14 swordfishing.

15 So, maybe review the data and review
16 the fact that it was mostly the northern Gulf of
17 Mexico fleet that is targeting tuna. They have
18 a small bycatch of swordfish that they don't --
19 not that they don't want them, but they're not
20 targeting the swordfish. So it's a lot different

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1 for the guys that do target swordfish in the Gulf.

2 MR. BROOKS: Thanks for the
3 clarification. Bob?

4 MR. BOGAN: We used to joke about
5 using rubber hooks. I have concern about the
6 sharp rise of the white marlin. At the precise
7 time that the weak hooks were starting to be
8 implemented, I know a few years ago the white
9 marlin stock was a big concern. But now we're
10 starting to see more of them caught at the same
11 time we're using these hooks, and some say that's
12 a good sign, because that means the white marlin
13 are coming back.

14 Well, I just want to go on the record
15 in saying, I think that the longline fleet would
16 get a huge relief if they started to gradually
17 get the purse seine quota. I don't think the
18 quota should be leased like that.

19 MR. BROOKS: Thank you. Scott?

20 MR. TAYLOR: I want to commend the

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1 agency, because I remember when we had the
2 meeting with Margo, and there was a discussion
3 about a couple of things that we could do that
4 was going to help the fleet, and one of them was
5 the elimination of weak hooks.

6 So it's something that we asked for.
7 So I do appreciate that at least we're examining
8 it, just a little frustrated sometimes with the
9 process of how involved everything is to get a
10 regulatory change and some immediate relief.

11 From my perspective, things are always
12 very, very simplistic, and I guess I got a little
13 sidetracked when you were asking about the other
14 areas of closure, and I want to take this
15 opportunity to just say that I believe, with all
16 of my heart, that the real future of our industry,
17 in addressing the concerns of all the segments of
18 this Panel, is the elimination, as a mechanism of
19 time area closure, that we need and have to move
20 to a real-time dynamic ability to be able to hold

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1 the fleet accountable and to allow for
2 flexibility in the choice.

3 I think that you all don't understand,
4 at least those of you who are not out there on
5 the water, how much control we really do have of
6 what we're catching. If we're going to go tuna
7 fishing, we're going to rig in a particular way.
8 What Tim was trying to talk about regarding
9 swordfishing, the boats that are swordfishing in
10 the loop current in the Gulf Stream are
11 swordfishing.

12 They're fishing heavier gear; if they
13 had their way, they'd be fishing 18/0 hooks
14 there. It's a different technique that's
15 involved. What we have relegated the fleet to
16 are these areas where we can fish, and the only
17 way we can make it financially viable for
18 ourselves is to fish a broad spectrum of tackle
19 that we can, to catch whatever is going to be
20 commercially viable.

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1 When I send a boat out there to be
2 able to make a trip, it doesn't care, as long as
3 it's a marketable fish. That's the way they have
4 to rig today. It's not by choice, it's by
5 regulation.

6 For those of you who are not fisherman
7 -- those of you who are, you understand. If
8 you're going yellowtail fishing, you're going
9 yellowtail fishing. If you're fishing for
10 bigeyes, you're going to fish for bigeyes. We
11 fish for bigeyes different in the North Atlantic
12 than we do when we fish in the FEC.

13 There are specific techniques that are
14 associated it. You put the measures in place to
15 require accountability, but then you don't give
16 us the flexibility to do the very job that you're
17 asking us to do, which is to reduce bycatch.

18 We've done this the agency's way,
19 we've tried to do this on consensus, and the end
20 result has been where we are here today, and all

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1 I'm suggesting is a really different way of
2 looking at this thing and trying to figure out a
3 way to use the technology that we're implementing
4 to be able to make real-time decisions to avoid
5 the things that we need. Thank you.

6 MR. BROOKS: Thank you, Scott.
7 Jason?

8 MR. SCHRATWIESER: Yes, thanks, just
9 two points. First of all, I agree with what John
10 said. I don't think there's any correlation with
11 weak hooks in catching more white marlin. I
12 think we're seeing the stock increase there.

13 Second, what specifically is the point
14 about the Gulf of Mexico closed area? Well,
15 there may be some looking into the Northeast
16 Closure that's been closed for a long period of
17 time. Again, we're only looking at three years.

18 We got a tremendous benefit from
19 reduction of catch of bluefin tuna there, and
20 from what we're seeing, after our discussions

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1 during the last four days, we're probably going
2 to see a reduction of that stock every time under
3 current management measures, without the
4 corresponding strong year class following that
5 up. So I agree; I think it's too premature to
6 think about eliminating that closed area.

7 MR. COCKRELL: So just real quick, I
8 wanted to respond to that, because a few folks
9 have said it. In Amendment 7, we did commit to
10 a review, after three years, of the Gulf of Mexico
11 Area. So part of that is incorporating that
12 commitment to review this area.

13 MR. BROOKS: Good point. Marty?

14 MR. SCANLON: I think one thing that
15 we should remember here is that in a pelagic take
16 reduction team, the two primary tools that are
17 given to the fleet to avoid unwanted interactions
18 are, first, communication protocol, and second,
19 the ability to move to avoid unwanted
20 interactions, and that's what we're missing in

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1 the fleet, those two things.

2 I got laughed out of the room when I
3 introduced the communication protocol back in
4 2006. They said that the fleet would not
5 institute that at all, and that is the number one
6 thing in any take reduction team's plan,
7 communication protocol, and our ability to avoid
8 interactions, to be able to move.

9 And the more restricted areas you give
10 us, the less ability we have to avoid the things
11 that you want us to avoid.

12 MR. BROOKS: Thanks, Marty. So I
13 don't see any more cards, and we're coming up on
14 a break, so I think the timing here is good for
15 a pause. I would just say that I'm hearing two
16 broad strains: one, you put IBQs in place, you
17 have these accountability measures; let them work
18 and use them as a way to remove redundancies.
19 Let the fishery use that accountability and give
20 it more flexibility.

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1 Another set of comments were, well,
2 stay the course for now; it seems premature, too
3 soon. I definitely heard, however, a number of
4 people talk about the potential to loosen up on
5 the weak hook, particularly on the seasonal
6 restrictions. A handful of other comments as
7 well, but that's a quick scan from my notes.

8 Anyone, final word?

9 At the end of the day, Glenn, does
10 that work? I didn't see it listed as a public
11 scoping meeting. My apologies, I don't think I
12 knew this was a public scoping meeting. It's
13 not? Okay. Anyway, Glenn, I think the is going
14 to be public comment, 5:30; 5:15, actually.

15 Okay, let's go to break and be back
16 here at quarter to four. Thanks.

17 (Whereupon, the above-entitled matter
18 went off the record at 3:27 p.m. and resumed at
19 3:45 p.m.)

20 MR. BROOKS: All right, if we can now

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1 get everyone back to table, we're going to get
2 going again here.

3 All right, so let's get going again.
4 Glenn, are you in the room?

5 So, not surprisingly, Glenn was
6 correct; he gets paid to be correct and indeed,
7 this was published as a scoping session so we do
8 want to be respectful of that.

9 We also want to be mindful of our
10 agenda but we wanted to give Glenn and, I guess,
11 is there anyone else who came here to comment on
12 this issue, this part of the scoping session?
13 Area based and weak hook?

14 Okay, well, we can take more comment
15 later. So, reaching, let's bring conversations
16 to a close.

17 Glenn, we'll give you a couple minutes
18 here just to comment and then we'll move back to
19 the agenda.

20 MR. DELANEY: I'm really sorry to do

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1 this and put everybody through it. I hear the
2 groans, George over there groaning that he's
3 going to have to listen to me again but I do
4 appreciate the accommodation.

5 I did stay for this just for that
6 purpose. I just wanted to say and this is,
7 again, just with respect to the closed-area
8 management review and weak hook reviews.

9 In my opinion, the northeast closed
10 area, probably the Hatteras GRA and the Gulf weak
11 hook are all redundant to the IBQ system.

12 Our obligation to ICCAT is to respect
13 our U.S. allocation of the total allowable and
14 sustainable mortality of this stock.

15 The output controls such as the IBQ
16 are, in my view, the most effective, precise and
17 efficient means to meet that obligation.

18 Quotas are finite and provide a huge
19 incentive for avoidance of bluefin tuna.

20 The input controls that we have

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1 layered on prior to the IBQ, such as area
2 management and weak hooks, have been superseded
3 and are now obsolete.

4 And they now really only serve to
5 decrease the efficiency of the fishery, its
6 economic viability, and undermines the Agency's
7 stated goal to achieve a greater utilization of
8 our ICCAT swordfish quota, which I would note if
9 we do not utilize will eventually,
10 notwithstanding our great negotiators at ICCAT,
11 be re-allocated to other nations that don't
12 achieve anywhere near the level of the high-catch
13 or target species conservation in the U.S.

14 So, our failure to utilize that
15 swordfish allocation and its reallocation to
16 another nation is a net conservation loss and
17 something we should avoid.

18 So, again, let's move to output
19 controls, IBQ systems in place. Let's get rid
20 of all the archaic, redundant input controls and

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1 allow this fishery to breathe.

2 Thank you.

3 MR. BROOKS: Thanks very much, Glenn.

4 And just to be clear, given that this
5 was published, it's possible that some people, as
6 Glen thought, thought the scoping session was
7 today.

8 And right now, it's possible that some
9 people thought there's a scoping session during
10 public comment later.

11 So, we'll also take public comment on
12 this topic at that time as well if anyone is here
13 or comes in. And it sounds like, Shana, you were
14 saying somebody might be coming.

15 Okay, so with that, let's dive into
16 our last set of issues.

17 We've got five rec issues that we want
18 to cover here, the first one is on HMS MRIP
19 implementation priorities and then LPS redesign
20 next steps.

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1 And Yong-Woo Lee, from the Office of
2 Science and Technology is here and we'll hand it
3 off to you.

4 MR. LEE: Thank you, it's great to be
5 here. I'm with Fisheries Statistics Division with
6 the LPS, which is under the Office of Science and
7 Technology, Fisheries.

8 I am the so-called the LPS
9 statistician, I am responsible for producing LPS
10 estimates based on the survey data.

11 Today, basically in this
12 presentation, I'm going to give you a very
13 general overview of what's involved in this LPS
14 redesign. We are at the very early stage of
15 scoping things out.

16 So, what is the motivation for
17 redesign? Last December, December of 2017, there
18 was an Atlantic HMS MRIP Implementation Plan.

19 The document was published and
20 released and in the plan, there are about ten

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1 priorities identified. And this LPS redesign was
2 ranked as the number-one priority.

3 And you may ask why was it number one
4 in the ranking?

5 Because there was an NRC review on the
6 LPS, not only LPS, including general service and
7 the NRC identified several issues and made some
8 recommendations.

9 And the issues they identified include
10 departures from probability-based sampling and
11 the mismatches between survey design and
12 estimation, and then also, potential for bias
13 from untested assumptions.

14 So, in order to solidify, we need to
15 address these issues and propose a new design.
16 So, here is a general outline of a redesign
17 schedule.

18 We are basically categorizing it into
19 four different phases from design development,
20 and then build the testing and calibration

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1 process, and then a full implementation of the
2 new design.

3 And we are expecting that it will take
4 seven years, starting from 2018. So, the final
5 year of implementation will be expected to be in
6 2024.

7 And in the next three slides, maybe
8 four slides, I'm going to give you a little bit
9 more specifics about each phase.

10 So, Phase 1, first we need to develop
11 and build a project team.

12 It's going to be a team effort and
13 it's going to be a combination of staff from our
14 own Office of Science and Technology, and also
15 staff from our HMS division and also some
16 assessors from our science centers, plus some
17 external statistical experts as consultants.

18 So, during the Phase 1 we need to make
19 some baseline assessment of current design and
20 this involved data analysis and possibly some

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1 computer simulations.

2 And based on the baseline assessment,
3 we will identify the deficiencies of the current
4 design and any of the gaps in the current data.

5 And based on the baseline assessment,
6 then we will try to find the solutions to rectify
7 the issues, and develop and propose a new design.

8 So that's the Phase 1 and we are
9 expecting that it will take three years from now.

10 And in Phase 2, this design is just
11 design, it's like a sketch of a house. So we
12 need to do some field testing of the new design
13 before full implementation.

14 And we are going to conduct a small-
15 scale field test in the first step of the phase,
16 which will be applied to only one state.

17 We have not selected a state that will
18 be used for the small-scale field test.

19 And based on the small-scale field
20 test, any issues will be identified and then

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1 solutions will be found and developed.

2 Then, once those small wrinkles,
3 hopefully small wrinkles, are ironed out, we will
4 apply this new design to all LPS's space, from
5 Maine to Virginia.

6 And one thing to note for this field
7 test is that it is very important to have this
8 side-by-side sampling with the current design and
9 new design so that we can see whether there is
10 any systematic differences in the estimates
11 between the new design and the older design.

12 And also this data from the side-by-
13 side sampling will provide us some basis of doing
14 a calibration.

15 So, this basically will provide some
16 benchmarking data for the development and
17 calibration.

18 So in Phase 3, once we finalize and
19 develop the new design, we will do the review of
20 the MRIP for the certification.

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1 And during the Phase 3, we will also
2 try to develop the calibration methods of the
3 historical estimates based on the benchmarking
4 data from Phase 2.

5 And Phase 4 is just the success of
6 full certification. Once we receive an MRIP
7 design, then we will fully implement this new
8 design.

9 And at the same time, we will try to
10 complete the calibration of updating historical
11 LPS estimates.

12 This table nicely captures the overall
13 timeline of the different phases over the years
14 and we are expecting that it will take seven years
15 from 2018 to 2024.

16 The highlighted cells indicate the
17 number of years that we are planning for each
18 phase.

19 And one thing to note is that there
20 are some overlaps between the phases because some

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1 of the tasks in this phases will occur
2 simultaneously to save time.

3 So, if you just count years for each
4 phase, it's going to be ten years, however,
5 because of the overlap between the phases, it
6 will take us to complete the process in seven
7 years.

8 And for any plans, there are some
9 unforeseen, unfortunate happenings that could
10 delay the process and the completion of the
11 project.

12 And hopefully, that would not be a
13 case for the LPS redesign but at least we have to
14 recognize the limiting factors that could lead to
15 a delay of the process.

16 So the number-one factor of course is
17 budget. These field tests, generally, they are
18 very expensive to conduct.

19 So to have this field test done in a
20 scheduled time, we hope that the budget will be

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1 available in time and there are other factors,
2 limiting factors, that could delay the process.

3 Some of them would include based on
4 the highlighted studies and field tests, what if
5 we have some signs of need for the additional
6 design work?

7 And also, the field test may suggest
8 that we need to conduct more highlighted studies
9 in the field that could certainly delay the
10 process.

11 Also, MRIP process is not done by just
12 one person, it's a team effort as well so it could
13 delay the process.

14 And also, in the Implementation Plan,
15 one of the priorities identified in the plan is
16 that there's a desire to extend LPS surveys
17 outside of LPS's states, including the Caribbean
18 and also Gulf States.

19 So if the desire is high enough, then
20 we may have to extended the LPS design. And the

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1 design that would work for the current LPS states
2 may not -- for other non-LPS states.

3 So we need to look into their data and
4 their fishing situations to accommodate the needs
5 of new LPS designs. So, all of these factors may
6 prolong and extend the design process.

7 But again, we are targeting for 2024
8 to complete the whole design process, the whole
9 redesign process, and then fully implement the
10 new design for the LPS estimation.

11 That's all I have for today.

12 MR. BROOKS: Perfect, thank you, any
13 questions?

14 MR. HEMILRIGHT: Yes, on the third
15 slide, major reasons for redesign, am I reading
16 this right that in 2006, NRC gave a review of
17 criticism of this back in 2006?

18 MR. LEE: That's correct.

19 MR. HUTT: That was the general MRIP
20 assessment that has led to all the redesigns

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1 associated with MRIP since then.

2 MR. HEMILRIGHT: So, 12 years later,
3 we're starting to fix that and we're hoping 18
4 years later from the criticism, we're going to
5 have it done.

6 Is that the general thought?

7 MR. LEE: I am happy that you are
8 asking this question because I was expecting that
9 this question would come up because of this time
10 gap between the NRC review and where we are now.

11 Yes, it has been a long time but
12 during that period, what I learned, I joined this
13 Office of Science and Technology about a year
14 ago.

15 And what I learned is that they
16 conducted some assessments, baseline assessment.
17 So, they didn't put this on hold during that
18 period.

19 So, there were some studies but some
20 studies need to be updated. Plus, those studies

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1 suggested LPS estimates are not too far off.

2 However, the main reason that this redesign
3 process is number one priority is that first, we
4 need to pass, we need to have this LPS design to
5 be certified by MRIP so that the funding, Federal
6 funding, will be available to continue this LPS
7 survey.

8 And to be certified by MRIP, we need
9 to address those issues more solidly. The bottom
10 line of all the statistical estimates is that we
11 want to make sure the estimates are unbiased with
12 a better procedure.

13 So, this process is going to home in
14 on those factors. Now, why will it take so long?

15 Because we don't want to make the same
16 mistake. And plus, it needs field test and those
17 are expensive and those take a long time.

18 But again, my message is that some of
19 the preliminary analysis or previous analysis
20 suggests to us that we are too far off, not for

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1 all species, but for major LPS species.

2 So that's good news.

3 MR. BROOKS: Dewey, something else?

4 MR. HEMILRIGHT: I just feel like it's
5 almost going in the wrong direction.

6 Surveys, rare event species, all the
7 other things in it, it should be more based on
8 angler accountability of things. And that was
9 just a comment.

10 Second, what's the budget for this,
11 given the budget availability and time factors
12 for potential delays?

13 Just a broad 10-day and \$1 million, or
14 what the budget is to do this survey?

15 MR. LEE: I'm not the right person to
16 answer that question, however, because I just
17 count the fish and make sense out of it, not
18 counting the dollars.

19 However, in each year, the cost for
20 LPS survey is somewhere around the \$750,000.

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1 So, in order to conduct the full pilot
2 study, we are expecting somewhere around \$700,000
3 needs to be available.

4 MR. BROOKS: All right, I'm going to
5 move it up to Shana.

6 MS. MILLER: Thanks, and thanks for
7 your presentation.

8 It's good to see that there's a plan
9 in place now, and sorry if you said this, but for
10 the historical recalibration, does it go back all
11 the way to the beginning of the LPS?

12 How far back does it go?

13 MR. LEE: So this is what I've heard.
14 There's some opposition of going back and
15 updating the old estimates, and the old estimates
16 are available from the early 2000.

17 And there are little ad hoc changes in
18 the surveys so during this categorization stage,
19 we will explore how practical is it to go back,
20 how far to go back to update the estimates.

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1 But it's one of the activities and
2 efforts that we will pursue.

3 MR. BROOKS: Thanks. Rick?

4 MR. BELLAVANCE: Thank you, thanks
5 for your presentation. I thought it took a long
6 time to rebuild dusgies.

7 (Laughter.)

8 I have two questions, if I can. The
9 first one revolves around the APAIS survey that
10 they used to collect data for all the different
11 non-pelagic species.

12 Was there any thought given into
13 adding a component to that survey, as opposed to
14 going through a whole revamp of this LPS survey?

15 Now that the states have taken over
16 that APAIS survey, is there any consideration
17 that they may be equally suited to just add on to
18 that survey?

19 That's my question.

20 MR. LEE: To simplify and give you

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1 general message about the LPS redesign, I didn't
2 include one of the options for redesign, which is
3 called APAIS add-on.

4 So, yes, it's one of the ideas that
5 needs to be pursued during the first days of the
6 redevelopment phase of the redesign.

7 Thank you for the question.

8 MR. BELLAVANCE: Okay, this may be the
9 same answer then.

10 So equally painfully slow is
11 transitioning to electronic reporting for the
12 charter/headboat sector along the East Coast.

13 And I was curious, as we do move
14 towards that direction, has there been any
15 consideration given towards a census reporting
16 system as opposed to a survey to collect data
17 from for-hire sector of the recreational
18 component?

19 MR. LEE: I don't have a clear answer
20 but it is one of the priorities spelled out in

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1 the Implementation Plan.

2 MR. HUTT: We are actively in the
3 division participating in the SEFHIER process
4 that's going on in the Southeast.

5 And Brad has kind of discussed this
6 week that we've also been involved with the eVTR
7 efforts and trying to integrate that with our
8 reporting. So, we're actively looking into it.

9 We know at least in the Southeast,
10 based on some of our estimates, that the overlap
11 in permit holders is about 50 percent of our HMS
12 permit-holders.

13 For-hire permit-holders have the
14 Federal permits they're going to require in that
15 reporting, and they will have to report
16 everything including their HMS.

17 So we would definitely be looking at
18 ways to integrate that into this process.

19 MR. BELLAVANCE: Just a quick follow
20 up to that, I'm good with that.

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1 I guess I'm thinking maybe a further
2 step down the road and removing that survey
3 component where they survey my customers and just
4 use my catching-effort data as a census and
5 everybody else's to replace that survey and maybe
6 use those survey dollars for validation or
7 something like that.

8 Is that also part of that whole
9 process?

10 MR. HUTT: I think ultimately that
11 would be an ideal goal.

12 Part of it, though, is we're kind of
13 riding along with the various Councils and their
14 processes because we don't want to have you guys
15 reporting in two different logbooks, an HMS plus
16 your Council one.

17 And they don't all entirely agree on
18 everything in the reporting. So it's an ongoing
19 effort to make sure we can get enough consistent
20 reporting that we can do that.

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1 But ultimately, that is what we would
2 like to get to I think, but again, as has been
3 said before here yesterday, we're not in the
4 driver's seat on that process so we have to see
5 how it evolves and whether or not, you know, it
6 works.

7 But I think that's ultimately what the
8 Agency is trying to get to.

9 MR. BROOKS: All right, I want to get
10 to, Cliff, your update on the angling tournament
11 survey but first, Mike, you have a question or
12 comment?

13 MR. PIERDINOCK: Thank you for your
14 presentation. I mean the MRIP data and the
15 highest PSEs continue to haunt us.

16 Going back to 2006, going back many
17 years, we had MRFSS and we had MRIP, and when
18 that conversion occurred, then we had an issue
19 with landings even going up much more higher than
20 what they historically had been under the

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1 previous way in which things were noted.

2 And I have the same concern that
3 things could happen here to our detriment. It's
4 well overdue and it is needed.

5 One thing I would note is that you
6 have indicated you're going to use one state in
7 the design.

8 I would hope that it's taken into
9 consideration with whatever state you take, one
10 of the problems we have is that if you have a
11 location where they're just going after swordfish
12 for the day, that's easy to record.

13 That's easy to record effort; it's one
14 species and so on.

15 But for instance, you come up my neck
16 of the woods, we're going to after cod, haddock
17 in the morning and then we're going after bluefin
18 in the afternoon, and in the middle of the day
19 we're going after sharks.

20 So the effort is all screwed up and

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1 how then you record that effort is such that it's
2 a little different than what you may do on a
3 single species.

4 So, I would ask when you look at this,
5 whatever state you select, you take that into
6 consideration or take that into account, or we're
7 not going to make any headway at all with where
8 things stand now.

9 Because if I go fishing -- I didn't do
10 one cod fish last year -- I'm a Federally-
11 permitted vessel and they assumed every time I
12 went fishing, I went cod fishing from an effort
13 standpoint.

14 And that's what leads to PSEs that are
15 incorrect with reality.

16 So this is long overdue, I hope it
17 works, and I hope it does address the PSE issue
18 and gives us an adequate representation of what
19 we actually catch. Thank you.

20 MR. BROOKS: Thanks, Mike. Yong-Woo,

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1 thank you very much and at this point, Cliff, I'm
2 going to turn it over to you.

3 MR. HUTT: So, I am going to be
4 presenting on the results of a couple of economic
5 studies we have recently conducted in our HMS
6 recreational fisheries, primarily the
7 preliminary results of the tournament survey and
8 the private-angler trip expenditure survey.

9 These were both conducted in 2016.

10 The HMS tournament survey as you'll
11 recall had two components, one surveying the
12 tournament operators to look at the expenditures
13 of tournament operations and a tournament
14 participant survey.

15 At that same year, we were conducting
16 kind of a coast-wide Maine to Texas survey of HMS
17 angling permit-holders about the expenditures of
18 their most recent fishing trips.

19 And so I'm going to present on the
20 expenditure estimates from these surveys, and

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1 then I'm going to talk about the economic impact
2 analysis we did for all of them combined.

3 So, as you'll recall, the goal of the
4 tournament survey was to qualify economic
5 activity and impacts associated with these HMS
6 tournaments. As I just said, it was a two- part
7 study.

8 For the operators, we sent the survey
9 to all of the tournaments in 2016 and early 2017.
10 There was 220 of them; that's number's wrong
11 there.

12 We excluded tournaments that were in
13 the Bahamas or kind of those rodeo-style
14 tournaments that are going all year round, where
15 it's just guys reporting in their big fish, and
16 kind of kept it to the more traditional
17 tournament styles.

18 For the participant survey, we recruit
19 about half the tournament operators to help us
20 distribute information about the survey to get

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1 teams to report on their expenditures.

2 Overall, we received responses from a
3 little over a third of the tournament operators
4 and the regional distribution of those was fairly
5 reflective of where the registered tournaments
6 were.

7 And we received participant team
8 responses from roughly 27 tournaments across the
9 country and a little over 100 teams.

10 Not surprisingly, primary target
11 species for these were billfish and yellowfin
12 tuna.

13 So, first, I'll talk about the
14 estimates of the sources of revenue for
15 tournaments. Primary sources of revenue were
16 registration and kind of the optional fees.

17 Those were kind of like extra
18 registration fees for larger pots. Overall, the
19 total estimate of revenues per tournament was on
20 average \$175,000 per tournament.

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1 This expanded out to the total
2 tournaments in the study was a little over \$38
3 million in revenue brought in by tournaments.

4 Looking at their costs, primary costs
5 was prize money paid out. Obviously, this varied
6 considerably across tournaments. All of these
7 things did.

8 The main talking point is the net
9 earnings for tournaments was about \$3.5 million
10 overall, with an average earnings of around
11 \$16,000 per tournament.

12 For participants, average
13 expenditures for participating teams, a little
14 over \$13,000. We estimated the total number of
15 teams participating in HMS tournaments from the
16 operator survey by getting average vessels per
17 tournament and extrapolating that.

18 And using that number to extrapolate
19 average expenditures, it came out to just under
20 \$86 million in expenditures.

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1 Fifty-six percent of that was just in
2 entry fees, kind of those optional entry fees.

3 We're not entirely -- that was a lot,
4 that wasn't a terribly precise estimate given the
5 wide variation in fees across tournaments.

6 But we weren't really using that
7 number in the economic impact analysis anyways,
8 as that would be double-counting the numbers used
9 from the operator survey since that was what was
10 funding the payments of all their costs.

11 But the other estimates of the
12 expenses with boat fuel, lodging, food, those
13 kinds of things, those were much more precise and
14 more consistent across teams.

15 So, the other study was the angling
16 trip expenditure survey, which was looking at the
17 expenditures of private angling trips.

18 These were conducted across the entire
19 HMS region except for the Caribbean. We sampled
20 year-round North Carolina to Texas; for the

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1 greater Atlantic, Maine to Virginia, we sampled
2 from May to October.

3 We sent out surveys to 4800 HMS
4 permitted anglers so roughly about a quarter of
5 our sampling frame, of our permit frame, and
6 received responses for just under 1800 of them.
7 So, really good sample size here.

8 Here you see kind of the distribution
9 of that sample size across the regions.

10 We got our best responses in the mid-
11 Atlantic, New England being the lowest, but every
12 region got enough responses to have very precise
13 estimates.

14 Over half of these were for their
15 primary targets on the trips they report on were
16 for tuna, followed by billfish and sharks and
17 swordfish, and then either non-HMS being the
18 primary target with HMS being the secondary
19 target, like maybe their primary target was mahi
20 mahi and they were trolling for marlin as well.

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1 And then a certain 15 percent of trips
2 just didn't specify what they were fishing for;
3 they were like, anything I could catch.

4 On average, the average expenses per
5 trip were just under \$700, at \$682. We
6 extrapolated this based on an estimate of the
7 number of non-tournament fishing trips conducted
8 throughout the year.

9 This was estimated based on data from
10 the LPS for Maine to Virginia, MRIP from North
11 Carolina to Mississippi, and data from the LA
12 Creel -- thanks for your help with that, Jason -
13 - and Texas Parks and Wildlife.

14 Total expenditures for non-
15 tournament-related trips was estimated at just
16 under \$47 million.

17 So, a lot less than the tournaments
18 but when you take out that registration fee
19 estimate, this number is actually higher.

20 Just over 60 percent of these

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1 expenditures were for fuel, followed by bait,
2 groceries, and things like restaurants and ice
3 and other expenses.

4 So, using this data from both of these
5 studies, we conducted an economic impact analysis
6 in a program called IMPLAN, which is a pretty
7 standard, most commonly-used program for these
8 analyses.

9 And what this program does is it takes
10 these sales figures from these different
11 industries and it looks at how they circulate
12 throughout the economy to support not only the
13 businesses where the sales are happening, the
14 expenditures are happening, but all of the
15 businesses in the economy that support them,
16 those secondary businesses.

17 It estimates labor income and it also
18 estimates employment supported by the
19 expenditures.

20 So, the results. Total employment

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1 across the three studies was estimated around
2 1,400 individuals.

3 The total labor income was just under
4 70 million, total output was around 230 million
5 across the three studies, and then average impact
6 per tournament was estimated around \$190,000.

7 Average impact per tournament-participating
8 team for a full tournament was \$12,700, and
9 average impact from a day of HMS private boat
10 fishing was just under \$1,400.

11 A couple of caveats to note is we
12 didn't model the impacts of the payout of the
13 prizes at the tournaments because to do that
14 accurately we'd have to have some idea of what
15 people were actually spending that on.

16 And just commonly talking with some
17 individuals, it sounded like a lot of what they
18 were spending that on was more equipment or if it
19 was a big tournament, maybe a new boat or
20 something.

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1 And a few years ago, we did the HMS
2 durable goods survey which kind of captured that
3 data, and we're getting ready to do that again in
4 the next couple of years, or S&T's getting ready
5 to do that again in the next couple of years.

6 So we felt adding that impact into
7 this would be kind of a bit of a double-counting
8 thing.

9 And with that, I can take any
10 questions you have.

11 MR. BROOKS: Let's take a couple of
12 questions here. Go ahead Scott.

13 MR. TAYLOR: It wasn't as much a
14 question as a comment, which is why I laid the
15 card down for a second, but I'll make it quick.

16 I think it's important to note that
17 the biggest money that always gets laid out in
18 these tournaments is the calcuttas.

19 The calcuttas are part of the entry
20 fee. That's not in any way to minimize the

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1 economic impact the tournaments do have. They're
2 a great thing and they put a lot of money into
3 the economy.

4 But in order to really get a clearer
5 picture of what the economic benefit is, you need
6 to take the calcutta money out because that just
7 trades hands.

8 It's sort of like a pool that the
9 money goes into that gets divided up amongst the
10 winners, and in most government numbers, the one
11 thing that gets discounted is fuel.

12 It's not a number that we generally
13 look at because there's not a lot of individual
14 economic benefit except for the fuel companies.

15 So, what I would suggest is even
16 though you have that, if you broke those numbers
17 out, I think it would be a much clearer reflection
18 of what the real economic impact was.

19 They're big numbers, in your ---

20 MR. HUTT: So, we actually didn't

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1 include any of the pay-outs from the tournaments
2 in the economic -- so the pay-outs to the winners,
3 we didn't include that in the impact analysis.

4 It was included in the expenditures
5 breakout but it wasn't included in the impact
6 analysis unless the tournament operator was using
7 some of that money to pay for operational
8 expenses at the tournament site.

9 MR. TAYLOR: But -- and Dick could give
10 you the answer, depending on the structure of the
11 tournament, the registration fee, a lot of times,
12 the majority of that is in fact the calcutta
13 money.

14 It's not, you know, it's not ---

15 MR. BROOKS: Jason?

16 MR. HUTT: Just to clarify, that's
17 actually what we found. The optional fees,
18 that's basically the calcutta money.

19 Or if the tournament operator reported
20 them, that was included there.

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1 MR. TAYLOR: But what I'm saying to
2 you is within the registration, there's always a
3 base level that gets paid out to the participants
4 and the winner. That's the biggest part of the
5 number.

6 The optional fees are optional entry
7 levels that come in, but still, the majority of
8 the registration fees typically get put back to
9 the prizes within the tournament.

10 They're not direct economic impact,
11 that's my point.

12 MR. BROOKS: Let's consider that
13 point heard and something definitely, Cliff, to
14 be going back and looking at, for sure.

15 Rick, do you want to weigh in on that?

16 MR. WEBER: Only to that. Scott,
17 that is the way it has been.

18 I can only speak for myself, I won't
19 speak for absolutely everyone but I have gone
20 back and restructured greatly and almost all

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1 prize money is now added entry.

2 And base entry is for the expenses of
3 the event; it is for the attendance at the event.
4 And the format used to be there was a base prize.
5 I think I now only have one event with a base
6 prize.

7 Everything else is, you're paying for
8 the entertainment, the judging, the this, the
9 that, and the format has changed a little, at
10 least in the Northeast.

11 I won't comment on how it is down
12 south, but for me, your statement is no longer
13 accurate, though it did used to be.

14 MR. BROOKS: Thanks, Rick. Let's go
15 to Jason and then up to Mike.

16 MR. SCHRATWIESER: Thanks for the
17 presentation. When do you expect this to be
18 finalized?

19 MR. HUTT: The goal is to have the
20 report probably by the fall AP or at least the

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1 end of the year.

2 I'm also working on the mako team and
3 several other rulemakings, so this is one of
4 those things that doesn't have an expiry date on
5 it but I plan to have this done this year.

6 Sooner rather than later.

7 MR. BLANKINSHIP: I would say in the
8 overview presentation yesterday it was 2019, was
9 what we said.

10 We're hedging our bets a little bit.

11 MR. BROOKS: Mike?

12 MR. PIERDINOCK: I just had a question
13 with the slide that indicates charter fees with
14 an average of \$315.

15 If I'm going to take a group of guys
16 and they're going to hire me as a -- my charter
17 boat, I'm going to have these other costs and so
18 on. I'm going to have that daily fee that I'm
19 going to charge them in addition to these other
20 costs. So, what exactly is the charter fee?

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1 Is that just the captain and the first mate
2 or the crew? Because I do have bait, food, fuel
3 and so on, and other expenses. Am I correct with
4 that?

5 MR. HUTT: So, there were some
6 tournaments where people were basically hiring a
7 for-hire vessel to go out.

8 And since we were surveying kind of
9 like the team captain, if their primary expense
10 is well, I pay the charter boat to take us out,
11 then that's kind of what he reported.

12 So, he wouldn't have necessarily the
13 information to tell us what that captain's
14 breakdown of expenses were.

15 And there's a sector in IMPLAN that we
16 can use to model that.

17 But we did back in 2013 do a more
18 detailed survey of our for-hire captains about
19 their operational costs, which was published a
20 few years ago.

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1 And ultimately, I would like to see
2 that updated but right now, we've been kind of
3 holding off with all the development of the for-
4 hire logbook and all because there's been a lot
5 of issues about what kind of economic data they
6 might collect in those.

7 So we're waiting to see what comes out
8 of that before we redo that again.

9 MR. PIERDINOCK: The costs, the other
10 costs here look like they're pretty much --
11 that's the only thing that if I would take them
12 fishing for the day for a typical two-day
13 tournament, there would be a fee with that.

14 And then I have all these other
15 expenses and the entry fee in addition to it, but
16 that's the only thing that seems a little low.
17 The rest does seem reasonable.

18 MR. HUTT: And I think it's wonky just
19 because there were a lot of tournaments where it
20 was mostly just private boats, and then there

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1 were a handful that they had chartered so it
2 brought the average down.

3 MR. BROOKS: Thanks very much, Cliff.
4 If there are no other questions, let's push on
5 and, Jason, do you want to stay where you're at
6 or come up here?

7 MR. ADRIANCE: Either way.

8 MR. BROOKS: Come on up to the --- so
9 Jason's going to talk to us about the Louisiana
10 Creel survey.

11 MR. ADRIANCE: All right, thanks, and
12 Bennett's put me on the clock so I'm going to fly
13 through this and if I skip over something
14 quickly, catch up with me downstairs I guess.

15 So, what I'm going to cover is not
16 just going to cover LA Creel because I felt like
17 I couldn't tell the whole story without going
18 over our recreational offshore permit, which kind
19 of evolved first, and then we got to LA Creel and
20 some lessons we've learned.

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1 So, I'll start with the permit. What
2 is it? We developed that in order to more
3 accurately estimate our universe of offshore
4 anglers.

5 And this is what started out as our
6 yellowfin reporting, if you remember a
7 presentation from way back when that I gave.

8 And one of the main reasons was these
9 estimates of offshore effort were just -- the
10 encounter rates and the estimates, we lacked
11 confidence and there was just a wide range in the
12 landings from year to year.

13 So, it's a free permit and the only
14 folks that aren't required to get it are those
15 that are under 16 and clients on a for-hire trip
16 that, the captain's responsible.

17 And that list of species there are the
18 ones that covered. It basically covers all the
19 highly migratory and the reef species, and some
20 coastal pelagics.

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1 So, how did we get here? December
2 2011, we started with that yellowfin tuna
3 reporting. That didn't get very much traction,
4 not a lot of buy-in, but we added some reef fish
5 in the summer of 2012 to that permit, and in the
6 meantime, we had taken away the mandatory --
7 well, the reporting was still going on at this
8 time.

9 In 2013, we went live with that permit
10 and we had already dropped yellowfin tuna
11 reporting at this point because it just didn't
12 work.

13 And with this, this started with some
14 intense red snapper quota monitoring and as
15 you'll see, that's what later developed into LA
16 Creel.

17 So, in 2014, we started LA Creel and
18 that came out of this intensive red-snapper
19 monitoring and the fact that we wanted to take
20 the burden away from anglers in getting at those

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1 highly-migratories on the dock and these reef
2 species.

3 And then a few other minor changes
4 that you can read about there that are just,
5 logistically, feedback from anglers and how we
6 structured when the permit expires.

7 It's online-based and there are a few
8 caveats: residents born before June 1, 1940 don't
9 have to have a license but we have a mechanism
10 for them to get this ROLP.

11 And then Texas reciprocal anglers,
12 there's also a method there, and for our free
13 fishing days there's a method as well.

14 This is something we struggled with
15 for a while is do we charge a fee or do we keep
16 the permit free? We kept it free for a couple
17 reasons.

18 A fee would require us to go to the
19 legislature. There would be more hoops to jump
20 through and if we added a fee, not only would it

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1 cost anglers, it would cost us for each
2 transaction.

3 But we wanted to keep it separate from
4 the license systems to try to avoid some over-
5 subscription and the example I always use with
6 that is if you go into a third-party vendor and
7 you're asking for your license and they're going
8 through what you need, it's kind of like the HIP
9 survey.

10 Do you need a recreational offshore
11 landing permit? What is it? It's free. Oh,
12 yes, add it on. And then we're back to where we
13 were, we don't really have an accurate universe.

14 And as you can see, compared to
15 450,000 saltwater anglers, that universe is
16 somewhere around 15,000. So the vested angler
17 was a big deal.

18 Why did we want to separate offshore
19 and inshore activity? Well, they're different.
20 You can see there's some slight overlap. This

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1 is in numbers of fish.

2 I'm not going to go through it in
3 detail, you can look at it. But two different
4 fisheries, inshore and offshore. Why is it
5 important?

6 Well, you just look at the breakdown
7 of number of trips. For for-hire trips, it's
8 generally about 14 percent a year that are
9 offshore, and that number might vary by a
10 percentage point every year but it remains pretty
11 consistent.

12 And private angler trips, it's about
13 four percent, and those percentages don't vary
14 much either.

15 So, one thing this got us to, here you
16 see a comparison of the year we did benchmark
17 with MRIP. We did side-by-side surveys.

18 You can see some of the differences in
19 our RSEs for the Creel and MRIP, and I'll point
20 you to that little note on the bottom that

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1 yellowfin tuna PSE is down to nine percent for
2 2017. So, not bad.

3 And just a quick word about angler
4 surveys, this also gave us a great database to
5 survey our offshore anglers.

6 They're much more engaged and
7 responsive than the average angler, we found. And
8 this is just a quick example of one of those
9 surveys that was before the 39-day opening that
10 happened last year.

11 The survey was open for a very short
12 time, June 5th to 7th, but we got a raw response
13 rate of almost 33 percent and 50 percent opened
14 the survey.

15 So, a lot of quick instant feedback
16 from those folks in that database.

17 All right, so we'll get to the survey.
18 How did we get here? Some of this I already
19 covered. We've been involved with MRIP since the
20 early '80s.

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1 Like most folks, we began collecting
2 that MRFSS data in the '90s and we found those
3 issues, the inability to obtain reliable landings
4 at a basin level, that was one thing we were
5 concerned about for in-state data, insufficient
6 sample size. Angler participation estimates
7 always far exceeded our license frame.

8 The precision of the landings for many
9 species were and remain poor, and those landing
10 estimates were not timely enough for in-season
11 monitoring.

12 So, how did we get here? In 2014 we
13 divorced from MRIP as most of you know and we
14 started LA Creel. So, during that process in
15 January of 2015, we requested certification.

16 We had a peer review, NOA brought in
17 statisticians and some of their science staff,
18 and we sat in a room for two days and went through
19 this peer review.

20 We did the side-by-side benchmarking

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1 which I mentioned in 2015. That benchmarking
2 evaluation of provisional certification happened
3 in 2016.

4 We had a review of our estimate
5 calculation that was done in 2016 as well and we
6 finally, actually, just got certification just
7 recently.

8 And I think I may have put the wrong
9 date on there, it should have been January 2018.

10 And benchmarking continues; we're
11 currently trying to calibrate our landings to
12 MRIP landings and we're hoping in the next few
13 months we'll be done with that process.

14 What was the purpose? Well, we had
15 to have some purpose for this survey and it was
16 to provide us with statistically significant
17 recreational fishery information.

18 Not a big brain teaser there. We also
19 sat down and before we started, we established
20 some design criteria.

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1 We wanted to increase the speed at
2 which that harvest data can be compiled. We
3 wanted to have a flexible design so we could
4 quickly respond to changes in needs.

5 And we wanted to provide information
6 on area-specific harvests, so back to that basin
7 level within the state, and maximize survey
8 efficiency and minimize burden on the anglers.

9 I think currently we're at six
10 questions or maybe seven.

11 General methodology is an access-
12 point survey that's dockside and a phone and
13 email effort survey, and that effort survey is
14 weekly.

15 And we separated our biological
16 sampling so that the one isn't taking away from
17 the other. When our biologists are going after
18 biological samples, that's what they're doing.

19 When they're out there for LA Creel,
20 that's what they're worried about. I'm not going

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1 to spend any time on this, you can look through
2 it.

3 This is just kind of the data-flow
4 process to get to those landing estimates.
5 Another one that I'm not going to spend too much
6 time on, but the point is we've broken things
7 down into private and charter anglers, weekday
8 and weekend.

9 We have our basins separated and we'll
10 do pressures on those and then those go to our
11 areas and they'll conduct the assignments. And
12 this is a graphic of approximately how many
13 assignments are done in each basin.

14 I think it comes out to 31 if you do
15 the math, per week. And these are our basins.

16 Like I said, basin management was
17 important to us within the state and for the
18 purposes of LA Creel, that Mississippi River
19 Delta is lumped together with our Barataria
20 basin.

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1 All right, just some key features that
2 I've already mentioned, inshore/offshore
3 stratification and separate biological sampling.

4 And I've probably covered this already
5 but we wanted more representative-specific catch
6 rates by directing those access-point assignments
7 to sites with similar fishing activity.

8 We wanted that more efficient survey
9 design by allowing those access-point surveys to
10 be selected and focus on an activity, and to
11 provide the flexibility.

12 The separate biological sampling
13 program, once again, that provides us with
14 representative biological samples that are based
15 on where those species are landed, rather than
16 where the majority of anglers are landing their
17 catch, and provides time for interviewers to
18 survey more trips when they're not having to
19 worry about biological sampling.

20 So the effort survey is real-time from

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1 our license frame. We draw those weekly and if
2 you purchased a new license for that previous
3 week that we're drawing, you're in the system. If
4 your license expired, you're out of the frame.
5 Same with that offshore permit.

6 And we do telephone and email so an
7 angler has the option to answer the email by
8 Tuesday or Wednesday and then we start calling if
9 they don't answer us.

10 So, this is an example of the draw
11 from our license frames. That ROLP frame, we
12 draw about 400 anglers, however, we increase that
13 to 800 during the red snapper EEZ season.

14 And then 30 percent of those charter
15 ROLPs are drawn normally but it's 100 percent
16 during the red snapper season.

17 So, what's that real-time frame
18 provide for us?

19 It's weekly eligible anglers and so
20 we'll capture those license spikes and drops,

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1 separate sampling frames for those groups of
2 anglers, the ROLP and the regular saltwater
3 frame.

4 We get a high level of valid contact
5 information and once again, we can more
6 efficiently target offshore effort.

7 This is just a graphic of our charter
8 and private angler fishing trips by year. And
9 2017 is not on here but it's very similar to 2016,
10 there's a slight difference in there, and those
11 are the 95 percent confidence intervals around
12 that.

13 Once again, key features of the
14 estimate calculation, a lot of this is
15 repetitive, I apologize, based on the level
16 estimates and weekly landing estimates.

17 So, this is kind of a flow of how we
18 get at that estimate calculation. I'm not going
19 to go through it so Bennett doesn't yell at me
20 but we can talk about this more if you want and

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1 you can look at it or you can ask me questions
2 later.

3 But that's how we get at our weekly-
4 adjusted landing estimate, and you can see there
5 is an out-of-frame correction.

6 So, what does that basin-level
7 information give us? It gives us some regional
8 management options and we can parse out our
9 landings by basin.

10 And this is just an example of that
11 for spotted sea trout and red drum. I know this
12 is a highly migratory panel, we'll get to those.

13 Those weekly landing estimates, those
14 are important for us. We get near real-time
15 estimates. We reduce recall bias by doing
16 weekly.

17 Now, it is expensive, I'll admit that.
18 And we get the flexibility to adjust effort and
19 access-point surveys weekly if we need to.

20 So, our timeline of estimates, while

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1 we collect everything weekly, we're about ten
2 days behind when we get an estimate. So an effort
3 survey for the previous week, which we can call
4 Week 0 for this example, on Monday of that
5 following week, we'll get the list of anglers.

6 We send it to our contractor who is
7 the South Central Planning & Development
8 Commission and they do our phone calls and our
9 email surveys. We'll send that to them and
10 they'll start those emails and phone calls.

11 Our coastal study areas get the list
12 of charter captains and they start making phone
13 calls or emails. Then during week one, that
14 access-point data at the dockside is being
15 QA/QC'd while the effort survey is being
16 conducted.

17 And then as I mentioned earlier,
18 Monday afternoon, those emails are sent out.
19 Wednesday through the weekend, those effort calls
20 are finished up, then Tuesday of that Week 2, we

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1 get all the email and phone data from our
2 contractor.

3 We'll QA/QC that and then that
4 Thursday of Week 2 we'll run the estimates. So,
5 you can see the example down there.

6 If a red snapper is landed during the
7 week of May 29, we have estimates on June 15 for
8 that. Okay, highly migratory.

9 This is a graphic in numbers of fish
10 of our statewide-landing estimates for yellowfin
11 tuna and blackfin tuna for 2014 through 2017, and
12 the confidence intervals around that.

13 And this is numbers of fish and this
14 is combined private and charter landings.

15 So if you look, last year, that's
16 about 23,000 fish for yellowfin tuna. Same thing
17 for red snapper and grey snapper, once again in
18 numbers of fish.

19 So, what are some lessons we learned
20 in going through this process? You really have

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1 to understand your fishery and know where and how
2 it's functioning, that was important.

3 The types of activity, like you see
4 there, whether it's in shore or whether it's off
5 shore, when are those deep-drop trips coming in?
6 When are those offshore trips coming in?

7 Increases in precision come from an
8 adequate number of representative dockside
9 surveys. I mean, that's pretty simple to figure
10 out, and that stratification on the graph you saw
11 earlier.

12 So, this is a comparison in 2015 when
13 we had the side-by-side with MRIP and this is
14 just private angler, this doesn't include the
15 charter.

16 You can see the difference in the
17 number of fish landed based on the LA Creel
18 estimates versus the MRIP estimates, a pretty
19 stark difference.

20 Once again, the access-point surveys,

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1 one of the things we ended up doing was splitting
2 that Barataria basin into a north and south
3 segment.

4 We found there were some differences
5 there. Those offshore pressures at the southern
6 sites mainly down near Venice and Empire, those
7 were diluting some of the inshore site
8 selections.

9 So, we adjusted that and that
10 stratification allowed more directed offshore
11 site selection.

12 And the survey only originally
13 inquired about ROLP status for offshore trips
14 when we saw those, but in consultation with the
15 statisticians, we just started asking for MRIP.

16 So that allows us to separate inshore
17 and offshore ROLP catch rates and pair those with
18 the corresponding estimates.

19 We're still evaluating that
20 statistical significance of those differences and

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1 under-coverage correction is applied just to the
2 non-recreational offshore landing permit group.

3 The effort survey, targeting
4 activities, saltwater licenses, ROLP, out-of-
5 state, all these things were important in
6 verifying that our questions are understood by
7 our audience, just something as simple as did you
8 fish from a boat makes a difference.

9 Because many types of structures, as
10 you see there, qualify as shores. We had to ask
11 that question a little more specifically.

12 It's important to ensure those charter
13 trips aren't reported as private trips, paid
14 trips versus gifted trips, consistency between
15 private and charter effort surveys.

16 So, on the effort survey, we increased
17 those number of contacts from the offshore permit
18 group from 300 to 400, and that actually resulted
19 in 50 extra completed phone calls and increased
20 our precision, and we reduced some mismatches

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1 between dockside and effort, especially during
2 the winter months.

3 There is still a very minor amount of
4 that, but that has helped tremendously and you
5 can see kind of the graphic there of the RSE
6 versus the positive trips encountered.

7 So some survey adaptations and future
8 considerations, we have a 50/50 A.M./P.M. split
9 and so to adjust that for sites with offshore
10 pressures to correlate to later return times, and
11 we actually implemented this beginning this year.

12 That 25/75 split for that southern
13 portion of Barataria, that includes Venice. Most
14 of our trips were coming in in the P.M. so we've
15 already shifted that.

16 Weekend, weekday split, our effort
17 survey data shows that two-thirds of our trips
18 are on weekends during peak months. That makes
19 sense.

20 But are those catch rates different?

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1 These are all things we're still looking at. And
2 can efficiencies be gained by only serving one
3 weekday-type?

4 Increasing sampling during red
5 snapper season, that was one thing we did, and
6 then meeting Federal needs, we've been asked to
7 add a question about discards and targets and
8 we've added those.

9 And then tying our biological data to
10 the dockside data and exploring some electronic
11 reporting options. So, these are all things
12 we're looking at.

13 Internal evaluation of the full survey
14 with the goal of reducing bias and error, 2017 is
15 listed there but that's ongoing and we're
16 constantly doing that.

17 And we're actually compiling a three-
18 year report that hopefully will be done this
19 summer. We're always discussing future
20 improvements.

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1 I think we meet months on LA Creel to
2 talk about what can we do better?

3 And now that certification is
4 complete, as I've mentioned, we're working on
5 benchmarking so we can rebuild that recreational
6 catch history and get a common currency.

7 Sorry I flew through that but I'll
8 take questions.

9 MR. BROOKS: Let's see if there's any
10 questions for Jason? Yes, Mike?

11 MR. PIERDINOCK: Jason, I want to
12 thank you, a great presentation. It's nice to
13 see such an evaluation done by your state.

14 The Commonwealth of Massachusetts has
15 done a similar process in state waters and it
16 really is a perfect example how if the state
17 spends money and implements it and increases
18 dockside interviews, how that has a positive
19 impact on PSEs and everything.

20 And that was frustrating for your

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1 state and mine to see other states then not do
2 such, and we suffer with the problems with that.

3 I'm curious, I know in Massachusetts,
4 we go by private angler, private boater, charter
5 headboat, and party for hire.

6 Do you separate it out that way or do
7 you do any more type of breakdown into how you
8 evaluate?

9 MR. ADRIANCE: No, it's just private
10 anger and for hire.

11 MR. PIERDINOCK: And last thing, that
12 one graph with the PSEs going way down, I think
13 you just completed Phase 2 of the LPS redesign.

14 We don't have to wait seven years, we
15 can jump right into and hopefully they can learn
16 from you in a few other states.

17 Is the main thing you're seeing that
18 it's the having enough interviews that's driving
19 the problem with the PSEs?

20 What's the main factor that you see as

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1 impacting the data and the results?

2 MR. ADRIANCE: Well, it's simple
3 statistics, more samples, better precision.

4 MR. HUTT: And that was what the LPS
5 was originally designed to do for HMS species.
6 That's all offshore intercept.

7 MR. BROOKS: Thanks. Rusty?

8 MR. HUDSON: Just a quick question,
9 Jason, HMS doesn't have a blackfin tuna. South
10 Atlantic Council doesn't handle it.

11 Does the Gulf of Mexico handle it over
12 there?

13 MR. ADRIANCE: No, I just threw that
14 one in because it is actually one of the more
15 commonly landed species, well, highly
16 migratories.

17 MR. HUDSON: That's what I liked
18 seeing was the fact that you had a nice collection
19 of blackfin tuna, you know?

20 It's something I haven't seen down at

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1 the South Atlantic. It's good stuff.

2 MR. BROOKS: Thanks. Marcus, please?

3 MR. DRYMON: Jason, I've always
4 wondered how much that survey cost?

5 MR. ADRIANCE: It's about \$1.2
6 million a year.

7 MR. BROOKS: And they were just about
8 to implement it. Have you seen any other cards?
9 No.

10 MR. PIERDINOCK: Interesting comment,
11 the saltwater fishing license in the State of
12 Massachusetts to fish in state waters, that money
13 specifically goes to recreational measures
14 specifically goes to exactly what you're doing.

15 So we use that as a mechanism to help
16 fund it and I believe, Ray, it's \$10 per angler?

17 So there are other ways to do this, as
18 much as we don't want to tax or increase any fees.

19 MR. BROOKS: How did you get that
20 money allocated?

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1 MR. ADRIANCE: I was going to answer
2 that.

3 So, to our recreational angler's
4 credit, we proposed a \$7.50 increase on the
5 saltwater license for LA Creel and that went
6 through the legislature without opposition.

7 So, they put it on their backs to pay
8 for it.

9 MR. BROOKS: Was that a hard sell or
10 no?

11 MR. ADRIANCE: Actually, it was not
12 as hard as I would have thought it was. It
13 actually went through pretty quickly.

14 MR. PIERDINOCK: We made sure that
15 recreational license money went to recreational
16 matters only and there is actually a panel that
17 I'm on that we ultimately manage those fees.

18 It cannot go elsewhere, I know that's
19 been a problem with other states because they
20 can't get that level of commitment.

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1 But once again, it helps the MRIP,
2 helps the process and maybe someday, we'll see we
3 go down this road in other states or we'll be
4 saying the same thing 10, 20 years from now.

5 MR. ADRIANCE: Yes, that \$7.50
6 increase, that's earmarked for LA Creel.

7 MR. BROOKS: Tim, is that your card
8 up?

9 MR. PICKETT: Yes, I just wanted to
10 say they called me, they were very, very pleasant
11 and it was a wonderful experience and
12 congratulations and great job.

13 MR. ADRIANCE: Thanks, glad to hear
14 it.

15 MR. BROOKS: Rick, did they call you
16 too? No, go ahead.

17 MR. BELLAVANCE: Jason, thank you,
18 that was really interesting.

19 If it gets too into the weeds we can
20 talk later, but if I've got your presentation

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1 right, what you learned from the comparison of
2 the MRIP with your program is that MRIP was
3 underestimating effort and underestimating
4 catch. Is that what you came up with?

5 MR. ADRIANCE: So those encounter
6 rates of those offshore in particular were very
7 low.

8 Previously, Venice might have come up
9 in an MRIP draw once a month, and their effort
10 estimates, we always saw those as way
11 overestimated.

12 Our saltwater licenses, roughly
13 450,000 and the participation numbers just were
14 two-thirds higher than that.

15 MR. BROOKS: Great, well, thanks,
16 Jason, very much, appreciate it.

17 I want to just see whether we have
18 public commenters or anyone that wants to comment
19 on the public scoping for the longline bluefin
20 tuna weak hook in area-based management?

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1 One commenter on that, okay. All
2 right, so we've got one comment and, yes, one
3 more coming, one person's coming we think.

4 Okay, right, so I'm just trying to get
5 a sense. So, Glenn, please. Great, we're not
6 going to take them yet, I just wanted to get a
7 feel for how many comments we have, commenters.

8 Yes, and on the phone, do we have
9 anyone for a public comment or for the public
10 scoping session? Okay, so we've got three people
11 in the room to make comments.

12 All right, so we will make sure to get
13 a fourth -- oh, I think that may be the third,
14 not the fourth.

15 All right, so we'll make sure we have
16 10 or 15 minutes set aside so I think we have
17 until about 5:15 P.M. as planned.

18 So, do you want to leap over the
19 circle-hooks and go right to the --

20 MR. BLANKINSHIP: Okay, so in the

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1 adjustment schedule here, Brad is going to go
2 ahead and give a little bit of a presentation on
3 the request to allow filleting of tunas at sea on
4 headboats.

5 And the reason why we're going to
6 change this order a little bit, and I think what
7 we'll do in the interest of time, we are looking
8 at kicking the circle hook use in billfish
9 tournaments discussion probably until tomorrow if
10 we can fit it in, in order to keep our schedule
11 for public comment.

12 And with the circle issue, that was
13 one that was raised in the past and we talked
14 about it actually in the fall.

15 And this is actually the same
16 presentation again, attempting to be able to --
17 there was one AP Member that wasn't here in the
18 fall who this was a particular issue that that
19 person had commented on during regulatory reform.

20 And we wanted to give that opportunity

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1 for that Member to be able to participate but he
2 wasn't able to attend this Meeting either.

3 But we will still give that
4 opportunity, but we'll do it tomorrow. In the
5 interest of time, we're going to shift the
6 schedule a little bit.

7 MR. BROOKS: Thanks. Brad?

8 MR. McHALE: All right, so
9 essentially, this as an issue that had been
10 raised I believe at one of the prior AP Meetings
11 as well as some requests to put it on the agenda
12 to raise this issue of whether or not we should
13 be considering allowing filleting at sea.

14 And the request initially had come in
15 from more of the headboat operator perspective.
16 Since that point in time, we've gotten additional
17 interest from our charter fleet as well.

18 We have some letters in hand
19 requesting the same consideration, and I suspect
20 that as we get into this dialog, anyone that

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1 fishes would like that same consideration.

2 So, that being said, the premise for
3 this was apparently the State of New Jersey
4 actually has a fillet permit that does exempt
5 headboats and essentially allows them to fillet
6 at sea.

7 And I'm currently as we're looking
8 into this issue, I'm also collaborating with our
9 partners on the West Coast, where they have some
10 filleting considerations in play for their
11 Atlantic tunas.

12 A little bit of the background and
13 history is that we considered this option about
14 12 years ago in the consolidated HMS FMP.

15 At that point in time, we did not
16 proceed forward with authorizing any sort of
17 filleting at sea for Atlantic tunas.

18 And the primary concerns there were
19 there were really no good answers at that point
20 in time on how we would do species identification

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1 between bluefin, yellowfin, and big eye, as well
2 as albacore to a less degree, as well as how do
3 you then in turn enforce our minimum-size
4 requirements, where we do have different
5 requirement for yellowfin, bigeye, and then in
6 turn the Atlantic bluefin tuna.

7 So, essentially, we just wanted to
8 open this up for some discussion, some potential
9 consideration on whether or not the Agency should
10 pursue something in a more formal fashion whether
11 it be consideration of any future or forthcoming
12 EFP requests, formal rulemaking, what have you.

13 But as a courtesy to the including
14 inquiries, we figured we try to get a little bit
15 of air time around the table to hear what may
16 have changed since that 2006 FMP consideration
17 regarding species identification and proper
18 enforcement of those size and species ID
19 concerns.

20 And essentially, we'll open it up for

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1 any sort of dialog at that point.

2 MR. BROOKS: Short presentation
3 inviting conversation.

4 David and then Dewey?

5 MR. SCHALIT: I think that we need to
6 acknowledge the similarities and differences in
7 this case.

8 Number one, yellowfin has a very dark
9 red meat, big eye as well and bluefin too.
10 Number two, yellowfin is a medium pink.

11 Number three, yellowfin is a light
12 pink. Albacore is even lighter than that.
13 Probably albacore is the easiest to identify
14 filleted.

15 We have had problems in the past in
16 connection with misidentification to bigeye and
17 bluefin of a certain size.

18 In other words, let's just say, for
19 example, they got up to the size that would be
20 equivalent to a small, medium.

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1 Bluefin is very easily misidentified
2 either way, bigeye or bluefin.

3 Now, the complexity comes from the
4 fact that most recreational anglers or many
5 recreational anglers that I know of will not
6 eviscerate the fish until they get ashore, in
7 which case, that means they have the liver to
8 available to inspect if you want to identify.

9 That is the easiest way to identify a
10 bluefin from a bigeye.

11 But the proposal here involves
12 filleting bigeye, let's say presumably at sea,
13 where you would not have anymore, it literally
14 would no longer exist, you would no longer have
15 the pectoral and second dorsal fin relationship
16 to work with.

17 So, that fish could look like a
18 number-one quality yellowfin or the meat of the
19 bluefin or the meat of the bigeye.

20 So, if we are concerned at all about

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1 proper identification, I would say that the one
2 fish that you might not have a problem filleting
3 would be albacore.

4 The rest, it's going to create
5 problems for us.

6 Thanks.

7 MR. BROOKS: So, David, you're not
8 weighing in with your own sense but rather just
9 a take of what you're left with in terms of
10 ability to ID?

11 MR. SCHALIT: I'll be clear.

12 I believe that in order to properly
13 identify these species, we should not allow
14 filleting of any species, other than any of those
15 species I mentioned other than albacore.

16 MR. BROOKS: Thank you for the
17 clarification, that's helpful.

18 MR. HEMILRIGHT: I was hoping it
19 seemed like this is kind of like a fishing
20 expedition a little bit, what you're asking to

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1 provide comments on.

2 You stated that New Jersey has a
3 filleting permit, correct? And that pertains to
4 state orders?

5 MR. McHALE: Not quite.

6 If you don't mind, Bob, if you
7 wouldn't mind taking the microphone and kind of
8 explaining some of your understanding of that New
9 Jersey permit and the specifics of the request?
10 Thank you.

11 MR. BOGAN: Right, what we have now,
12 I think New York has a filleting permit too. I
13 might be wrong about that but we're allowed to
14 fillet at sea almost any other species.

15 What we were proposing originally, in
16 a large party boat you have 20 people, that's
17 kind of a light crowd actually, and if everybody
18 caught two fish, that's 40 fish and we only three
19 deckhands.

20 We get to the dock and we're filleting

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1 for hours. People get very aggravated and
2 there's only a few of us left.

3 So my original proposal was that we
4 could put a tie-back tag on the rack of the fish,
5 save the rack of the fish, put the cores, the
6 loins in a bag, all four loins in a bag, put a
7 tie-back tag on that and just coordinate those
8 two tags.

9 And I just think it would lower the
10 burden for us.

11 Originally, I wasn't even going to ask
12 you for bigeye, I wasn't going to ask you for
13 bluefin, just yellowfin alone because that's our
14 predominant catch.

15 But I mean, if it could be included,
16 it'd be great. That's just my thoughts, I'm sure
17 there's more to it but I can't remember right
18 now.

19 MR. BROOKS: Dewey, you want to weigh
20 back in here?

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1 MR. HEMILRIGHT: Yes, I'd like to hear
2 from enforcement, the Coast Guard, but also, I
3 don't understand how New Jersey can have a fillet
4 permit in Federal waters.

5 I don't know of any fillet permit
6 that's available or there for the species. I
7 think maybe you need to do some more homework and
8 I can't help if there's frustrated customers
9 because somebody maybe needs to clean faster.

10 So we need to hear from enforcement,
11 from Coast Guard, we need to hear the comments
12 that are given to the public that y'all have
13 received.

14 It don't feel like there's homework
15 done to bring this before this AP on this issue.

16 MR. BROOKS: Thanks, Dewey. Greg?

17 MR. MAYER: Yeah, I've run into this
18 situation before but I'm kind of with Dewey.

19 Species identification would be
20 really tough except maybe with a yellowfin or an

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1 albacore. But bluefin or bigeye, they look so
2 similar you wouldn't be able to tell the
3 difference.

4 I know maybe with the yellowfin, if
5 the fillet or the loin is 27 inches which is
6 legal, which would kind of go back to what we
7 were talking about, mutilated tunas also.

8 But what you have left if it's legal
9 might work but I think species identification
10 would be really tough.

11 MR. BROOKS: Thanks, George.

12 MR. PURMONT: According to Erik
13 Prince, I didn't know, but many of you people
14 probably wouldn't get the humor of that.

15 But I think the concept of fish
16 identification is important and I think that if
17 there is a question as to what species it may or
18 may not be, it should not be filleted.

19 But if it's blatantly obvious, then I
20 don't see a problem with it.

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1 MR. BROOKS: Thanks, George. Mike?

2 MR. PIERDINOCK: Thank you, I'm on the
3 Board of Directors of the Stellwagen Bank Charter
4 Boat Association and AS.

5 I speak on their behalf today and I
6 believe they submitted comments via letter.
7 We're a little different.

8 All of you are fortunate to have a
9 diversity of species down your neck of the woods
10 but where we fish north of the cape, we just have
11 bluefin tuna.

12 So, that makes it a little easier from
13 an ID standpoint. That's the only thing we're
14 requesting here, that it would be bluefin that
15 you could bring in.

16 This is 2018 so let's take out a
17 measuring device and take a photograph and let's
18 take that approach.

19 We are allowed with certain
20 groundfish, fish in the Federal waters, and some

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1 other species that we keep the skin attached and
2 are able to bring it in.

3 So, we won't also request in this
4 because of some of the smaller boats that come in
5 and have to go off a ramp.

6 There's limitations when they come and
7 off that ramp, that you can't do any filleting at
8 the dock.

9 And some docks too, that's just
10 starting to disappear up our neck of the woods
11 unfortunately.

12 So, in addition to that, if we're
13 going after bluefin like last year, it could be
14 a couple miles offshore but we sometimes 20, 30,
15 40 miles and we'd like to be able to be provided
16 the opportunity to fillet at sea so by the time
17 we had that long day go by, we can come back to
18 the dock and have everything cleaned up and let
19 the clientele go.

20 So, thank you.

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1 MR. BROOKS: Thanks. I've got Shana,
2 Jason, Rick, Rusty.

3 MS. MILLER: Just really quickly on
4 the California fillet program, that rule is less
5 than two years old and we've been hearing
6 concerns from fishermen, and it sounds like maybe
7 you heard this from California as well, that
8 there is misreporting of species and number of
9 fish based on using this loining as a loophole.

10 However, the rules do not require
11 retaining the carcass and I think that could be
12 a different ballgame. Thanks.

13 I said Rick, I meant Bellavance, but
14 I also see Weber down there so we'll take the
15 Ricks.

16 Rick Bellavance first?

17 MR. BELLAVANCE: Thank you.

18 So, I think what we're trying, what
19 Bob's trying to get at and what I think a lot of
20 us in the for-hire industry are trying to get at

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1 is just to make our day a little easier and to
2 come up with a process that enables our customers
3 to get back in their car and get home a little
4 quicker.

5 Our customers come back because they
6 have a good day and they have a fun day. They
7 get back after a 12-hour day, these aren't
8 fishermen, these aren't people that spend their
9 lives on the water.

10 They're on the water once a year and
11 a 12-hour day on the water kicks their ass and
12 they just want to go home.

13 So to find them sitting around the
14 dock waiting two hours, three hours, for them to
15 cut through all the headboat's worth of the
16 bluefin or yellowfin or whatever becomes a burden
17 that they remember and that's their last memory
18 as they're driving up the road.

19 And so they may not want to come back.
20 They're like, well, that was fun, I'm glad I did

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1 it, check it off the box and never come back.

2 So I think this is an attempt to help
3 us help our customers, and Bob's approach to the
4 filleting would make sense to me, where we're not
5 throwing the frame over, we're keeping the frame,
6 we're keeping the four pieces.

7 That takes a lot of time to cut them
8 up like that and if you can get the four pieces
9 that go to that fish taken apart, that saves you
10 a tremendous amount of time when you get to the
11 dock.

12 And then if enforcement comes on the
13 boat, you go these four pieces go with that tuna,
14 these four pieces go with that one, and then
15 there's no species problem, there's no over-the-
16 limit problem, possession limit problem, or
17 anything like that.

18 You can show exactly what you caught,
19 it just saves that step so that the crew on the
20 way home can go through that, at least that, one

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1 half of the filleting of the fish and save some
2 time for our customers.

3 So, I think that's what Bob's trying
4 to get at and that's why I support it.
5 Hopefully, you can work something out.

6 MR. BROOKS: Thanks, Rick. Let's get
7 the last few in and we are coming up against the
8 public comment.

9 So, Rick Weber?

10 MR. WEBER: I see Robert's coming up
11 in cue so I will let him follow up on this but I
12 believe in New Jersey this is only a party boat
13 filleting permit, and I believe that the argument
14 having to do with enforcement was there.

15 The only boats that could conceivably
16 have an undercover office are on there without
17 anyone knowing who he is or where he is, and they
18 can be monitored surreptitiously.

19 None of the rest of us -- private,
20 commercial, even charter -- don't have the

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1 ability to have someone on board your boat that
2 you don't know is enforcement and I think that
3 was a key component.

4 And I don't know if the rest of the
5 states have gone to this insanity but in New
6 Jersey, fish-cleaning table runoff is not allowed
7 back in the water and you have to root it off to
8 sewers.

9 And it comes from the water, you add
10 some water, you don't put it back. So, New
11 Jersey's got plenty of weirdness going on.

12 MR. BROOKS: Thanks, Rick. Jason?

13 MR. SCHRATWIESER: Thanks, I want to
14 reiterate some of the comments that I've heard
15 already.

16 A standard part of my job is game fish
17 identification and I'm surprised how hard people
18 have with tuna identification with pictures of
19 whole fish.

20 I think that just loins would be very

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1 difficult.

2 If you're going to go that route, I
3 would definitely suggest keeping frames somewhat
4 associated with those pieces so you could
5 identify those fish.

6 MR. BROOKS: Thanks. Rusty?

7 MR. HUDSON: Thank you. Normally,
8 we'd have Anna Beckwith here as our South
9 Atlantic Council liaison for the HMS.

10 We have completed recently a joint
11 amendment between the Dolphin-Wahoo Amendment 7
12 and the Snapper-Grouper Amendment 33.

13 I'll read the summary and just leave
14 it at that because Anna will get into the details
15 as the chair of all that, and Michelle: Allow
16 Dolphin and Wahoo filets to enter the U.S. EEZ
17 after lawful harvest in the Bahamas.

18 Specify the condition of any dolphin,
19 wahoo and snapper-grouper filets, described how
20 the recreational bag limit is determined for any

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1 filets, explicitly prohibited the sale or
2 purchase of any dolphin, wahoo, or snapper-
3 grouper recreationally harvested in the Bahamas,
4 specified the required documentation to be on
5 board any vessels to have these fillets specified
6 in transit and stowage provisions for any vessels
7 with fillets, and they got ID.

8 Now there's a lot of law enforcement
9 input but that's just for that little short jaunt
10 between the Bahamas and coming in in South
11 Florida.

12 MR. BROOKS: Thanks, Rusty.

13 Bob, did you want to fold in something
14 else?

15 MR. BOGAN: Just somebody said I'm
16 sorry if I didn't see who it was but it was
17 mentioned that it wasn't a burden really for our
18 guys but again, I just want to reiterate, three
19 deckhands, 40 sometimes 60 fish, sometimes more
20 between yellowfin and longfin.

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1 So it is a burden, we could be there
2 for hours and hours. We have three deckhands.
3 This is the common man's way to get out there and
4 fish for tuna.

5 A lot of guys can't afford to do it
6 otherwise, and they're being disenfranchised.
7 There's only a few party boats left doing this.

8 MR. BROOKS: Thanks, Bob.

9 So, just a good deal of reluctance but
10 it seems like some possibilities from whether if
11 there are some species that can be uniquely ID'd,
12 perhaps albacore, unique locations, the
13 Northeast, where they're just bringing in one
14 species, retaining the frame with loins, and
15 maybe using technology, photo ID.

16 Brad?

17 MR. McHALE: And I just wanted to be
18 clear, the Agency doesn't actually have any
19 formal proposal.

20 It was literally just to have this

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1 discussion, that quick brainstorming session, so
2 thanks everyone. I know tomorrow on the agenda
3 we do have the office of law enforcement.

4 We've been consulting with them like
5 we do on all these matters, so I suspect that
6 they'll have an opportunity to voice their
7 opinions on this matter tomorrow as well for the
8 panel to hear.

9 So thank you for your time.

10 MR. BROOKS: Okay, thanks everybody.

11 So let's go to public comment, and
12 again, this can either be general public comment
13 or comment as part of the public scoping of the
14 earlier conversation on the bluefin tuna, weak
15 hook and area-based management.

16 So I think we've got two people, two
17 or three people, one, two, three, all right. So,
18 why don't we start over here?

19 If you can just come up to the table
20 and get by a microphone? Pat, I missed your

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1 card. What's up?

2 MR. AUGUSTINE: The cookies are gone
3 so I guess I don't count anymore but that's okay.

4 MR. BROOKS: Are we that transparent?

5 MR. AUGUSTINE: I had some more but
6 I'm taking them home.

7 On the subject, I think our fishermen
8 on Long Island would some this filleting at sea
9 for tuna.

10 Again, I was a mate for 13 years and
11 I know what Bob is talking about when the mate is
12 going like a lunatic trying to make it back.

13 But I am concerned about making sure
14 that the rack of every highly migratory species
15 is on the boat.

16 And if the mate could go so far as to
17 label the bags of the fillets, boy, that would be
18 outstanding and I don't think there would be any
19 questions from anybody at the dock complaining
20 about it.

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1 But I think it would be a very
2 important -- quality of the meat itself is
3 improved probably 300 percent by doing them in
4 the fillet form. So, there.

5 Thank you.

6 MR. BROOKS: Thanks, Pat, and you've
7 got another evening to bake more cookies.

8 Okay, let's see, first speaker, do we
9 have a first public commenter up at the table?
10 Gentlemen over here, where did the person go?

11 There you go, once you take a seat and get
12 yourself to a mic. And just to all the public
13 commenters, we have the room until 5:30 P.M.

14 And we do have to get out pretty much
15 on time so I'd ask everyone to just keep their
16 comments to a couple minutes. Please?

17 And if you could start with your name
18 please?

19 MR. PEREIRA: My name is Charley
20 Pereira, I'm from North Carolina.

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1 I run a charter boat called the Sushi
2 out of Pirate's Cove Marina and also have been
3 writing on behalf of initially, individually
4 myself writing and speaking starting in 1996 at
5 an NMFS Silver Spring Meeting, attempting to get
6 a dedicated quote for bluefin tuna for North
7 Carolina at the time.

8 From that point, we transitioned into
9 the Winter Bluefin Association, which was largely
10 headed up by Pete Manuel and Rom Whitaker back in
11 the time.

12 And at some point there in the late
13 '90s, they asked me to start doing most of the
14 writing for them.

15 And then when Pete decided he wanted
16 out of it, he asked me to take his place as the
17 Executive Director of the winter bluefin
18 Association.

19 Subsequently, to better represent us
20 since we started catching fish into May and

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1 occasionally June, we renamed it the Southeastern
2 Bluefin Tuna Association and that also helped us
3 represent some of the people down in Hilton Head
4 and South Carolina that were catching these fish
5 also at the time, as well as people in Virginia.

6 So, my comments are basically as a
7 charter/headboat person, primarily with respect
8 to our participation in the General category
9 quota.

10 Brad and I have had a lot of
11 communication about this lately so he shouldn't
12 be surprised by most of it but some of you will.

13 I'm going to start from the beginning,
14 just in chronological with respect to the
15 presentations that I've seen this week. One,
16 Brad, there was a plot of the export versus
17 domestic.

18 I think some people may have said it
19 but I'd like to see that compared as a function
20 of the Yen to the dollar to see if there's any

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1 relationship there. I was curious about that.

2 The ice carrier requirement that I
3 heard about, I've always been told by my buyers
4 that a wise practice is one pound of ice for each
5 pound of fish.

6 I think it's a shame how some of the
7 quota gets treated like we heard other people
8 talk about, going out there just for the glory
9 and who cares about how you take care of the fish.

10 And that's reflected in some of the
11 people that didn't get any money back or got a
12 dollar or two dollars.

13 If there's any way that we could do
14 something regulatory-wise to prevent that from
15 happening via ice and care requirements, that
16 would also I think help some of the more dedicated
17 fishermen out by weeding out some of the
18 stragglers that don't take care of their fish.

19 I think I agree in particular with
20 NMFS getting involved somehow in the promotion of

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1 BFT in the USA as sustainable.

2 I think we've done more than probably
3 any country in trying to protect the bluefin
4 quota.

5 And so to the extent possible, a lot
6 of chefs view it as ten years ago there was a big
7 effort to get chefs to not carry bluefin tuna
8 because we were about to go out and catch the
9 last bluefin tuna.

10 I think we've shown that's not the
11 case and it would be nice if our Government could
12 help us promote otherwise. It might improve our
13 dollars per pound.

14 Let's see. All right, with respect
15 to the O'Neals fine, I think there needs to be
16 some looking at that too.

17 You know, \$1,000 fine for being two
18 days late, I talked to Sarah about that and she
19 says there's no excuse for that from her
20 perspective from having worked out in the

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1 industry.

2 But since that's who I sell my fish
3 through, I thought that was a little bit
4 surprising.

5 And looking at your plot, two days,
6 you know, getting a fish report from a fisherman
7 on a Saturday and having them report it on a
8 Monday I don't think cost you guys any timeliness
9 because I didn't know if you guys were counting
10 on Saturdays and Sundays as well.

11 But I was a little surprised by that
12 and I thought the penalty should fit the crime.

13 You know, if it didn't affect your
14 count or keeping track of the fish anyway, why
15 are they getting a \$1,000 fine?

16 With respect to there was one
17 discussion about one of our particular problems,
18 sharks biting off our fish and us not being able
19 to keep them, I think it would be relatively early
20 per my discussion with Sarah at one of the breaks

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1 to have -- you were going to let in Pirate's Cove
2 and other fish-houses, Sunset Marina, develop
3 relatively quick.

4 We could get you several 10,000 counts
5 of jaw-size versus fork length, as well as
6 another biologist over here mentioned something
7 about distance from the eye to the tip of the
8 nose, things like that that could very easily
9 establish a relationship between the leftovers
10 that we get after the sharks and allow us to get
11 back to the dock at lunchtime or 1:00 P.M. instead
12 of 4:00 PM, having to fish for whole fish.

13 I've heard something from Rich Ruais;
14 I talked to him before this Meeting.

15 He said it needs to be pointed out, I
16 didn't hear any conversation that, that ICCAT
17 wanted to give the US 2,500 metric tons or the
18 western TAC 2,500 and our country said, no, thank
19 you, we only want 2,350.

20 Basically gave away 150 tons, which is

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1 more than three times our base quota in North
2 Carolina. That pissed me off. I'd like to hear
3 something about that.

4 As somebody else mentioned, we should
5 be doing what ICCAT asked us to do, not go further
6 than that, respectfully, Shana over there.

7 I heard that the environmental portion
8 of the United States wanted it to be 1,000 tons
9 instead of 2,350. So, that was rather shocking
10 to me also.

11 Moving on to one of my bigger points,
12 from 2017 to 2018, the bluefin tuna quote
13 increased by about 214 tons based on the ICCAT,
14 yet, the North Carolina quota decreased in 2018
15 for the January to March fishery.

16 It went from 108 tons to 59 tons. The
17 2017 fishery also left 183 tons which should have
18 left us with 108 tons for carryover for this year.

19 We also know that we have 180-
20 something tons of purse seine to be carried over.

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1 And when you add all that up, my data show we
2 have about 506 tons of bluefins quote for NMFS to
3 play with and decide where it's going to go in
4 2018.

5 And yet, in North Carolina we got shut
6 down last week, right in the peak of our season
7 with a month to go because NMFS says that, as I
8 understand it, they're instead they're going to
9 have enough quota left to provide us with anymore
10 for this year.

11 I think 506 tons of playing with, we
12 should be able to get 50 tons, which is what I've
13 been asking for since December in writing and
14 verbally.

15 MR. BROOKS: Mr. Pereira, if I could
16 just ask you to wind down because I do have some
17 other people who want to get into the queue.

18 MR. PEREIRA: Okay, let's see, the
19 relatively new January to December bluefin
20 fishery as opposed to the old June to May 31

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1 fishery unfairly penalizes the January to March
2 fishery via delay in the reserve buildup, as well
3 as a delay in the calculations of underharvest
4 and pelagic longline dead discards.

5 It's another way that we get
6 penalized.

7 I'd like to see the dealer in the
8 boat-reporting compliance broken down into sub-
9 periods, states, and months so that we can see
10 exactly where the enforcement needs to take
11 place.

12 The slide that you showed, Brad,
13 showed 4,591 fish on the reporting slide versus
14 4,593 fish on the summary slide. That shows that
15 dealers reported 99.96 percent of the fish.

16 Seventy-six percent of those were
17 reported in under three days and based off that
18 and the slope chart that you showed, the slopes
19 on your catch-rate slide show that HMS can easily
20 predict quota achievement date via simple

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1 extrapolation of that slope.

2 And the dealer reporting delay history
3 within the statistical data that you have for
4 dealer-delay reporting history.

5 Thus, HMS can easily do a conservative
6 shutdown of bluefin tuna seasons with the
7 existing data, and then do a three-to-seven day
8 catchup calculation to see exactly where you are,
9 and then either leave it closed or re-open it.

10 And thus, in my opinion, enforcement
11 penalties and fines that you said are getting
12 ready to start increasing on dealers and
13 fishermen, should be minimal, and in measure to
14 the actual damage that was caused to the fishery
15 by the lack thereof, not just the flex muscles.

16 MR. BROOKS: Mr. Pereira, I'm just
17 going to jump in now and ask you to hold the
18 remainder of the comments, let the other folks
19 speak, and if they're not kicked out of the room,
20 I'll let you take another bite.

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1 Okay?

2 MR. PEREIRA: I was told that this was
3 public only and that I couldn't speak at any other
4 time. That's why I've been saving it for two
5 days now.

6 MR. BROOKS: Indeed, this is public
7 only, it's other members of the public I'm trying
8 to let get into the queue.

9 And I apologize if you missed the
10 public comment yesterday which is unfortunate,
11 but let me let some other folks talk here and
12 again, if we're not getting kicked out of the
13 room, we can get you back in.

14 MR. PEREIRA: No problem.

15 We've made that comment in the past
16 that there should be a little bit more than 15
17 minutes allowed for public comment at these.

18 MR. BROOKS: That's a fair comment,
19 thank you. I appreciate that. Who else?

20 I think there were two other people

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1 who wanted to get in. Please, if you could start
2 with your name?

3 MR. CROCKETT: Sure, thank you, my
4 name is Lee Crockett and I'm here as a member of
5 the public.

6 I'm going to limit my comments to the
7 proposal to modify the Gulf of Mexico restricted
8 areas. Some of you may know I was very involved
9 in the development of these restricted areas.

10 I've been involved with fisher management
11 in the U.S. for over 20 years in both the
12 Government and the NGO community.

13 And I have to say that this effort was
14 one of the most thoughtful, innovative,
15 collaborative and well-researched projects that
16 I was involved in. And it's working.

17 So, I'm frankly amazed that just three
18 years after it went into effect that NMFS was
19 suggesting they might eliminate or modify it.

20 First, the rationale for these restricted

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1 areas in the Gulf of Mexico, the reason for the
2 restricted areas in the Gulf of Mexico is that
3 it's a major spawning area for the Western stock
4 of Atlantic bluefin tuna. Protecting these fish
5 is critically important because they are the
6 large spawners, and the only reason they're there
7 is to reproduce.

8 As I mentioned earlier, the
9 restrictions are working.

10 According to the scoping document,
11 bluefin interactions have been reduced by 82
12 percent in the restricted areas since we were
13 implemented in 2015.

14 That is way better than we thought and
15 we could have hoped for when we were working on
16 this.

17 NMFS was very careful in citing these
18 restricted areas while we in the NGO community
19 were calling for a much larger restricted area
20 over a longer period of time.

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1 NMFS based on years of data zeroed in
2 on the months with the highest number of bluefin
3 in the Gulf and the geographic hotspots.

4 This was intended to minimize the
5 economic impact on the longliners while providing
6 protection for bluefin when and where it was most
7 needed.

8 While data in the scoping document
9 indicates a decline in swordfish catch in the
10 restricted areas compared to 2013, in 2014 the
11 catch of yellowfin tuna has increased by
12 according to my calculations 31 percent.

13 And yellowfin tuna historically has
14 constituted about 80 percent of the long-line
15 catch in the Gulf so that should help to offset
16 any swordfish, loss of swordfish catch.

17 I know also in the scoping document,
18 it makes no mention of the scoping provisions in
19 Amendment 7 that were designed to mitigate the
20 negative economic impact of the restrictions such

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1 as allowing to the restricted areas to vessels
2 using alternative gear-like green sticks.

3 As you know, research funded by the
4 National Fish and Wildlife Foundation showed that
5 green sticks offer great promise as an
6 alternative to longlines for catching tuna, and
7 we're very selective with very low discards.

8 And we actually have the PI for that
9 research in the room here.

10 Also missing from the scoping document
11 was any mention of the National Fish and Wildlife
12 Foundation's program, which uses BP early
13 restoration funds to pay longline fishermen not
14 to fish when they can't fish in the restricted
15 areas.

16 And the 10 longliners are
17 participating in that program right now.

18 The NFWF program also allows funds to
19 be used for the transition of longline vessels
20 into green-sticks.

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1 So, in sum, I urge you not to modify
2 or eliminate the Gulf of Mexico restricted areas.
3 They are working better than we originally
4 thought.

5 Any economic losses are offset by
6 increases in yellowfin tuna catch.

7 The opportunity to fish in these areas
8 with alternative gear and the financial resources
9 being provided to Gulf long-line fishing by NFWF,
10 as the old saying goes, if it ain't broke, don't
11 fix it.

12 Thank you.

13 MR. BROOKS: Thanks very much. I
14 think we had one other public commenter in the
15 room. Yes, please? Again, start with your name.

16 MR. LEAPE: Thank you, Gerry Leape and
17 on behalf of the Pew Charitable Trusts, I'll make
18 my remarks brief.

19 First, I want to support earlier
20 interventions by Panel Member, Shana Miller and

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1 Jason Schratwieser and the comments just made by
2 Lee Crockett.

3 Pew believes that form follows
4 function and we believe that this scoping paper
5 is premature and that the Amendment 7's three-
6 year review should be done first, the results of
7 which can inform any changes that may need to be
8 made.

9 However, if you do go forward with
10 this, I wanted to just have a few brief comments.
11 One is we believe Lee just was talking that the
12 Gulf of Mexico GRA has been successful.

13 In fact, more successful than
14 anticipated. The weak hooks have successfully
15 reduced bluefin tuna by catch.

16 But if shortened, it should be January
17 to June based on bluefin tuna presence in the
18 Gulf of Mexico.

19 With my ICCAT hat on, reopening the
20 Gulf is particularly concerning since it's the

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1 major-known spawning area of Western bluefin tuna
2 and would be inconsistent with the efforts of
3 U.S. and ICCAT to prevent targeting fishing from
4 resuming, which they have been working on for
5 more than two decades, despite consistent efforts
6 in recent years by Mexico to the contrary.

7 As we believe is true with the Mid-
8 Atlantic closure, if anything, we should consider
9 expanding the Gulf of Mexico GRA in time and space
10 to reflect the current broader distribution of
11 bluefin spawning in the Northern Gulf of Mexico.

12 Yes, the western bluefin tuna quota
13 went up this year at ICCAT but the projections
14 all clearly point when it's addressed again in
15 2021 that it could decline.

16 And lower quotas could be the case in
17 the very near future. So, it seems quite risky
18 to relax these controls now.

19 And finally, we would agree that the
20 IBQ gives accountability but NMFS has already

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1 acted twice to weaken the provision since they
2 went into force in January of 2015 from our
3 perspective.

4 So, we believe we need gear-restricted
5 areas too.

6 Thanks very much.

7 MR. BROOKS: Thanks, and I apologize
8 for the dismantling as we're talking.

9 Apparently it's real that we have to
10 be out of this room, but it's also really awkward
11 so my apologies to public speakers.

12 I actually mean that genuinely. Are
13 there any other public speakers here? Yes,
14 Glenn?

15 MR. HOPKINS: I will be very brief.
16 I don't have a dog in this fight but I have lots
17 of friends and neighbors that do. It's the
18 concern for the January quota for off of North
19 Carolina for bluefin tuna.

20 And for years, even while I was on the

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1 panel, I guess we've been fighting for 20 years
2 to get more quota for North Carolina.

3 The powers that be back then, you
4 know, the big players in the North, you know,
5 there's not much pie but as soon as we start
6 getting pie, then the first place it'll go is
7 North Carolina.

8 And so now I'm just asking for those
9 guys that are reasonable, say, just start off
10 with 100 tons for the year for that period, only
11 allow one fish a day, and whatever quota's left,
12 let it carry on to the rest of the General
13 category.

14 It's a really slow time in our area
15 and it really is a boost to the economy.

16 January, February, at a beach town,
17 you can imagine but it gets everybody jacked up
18 and gets everybody going.

19 So, I appreciate your careful
20 consideration on that, Brad, and thank you.

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1 MR. BROOKS: Thank you very much. Is
2 there anyone else who hasn't spoken yet that
3 wants to speak from the members of the public who
4 is not a Panel Member?

5 Charley, you wanted to finish up here?
6 And again, our apologies that there's so much
7 distraction here.

8 If there's any way to minimize that,
9 HMS Staff, we'd really appreciate it.

10 MR. BLANKINSHIP: Yes, can y'all take
11 a seat for just a second?

12 MR. BROOKS: And Charley, I will ask
13 you to be as succinct as possible.

14 As you can tell, we really do need to
15 be out of here.

16 MR. PEREIRA: I have just a couple
17 bullets left.

18 First of all, dating back to 1993, I
19 did as best I could to estimate it and talk about
20 it with Brad earlier.

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1 But my estimation is since 1993, in an
2 effort to prevent North Carolina from having
3 additional quota, the United States has left over
4 5,000 tons of General category bluefin quota on
5 the table unused.

6 And according to Brad's graph earlier,
7 I'll just use his \$6.50 a pound one, that's over
8 \$70 million left on the table that North Carolina
9 more than likely could have brought into the U.S.
10 economy, and especially our local economies down
11 there.

12 Seventy million because as I was told
13 in 1996, those are our fish, and I'll be damned
14 if we're going to give you any. So, that's my
15 main comment left over from that.

16 I thought it was interesting to see
17 the data that shows PLL boats getting \$4 a pound
18 versus you were showing \$6.50 a pound for the
19 Gen. cat.

20 And I'm wondering just for their

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1 benefit if maybe we could try to figure out why
2 that is.

3 Is it because in North Carolina we're
4 troll-catching most of these fish and we're
5 swimming them headfirst for 20 minutes as we've
6 been taught to get the lactic acid out of them
7 and get their color back before we go ahead and
8 kill them?

9 Is it a quality difference why they're
10 only getting \$4 a pound?

11 I think we should investigate that
12 just for, again, the value of the stock that we're
13 killing.

14 It would be best for our country to
15 try to figure out how to maximize that return.

16 MR. BROOKS: Okay, thanks, I've got
17 Staff in the corner here who absolutely need to
18 get into this room so I'm going to thank everyone.

19 AP Members, if you have any comments
20 on this last round, we'll take it up first thing

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1 in the morning.

2 Leave your tent cards here and AP
3 Staff will pick them up, and Randy, you had to an
4 announcement you wanted to make quickly?

5 All right, thanks everybody.

6 (Whereupon, the above-entitled matter
7 went off the record at 5:40 p.m.)

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