

UNITED STATES DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

ATLANTIC HIGHLY MIGRATORY SPECIES
ADVISORY PANEL MEETING

Silver Spring, Maryland
Thursday, September 5, 2019

1 PARTICIPANTS:

2 RANDY BLANKINSHIP,
3 NOAA Fisheries Atlantic HMS Management Division

4 BENNETT BROOKS, Facilitator

5 PATRICK AUGUSTINE
6 Recreational

7 ANNA BECKWITH
8 South Atlantic Fishery Management Council

9 RICK BELLEVANCE
10 New England Fishery Management Council

11 KARYL BREWSTER-GEISZ
12 NOAA Fisheries HMS Management Division

13 CRAIG BROWN
14 NOAA Fisheries Science Center

15 WYNN CARNEY
16 NOAA Fisheries Office of Law Enforcement

17 ENRIC CORTES
18 NOAA Fisheries Science Center

19 GREG DiDIMENICO
20 Garden State Seafood Association

21 MARCUS DRYMON
22 State Rep for Alabama
 Mississippi-Alabama Sea Grant

 RAIMUNDO ESPINOZA
 Conservación ConCiencia Inc.

 STEVE GETTO
 American Bluefin Tuna Association

 WALTER GOLET
 Marine Sciences and Gulf of Maine Research
 Institute

1 PARTICIPANTS (CONT'D):

2 JOHN GRAVES
Virginia Institute of Marine Science

3

4 MARCOS HANKE
Caribbean Fishery Management Council

5 DEWEY HEMILRIGHT
Mid-Atlantic Fishery Management Council

6

7 ROBERT HUETER
Center for Shark Research
Mote Marine Laboratory

8

9 STEPHEN IWICKI
Recreational

10 DAVID KERSTETTER
Nova Southeastern University Oceanographic
11 Center

12 BRAD McHALE
NOAA Fisheries Atlantic HMS Management Division

13

14 SHANA MILLER
The Ocean Foundation

15 KATIE MOORE
United States Coast Guard

16

17 ROBERT NAVARRO
Fly Zone Fishing

18 MICHAEL PIERDINOCK
CPF Charters "Perseverance"
19 Recreational Fishing Alliance

20 GEORGE PURMONT
Commercial

21

22 LARRY REDD
NOAA Fisheries Atlantic HMS Management Division

1 PARTICIPANTS (CONT'D):

2 LOREN RIMSBERG
NOAA Fisheries Office of General Counsel

3
4 KIRBY ROOTES-MURDY
Atlantic States Marine Fisheries Commission

5 MARTIN SCANLON
F/V Provider II

6
7 DAVID SCHALIT
American Bluefin Tuna Association

8 JASON SCHRATWIESER
International Game Fish Association

9
10 RICK WEBER
South Jersey Marina

11 ALAN WEISS
Blue Water Fishing Tackle Co.

12

13

14 * * * * *

15

16

17

18

19

20

21

22

1	C O N T E N T S
2	Reconvene
3	HMS Compendium Update
4	Stock Assessment Update for Yellowfin Tuna White Marlin, and Shortfin Mako
5	Bluefin Tuna Fishery Update
6	
7	Enforcement Update
8	Public Comment
9	Wrap-Up, Priorities, and Next Meeting Dates
10	Adjourn
11	
12	
13	* * * * *
14	
15	
16	
17	
18	
19	
20	
21	
22	

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

2 (8:31 a.m.)

3 MR. BROOKS: All right, if folks will
4 grab their seats, we'll get going here again,
5 thank you. Good morning everybody. If we can get
6 the AP members to their seats at the table, that
7 would be great, thank you.

8 All right, again, if we can everyone to
9 the table, Miss Sonja. All right, last call to
10 the table please. If folks can grab a seat.

11 All right, good morning everybody.
12 Welcome back and thanks for all the good
13 conversations yesterday. Let me just do a very
14 quick agenda review and then we'll see what AP
15 members we have on the phone. So, operator, if
16 you could take people off mute, that would be
17 helpful.

18 We think we will probably start with the
19 presentation from Larry Redd on the HMS Compendium
20 update, because Craig Brown is not here yet to
21 give us the assessment updates. So, we'll flip
22 that a little bit.

1 Following that, we'll get the assessment
2 update on yellowfin tuna, white marlin, and
3 shortfin mako. Then a break, and then we will
4 turn it over to the bluefin tuna fishery update.
5 And then, finally, we will finish up our
6 presentations with enforcement updates from OLE,
7 the Coast Guard, and HMS Division Staff.

8 Then we will turn to public comment, and
9 we will adjourn by 12 o'clock today -- I think
10 everyone is aware of that -- so the ICCAT meeting
11 can move forward. And that's the game plan.

12 I know we've got a couple of new AP
13 members here in the room today, so Shana is here,
14 I saw Sonja a second ago. Where did you go,
15 Sonja? Somewhere. Are there any other new AP
16 members here?

17 MR. BLANKINSHIP: Yeah, Marcos, and
18 Katie.

19 MR. BROOKS: Oh, Marcos is here too.
20 And Katie, oh great. Good, welcome, welcome.

21 All right, on the phone, AP members who
22 are on the phone, if you would introduce

1 yourselves so we know who we have online.

2 MR. HUDSON: Russy Hudson.

3 MR. BLANKINSHIP: Okay, Russy.

4 MR. CHILES: Gary Chiles, Director of
5 Parks & Wildlife.

6 MR. BLANKINSHIP: Great.

7 MR. FOSS: Kristin Foss, Florida Fish &
8 Wildlife.

9 MR. BLANKINSHIP: Great.

10 MR. BROOKS: Okay, I think that's it
11 then. Any questions from AP members, either on
12 the phone or around the table about the plan for
13 today. Okay.

14 And to folks on the phone, if you could
15 just be sure to mute when you're not talking,
16 that'd great. Thanks very much. So, with that, I
17 think we'll hand it off to Larry, unless, Randy,
18 there's anything you wanted to say up front.

19 MR. BLANKINSHIP: I'll just quickly
20 mention that I know that some of you -- I know,
21 particularly, Marcos -- and I don't know all the
22 travel issues for anybody else, but Marcos

1 persevered through a lot of travel issues to get
2 here, and I'm glad that he could. There were a
3 lot of canceled flights, probably due the
4 hurricane and stuff like that.

5 And I'll also just mention, of course,
6 we've still got those folks in the path of the
7 hurricane in mind, especially as it approaches the
8 coast there, and as effective Charleston, and
9 Myrtle Beach, and Morehead City, and Hatteras, and
10 all those areas today. So, keep them in mind.

11 MR. BROOKS: Larry, you're up.

12 MR. REDD: Well, it's early and I was
13 not expected to go first, but I just want to start
14 it off by saying, Hello, everybody. I'm usually
15 the quiet person that sits back there in the
16 corner (laughter).

17 My name is Larry Redd, and I'm here to
18 give what is going to be the greatest presentation
19 ever at the Advisory Panel (laughter).

20 MR. BROOKS: And, Larry, the key to
21 doing that, usually, is to really have those low
22 expectations right up front, so (laughter).

1 MR. REDD: Well, this is going to be the
2 greatest topic because I started doing this as a
3 fellow in 2016, and I'm still doing it now in
4 2019.

5 So, with that being said, let's talk
6 about history and the Compendium, shall we. I
7 know you all are sitting here eager to know this
8 morning, the purpose and need, and let's start it
9 off with, what is a compendium. Good question.

10 A compendium is a brief summary of a
11 larger work or of a field of knowledge. The
12 purpose of the HMS Compendium is to provide
13 history of, and rationale behind, existing
14 management measures for Atlantic HMS. Here, we're
15 going to go, and we're going to talk about the
16 history and everything, we're going to talk it up.

17 Currently, information on HMS Management
18 measures are scattered throughout multiple FMPs,
19 amendments, and other documents, such as inseason
20 actions, you know, all of the good stuff that make
21 us, us.

22 So, what is the objective of this

1 compendium? The objective here is to create a
2 reference document which will accurately provide
3 the history of existing Atlantic HMS measures.

4 What I am looking to do with this
5 document, I'm looking to consolidate information
6 from all of these FMPs and amendments. And, as
7 you all may not know, we have a lot of them, and
8 there's a lot of information in these FMPs and
9 amendments. So, I'm looking to consolidate that
10 stuff.

11 This document will be a living document.
12 This document will be updated periodically, either
13 annually, or biannually. And, I just want to note
14 -- and please write this down if you have a pen --
15 the compendium, this document, will not be a
16 substitute for regulations, nor would it describe
17 how to comply with regulations.

18 So, if you're on a boat, and I hope you
19 have this compendium with you. Just know that
20 this document is not the current regulations, and
21 please do not try to use this document as your
22 "get out of jail" card (laughter).

1 Just a little brief background on the
2 compendium. The compendium was introduced in the
3 spring of 2013, here at the AP meeting. It was
4 reintroduced in the fall of 2015 Advisory Panel
5 meeting, and now I am re-re-introducing it at the
6 fall 2019 meeting.

7 I know you are all eagerly trying to
8 figure out, you know, he's up here, he's giving
9 this presentation, this is so amazing, but he
10 hasn't gone into any of the structure of what this
11 document is; so, this document is broken down into
12 11 subsections.

13 What are these subsections? Let me
14 explain it to you. Don't worry, I'm going to tell
15 you.

16 We are going to start with the
17 introduction, and the introduction will focus on
18 the history of HMS, the history of management
19 objectives, and the history of the HMS Management
20 process.

21 We then will go on a journey to the
22 stock status, and stock determination criteria.

1 Here, we'll talk about the HMS stock status
2 determination criteria, and then we'll talk about
3 the stock status working groups that we've had
4 throughout -- well, before I came on, and just
5 throughout.

6 Here we'll talk about the shark
7 evaluation workshops, also known as the SEW.
8 We'll talk about the Southeast Data Assessment and
9 Review process. We'll talk about SEDAR. And
10 we'll talk about the ICCAT Standing Committee on
11 Research and Statistics; so, we'll talk about the
12 ICCAT SCRS.

13 We then will talk about the management
14 history of HMS fisheries. Here, you will find the
15 overall history of HMS fisheries by species and
16 complex. And here, we will also focus on the
17 details of major FMPs and amendments.

18 Before I started, I had no idea what HMS
19 was, and then I started in 2016, like I mentioned
20 earlier, and I found documents that source back to
21 1985 with the swordfish FMP. And I remember
22 saying to Karyl, "Karyl, this is a large

1 document." And she told me, "YES, IT IS!"

2 (laughter). You should scan it

3 into our computer and

4 That thing has been sitting on my

5 computer, and I read it sometimes and I say, oh my

6 God, what have I been doing for the last three

7 years.

8 We then will talk about the commercial

9 management, and recreational management measures

10 by species. So, here, we'll talk about the

11 different quotas, retention limits, seasons,

12 possession at sea, and landing; and restrictions

13 on sale and purchase.

14 We then will talk about charter/headboat

15 management measures by species. We'll talk about

16 gear type by descriptions since specific

17 management measures. So, here I will discuss

18 bottom longline gear, pelagic longline gear, to

19 management measures that have been associated with

20 those gears, and all the rest of our gears.

21 We then will talk about dealer

22 information, tournaments, international

1 considerations, and miscellaneous documents, or
2 miscellaneous items that I find to be interesting.

3 So, what this document is not: This
4 document does not include any new management
5 measures because we are always working, and it is
6 kind of hard to keep up with anything new. So,
7 there's nothing new, yet. Like I said, it will be
8 updated periodically, so we will get the new stuff
9 in there.

10 This document is not a compliance guide.
11 I just wanted to throw that back out there again.
12 And this document does not contain certain FMP
13 requirements, such as NEPA analysis, tables,
14 community profiles, IRFAs & FRFAs.

15 What is in the HMS Compendium? Well, I
16 got some good news for you. The HMS Compendium is
17 a compilation of information based on actions that
18 publish in a Federal Register, all the way back to
19 1975. And yes, I have read pretty much every
20 Federal Register Notice from '75 forward.

21 The language in the HMS Compendium can
22 be found in Federal Register Notices, as well as

1 in our FMPs and amendments.

2 So, here's just a quick example. I
3 figure since we are here at the Advisory Panel, I
4 should talk a little bit about the Advisory Panel
5 and provide a little bit of information for my
6 coworkers who may not know.

7 We have now, what's known as an
8 Operations Team. And I don't know if the
9 Operations Team know about the old Operations
10 Team. But here I am, Mr. History, and I'm going
11 to tell you guys (laughter).

12 With the implementation of the 1993
13 Shark FMP, NMFS created, what it was known as, the
14 Operations Team. And the Operations Team was
15 composed of members from the five regional fishery
16 management counsels, NMFS management and
17 scientific management personnel, and the ICCAT
18 Advisory Committee.

19 And the purpose of this Operations Team
20 was to monitor the shark fishery, and FMP, and
21 recommend regulatory adjustments for
22 implementation by the assistant administrator.

1 That is a lot.

2 With the 1999 FMP, the Operations Team
3 was dissolved. In 1997, the HMS and Billfish
4 Advisory Panels were created, as requirements of
5 the Magnuson Stevens Act. So, I just wanted to
6 throw out a little caveat, because I know from
7 talking with Rick Webber on the side, he usually
8 talks to me about the Billfish Advisory Panel, so,
9 I threw it up there for you.

10 The HMS AP was created to assist in the
11 collection and evaluation of information relevant
12 to the development of the HMS FMPs for tunas,
13 swordfish, and sharks, in any subsequent
14 amendments.

15 In 2006, the consolidated FMP combined
16 both the HMS AP, and the Billfish AP, into one
17 panel, which was called the HMS AP. And they were
18 to advise NMFS on all HMS issues, including
19 billfish.

20 So, here are the tentative timelines.
21 In 2020, please be ready and expect to get a
22 draft. With this draft, I'm looking to solicit AP

1 and public comment. In 2021, I hope to release
2 this final compendium, and update it as needed
3 with any information.

4 With that being said, it was fun giving
5 you the greatest presentation ever at the Advisory
6 Panel. And if you have any questions, you can
7 find me in that little corner, tucked back there.

8 Or, you can always send me an email, and
9 here's my email address. Or, you can feel free to
10 give me a phone call, at 301-427-8503. It's not
11 up here, but don't worry, I'll come to each of you
12 and shake your hand and give you my phone.

13 So, with that being said, thank you very
14 much (applause).

15 MR. BROOKS: Don't go anywhere yet,
16 because there might be questions. And also, I
17 think if you could just give the rest of the
18 presentations for the day (laughter), that would
19 be great. Questions for Larry on the compendium;
20 anything from folks. Rick?

21 MR. WEBER: At one point in our business
22 we decided we'd create a manual, and we spent

1 probably six months creating a manual. This is
2 coming to you, Randy.

3 At the end of the creation of that
4 manual, which was great, we agreed that we will
5 update it on a regular basis, and we did not. And
6 therefore, all of that time, all of that effort,
7 all of that good intent of a living document, went
8 nowhere.

9 Manager to manager, if you are not
10 behind the living document concept, this is going
11 to be something -- I don't want you guys to create
12 a monument. I like the idea, I like the ICCAT
13 Compendium. But it will take higher level
14 commitment that this is -- you know, this is a
15 passion, clearly, of Larry's (laughter).

16 But assuming Larry moves out of the
17 little corner in the side of the room, there needs
18 to be commitment from the organization that this
19 is something that you want, not something you're
20 going to let Larry do, but rather, that this is
21 something the organization wants. You get where
22 I'm going.

1 MR. BLANKINSHIP: I do, Rick, and thanks
2 for that comment. It's absolutely true. It
3 requires the commitment of resources to be able to
4 do it. And, obviously, a lot of times we have
5 hotter items that we're working on as a division.

6 And, as you've seen, this, as Larry
7 presented, has been going on for quite some time
8 prior to Larry taking the bull by the horns, and
9 carrying it forward at this point. And so, I
10 think that represents the commitment that we've
11 had to keep this going, even though it might not
12 have been on the front burner all the time.

13 But we've had folks working on over
14 time, previous Knauss Fellow to Larry. Larry is
15 no longer Knauss Fellow, but back then, we had
16 somebody else on it. Before that, we had a person
17 on detail that was on it. And so, it's going to
18 be something that we will continue to work on.

19 It has been extremely valuable already.
20 And I know that Larry in, as a matter of fact,
21 yes, in fact, he has read every HMS Federal
22 Register Notice, since whatever year you said it

1 was. And it's been amazing when we're having our
2 own discussions internally about, "what happened
3 with such and such with bluefin tuna back in the
4 70s and something something." And he'll say,
5 "Yeah, I think I can find that." And within
6 minutes, he produces it, and it's really pretty
7 amazing.

8 And so, it has shown it's worth, and
9 we'll continue to do that.

10 MR. HUETER: Bob Hueter, Marine Lab,
11 thank you, Larry, for the greatest presentation
12 we've ever seen. Quick question, I know NOAA is a
13 big Federal agency of faceless bureaucrats, that
14 sort of thing.

15 You guys tend not to put names into
16 documents like this but are names of individuals
17 going to be included in this, especially the
18 leaders that lead many of these efforts. The
19 names of people on teams and panels, and the
20 leadership within NMFS itself. Or, is this going
21 to be just nameless history, because it's people
22 that drive history, not titles and departments.

1 MR. REDD: So, currently there are no
2 names thrown in the compendium. What I've tried
3 to do with this document, anything that is in this
4 document, you can actually go and trace back.

5 I try to give the Federal Register cite
6 and date, and if you wanted to find out any of the
7 names, you can always go and find the names.

8 What I will say for a lot of the
9 information, the way that I found my research,
10 it's kind of difficult to try to track down these
11 earlier Federal Register Notices.

12 Typically, I would have to go onto the
13 Library of Congress, and then from there I would
14 need to know the exact cite, put in the cite, and
15 then I need to know the exact date for any action.
16 So, I have to go by date, by date, by date, by
17 date to find these notices.

18 I would love to be able to throw names
19 in, but I don't know if that's something that,
20 really, we can do at this time. It's really
21 something I would have to talk with Karyl and our
22 GC and figure out if names would be adequate

1 enough.

2 MR. BROOKS: Pat.

3 MR. AUGUSTINE: Great job Larry.

4 Question, will there be copies of this made
5 available, will it be updated on a regular basis,
6 or will it just remain in a database somewhere in
7 a storage room within the HMS Group.

8 MR. REDD: This document will be online.
9 If you want it published, I don't see why it can't
10 be published. The only problem with it being
11 published is it's going to be a living document.
12 So, if it does get updated, you may have the older
13 compendium but I'm pretty sure we could work that
14 out.

15 MR. AUGUSTINE: My concern was, again,
16 putting out a publication that just sat around on
17 desktops everywhere, as it did a year or two ago
18 when Margo talked about putting out a document of
19 what was going here, and I requested about three
20 cases of the stuff in 20 weight paper, so I could
21 wrap them and use tie-ties on them, and use them
22 for logs in my fire.

1 No, I'm serious about it because what
2 happens in most cases, as you all know, a lot of
3 publications are made, had been made, and they go
4 in a storage room somewhere, never requested and
5 they'd be thrown out as just wasted paper.

6 I'm glad to hear that that this is going
7 to be in a data set that we can access at any
8 time, and I think that's an important move. And
9 you did a great job on this, Larry, so, keep it
10 up.

11 MR. BROOKS: Thanks Pat. Any AP members
12 on the phone have any questions?

13 OPERATOR: The phone lines are open.

14 MR. BROOKS: Okay, thanks, Operator.
15 The AP members on the phone, any questions? Okay,
16 David.

17 MR. SCHALIT: Just a quick question,
18 have you ever considered an alternative career in
19 stand-up comedy?

20 MR. REDD: So, at one point, I wanted to
21 be a stand- up comedian (laughter), and then I
22 gave a joke that wasn't really funny. It was

1 funny to me, but it wasn't funny to the people in
2 the room, and I was just like, yeah, I think I'll
3 go with fish instead (laughter).

4 MR. BROOKS: Okay, any other questions
5 for Larry? If not, Larry, thank you very much. I
6 appreciate it.

7 MR. REDD: Thanks Bennett.

8 MR. BROOKS: All right, well, Craig, if
9 you dare (laughter), come on up. So, again, Craig
10 is going to give us stock assessment updates on
11 yellowfin tuna, white marlin, and shortfin mako,
12 and I think the plan will be to maybe take --
13 Craig, do you want to take questions after each
14 update?

15 MR. BROWN: That's fine, yes.

16 MR. BROOKS: Yeah, okay, great.

17 MR. BROWN: Well, it's always tough to
18 follow the greatest presentation ever (laughter),
19 but I'll try. Larry, sorry to surprise you and
20 get you up first this morning.

21 If it's any consolation, I had looked at
22 the agenda where it said Science Center Staff and

1 shortfin mako was on the list, and I assumed Enric
2 would be presenting that, and so I find this
3 morning that Enric was assuming that I was going
4 to be presenting that. So, I've been --

5 MR. BLANKINSHIP: So, this is a
6 well-rehearsed presentation (laughter).

7 MR. BROWN: Yes. So, with that step up,
8 you know that this is going to be the second-best
9 presentation ever (laughter), but we'll see. I
10 don't know. Enric is online, so we'll have to
11 see. I'll present this first, and either he'll
12 have something or maybe we can put something
13 together for later if we can squeeze it in today.
14 But we'll start off with white marlin.

15 The white marlin assessment was held, we
16 actually had two meetings this year. First, a
17 data preparatory meeting, and then the assessment
18 meeting in Miami. And I'm giving an abbreviated
19 version here of a talk that I'll give in greater
20 detail this afternoon. Apologies, to those who
21 are on the IAC as well, for having to endure this
22 twice. I'm going to start off with one of the

1 issues that we spent a lot of time about both at
2 the data prep, and at the meeting. As we've
3 mentioned earlier, I think, in the meeting, there
4 are few countries that report on discards at all,
5 and certainly the dead discards of white marlin.
6 There are only a few countries that are currently
7 reporting only six, and that's only recently that
8 some of those have started reporting. So,
9 especially if we're used to the U.S. longline
10 fishery, where there's no retention allowed, no
11 sale, we would expect there to be quite a few
12 discards, and some of those would be dead.
13 Something to consider, though, is that other
14 countries generally allow the retention and allow
15 the sale of marlin, so our expectations of that
16 high rate may be a bit higher than the reality of
17 what there is. And so, we attempted to get
18 reports from the Observer Program as to what the
19 scientific observers were seeing, but we only had
20 one country -- well, two -- I mean, I did report
21 to myself what the U.S. Observer Program was
22 saying. But it doesn't really apply because not

1 only do we report, but we would, as expected,
2 would have a much higher rate than everybody else.
3 And, that was from Portugal, and they had a
4 relatively low rate of maybe about two to three
5 percent that would be discarded dead of their
6 catch in the years for which they had data. And
7 so, the Secretariat did an exercise where they
8 looked at the countries, the six countries --
9 well, the five countries, other than U.S., because
10 ours is a different rate, to see what fraction of
11 their catch was reported as being discarded dead.
12 And it was relatively low, between zero and 2.4
13 percent. So, there was an average applied to the
14 non-reporting nations to increase their catch for
15 the purposes of the assessment. And the warden
16 group decided to go forward with those estimates
17 included. This is a history of what's in the
18 ICCAT data base of landings. As you can see,
19 historically, in the '60s there was a high peak --
20 I don't know if there's a pointer?

21 MR. BLANKINSHIP: I can get you one.

22 MR. BROWN: But there was a period of

1 high landings until we had a series of measures
2 put in place to try to reduce the catch.

3 And in the late 1990s when we see a
4 decline, and it's been relatively stable, maybe
5 declining slightly, in recent years at around 500
6 tons, between 4 and 500 tons. There's a TAC of
7 400 tons, but that's been exceeded, if not always,
8 most of the time in the recent years.

9 We used two different types of
10 assessment models to do the assessment. I won't
11 go into a lot of detail, and maybe even this is
12 too much, but the first is stock synthesis, which
13 is a fully integrated link-based age structured
14 model.

15 So, essentially what that means is it
16 has the ability to look at a wide variety of data,
17 the link frequency data, even age data if you had
18 it, as well as indexes and so forth, and it finds
19 the best fit across the various sources of data to
20 explain what the stock has been doing, over the
21 past years that it's been exploited.

22 The other is something called JABBA, and

1 the coincidence is intentional if you go to Star
2 Wars, but it really has nothing to do with what
3 the model does.

4 It's a type of surplus production model,
5 and surplus production models, one of the basic
6 properties of that is that it looks basically at
7 the total catch taken from the stock over the
8 effort, made relative to the effort -- and this is
9 the standardized effort over time, in its
10 simplistic form.

11 This particular one is a little more
12 sophisticated, or much more sophisticated than the
13 very basic surplus production models, and it
14 applies a Bayesian approach.

15 And, just briefly, Bayesian is a type of
16 statistics, unlike the normal frequentist you're
17 used to seeing. It basically allows us to put up
18 prior assumption on the distributions of the
19 various parameters that go into the model based
20 on, hopefully, data that we've done, studies, to
21 kind of pin it down, or educated guesses as to
22 what the range would be.

1 And then fits across all the data again,
2 to produce a distribution of those parameters
3 after the fact that is consistent with the data
4 that's put in.

5 So, basically, they were structured to
6 be comparable in what they were assuming about the
7 life history parameters between the two models.
8 And a lot of that was hammered out at the data
9 prep meeting.

10 We had a number of standardized CPUE
11 series for indexes of abundance all fishery
12 dependent that were available that passed the
13 initial review at the data prep. And they're
14 grouped somewhat by gears and trends.

15 We have two indexes of abundance. One,
16 the longest, is from the USA tournament data, rod
17 and reel, and the other is from Brazil. They have
18 a rod and reel survey. And they are both somewhat
19 increasing in recent years.

20 On the right we have the longline from
21 Brazil and the USA, and they also could be seen as
22 having a little bit of an up-tick in recent years

1 compared to the early period, although it's hard
2 to see here. But it's a bit contrasting from what
3 we have from the Chinese Tapei, and Japanese
4 longline series.

5 These are broken in the middle because
6 they changed methodology, and that couldn't be
7 accounted for in the standardization.

8 And finally, we have the longline from
9 Spain and Venezuela, and Gillnet. These have a
10 little bit stranger trends. The Spanish index
11 does this jump like it thinks it's superman at the
12 end, and that index was only used in
13 sensitivities. It didn't form part of the
14 assessment advice.

15 What I'm showing here is a comparison of
16 the U.S. Rod and reel index and the longline
17 index, and the reason I'm showing it is, during
18 the blue marlin stock assessment there was a lot
19 of discussion about whether it was appropriate to
20 use the rod and reel index, even though it had
21 been used historically, because it was argued that
22 there had been changes over the years to improve

1 the fishing power, to improve the efficiency to
2 increase the catchability of fish by the changes
3 in the vessels, the ability to range further, all
4 their fishing gear and so forth.

5 None of which is available in the data
6 set to help standardize it, and so, that's a very
7 reasonable argument and it carried the date during
8 Blue Marlin in that index wasn't used. So, we
9 revisited the discussion for the white marlin
10 assessment.

11 Part of the argument was, "Well, we
12 should be consistent, and we didn't use it for
13 blue marlin, why should be use it white marlin?"
14 But the group, in looking at it anew, couldn't
15 really find a solid reason to not use it, and left
16 it up for the assessment meeting to decide. And,
17 this is part of the human input in this process,
18 that they reached a different decision and decided
19 to use it.

20 But, at some point during the meeting, I
21 plotted these two together and you can see that
22 it's hard to say that the blue, which is a rod and

1 reel, is increasing with an unstandardized CPUE
2 that's artificially increasing because we can't
3 account for that, compared to the longline. In
4 fact, many times they're going up and down
5 together.

6 So, there are a lot of explanations for
7 this since this longline index is coming from the
8 Observer data, which we think, from all we can
9 tell, that this is the best standardized index of
10 all of them, that either the fishing power of the
11 vessels engaged at the tournaments hasn't
12 decreased anywhere near as much as we were
13 thinking when we were discussing it at Blue
14 Marlin.

15 Or, another possibility is that what's
16 driving these indexes is less the overall
17 abundance of the stock, than the availability
18 within the region that these indexes cover. That,
19 perhaps, some are more available, and others,
20 there are less, and that's why they're going up
21 and down together.

22 It's one of those things, you know,

1 perhaps future research will tell us. But, in any
2 event, it doesn't demonstrate a strong argument
3 that we had to discard the rod and reel.

4 Jump to the end result, if you look at
5 the results from the various final base cases for
6 each model, we had a couple of different
7 alternatives for the stock synthesis, one for
8 JABBA, the surplus production, and it ends up with
9 this with clodda point scale, with cintrotin you
10 see around here.

11 These, where you see on the margins,
12 this is the distribution of each model in terms of
13 the relative biomass. So, here we would have the
14 goal to be for B to be at or above biomass over
15 biomass MS, that produces MSY.

16 And on this axis going up, you want to
17 stay below this line, and these are showing that
18 the fishing mortality rate relative to the fishing
19 morality rate that would produce MSY is lower.

20 So, that means that these estimates are
21 saying that currently, or as of 2017, which is the
22 last year of the data, the stock was not

1 undergoing overfishing; but it was, however,
2 overfished, and fairly substantially overfished.

3 And these results are fairly similar to
4 what we got at the last assessment sometime ago
5 for white marlin; maybe a little bit better.

6 And if we look at the projections, now,
7 you may be familiar with the Kobe Strategy Matrix
8 that we provide managers, which essentially says
9 that if you are to fix the TAC at a certain catch
10 level and carry it forward through time, what
11 would be your probability of ending or
12 overfishing, or keeping it in the greens area, and
13 what would be your probability of rebuilding, or
14 keeping the biomass in the green area.

15 So, the way we did it is we project,
16 with all the uncertainty incorporated so we get a
17 range of values, what the stock is doing into the
18 future at different catch levels.

19 And so, on the left we have -- this is
20 the relative biomass, on this vertical scale
21 projected forward through time, and we're seeing
22 it's projected for 2019, but we really assume for

1 all the scenarios that it's carried over the catch
2 that was reported for 2018 -- actually, it was
3 2017 carried over for both 2018 and 2019, which is
4 458 tons.

5 So, there's a big assumption but that's
6 why these don't deviate until 2020, which will be
7 the first year that the commission could take any
8 action anyway, or to implement any recommendation.

9 So, these given lines are the different
10 alternative levels of catch TAC moving forward,
11 and they represent the median, or the central
12 tendency, of all the results.

13 The red on the top is, if you shut down
14 the fishing altogether somehow, and didn't take
15 any more white marlin, then you'd expect the
16 biomass to increase following this line. So, it
17 would end being overfished by less than 2022,
18 which is pretty good from coming from something
19 that's .6 or .7, I think.

20 And then the most extreme was 1,600 you
21 see some decline, but it does suggest by the end
22 of this period, or even by as early as 2025 or

1 2026, that a catch as high as -- see this is
2 1,600, 1,400, 1,200; as high as 1,000 tons would
3 still recover the stock. And 1,000 tons would --
4 so, here you have the Relative F, and you want to
5 end up below this line, in this case.

6 So, this is saying that the 1,000 tons,
7 you would never be undergoing at overfishing into
8 the future.

9 Well, that's great news. That's a lot.
10 It would really allow the catch to go up, and you
11 know, we don't have anything against great news.
12 That would be wonderful. But the scientific
13 process is intended to be one of skepticism, and
14 so, especially when you see something that looks
15 too good to be true, you're skeptical and you want
16 to look into it.

17 And as an explanation for at least one
18 of the reasons we're skeptical about this; you can
19 look at the same Kobe plots individually by the
20 models, and layover it the median or average
21 estimate of the stock status over time.

22 And so, what we see here with this line

1 is something that is a stock that's pretty much
2 behaving more or less as you would expect.

3 It starts out in an unfished state with
4 a biomass that's more than twice the biomass you
5 would need to sustain MSY. And as it goes up,
6 that means there's more fishing mortality rate
7 being applied relative to the FMSY.

8 As it goes up, it starts to move to the
9 left as the biomass drops; the relative biomass
10 drops and eventually it gets to a state where it's
11 above FMSY for a while, continues to decline, the
12 fishing mortality rate drops down, it's still
13 declining though because it's not at the automat
14 surplus of BMSY, and it goes into the red as the F
15 is maintained above, and well above, up to three
16 times the FMSY. It goes well into the red of the
17 low biomass, and very high Relative F.

18 And then, it does something that's maybe
19 a little different, is that the F stays high and
20 slowly comes down, as you see -- remember the
21 catches, the catches came down with the
22 application of the management.

1 And the F does down slowly, the biomass
2 -- because this is almost vertical -- the relative
3 biomass isn't changing, and you could see that
4 from those earlier plots that for quite some time
5 the biomass has been the same, or maybe very
6 slightly increasing.

7 So, why was it suddenly stable after
8 doing as you expect, and declining with the high
9 Fs, and you see the same thing -- you know, these
10 are very much the same thing if you apply the
11 stock synthesis, this is one of the final models,
12 and the other just shows more or less the same
13 thing.

14 If we were to project forward at the
15 same catches we've seen more or less that between
16 4 and 500 tons, in the future we see in these
17 projections, the stock is suddenly going to
18 rebound and quickly get better, even with more
19 than double the catch it gets better in just five
20 years; so, what's going on with that.

21 Basically, what's going on, among other
22 things, is the stock synthesis, when you project,

1 assumes that the recruitment you're going to see,
2 the supply things, is going to be off the normal,
3 off the usual stock recruitment relationship. But
4 the stock synthesis is estimating that for all
5 this time, recruitments were very high.

6 So, even though F was high, the stock
7 was able to stay where it was because the
8 recruitments were abnormally high.

9 Sorry, I'll have to go back, because I
10 may have that backwards, but, yeah, they were
11 abnormally low because -- anyway, it shifts in the
12 future to higher than we've observed.

13 And the JABBA model has something called
14 Process Error, which could be a difference in
15 recruitment, which it can't account for, or catch
16 reporting that changed, or indexes of abundance
17 which haven't been properly standardized; any
18 number of things. But, moving forward, suddenly
19 all that's wiped out, and it says that the stock
20 is going to just increase.

21 So, because of all that, we're saying
22 ignore these projections and ignore these Kobe

1 Strategy Matrixes. What you need to do is --
2 these may be overly optimistic, so you should
3 interpret those with caution.

4 In fact, we need to stay with the same
5 TAC that we've had. And, in fact it's been
6 exceeded a number of times, and the more you
7 exceed this, the slower the rebuilding would be,
8 or you could even have further declines.

9 Because of all the concerns about the
10 completeness of the removals, we want to ensure
11 that the monitoring and reporting is complete,
12 including live releases. We talked about this
13 yesterday; that that's appropriate, accurate, and
14 complete. We talked about recommending that
15 estimation methods be implemented to estimate the
16 discards.

17 Also, we want to include in that fully
18 accounting for artisanal, and all recreational
19 fisheries, sound familiar?

20 So, this is what we are recommending
21 coming out of the group. We'll see how much of
22 this survives the plenary session to move on to

1 the commission.

2 Whoops, so I've managed to hit a button
3 that increases this (laughter), okay, here we go.

4 And so, yeah, stay within the TAC. And
5 in order to avoid exceeding the TAC, as has been
6 done, the commission should require that all
7 Marlins that are still alive at haul- back -- and
8 again, as you saw earlier, this is almost all
9 longline -- be released in a way that keeps them
10 alive.

11 And the use of circle hooks should be
12 mandated. Research has shown that that use of
13 circle hooks results in a reduction of their
14 marlin catch rates, and haulback mortality.

15 So, that's all there was. I spent a
16 little more time on this, but if there are any
17 questions? I'm not sure how much time we have for
18 that.

19 MR. BROOKS: Let's take a couple of
20 questions right now, and I will just hold it to a
21 couple, just so you can get through all the
22 assessments, and then if we have some more time at

1 the end, we can double-back. Questions? Rick.

2 MR. WEBER: Craig, the operating
3 assumption is it's one stock. Is there any --
4 I've got two questions for you actually.

5 One is, is there any ability -- I don't
6 know one stock to multiple stocks; I feel like we
7 have gotten a benefit, a localized benefit, from
8 our conservation measures, and I don't know how
9 that fits into a one homogenous stock concept
10 because I feel sometimes that's where the fight
11 is. If it's all one homogenous stock, how come
12 they're not seeing it over there. And it may be
13 one stock, but I've never felt like it was one
14 homogenous stock.

15 And two, you and I go back and forth on
16 the science and the trustworthiness, but there are
17 miscellaneous billfish categories that I was
18 curious whether there was any consideration of the
19 BIL, you know, that went into white marlin.

20 And while you were talking, I'm playing
21 here in Task 1, Spain suddenly in their longbill
22 spearfish in 2017 jumped from 24 tons to 273 tons

1 of longbill spearfish that was probably not
2 longbill spearfish.

3 What is the assessment process? Do you
4 guys actually look at each other and kind of go,
5 "Nah, it doesn't seem rational."

6 MR. BROWN: Well, there's a lot of
7 research recommendations as well from this meeting
8 and others from earlier meetings that I haven't
9 gotten into here. And certainly, species ID is
10 understood to be an issue.

11 Things have gotten better over time but
12 one of the biggest is the separation of white
13 marlin and roundscale spearfish. Essentially,
14 we're treating them together because we don't know
15 how much of the white marlin is actually
16 roundscale, and so forth.

17 And, so, yes, when we go through, it's
18 particularly a focus. And in the data prep, we
19 try to get to our best estimates, not necessarily
20 just what's reported, of the stock.

21 And with respect to your question about
22 the stocks, the concept of a stock is, basically,

1 what is the unit which should be managed together.
2 It doesn't mean, necessarily, in fact, there's no
3 real-life example, unless you're talking about a
4 pond where there's immediate mixing of everything,
5 of what you do on one side of the area immediately
6 has an effect throughout.

7 There have been discussions, in case of
8 skipjack, of viscous properties of the stock,
9 meaning that you can have local depletions that
10 are felt, have an effect on the fishery in that
11 area, even though stock-wide, things may be okay.

12 I'm not saying whether or not that's the
13 case here for white marlin, but it certainly is
14 consistent with the idea of Atlantic-wide stock,
15 but that doesn't mean more research to help pin
16 that down is not worthwhile.

17 MR. BROOKS: Thanks. I can't quite tell
18 if that's Kirby or Marcos. Marcos?

19 MR. HANKE: Following up with Rick's
20 point is, it's very interesting to me that with
21 the white marlin we are not making any attempt to
22 include Dominican Republic tournaments and

1 activities for the white marlin.

2 There are specific tournaments in there
3 that catch a lot of white marlin in the Dominican
4 Republic, and there are historical participants
5 that go there. Many different groups,
6 international groups, that organize tournaments in
7 the Dominican Republic that I think is something
8 that if we work a little bit, we could get some
9 data for you guys to work on it.

10 I think that is there. There are some
11 historical records of that. We just have to
12 contact those people.

13 And there is a study for sailfish made
14 in Guatemala that include the number of raised
15 fish and different, other things, that produce
16 some interesting numbers for Guatemala sailfish.

17 Something like that should be explored
18 in the Dominican Republic. That's my point, and
19 that will address some of the questions and points
20 that Rick brought to the table about how localized
21 the stock are and the things that we don't know.

22 MR. BROWN: I think that's a fair point.

1 I should point out that our recreational billfish
2 survey historically is now part of a larger
3 database, but it still could be considered as a
4 separate entity moving forward.

5 The tournament survey includes
6 tournaments that are not based in the U.S. I
7 would have to look to see if, possibly, we have
8 included that, at least sometime in the past.

9 But, because U.S. anglers participate in
10 tournaments that are in different places
11 throughout the Caribbean, for example, we've tried
12 to work with those tournament operators and
13 include that data. But maybe I can find out about
14 that this morning and let you know.

15 I'm not familiar with that tournament
16 being in there, so I suspect it might not be. But
17 there's no reason that we couldn't include it,
18 particularly, if there are U.S. Anglers
19 participating, which I suspect is the case.

20 MR. BROOKS: Thanks, let's push -- oh,
21 Fly, let's get you in and then Alan, your card is
22 back up?

1 MR. NAVARRO: This is just a real quick
2 statement. I put on one of those tournaments in
3 the Dominican Republic, and we do report back to
4 you.

5 MR. BROWN: Okay.

6 MR. NAVARRO: So, all that information
7 should be in your database.

8 MR. BROOKS: Thanks Fly, Alan.

9 MR. WEISS: Thanks, you mentioned that
10 you think the most dependable time series for
11 determining the stock abundance is the U.S.
12 Longline time series. And, you also mentioned
13 that the catch rates on circle hooks are lower,
14 according to research that's been done.

15 So, my question is, has an adjustment
16 been made to the CPUE time series to account for
17 the change from J-hooks to circle hooks in the
18 longline fishery?

19 And if not, is it possible that the use
20 of circle hooks, the decline in catches since the
21 advent of circle hooks in that fishery, is masking
22 more of a recovery.

1 MR. BROWN: Thanks, that's a good
2 question. To clarify, I didn't actually say that
3 the U.S. longline was the best representation of
4 the abundance of the stock, but rather, that it
5 was the best standardization of the indexes,
6 meaning that we've taken the factors, like the
7 largest number of factors that could have
8 influenced the catchability, collected by
9 scientific observers, and incorporated that into
10 the standardization.

11 It being reflective of the abundance
12 includes other assumptions, like, whether the U.S.
13 Area is reflective of the overall stock, and so
14 forth, other things.

15 As to the circle hook issue, yes, that's
16 been accounted for in the standardization. That's
17 one of the reasons it's one of the best
18 standardizations because we have data like this,
19 including over time the shift from J-hooks to
20 circle hooks, and enough that allows us to
21 incorporate that factor in the standardization and
22 account for that.

1 MR. BROOKS: Thanks, I think Jason on
2 the Webinar has a question. We'll take that and
3 then we'll shift to Atlantic yellowfin tuna.
4 Jason.

5 MR. SCHRATWIESER: Thanks, can everybody
6 hear me?

7 MR. BROOKS: Yep.

8 MR. SCHRATWIESER: Apologies for not
9 being able to be there. Thanks for the
10 presentation. I missed some of it, Craig, but I
11 jumped in during the projection.

12 I'm just kind of curious about this
13 because the company projections from the last
14 assessment were much, much more pessimistic than
15 what's being shown here. And, how do you
16 reconcile that?

17 MR. BROWN: Well, it's basically related
18 to what I was mentioning before, which is that the
19 model can't say exactly what's going on since the
20 late 1990s in the response of the stock to the
21 reduction in catches, where it's not been
22 increasing.

1 But whatever is going on to hold the
2 stock, to keep the stock from declining further at
3 458 tons -- or rather, increasing at 458 tons --
4 when you would have expected it to increase, in
5 the projections moving forward, it would start
6 increasing.

7 So, there's different alternatives. One
8 is -- and you know, now that I'm trying to think
9 on the fly -- but yes, the stock synthesis is
10 saying, the reason why as catches have reduced the
11 stock hasn't increased in biomass, is because for
12 the past 20 years, recruitments have tended to be
13 lower than average.

14 But when you project forward, it's the
15 projection software considering that moving
16 forward you're going to have an average
17 recruitment based on the relationship, the stock
18 recruitment relationship. And that hasn't been
19 happening.

20 So, the idea that, coincidentally with
21 changing your management this year because we had
22 an assessment, suddenly recruitments going to

1 change, is a bit of a leap.

2 And so, I can't recall what the
3 situation -- you know, a number of factors can
4 influence things; what was stock synthesis showing
5 the last time for the relationship. But I know
6 the assessment included ASPIC, which doesn't have
7 recruitment in it at all, and doesn't have the
8 process error that JABBA has, which is effectively
9 doing the same thing.

10 It's saying that something has been
11 going on in the past 20 years that has held the
12 stock down. But when you project forward, we're
13 going to assume that that goes away, whatever it
14 was.

15 So that's why things are jumping up.
16 But we're really skeptical about it, and I'm not
17 sure that the inclusion of the strategy matrixes
18 that would come out of these projections is going
19 to survive plenary. It may be that since we're
20 not supporting their use, maybe we shouldn't even
21 pass them along. That's my opinion.

22 MR. SCHRATWIESER: Thanks Craig.

1 MR. BROOKS: Thanks Jason. All right,
2 anyone else on the Webinar have a question right
3 now? Okay, if not, Craig, let's move into
4 yellowfin tuna.

5 How many folks in the room are going to
6 want to make public comments at the end of today?
7 Okay, so I think we can definitely borrow some
8 time from that. So, I think if you can hit this
9 one about 15 minutes, or so; 10/15?

10 MR. BROWN: So, I'll spoil the plot a
11 bit on this as well, in saying this may be another
12 case of too good to be true, but we'll see.

13 We certainly had high hopes for this
14 year's stock assessment because we had a new index
15 develop the same way that we did for bigeye, which
16 was to get the major longline fleets scientists
17 together pull the data and calculate a single
18 index of abundance covering all those fleets.

19 So, we had much broader coverage,
20 ocean-wide coverage. We could look at different
21 regions and standardize it in the same way. So,
22 we didn't have this problem of indexes conflicting

1 with each other, which give the models fits.

2 And, in the case of bigeye, this
3 resulted in a much better behaving assessment
4 model than we've seen before, and we had a lot
5 more confidence in the results. So, we had high
6 hopes from that perspective.

7 We had a few other things as we move
8 here that looked positive as well, and maybe they
9 were. We can all be the judge.

10 This is the history of catches for
11 yellowfin, and one of the things that had us
12 coming into this meeting expecting the worst
13 release -- maybe not the worst, but not
14 particularly good news -- is that we had
15 recommended a TAC of 110,000 since 2012 when it
16 was adopted, but it's been exceeded, as you can
17 see, in the most recent years. The status was
18 already on edge, so we were concerned what that
19 would be doing to the stock status.

20 These values, actually, where it's been
21 exceeding the TAC were lower at the assessment
22 meeting than we've previously reported because the

1 Ghanaian catches were revised with some further
2 analysis to separate by species and size.

3 The blue showed where we thought the
4 yellowfin had been as of 2018, but for this year's
5 work you can see there was a reduction. This is
6 the new estimates for this period; there's a
7 reduction. The overall catch of yellowfin was a
8 little bit lower, historically, in recent years
9 than we thought it was. I alluded to some new
10 data that we had that we think was really going to
11 help us out. This is a study coming from the U.S.
12 It's using data that we've collected from various
13 fisheries from the otolith of yellowfin, and
14 there's a new validation on the accounts of the
15 rings to confirm what is that has a yearly
16 periodicity, confirmed using the radiation, that
17 the isotope levels caused by the radiation from
18 the bomb test. And so, we have some really solid
19 science to back up that these are actually annual
20 rings that are being counted.

21 And we have a huge sample size, larger
22 than anything that's been available for, and this

1 shows you the various data. This includes some
2 sources from Ascension Island, which is being done
3 by a completely separate group.

4 One of the big takeaways is that both in
5 Ascension Island, and in the U.S. where we saw
6 several cases of this, there was a maximum age
7 observed of 18. Previously we had assumed 11
8 based on our conventional tag recapture data. So
9 that's a big change. These fish are living a lot
10 longer than we thought they were, and they're
11 growing a bit differently.

12 So, this has implications for natural
13 mortality. If they're living to be 18 instead of
14 11, then your natural mortality can't be quite as
15 high as we were assuming because too many of them
16 would have died off for us to be able to observe
17 them at 18.

18 So, this is our calculation. You don't
19 need to really get too concerned about the values
20 here, but we're assuming that there is higher
21 natural mortality when they're very young, and
22 that drops off as they get older and have less of,

1 for example, predation. But overall, this natural
2 mortality rate by size, by age, has been reduced
3 from what we assumed before.

4 These are indexes that passed the review
5 and were available for use. So, we had the Joint
6 Longline Index, which is up here, by different
7 areas. You can see there was an overall decline,
8 perhaps, in the one region here coming up a little
9 bit.

10 We had two new indexes, which a bit
11 unfortunately, were the case of the Purse Seine
12 Index -- I don't know if it was fully available
13 during the data prep, where we do our thorough
14 review of the indexes -- and in the case of below,
15 this is a new buoy derived abundance index and
16 I'll explain what it is a bit more.

17 They were developed following
18 recommendations we made at the data prep with the
19 decision for inclusion and not deferred to the
20 assessment meeting. And again, here's the human
21 element, that through the discussions we ended up
22 including them.

1 This is kind of unusual for this Purse
2 Seine Index, their new technique. Neither one of
3 those in their current form went through the whole
4 data review process, so some of us have some
5 concerns.

6 The Buoy Index is kind of exciting in
7 it's potential. The question is, whether it
8 really needs some more work before ready for prime
9 time. But here it's being used in prime time.

10 Essentially, what it is, is the FADs,
11 the Fish Aggregating Devices that are deployed by
12 the Purse Seine in the Eastern Tropic Atlantic are
13 equipped with sonar. And so, this particular
14 study used the data from the sonar of the strength
15 of the signal coming back, as an overall estimate
16 of the biomass that aggregate, and the rate that
17 the biomass aggregates around these FADs. And
18 then they assign the species based on the catches
19 off those FADs, in more or less the same time
20 period.

21 So, there are some concerns. The Joint
22 Index starts in 1979. Historically, we've had a

1 lot more years in the indexes from the Japanese
2 Index, for example. Their data starts much
3 earlier.

4 But the Japanese scientists no longer
5 support the use of the early years, because they
6 say there was a change in targeting which isn't
7 being accounted for in the standardization, and
8 they don't have the data in their database to
9 account for it.

10 The consequence is that we lose the data
11 that previously showed a big decline from the
12 early period. So, we've lost a lot of contrast
13 that has a big influence in the results.

14 That being said, perhaps that's a good
15 thing. If, in fact, that data was bad, you
16 certainly don't want to use it. But it's possible
17 they were bad, but they still would have shown a
18 decline of some sort, and we don't have that
19 coming to the model. So, it really has an
20 influence on our perception.

21 For the Purse Seine Index, there still
22 are questions about how we're really accounting

1 for the effective effort of Purse Seine.

2 The Buoy Index, as I mentioned, it's
3 using a target, the strength, to get at the
4 overall biomass, but there's a lot of questions as
5 to whether really getting the species composition
6 right. So, is it applying, this index, does it
7 apply for all the tropical tuna species, or for
8 yellowfin specifically?

9 And the last thing that was a bit
10 difficult here is that it increases a lot in the
11 last years. And, it happens to be at a time when
12 there's no other data within stock synthesis, size
13 data, which is completely absent for 2018 --
14 that's another issue I'll get into this afternoon
15 -- that there's nothing to integrate with that
16 particular source of data. So, it has complete
17 control influence over what the juvenile relative
18 abundance is, so it's got a lot of influence in
19 those years.

20 That translates to very optimistic
21 projections, which gets us to, again, maybe that
22 "maybe too good to be true."

1 So, I won't get into this. This is just
2 all the different configurations to the model; why
3 we have in the next slide a lot of different
4 lines. And this is showing the decline of the
5 relative biomass over time.

6 What was unexpected, considering we were
7 coming into this expecting things to be looking
8 worse than before, is that with only one exception
9 here, and until the very latest time period, it's
10 suggesting the stock was never overfished in the
11 history, until we get to 2008, or something like
12 that. That's in contrast to results we've had
13 before.

14 If we look at the relative fishing
15 mortality, it's also suggesting, with the
16 exception of one of the models, that there was
17 never overfishing for this stock, until the recent
18 years. And then only for some of the models.

19 So, it doesn't mean that it's wrong.
20 It's just, you know, when something surprises you,
21 you want to make sure that it's right.

22 And there's a lot of potential things

1 that could have an effect on those results that
2 might tend to bias it. But we don't have proof of
3 that at this point. What we can do is urge
4 caution.

5 This is the current stock status that's
6 coming out of consolidating it against across all
7 the model runs, which is basically that it's
8 current status as of 2018 is not overfished, and
9 not undergoing overfishing.

10 One of the things that we've said before
11 is taking place, we're still saying it's taking
12 place, is that the shift to increasing use of FADs
13 in the Purse Seine fishery has changed the MSY
14 from where it was up here, to a drop from around
15 170,000 to maybe 120,000, 130, 110, depending on
16 which model you look at because they're catching
17 smaller fish.

18 This is the Strategy Matrix. It's
19 saying that 120,000, which is above the previous
20 TAC, of the current TAC still, that 120,000 would
21 keep you in the green. We're saying you're in the
22 green right now, and it would keep you in the

1 green for 120,000 tons.

2 So that's basically what, subject to
3 revision at the plenary, we may be moving forward
4 with as a recommendation for a new TAC.

5 I did want to thank Shannon Clay, who is
6 the chair of the yellowfin group, and my new boss
7 as of the last -- it's always good to thank your
8 boss -- officially, as of the last couple of
9 months as she has taken over Clay Porch, as he
10 moved up to Center Director, she's now the
11 Division Director for Sustainable Fisheries.

12 And of course, Michael Schirrippa, who
13 ran the stock synthesis for white marlin, and John
14 Walter who ran that for yellowfin. So, if we have
15 any questions, I'm open for that.

16 MR. BROOKS: Sure, let's take a couple
17 of more questions before shortfin. George.

18 MR. PURMONT: Good morning, thank you
19 very much for your presentation. On your
20 fisheries indicators you have a joint longline
21 CPUE, Region 1 and Region 2. Whereabouts are they
22 located? And, is that an area that is the history

1 of you go there and that's where you do your study
2 on an annual basis, or on your survey basis?

3 MR. BROOKS: Turn off your mic, George.

4 MR. PURMONT: Oh, sorry.

5 MR. BROOKS: Thanks.

6 MR. BROWN: That's a good question. I
7 had that same question myself. I got these slides
8 from Shannon -- or, the final version of the
9 slides last night, and I asked myself that
10 question, but I haven't had a chance to look back
11 at this report and remember which was which.

12 Basically, I think that the upper one
13 was the central area where most of the fishing
14 takes place, and that we use for most of the
15 models, wound up being that one that turns up very
16 slightly at the top, but I would have to double
17 check.

18 Ideally, I would have revised that, to
19 say actually what it was for this audience, but I
20 kind of wrapped things up at 4 this morning, so I
21 thought it was better to get a couple of hours of
22 sleep than to do that. But, if you're interested,

1 I'll try to dig that up.

2 MR. PURMONT: Thank you very much.

3 MR. BROOKS: Thanks, David, and then
4 over to Mike.

5 MR. SCHALIT: Craig, 4 a.m. huh? That
6 was actually an impressive presentation. I've got
7 a couple of questions/comments. Let's save the
8 best one for last.

9 My understanding is Echo Sounder Buoy
10 Index, this is a really interesting thing. I just
11 want to understand; is it possible that to be able
12 to distinguish species in the imaging from the
13 echo sounders?

14 MR. BROWN: There's a lot of research
15 going on in that topic. Most of it in the Indian
16 Ocean because there's great interest in being able
17 to do that.

18 They could be one way to, for example,
19 reduce the catches on FADS of bigeye, which is a
20 concern of the three tropical species in the
21 fishery, the biggest concern for catching the
22 juvenile is the bigeye. But they haven't

1 succeeded yet in doing that.

2 I mean, if they had a swim bladder,
3 which one of the species has, it helps but they
4 really haven't gotten to a workable solution to do
5 that. But that's one of the goals of the
6 research. We'll see how it pans out.

7 MR. SCHALIT: Then, further to that, I
8 would assume that it's possible if we use the data
9 from the port inspectors who are looking at the
10 composition of the --

11 MR. BROOKS: David, can you get a little
12 bit closer to the mic?

13 MR. SCHALIT: I'm sorry.

14 MR. BROOKS: Thank you.

15 MR. SCHALIT: The port inspectors have
16 access to the data, or they are the ones who
17 collect the data regarding the composition of the
18 catch in connection with bycatch and targeted
19 species. Would it be possible to use that data as
20 a proxy for what you're looking at on the echo
21 sounder? You follow me on this? In terms of the
22 breakdown of the different species?

1 MR. BROWN: Well, that's what they're
2 doing in this case. The case made by the
3 presenters of the index saying that this is well
4 known because they're using the catches from those
5 particular FADs.

6 I mean, the data is collected over a
7 period of time, and then they're collecting the
8 fish and they're using that data. But, of course,
9 there are -- you know, we haven't really had a
10 chance to really review in detail the
11 methodologies, but you always have issues with the
12 confidence.

13 There's a log that says, this well was
14 filled from this set, or these group of sets
15 sometimes. And so, to what extent are they using
16 wells that only came from that FAD and so forth.

17 We really haven't had time to get into
18 and that can really impact your assignments for
19 species composition. And it's also a sample.
20 It's not a census of what you get.

21 MR. SCHALIT: Two more things: This
22 data regarding this otolith data, is

1 revolutionary. I mean, it completely turns things
2 around here. I'm wondering how you would
3 characterize.

4 I mean, we're talking about natural
5 mortality doubling, effectively, would you say,
6 more or less. So, how would you characterize that
7 that affects the spawning, SCRS view of spawning
8 stock biomass? That change.

9 MR. BROWN: Well, first of all, the
10 change in our estimation of natural mortality went
11 in the opposite direction. That it would be lower
12 in the latest assessment than what we assumed
13 before because your natural mortality rate is
14 lower, it allows you to grow towards older ages.

15 It doesn't directly have an impact on
16 our estimate of the spawning stock biomass because
17 that's coming from the age structured component of
18 the stock synthesis. But, one of the things it
19 can have an impact on is the relative implications
20 of more or less focus on fishing smaller fish.

21 If you have a high natural mortality,
22 then at some point you can say well, it doesn't

1 matter that much if we're fishing the small fish
2 really hard, because they're going to die anyway,
3 essentially.

4 If you have a lower natural mortality
5 rate, then what's happening with the smallest fish
6 is more important to what's available, for
7 example, to the longline fishery. So, it can have
8 major implications for yield per recruit, which
9 goes into this chain, the trend in MSY.

10 You might get a different -- I mean,
11 that's calculated in a different process but,
12 basically, your expected yield at MSY for a
13 different selectivity pattern, your proportion of
14 small fish to big fish etc., is changed. Your
15 expectation is changed if the natural mortality
16 rate changes.

17 MR. BROOKS: We need to be pushing
18 forward here in no more than 10 minutes. Are we
19 going to be presenting on shortfin mako -- yeah, I
20 know but we're getting some [off mic]. Okay, we
21 need to finish this up by 10, so I've got 8
22 minutes left and we'll just stay on this.

1 David, you had one other comment or
2 question, and then we'll go to Mike, and then down
3 to Dewey, and anybody on the phone too.

4 MR. SCHALIT: I just want to understand
5 clearly the implications here. Is my
6 understanding correct that the yellowfin is now
7 understood to live for a longer period of time?
8 And if that is in fact the case, would that not
9 affect fecundity?

10 MR. BROWN: I mean, it could indicate
11 that you would spend more time, larger than the
12 size or the age, at which they're mature.
13 Technically, with fecundity, there may be other
14 factors that -- I mean, if you don't maintain
15 fecundity through that whole time period, that's
16 not something we've looked into.

17 It's really, for the stock assessment
18 purposes as we're currently applying it, the
19 biomass in the spawning stock, basically, the
20 mature biomass is not treated different, whether
21 it's an older fish, or just turned mature. It's
22 the biomass is a proxy for the fecundity which

1 would be a proxy for the recruitment.

2 MR. BROOKS: Okay, thanks.

3 MR. BLANKINSHIP: And, to answer your
4 first question, is yes, the estimates with the new
5 otolith data show that the fish are living longer
6 than previously thought.

7 MR. BROOKS: Mike.

8 MR. PIERDINOCK: Thank you, Craig, well
9 done. Your one slide indicates that the
10 selectivity has shifted to smaller fish since the
11 1980s. And then, as was just noted, that there's
12 been a maximum age going from 11 to 18 years.
13 That seems inconsistent to me.

14 Can you maybe explain that and make that
15 a little clearer to understand why that is the
16 case? Because, I would expect that if there's a
17 shifting to smaller fish, we would not have an
18 increase in size. But maybe you can explain that
19 to me, thanks.

20 MR. BROWN: Yes, I probably need to
21 clarify. What's changed from our previous science
22 is we've had a greater sample size. So, we've had

1 a larger effort to age yellowfin tuna from
2 otolith, and we've had a confirmation that we
3 haven't had before as to what structures are laid
4 down annually.

5 So, it's not that in recent years the
6 fish have started living longer; but that we now
7 have a basis to conclude that they live longer.
8 And the assumption is they've always done so.

9 In fact, if we didn't have the increase
10 fishing mortality on young fish, we might more
11 easily find those 18 year-old fish. And who
12 knows, in the sample size we had, we might have
13 seen even older fish.

14 MR. BROOKS: Thanks, anybody on the
15 Webinar, AP members who want to jump into this
16 conversation either with a question or a comment?
17 And operator, you can open the lines if they're
18 not open.

19 OPERATOR: All lines are open.

20 MR. BROOKS: Thanks, again, any AP
21 members want to jump in on this presentation with
22 a question or a comment? Okay, if not, and I

1 don't see any other questions on the table.

2 Craig, we're going to go to a break,
3 we're going to give you a chance to figure out
4 whether you can come back later and give us an
5 update on the shortfin mako, and we'll just figure
6 that one out.

7 Okay, we'll take a 15-minute break. So,
8 we'll reconvene and somewhere between 10:10 and
9 10:15, I'll start harassing you (laughter).
10 Thanks.

11 (Recess)

12 MR. BROOKS: All right, everyone back to
13 the table, please. We've got a bunch still to get
14 through here so if folks in the back room can come
15 in. Thank you, Katie. How are you?

16 All right, again, if AP members can take
17 their seats please. So just to catch people up on
18 where we are at with the agenda. Alright, a
19 couple of things just to note. One, as they did
20 yesterday, Karyl and Randy will be doing their
21 swap so Karyl will be up front here for the next
22 chunk of presentations and discussion. In a

1 second, I am going to hand the floor off to Brad,
2 who will give us the bluefin tuna update.

3 He will probably push through this a
4 little faster than 45 minutes because we need to
5 make up a little bit of time. He's going to be
6 turbo charged. At about 10:50, we will go to
7 enforcement updates and then at 11:20, we will --
8 we are hoping we will have an update on the
9 shortfin mako assessment but we'll see.

10 MR. MCHALE: Yes.

11 MR. BROOKS: We will. So we will have a
12 fairly short verbal update on that one and then at
13 11:30, we will go to public comment and then wrap
14 up after that and then adjourning at noon. So
15 with that, Brad, over to you.

16 MR. MCHALE: So thank you. This will be
17 a relatively familiar format so just as Bennett
18 had mentioned, I am going to rip through this so
19 we can make up a little bit of ground so please
20 enjoy the most adequate presentation you have ever
21 seen. (laughter)

22 So, 2019 inseason actions, did quite a

1 few when it came to quota transfers. Pretty
2 commonplace over the last number of years where we
3 have done some shifts in quota in the winter
4 fishery or essentially we have moved December
5 quota forward within the same calendar year, to
6 January as well as did a number of other
7 transfers, again, providing additional
8 opportunities as were warranted, you know, as we
9 go through our determination criteria.

10 Also pretty standard is looking at the
11 purse seine in previous years' catch and when
12 following the protocols in Amendment 7, moving
13 that into the reserve category to be available to
14 transfer to other categories as warranted and
15 needed and you will also recall that we did a
16 couple of transfers to the harpoon category this
17 year. We have done a number of transfers in years
18 past.

19 Typically, those transfers were the kiss
20 of death for that fishery, as soon as we
21 transferred more quota in, that fishery completely
22 ceased to be and so this year we took a longer

1 look of transferring or providing additional
2 opportunity there than we had maybe in the past
3 too.

4 When it comes to the inseason actions we
5 took regarding our recreational retention limits,
6 pretty much standard here other than we did
7 increase the recreational limits for school fish
8 and large school fish for our headboats. These
9 are our Coast Guard inspected vessels to carry
10 more than 6 passengers essentially and some of the
11 data that fed into this decision was
12 underutilization of that school and large school
13 quotas in years past.

14 Something we have already touched on in
15 this meeting, as well as in prior meetings and
16 scoping is the trophy fishery for our recreational
17 community. These are the large and medium giants
18 that can be landed and not sold and essentially we
19 made it to March in our southern areas so these
20 fish are predominately landed out of the North
21 Carolina fishery.

22 We closed the Gulf of Mexico incidental

1 trophy fishery at the end of May and we made it to
2 the end of June before that closure took place and
3 this is also an item that will be entertained as
4 part of the Amendment 13 process as we heard from
5 Tom in that discussion yesterday.

6 As far as initial recreational landing
7 estimates derived from the Large Pelagics Survey
8 as well as the North Carolina catch card program,
9 you'll see in this table that we've compared where
10 we are at through wave one, which is through June
11 30th, which you'll see at the bottom of the table
12 in red, to the prior years and so for the numbers
13 for the prior years, we've done the same time
14 period comparison, you'll see those numbers in
15 green as well as ultimately where we ended up at
16 the end of the year after all the different waves
17 and it looks like we are a little further ahead
18 this year than we have been in years past, both in
19 the school category, as well as in the large
20 school category. You know, even the small
21 mediums, depending on what year you compare it
22 back to.

1 The intent for sharing this is just --
2 we track this, we know there is a lag time; that's
3 part of the survey methodology. We have managed
4 those retention limits so just keeping tabs, no
5 real concerns here that we are going to blow
6 through the quota at this point but just keeping
7 track of where we are at when we get those Large
8 Pelagics Survey estimates available.

9 When it comes to inseason actions
10 regarding our commercial limits, no rest for the
11 weary here. You'll see as we proceeded through
12 the winter fishery as well as the early portions
13 of the summer fishery, some retention limit
14 changes where we started off at one fish in the
15 winter fishery and ultimately, that fishery, even
16 after transfers, made it towards the end of
17 February.

18 When we reopened the fishery on June 1,
19 we started at three fish which made me a very
20 popular guy amongst a lot of folks. But once we
21 saw the catch rates really start to increase in
22 our rod and reel fishery, right around mid-July

1 there, we dropped it down to one fish. I'll share
2 some catch information here in just a few slides
3 but ultimately, we shut that fishery down on
4 August 9th.

5 Also, some interesting dynamics took
6 place this year that we hadn't seen or shall I
7 say, are unprecedented is that the quality of the
8 fish, the volume of the fish, how these fish were
9 cared for, or should I say lack thereof, all led
10 to a number of dealers making their own individual
11 decisions to -- not purchase those fish; there was
12 no place to market them and the quality was just
13 poor.

14 So something very interesting as far as
15 one is that business decision, and there is no
16 obligation for dealers to purchase fish, which
17 amazingly enough, I probably had about 50 phone
18 calls, having to inform folks about capitalism and
19 that folks are not obligated to buy your crap fish
20 if you opt to not ice anything down other than
21 your beer. Daunting, but it's also very
22 informative of the variety of a constituent that

1 we are tasked to work with and manage and educate.
2 Not just us as fisheries employees and managers
3 but also you all as well. I mean if I see another
4 bluefin tuna photograph where it is gutted like a
5 trout, I think I'll -- well, I'll just leave it at
6 that.

7 Anyhow, Harpoon category, as I
8 mentioned, we did a number of different transfers
9 there as far as the retention limits, we maintain
10 them at a two large medium and the regulations
11 currently have them at unlimited giants and that
12 fishery also made it right to around that August
13 9th and 10th date so both those fisheries closed
14 almost back to back. I think one was Thursday and
15 one was Friday.

16 As far as some of the landings
17 information pertaining to the Harpoon category,
18 one thing we also track is how many large mediums
19 are being taken versus the giants and we break
20 this down in a number of different ways of
21 percentages of trips, overall landings, what have
22 you. If you all were called the large medium size

1 class is really intended to account for bycatch,
2 if you will. I.e., small fish being taken but the
3 fishery is designed to target giants and so again,
4 the numbers here, I can get into these in the
5 margins if you want but you'll see that overall
6 the transfers ended up providing that fishery
7 about 100 metric tons this year and the one item
8 that will be entertaining thoughts and discussing
9 and trying to get our minds wrapped around is if
10 you look towards the bottom of the slide, the
11 percent of trips landing at least one bluefin.

12 So this is where we are kind of looking
13 at that unlimited kind of component of those
14 giants when -- you know, if you go back 10 years,
15 15 years, 20 years, whether there was a plane or
16 no plane, these values to the right hand where 24
17 percent of the trips were landing between four and
18 eight fish or 5 percent of the trips were landing
19 9 plus fish, we had a fair number of double digit
20 trips that -- I mean the fish in New England were
21 very dumb in talking to captains where if they
22 harpooned a fish, the school didn't go down.

1 Literally, as soon as the fish was in the boat,
2 somebody was able to throw the harpoon again like
3 clockwork and normally you don't see that behavior
4 in the fish. Normally at least they go down --
5 there is some time spent to relocate them for
6 those fish to come back up so in probably
7 Amendment 13 process, we will be entertaining
8 whether or not some actions are needed here so
9 again, we are not necessarily throwing a lot of
10 fish that it can't properly be cared for, even
11 with well-seasoned captains, what is the right
12 balance to strike -- prolong the fishery as long
13 as you can, trying to optimize its yield but yet
14 not being too constraining given the weather
15 conditions required for that fishery to be
16 prosecuted.

17 Another item, we are breaking down
18 different harpoon as a gear type now landing.
19 There has been a lot of back and forth of should
20 we, should we not include harpoon in the General
21 category, comments that we get that the harpooners
22 in the General category of tuna, a lot of

1 recorders of what we opted to do is include this
2 slide here that kind of just shows the breakdown
3 of those individuals that have had successful
4 trips with harpoons as gear types, what categories
5 were they in? How many vessels were there that
6 were successful and ultimately, what are the
7 number of fish that they were able to take?

8 And so you see the '18 numbers compared
9 to the '19 and obviously when you look at 2019,
10 the harpoon category, a significant jump there
11 which is attributable to those in season transfers
12 and providing those opportunities to be had by
13 that user group.

14 And again, just another way to split the
15 data as far as the composition of catch, whether
16 they are giants, whether there is large mediums
17 and how many of each of those respective fish were
18 being caught in different trips and again, this is
19 just us really getting into the weeds and trying
20 to figure out where we may want to gravitate to as
21 far as either provide the agency more authority to
22 increase retention limits, either upwards or

1 downwards and trying to find kind of that sweet
2 spot, knowing that these variables can change from
3 one year to the next so we don't get too locked in
4 in tunnel vision and saying what we observed here
5 in '19 is how it will play out in '20 because we
6 know that rarely repeats itself in any of these
7 bluefin directed fisheries.

8 And again, if you are more visual in the
9 sense of charts, it's kind of showing the same
10 thing. Kind of how in that Harpoon category, how
11 the catch rates proceeded over the time period of
12 the fishery being open and ultimately kind of
13 where we were taking our actions to provide those
14 additional opportunities via those inseason quota
15 transfers.

16 Alright, so on to the General category.
17 I'll take a deep breath (takes deep breath).
18 Alright, so, we'll see -- start the winter fishery
19 off here on January through February at one fish
20 limit. As I already mentioned, provided some
21 additional fishing opportunities via transfers
22 from the reserve as well as it's kind of front

1 loading quota associated with the January and
2 December time periods where we ended up with about
3 109 metric tons across that time period and so
4 far, that's the highest landings from that January
5 Fishery to date and then close that end of
6 February.

7 We opened in June. We got about a month
8 and a half of a three fish limit, which equated to
9 about 77 metric tons, at which point, again, as
10 soon as we saw rod and reel landings increase of
11 two and three fish landed, we dropped it to one
12 and as we've seen in other years, at that point,
13 word is getting around, efforts increasing and
14 even though we have a one fish limit, we caught
15 about 200 metric tons in about a month's time
16 period.

17 Given just the fish availability, the
18 amount of effort, as well as some of the other
19 determination criteria, we elected not to do any
20 sort of transfers into that June through August
21 time period this go around and didn't necessarily
22 really hear one complaint from anybody, which is

1 extremely rare, in fact, almost unprecedented.
2 But it didn't really make a lot of sense to
3 provide more -- or use more quota, given the
4 conditions in the fishery at that time.

5 So following the same thing that we did
6 with the Harpoon category, looking at success
7 rates. I know we have talked about this either at
8 scoping meetings, around this table, we have
9 debated the pros and cons of starting at three
10 fish or starting at one, so just providing some
11 data here that when there was the three fish
12 limit, three quarters of the trips just landed the
13 one fish and then between two and three fish, that
14 caught the additional quarter -- or should I say
15 25 percent of the landings across that time period
16 and then we broke that down to the tonnage as well
17 and this is something that I tend to continue to
18 try to inform folks on as far as starting at a one
19 fish limit doesn't necessarily mean prolonged
20 fishing opportunities later in the year.

21 A prime example is if you look at the
22 bottom of the slide here. Of those trips that

1 successfully landed three fish, we got about 8.4
2 metric tons of landings collectively out those.
3 If you want to combine the 13 metric tons there as
4 well, just to put this into perspective, September
5 1st, when the fishery opened was a 30 metric ton
6 day so by starting -- or providing those
7 additional opportunities early in the season,
8 because the catch rates are so slow, it really
9 does equate to one additional day, potentially
10 later in the year when you look and we had about a
11 month and a half at those more liberalized
12 retention limits so -- again, open to that
13 discussion but this is just informing where our
14 decision-making stems from. And again, I think
15 you are all pretty familiar with, trying to map
16 out what the catch rates were across time, both in
17 the winter fishery as well as when the -- the
18 summer fishery started off, what the retention
19 limits were there so you'll see that in how the
20 line is either broken up and dotted or different
21 colors, the average catch rates spread across that
22 time and ultimately when the closures or transfers

1 took place.

2 As part of the Amendment 13 scope and
3 one item that we realized pretty quickly as we
4 were engaging those dialogues was again, trying to
5 capture this perception of equity and when quotas
6 are allocated and what are fishing opportunities
7 and so one slide -- or one of the many slides that
8 seemed to kind of get the point across is if you
9 look at the pie chart here in the middle, this is
10 the general category broken up by how the quota is
11 allocated by time period and if you look to the
12 right, as well as the left, it ultimately then
13 reflects when the landings had occurred in
14 relationship to how that quota is divvied up.

15 I think that's -- yes, landings. So
16 when you kind of just look at volume of landings,
17 it actually shows that we are kind of on target as
18 far as staying kind of true to the allocation.

19 One item that is lost here is when you
20 look at the number of days fished to catch this
21 volume of quota and ultimately, if you use days
22 available to fish as your metric, that's really

1 where this concern of fishing opportunities comes
2 in where that June through August of say 2018, you
3 know, that may have been almost two and a half
4 months of fishing opportunity but then when you
5 look at September or even that October-November
6 metric, those may be one week long durations and
7 so something we will continue to explore and
8 entertain as we delve further into the A13
9 process.

10 As I mentioned earlier, unprecedented
11 conditions were dealers who were actually refusing
12 to receive fish. If you look at the July
13 timeframe, you'll see that at least over the last
14 three years, the lowest average price point was
15 about 4.99 during that timeframe. Again, really
16 questionable quality of fish, a lot of different
17 international variables and so again, the average
18 price per pound doesn't drive the agency's
19 decision-making process. It's not necessarily one
20 of the criteria we are weighing when we are doing
21 opening or closures or transfers but we'd also be
22 less than transparent to say that we are not

1 looking at this as well. We are hearing about it.
2 It helps just round out our overall awareness of
3 what is transpiring in the fishery and informing
4 some of the business decisions, whether it be on
5 the vessel side or as well as on the dealer's side
6 and then ultimately how that informs our own
7 decision-making processes.

8 For the Purse Seine fishery, I think
9 you've heard the conversation around this table.
10 For the last number of years, you heard a little
11 bit yesterday in the public comment, that we had
12 the ability to start the fishery between June 1,
13 August 15th that requires an action on the agency
14 to announce a start date. We have not announced
15 the start date in the last number of years
16 essentially because there are no vessels that are
17 currently permitted to use that gear type.
18 Obviously, that's an ongoing discussion with some
19 new ownership of vessels that are trying to
20 navigate the waters of procuring what the agency
21 said are non-transferrable permits so again,
22 something that we will be looking to explore

1 further in the Amendment 13 process but just to
2 share that, currently that debate continues but
3 there are no active vessels in this fishery
4 currently.

5 As far as a breakdown of whether fish
6 are coming or going, you'll -- we noticed the last
7 few years -- actually even more than just the last
8 few with this downward trend starting about 2012
9 of more and more fish staying domestic and so that
10 trend does continue and then we just provided kind
11 of a sum of the average price per pounds so this
12 is information reported to us from the dealers as
13 far as prices being paid to the vessels then
14 ultimately the ex-vessel value based upon what is
15 staying or going. The main intent here is just to
16 show how the fishery and the marketplace is
17 evolving over time as well as the ongoing
18 decisions of how do you develop and whose role it
19 is to support maybe the development of a more
20 domestic market and then ultimately how these fish
21 are then entering that marketplace and how that
22 drives, as well as price and everything else that

1 goes with the in season management of the fishery
2 itself.

3 As far as dead discard estimates for
4 2019 of bluefin tuna, these are still kind of
5 estimated through the Science Center, even though
6 we are collecting information, we haven't
7 transitioned methodologies at this point but those
8 estimates are the exact methodology that we used
9 in the Amendment 7 process and the best available
10 information right now is the 2018 estimate which
11 has us at a 14.6 metric tons. These are the ones
12 that will share up to ICCAT and normally we are
13 able to revise these around the July timeframe and
14 currently, the reported hand gear dead discards
15 that do come through are reporting, we continue to
16 review them where that is user entered data, we
17 continue to struggle that there is a lot of
18 scrubbing of that information where all of a
19 sudden, you can see somebody may have landed a
20 Bluefin tuna, sold that bluefin tuna but all of a
21 sudden, they are also reporting a 92-inch bluefin
22 tuna as a discard but yet the retention limit was

1 3 at the time.

2 And so we are looking at the design of
3 the application, the design of the website and
4 trying to figure out how best we can start to
5 reduce these human errors that take a lot of time
6 and effort to then scrub through to saying okay,
7 what is actually a true discard that's been
8 reported that we would then want to account for
9 versus what is just either an error and then
10 properly weigh that data as it informs the overall
11 discards from the directed fishery there.

12 Overall, reporting requirements, we have
13 touched on them a little bit, they have not
14 changed. 24 hours for the dealers as well as
15 vessels. We have the catch reporting app we
16 touched on as well as the permit. We are seeing
17 improvement, continued improvement here,
18 especially when you look at say the compliance
19 percentage here when it comes to the number of
20 fish being reported, we are about at 72 percent
21 overall. The harpoon category, small user group,
22 easier to get in touch with them.

1 We are seeing this growth, definitely
2 continue to be room for improvement when you use
3 the metric of the actual fisherman, the permit
4 holder. Again, this gets to some of the diversity
5 that are in our regulated community like I
6 mentioned some folks still under the impression
7 that somebody is obligated to buy their fish, that
8 there is room for continued improvement here, we
9 continue to do outreach but we also continue to
10 collaborate closely with the office of law
11 enforcement and support compliance assistance, and
12 even if that means in penalties and fines,
13 especially when there may be data of individuals
14 landing multiple fish over time, their longevity
15 in the fishery is there but you still don't see
16 the reporting that -- I didn't know any better
17 doesn't hold any water anymore and this will be
18 something along the idea that Steve had mentioned,
19 yesterday, the whole credit card transaction. We
20 are going to be exploring other ways other than
21 just hitting folks with the stick to get
22 compliance, if there are other ways to kind of put

1 this in front of them, again, trying to proceed
2 with using the carrot versus the stick because
3 ultimately, we genuinely feel that the better
4 information I have, the staff have, the division
5 has, the better we can do our job with a very
6 volatile fishery while sudden changes in decisions
7 may need to be made within 24 hour turnarounds.

8 The more real information we have, the
9 tighter we can get our own precision in getting
10 those actions done properly. So with that, the
11 adequate presentation is complete. Questions and
12 comments before we get to shortfin?

13 MR. BROOKS: Thanks Brad very much and
14 just so folks know, in our little time reserve
15 category, we have about eight minutes left for
16 your presentation so take a few questions here.
17 Dewey?

18 MR. HEMILRIGHT: Thank you. I think
19 last meeting I asked about the U.S. retaining this
20 dead discard in the longline industry and I was
21 wondering if there is any movement there and
22 second of all, in the domestic landings, which is

1 your charts and different things; it's real good.
2 I was wondering if there is any way, given the
3 popularity of the Wicked Tuna show, if there is
4 any way of segmenting out the price per pound in a
5 separate slide in the future, given that there are
6 three or more dealers buying, maybe that would --
7 you know, wouldn't have to worry about the
8 confidentiality act, that way folks could see the
9 difference in the domestic landings and the price
10 per pound, given the two different entities, thank
11 you.

12 MR. MCHALE: Yeah, we can definitely
13 look at breaking down, especially that value,
14 whether our fish stayed domestic, exported, we can
15 further refine this and want to do so, again,
16 because some of that gets lost and then you always
17 hear -- if all of a sudden, you know, if all of a
18 sudden there is a slug of fish that comes through
19 that are poor quality, well there may be a 20 or
20 30 dollar fish in here that gets lost so we can
21 look at further ways to refine it and I know
22 that's been part of some of the ongoing

1 discussions of how do you tease out this data when
2 it is an open access fishery?

3 You do have folks that really don't know
4 what they are doing, that may have seen the
5 television show, you know, again, are gutting fish
6 right down the middle. Obviously, they haven't
7 done any homework or reached out to anybody on how
8 to properly care for these fish, that there is a
9 learning curve and how do you then speak and work
10 with that sort of user group when also you have
11 veterans that have been doing this for 30 years
12 that know exactly what they are doing and not lose
13 those unique characteristics of each other's
14 groups so we can work on further refining that
15 information.

16 MR. BROOKS: Thanks, Brad. Yeah, Dewey?

17 MR. HEMILRIGHT: Yeah, because folks
18 that watch the show might not think that when they
19 see the price of the tuna that they are not able
20 to afford that price of tuna because it's 30
21 dollars a pound or something like that so it just
22 gives a better perspective, you know, like hey,

1 you might able to afford it at 5 dollars a pound
2 or something so it might just help the public with
3 some reality, thank you.

4 MR. BROOKS: Thanks, let's go to George
5 and then Shana and I see a couple of other guys
6 but I probably won't have time to get to you.

7 MR. PURMONT: Good morning, Brad, thank
8 you very much for an excellent presentation,
9 especially in regard to Purse Seine. I noticed
10 that we have excellent information concerning
11 exported and domestic landings of bluefin, however
12 we also import bluefin at the same time. Is there
13 any comparative information that you have
14 available that would chart out the imports
15 vis-à-vis our domestic attempts at sale? I would
16 imagine that an imported fish that weighs 100
17 pound would be easier to market than a 350pound
18 caught domestic fish. Thank you.

19 MR. MCHALE: The quick answer is yes. I
20 don't know if we have any of that information
21 through the review but we have that important
22 information so we could look at that collectively

1 and I think we have in years past as far as kind
2 of what our domestic consumption is and how much
3 of our U.S. fish are feeding that versus the
4 imports.

5 I know one other item, given the quality
6 condition of the bluefin tuna this year that we've
7 also been trying to get our minds wrapped around
8 is sometimes it's not even a bluefin to bluefin
9 comparison as far as the mark they are filling but
10 when you have these relatively poor quality
11 bluefin that are coming to the dock, are they
12 really starting to compete with bigeye or
13 yellowfin in our domestic markets?

14 So that is something that we can include
15 in future presentations of kind of how all that
16 interplay is starting to affect one another.

17 MR. BROOKS: Shana.

18 MS. MILLER: That's not working. It's
19 on? Okay. Looking at the breakdown of general
20 category, whether they land 1, 2, or 3 fish. I
21 know for the recreational category, hopefully you
22 get data on the zero-fish days as well. Do you

1 get those for the General category? Are you
2 seeing any trend in the zero-catch days and then
3 I'll --

4 MR. MCHALE: Unfortunately, currently we
5 don't so we currently do not have an HMS
6 regulation to complete say a comprehensive
7 logbook. The reporting requirements are the
8 report landings and then we turn -- those discard
9 events and so it's very rare that we are getting
10 zero returns, at least in the commercial data, we
11 also then don't have something to verify that
12 information up against, which poses some
13 challenges to assess the accuracy. One area where
14 we may start to gravitate more in that direction,
15 as we talked on yesterday, and I don't know if you
16 were able to hear on the conference line is as we
17 start to gravitate these electronic logbooks,
18 producing, reporting burden, what have you.

19 For example, the eVTR out of the GARFO
20 region may require all trips to be reported,
21 regardless of catch so I suspect as we start to
22 streamline our avenues to collect information,

1 those non-catch trips -- now again, it might be
2 difficult to say was that a tuna trip or a
3 groundfish trip or what have you but I think we
4 are probably going to start to get more of that
5 information as well as -- I think we mentioned
6 yesterday is the HMS division actually looking on
7 whether or not we would want to have a requirement
8 to do some sort of a logbook. Currently we just
9 have the landing reports and -- but as some of
10 these streamlining and electronic reporting
11 technologies evolve, if we were then to say follow
12 suit of some of the other regional offices in
13 saying we are going to require a report, the
14 avenue may already exist but then that might be an
15 opportunity to kind of get at that catch per unit
16 effort dynamic that currently is missing in our
17 data collection.

18 MS. MILLER: Do you compile those data
19 for the charter boat/head boat fishery for --
20 because they get the phone calls asking whether
21 they fished that week, what their target was. Do
22 you look at those data for zero returns or no?

1 MR. MCHALE: Yup, so for-hire fleets, as
2 well as some of the General category of vessels
3 that are being either intercepted by the Large
4 Pelagics Survey or being captured in the telephone
5 survey, we will get that data. We just know it's
6 a subsample so that's something that we can look
7 at and provide that information.

8 MS. MILLER: I'll try not to send you
9 another data request, don't worry.

10 MR. MCHALE: You know who Nick is now.

11 MS. MILLER: That's right, I met him.
12 And then just to comment, looking at the pricing,
13 obviously there were not the greatest quality of a
14 lot of the fish this year but you know, the prices
15 are down, also because globally the bluefin
16 catching has gone up so much, not just here, it
17 hasn't gone up so much but in the eastern
18 Atlantic, it's gone up a lot.

19 Pacific bluefin has gone up a lot,
20 southern bluefin has gone up as well and you know,
21 Japan, economic studies -- the global bluefin
22 market can only handle so much bluefin. They

1 don't care whether they're Atlantic, Pacific or
2 Southern and you know, when it comes to -- and
3 this is a little bit international, when it comes
4 to looking at target reference points for bluefin
5 in the coming years, this pricing that we are
6 struggling with this year should be taken into
7 account, that socioeconomic piece of the target
8 reference points, thanks.

9 MR. BROOKS: Thanks, Shana. I want to
10 invite the enforcement folks to start coming up
11 this way. Walter, you have a quick piece of
12 information before the then and for the folks
13 whose cards are up, we are going to have to push
14 on but I would encourage you to connect with Brad
15 when we adjourn at 12.

16 MR. GOLET: To George's point, SAFE
17 report 2018, page 160 will give the imports,
18 exports, Pacific and Atlantic bluefin tuna.

19 MR. BROOKS: Great. Thank you and Brad,
20 thank you very much and I will shift over to
21 enforcement. So we are going to hear, I believe
22 from Katie Moore, Wynn Carney and Loren Remsberg.

1 And we've got Coast Guard up first I think.

2 MS. REMSBERG: I am on the phone.

3 MR. BROOKS: Okay. And planning to
4 present or not?

5 MS. REMSBERG: No.

6 MR. BROOKS: Okay.

7 MS. REMSBERG: But I can answer
8 questions as needed.

9 MR. BROOKS: Okay, great, thanks.

10 MS. MOORE: Good morning, Katie Moore,
11 U.S. Coast Guard, I work for the Atlantic area
12 command so we deal with everything east of the
13 Rockies. I am the Fisheries Program Manager and
14 what I wanted to share today was some of our
15 efforts.

16 It's broken up by our domestic efforts,
17 both in the boardings and the outcomes, then
18 focusing on our foreign fishing vessel activities
19 and our interdictions and then talking about
20 policy. This presentation is available online.

21 I usually tell you how much time we
22 spent towards fisheries. This is across all

1 fisheries not just HMS. I just want to let you
2 know how it compares to last year at this time.
3 We are down by about 22 percent and that's in all
4 categories, air and surface assets. Coast Guard
5 works for the Department of Homeland Security.
6 The Fisheries missions account for two out of the
7 eleven missions so we are essentially competing
8 with nine other missions to include drugs, migrant
9 interdictions and stuff like hurricane so --

10 Now, in terms of HMS boardings, I still
11 think that we have a healthy number compared to
12 historical years so through August, we had a total
13 of 317 HMS boardings. You can see here how it's
14 broken down by different regions and components of
15 the fishery so the majority of the boardings, we
16 have had in the mid-Atlantic but we've also had a
17 healthy number in the Northeast. Out of those
18 boardings, the results that we had in terms of
19 significant violations were 13 in the time period
20 since May, our last report.

21 It's been broken down pretty equally
22 between district one, which is the northeast and

1 our Gulf of Mexico. The northeast violations tend
2 to be permit violations, targeting bluefin tuna,
3 district 8, there were more shark violations and
4 in district 5, our Mid-Atlantic district, they
5 tend to be permit violations associated with tuna
6 so I tried to tell you here where the interaction
7 occurred, what region, if it was commercial and
8 the type of violation so these violations are what
9 Coast Guard issues. We provide the case packages
10 to NOAA. NOAA then considers going forward with
11 them and whether or not there is going to be a
12 fine.

13 So I do want to apologize in the
14 mid-Atlantic, the Coast Guard issued a press
15 release that said that there were five violations
16 by commercial fishing vessels. They weren't
17 commercial fishing vessels and they were actually
18 recreational vessels and this was not coordinated
19 with NOAA office of law enforcement so our
20 intentions are to have accurate press releases
21 when they are released in the future and
22 coordinated with our partner agencies. Sorry that

1 did not occur and there was some confusion in both
2 wreck and commercial industries were not pleased,
3 understandably.

4 So we have had a lot of activity
5 continue to have HMS all components being a high
6 precedent fishery so we actively try to board all
7 components of the fishery. We have heard your
8 concerns about potential non-compliance and I hope
9 that you know that we are taking that seriously.

10 So in terms of the foreign fishing
11 vessel issue that we have along our U.S.-Mexican
12 border that still is pretty active. Now, in terms
13 of the number of detections that we've had, that
14 has decreased. I can't tell you that the threat
15 itself has decreased but our presence on the
16 border has remained constant.

17 Three different components of this.
18 Detections means either we see the fishing vessel
19 actively fishing or we see their gear in the
20 water, no fishing vessel so that's a detection.
21 Now an interception is when we have a Coast Guard
22 asset on scene in pursuit so you can see here if

1 we gear, there is nothing to pursue. We still
2 haul the gear, take it, dispose of it but the
3 interdictions are when we actually stop the vessel
4 and people are onboard, we work with CBP and we
5 repatriate those individuals back to Mexico.

6 The gear is taken. If there is any
7 catch onboard, that is released at sea if it's
8 alive otherwise we take it and we have to use it
9 for case evidence.

10 Now there have been fewer detections
11 this year, which is great but the bigger thing is
12 our interdiction rates are the highest that we've
13 ever had so I take that as the Mexicans are
14 stopping so we are actually getting them but what
15 I think you want to know is let's not have this
16 threat to begin with so what we have detected in
17 terms of the gear and the catch onboard during
18 these two months, it's longline, it's been
19 predominantly longline and gillnet and we had two
20 instances where there were HMS species onboard.

21 Sometimes these interdictions are when
22 the vessels have not yet caught any species. It's

1 just bait on board but I'd like to tell you what
2 we find. Now if the ideal -- if I could tell you
3 what species they were, we don't always get that
4 and then sometimes we don't always get it right
5 but this is the level of detail we have for those
6 interactions.

7 Now in terms of what are we doing to try
8 to combat the threats that exist on the water, we
9 are actively working with NOAA and I think Brad
10 gave you a good summary yesterday about the
11 permitting process and where we stand in terms of
12 linking that with the Coast Guard safety decals.

13 Some of you might be aware that this
14 issue is not limited to HMS. There was actually
15 interest in the Mid-Atlantic Fisheries Management
16 Council for tilefish permits to have -- to display
17 documentation that they have a (inaudible) safety
18 decal and there was an official letter that was
19 sent to GARFO, the Greater Atlantic Region and
20 there was a response back in May so we heard you
21 in this forum; we've also heard you in the
22 mid-Atlantic forum and I don't think there is

1 anything necessarily inherently unique with this
2 fishery. I think people want commercial fishermen
3 to be compliant, recreational fishermen to be
4 compliant with safety rules as well as the
5 permitting within NOAA.

6 So, party line is we continue to partner
7 on this but if you want to know more about the
8 response from GARFO, they did go into more details
9 about an automated system, would be ideal because
10 it takes a lot of time to cross check the two so
11 just FYI, it's not just an easy button. Sometimes
12 we issue a decal and it takes up to 20 days before
13 Coast Guard even enters that into our own system
14 so for NOAA to instantaneously know what vessels
15 have decals and to verify that information if it's
16 provided by you, it's more than just creating an
17 app for a linkage between the two systems so we
18 continue to work together, not just looking at
19 HMS.

20 HMS in fiscal year 20, that will
21 continue to be a high precedence fishery for the
22 Coast Guard in all components of the fishery, rec,

1 charter, as well as commercial and we divide our
2 fisheries by high precedence and low precedence
3 and that is based on the status of the species,
4 political factors, bycatch, enforceability at sea
5 and so HMS continues to be a high precedence
6 fishery.

7 So, we stay active with ICCAT and we are
8 looking forward to our meeting and continuing to
9 move forward with the voluntary at sea observer --
10 I am sorry, voluntary at sea inspector exchanges.
11 Observer safety has gotten some more traction so
12 we are hopeful that we will go further and we are
13 also working on updating vessel sighting protocols
14 so that at sea inspector exchange got some
15 traction with Canada so we are considering what we
16 could do under ICCAT.

17 We are already participating with Canada
18 under the NAFO in the northeast and so we are
19 looking at professional exchange opportunities
20 there for ICCAT. We are still active in the Gulf
21 of Guinea so Coast Guard actually had a cutter
22 deployed off of Western Africa this Spring. We

1 worked with Navy to have overflights to figure out
2 what fisheries -- what's active in that region,
3 who is fishing, do those host nations, permitting
4 nations even know what's out there along their
5 coast? And the partners that we worked with this
6 year are as listed.

7 We also continue to look at the Mexican
8 issue. Coast Guard doesn't love the number of
9 repeat offenders that we have had down there and
10 so we are trying to look and continue to discuss
11 are we using everything in our toolbox. Is it
12 just putting a presence on the water? Are there
13 diplomatic ways of doing business? Are there
14 other opportunities for prosecution that we have
15 not yet explored so we continue to work
16 interagency to figure out what we can do to
17 address that threat.

18 So as you know, just having Coast Guard
19 on the water doesn't stop it from happening. So
20 if you have any questions, let me know. If anyone
21 perceives that there is any non-compliance out
22 there, please share information with us. That

1 does help us even if it's not an individual
2 fishing vessel, just to give us some climate where
3 there may be potential non-compliance, we take it
4 into account so thank you for those who are
5 passing that information to us.

6 MR. BROOKS: Thanks, Katie. Wynn, why
7 don't you walk through your presentation and then
8 we'll open it up to questions.

9 MR. CARNEY: Okay, thanks so I didn't
10 bring a presentation but what we do have is we
11 have a website of our weekly highlights so if you
12 go to our website -- okay, sorry. We'll bring it
13 up in just a second but you can see where our
14 website is so if you have any questions about what
15 we are doing with enforcement, you can go to that
16 website and can actually see different highlights
17 and weekly updates from our enforcement and this
18 is on our -- if you just google NOAA office of law
19 enforcement and go to enforcement actions then our
20 different highlights from different weeks will
21 come up and you can see the highlights from May
22 17th, May 10th and so forth. They get updated --

1 that's a long time ago but they get updated
2 sometime.

3 If you go to the top, our -- it tells
4 about the Carlos Rafael case civil suit. So that
5 is recently; that was August the 19th but as far
6 as what we are doing, we are still partnering with
7 the Coast Guard. We are partnering with our state
8 partners which is mostly all of the state agencies
9 from Maine all the way to Texas and -- minus North
10 Carolina and partner with those states to enforce
11 HMS regulations.

12 Sometimes we have saturated patrols,
13 most recently we had a saturation off of New York
14 and New Jersey targeting bluefin tuna -- or
15 vessels targeting Bluefin tuna.

16 From that, we found some non-reporting
17 violations and some permanent violations offshore.
18 Down to the south and the Gulf of Mexico -- some
19 recent violations we found have been pelagic wall
20 liners retaining swordfish, not in proper form.

21 So our officers down in Louisiana were
22 handling some of those instances as well. So like

1 Katie said, if you have any questions let us know.
2 We still are out enforcing every day and trying to
3 make the best we can with compliance assistance as
4 with what Brad was talking about earlier using the
5 carrot and not the stick so if you have any
6 questions, we'll be free to answer them.

7 MR. BROOKS: Great, thanks. Let's go to
8 Sonja then David.

9 MS. FORDHAM: Thank you. Sonja Fordham,
10 Shark Advocates. My question is for you. You
11 mentioned the law enforcement capacity in Africa
12 and the partners for 2019. Can you just tell us a
13 little bit about how long those partnerships last
14 and how those countries are selected and if there
15 is a component with (inaudible)? I am just
16 curious. Yeah.

17 MS. MOORE: So, our presence there has
18 been primarily through AMLEP so it's a DOD
19 initiative out there for stabilizing the country
20 and that has focused on multiple missions and one
21 of that has provided benefits to fisheries so the
22 goal there is to build law enforcement capacity so

1 those host nations can enforce their own
2 regulations and in doing that, it is looking at
3 law enforcement broadly.

4 Most of their targets that they have
5 done in the water have been fishing vessels so
6 there is an MOA that has been developed with the
7 host nations to, you know, say what we bring to
8 the table. Do we pay for the gas, they bring the
9 people? Do we bring the ship or do we use those
10 ships? So it has evolved over the years and each
11 different country has a different level capacity
12 in what they are willing and capable of bringing
13 to the table so in terms of what we are doing is
14 we work with DOD so it's not Coast Guard
15 independently selecting what countries.

16 So what I try to do is to say what
17 countries would be very helpful for us from a
18 fisheries perspective but if there is a drug
19 issue, that might be a higher priority for DOD so
20 I can't speak towards NOAA's efforts but I know
21 they have been on scene trying to help build
22 capacity in some of these countries which has

1 helped in our partnerships here.

2 Now the overflights we did were not
3 specifically for fisheries in terms of "hey, go
4 look in this area. This is what we want you to
5 do." It was more "We are already going to fly; do
6 you want to be onboard?" We said yes and this is
7 what we want to look at so I wouldn't say it's
8 always built from the onset with fisheries in mind
9 or being wholly informed with that goal but I'll
10 take whatever I can get.

11 So if you have some thoughts that there
12 might be some strategic partnerships that we might
13 want to consider, we are open to that but it is
14 also trying to pay it back on with DOD and what
15 they are trying to do so --

16 MR. BROOKS: Thanks, Katie. David then
17 up to Mike.

18 MR. SCHALIT: Thanks Wynn and Katie for
19 this presentation. I am just going to make
20 reference to something we are all familiar with
21 the U.S. Coast Guard decided a few years ago that
22 every vessel that is fishing commercially will be

1 required to submit to a commercial fishing vessel
2 inspection and one of our sectors of our fishery
3 is the sort of overlap between angler and
4 commercial and that is the charter/headboat sector
5 so we created this law which -- with permit
6 actually, which enables some charter/headboat
7 vessels to op --- from time to time -- to operate
8 in -- to actually operate in the commercial
9 fishery under general category rules and other
10 vessels don't opt for this so what is created is
11 this body of vessels that are in this category or
12 may need to comply or not; we are not sure.

13 It all comes down to -- in the end, what
14 we are looking for is kind of an automated system
15 -- a somewhat automated system whereby when a
16 permit is taken out, initially every year, they
17 would be -- the person taking out the permit would
18 be obligated to enter the unique number, sticker
19 number from the commercial fishing vessel sticker
20 that is adhered to the vessel at the time of
21 successful inspection and I know that you are --
22 you are discussing this with Brad McHale in

1 Gloucester and you know, you were deeply in
2 conversation with him about this.

3 I just want you to know that the 500,000
4 people that I represent really want this in place.
5 It's extremely -- it's a priority for us and it's
6 a very very important priority so anything --
7 that's -- I think that's the message I want to
8 convey today.

9 MR. BROOKS: Thanks. Umm, Mike.

10 MR. PIERDINOCK: On page 12, with the
11 ICCAT inspections, I am just curious of what kind
12 of compliance you're seeing or not seeing in those
13 areas and are these surprise inspections or do you
14 have to tell the government that you are working
15 with that you are going to go on the boat which
16 could jeopardize the secrecy of that because if I
17 recall a few years ago, you had concerns with that
18 with Mexico and was just interested in whether --
19 and out and off the coast of Africa, how that
20 works and what kind of compliance or not
21 compliance you are seeing. Thanks.

22 MS. MOORE: So what we have -- this is a

1 partnership where we are assisting those host
2 nations enforcing their own regulations so they
3 are using their authorities so they are on board.
4 It is not done independently just with U.S.
5 People, U.S. assets because we are not using U.S.
6 Authorities so it's -- we are assisting those host
7 countries and enforcing their law so it's not a
8 surprise to the host nation.

9 In terms of notice to the fishing
10 vessels, I don't know whether or not those
11 individual fishing vessels are hugely aware of our
12 presence in the OP, though it is on open source --
13 it's been multiple years in existence. Now in
14 terms of the non-compliance that is out there, we
15 had about 19 boardings that happened this year and
16 the violations have not been typically grossly
17 disturbing, I would say. I think it's -- we did
18 early on have some issues -- there was a shark
19 case that was about 10 years ago, that was pretty
20 substantial but recently it's been more like
21 permitting issue but it hasn't been gross amount
22 of catches and overages that you might -- that you

1 consider might be happening. That's not what we
2 have been detecting.

3 Now our presence on the water might be
4 enough deterrents that those people doing gross
5 violations might scoot off. That's why we wanted
6 to have the air component. But with an air
7 component, you are just seeing fishing vessel
8 locations, not necessarily discerning what
9 violations may be occurring so it's one of those
10 where we are piecemeal getting to know better
11 what's happening out there so opportunities for
12 sharing AIS information, making sure these
13 countries are working together, no fishing is
14 happening, I think that's evolving.

15 We actually had one situation where two
16 countries have an agreement that if this host
17 nation's fishing vessels go into this host
18 nation's water, they are not to be boarded so
19 there are some nuances just happening in Africa
20 that we are trying to be respectful of but make
21 sure at the same time it's not the wild west out
22 there. So there were no gross violations that we

1 detected this year.

2 MR. BROOKS: Thanks, Katie. Dewey.

3 MR. HEMILRIGHT: I wonder if the Coast
4 Guard has any response to a letter that was put
5 out or a notice from the FCC about the use of AIS
6 buoys to mark the fishing gear and it seems like
7 they've taken a stance that it's illegal and they
8 were going to impose fines of up to 17,500
9 dollars. The criticalness of being able to use
10 that is -- one it just helps you find your gear,
11 location, safety of your gear and I was wondering
12 if the Coast Guard had any thoughts on that given
13 that -- and the gear is also marked, the label of
14 the buoy is marked so you know it's not a vessel
15 but does the Coast Guard have any response to
16 that? Because it would be good if fisherman could
17 continue to use that and label on that buoy. I
18 think it would help all the way around with
19 protective resources and different ways of
20 tracking your gear, it's very effective.

21 MS. MOORE: So thank you. I had,
22 through this team gotten some information that

1 that was being used in the fishery potentially
2 being considered so what we have -- we have an AIS
3 program manager and when I reached out to ask is
4 that legal, not illegal, we do have information
5 that states what is legal use of AIS.

6 I believe it's an FCC broadcast
7 frequency issue not necessarily a Coast Guard
8 determination but what I'll do is I'll get more
9 information and share it with this group so what I
10 had researched previously was not legal so if that
11 has changed, I can give you a better status update
12 but I believe there were devices on open market
13 that people thought were likely compliant and
14 legal and FCC approved which weren't so it might
15 have not been intent to be non-compliant, they
16 just probably thought it's legal because you could
17 buy it.

18 So let me give you an update on it but
19 last I checked, they were not legal. I hear where
20 you are coming from, I like to know where gear is,
21 safety issues like you identified but there might
22 be larger issues in terms of air frequency that is

1 the determining factor so I'll work through Peter,
2 Karyl, to see how we can get it back to the group
3 or just update my presentation with a link but I
4 do hear you on how it benefits the fishery and
5 thank you for that perspective.

6 MR. BROOKS: You would think being on
7 the fourth floor, we'd somehow avoid leaf blowers
8 but -- okay, good, thanks. Let me just see if
9 there is any AP members on the phone who have any
10 questions or comments for Katie or Wynn and again,
11 operator, if you could open the line, this is for
12 AP members and Greg DiDimenico, I understand you
13 may have a comment but I'll ask you to hold that
14 into a public comment but AP members, any
15 questions or comments.

16 OPERATOR: All lines are open.

17 MR. BROOKS: Thanks. Okay, thank you,
18 operator. At this point, thanks Katie, thanks
19 Wynn. Let's -- I think we are going to get Enric
20 on the phone. Enric, are you there and can you
21 hear me? And operator if you could open up -- are
22 you there Enric?

1 MR. CORTES: Can you hear me?

2 MR. BROOKS: Yes. Speak again though.

3 MR. CORTES: Yes, I am here.

4 MR. BROOKS: Okay, much better.

5 Alright, and we want to hand it off to you and let
6 you give us just a quick overview of the shortfin
7 mako assessment and just know there is a little
8 competition and noise from outside. We are trying
9 to deal with it but if you could -- just as loudly
10 as you can speak would be helpful here.

11 MR. CORTES: Okay.

12 MR. BROOKS: Okay, all yours. Hang on
13 one second, we are just getting the presentation
14 loaded.

15 (Crosstalk in the
16 background)(Laughter)

17 MR. CORTES: Alright.

18 MR. BROOKS: Okay.

19 MR. CORTES: Do I have control?

20 MR. BROOKS: We think you do. You have
21 control and you have 10 minutes. Actually let me
22 just quick check. Public comment, how much public

1 comment do we have? None? Except for Greg.

2 MR. CORTES: I don't see the
3 presentation.

4 MR. BROOKS: Yeah, we don't see it
5 either.

6 MR. CORTES: Do you see what I have on
7 the screen now?

8 MR. BROOKS: No. I would say if this
9 doesn't work, can you just talk about it and you
10 can -- we'll operate it from here, Enric, and you
11 can just tell us when to advance each slide, okay?

12 MR. CORTES: Yeah, will do.

13 MR. BROOKS: Perfect, thanks. Just give
14 us a second. Okay, all good. It's all yours
15 Enric.

16 MR. CORTES: Okay, I don't see the
17 screen.

18 MR. BROOKS: We've come full circle.

19 MR. CORTES: I am not seeing anything.

20 MR. BROOKS: Yeah, I know, we are still
21 hacking away at it here. Give us a second. We
22 don't hear the little bursts? He thinks we don't

1 hear the little bursts? Maybe we can have Enric
2 start the presentation without a visual link for
3 now? Because time is running short. Enric, we've
4 got the presentation up online.

5 MR. CORTES: Okay.

6 MR. BROOKS: So you just work off of
7 your screen and tell us when to advance and for
8 webinar participants, we'll keep trying to get
9 this online for you to see as well but for now,
10 please just follow Enric verbally.

11 MR. CORTES: Okay, so you have the
12 updated version. Let's move to the second
13 overview. So what I wanted to do very quickly is
14 summarize the results of the 2017 stock assessment
15 because in 2019, we did not do an assessment.
16 What we did was (inaudible) of projections using
17 one of the models. So if you move to the next
18 slide where it says Catches and CPV.

19 Potentially, very quickly, we can see
20 that a couple of catch streams, the augmented
21 catches that we get from ICCAT, which have
22 received inputs from different countries and have

1 been reconstructed, and then we also considered
2 another catch series based on ratios of sharks to
3 target species. Just to say that and for the
4 north plant on the top of that graph, if you see
5 it, the C1 is a task 1 catch series, the C2 is the
6 series based on resource and it was of a larger
7 magnitude.

8 In terms of CPUEs, float to the right.
9 We have CPUEs from essentially five countries and
10 very quickly all I want to point out is that they
11 coincided, the trends were similar which is not
12 always the case because we always ended up with
13 conflicting trends so there was a decrease
14 initially and then a recovery that is what we were
15 seeing in the last stock assessment in 2012 but
16 then since then all the instances decreased
17 through the last year of data which was the 2015
18 assessment.

19 Move to the next slide which is Data
20 Input: Length Composition. Very quickly just to
21 mention that all the nations or a number of the
22 nations -- to make a long story short, we have

1 assured research and data collection programs and
2 we have been -- all the partners have been
3 contributing data so this represents, if you can
4 see it on the left, the information from different
5 observer programs, information that's actually not
6 housed the ICCAT but that was provided for the
7 sole intent of doing this assessment and
8 essentially, the part to the right with the
9 comment on the left shows the length compositions
10 of a different fleet and I just want to point out
11 that most of the animals caught are immature.

12 If you move to the next slide, that's
13 just the age and growth that was also part of the
14 shark research plan and so there will be produced
15 two new age and growth curves, the lower curve is
16 for females which are smaller and achieve sexual
17 maturity much later than males.

18 We go to the next slide, essentially
19 this is the combined -- the ensemble result of the
20 different models that were used. We used
21 production methodologies -- Greg went through one
22 of them, we also used another slightly different

1 approach called BSP2JAGS and if you see that plot
2 on the left, you see 9 points. These are the
3 medians of the different models and the cloud of
4 individual assimilations but the one that's more
5 to the right is the result of the SS -- the stock
6 synthesis model that Craig described earlier as
7 well. And essentially, the story was that the
8 plot of points, essentially 90 percent of the
9 density was in the bed area with overfished and
10 overfishing and only 10 percent was overfished or
11 with overfishing.

12 So at the time we did projections with
13 the BSP2JAGS, and just very quickly, I just want
14 to point out that you needed to reduce the TAC
15 catches to 1000 pounds or less for the population
16 to stop declining. In terms of the Kobe II Matrix
17 that Craig also showed you before, essentially,
18 the deal here was that with a catch of 1000 tons,
19 that we identified, the probability of being in
20 Kobe -- I hope that you have advanced to the next
21 slide, the Kobe II Risk Matrix.

22 So the probability of being in the Kobe

1 III zone would only be 25 percent by 2040 but to
2 stop overfishing and start rebuilding, the
3 continental catch should be reduced to 500 pounds
4 or less. This would achieve the goal of stopping
5 overfishing in 2018 with a 75 probability but it
6 only has a 35 percent probability of rebuilding
7 the stock by 2040. So only at zero and no catch
8 would reveal the stock by 2040 with a 54 percent
9 probability.

10 Okay, move on to the next one. So these
11 are the results of the updated stock projections.

12 Move on to the next one. So the issue
13 with the projections we undertook with the
14 production model in 2017 that I just showed you is
15 that the fisher -- because the fishery focuses
16 mainly on juvenile and multi-production models, as
17 it says here, it's only tracking juvenile
18 abundance so the projections are not informative
19 about trends in the mature population which we
20 would like well behind the trends in the
21 exploitable population by 10 years or more. 10
22 years or more meaning the age -- the time it takes

1 for these animals to reach maturity and contribute
2 to the population, contribute recruits.

3 The age of maturity is around eight
4 years for females and like 18 or more for female
5 -- for males and -- but in contrast, stock
6 synthesis -- reconstruction model can incorporate
7 those necessary timelines that go by maturity and
8 the selectivity of the stock.

9 Next slide. Okay, so if you recall the
10 picture with the ensemble model that we showed
11 you, we had SS3, one SS3 run and that was SS3 Run
12 3 which is what we used to determine stock status
13 along with the other production models. However,
14 although another SS run called SS Run 1 was not
15 used, we decided it was important to those
16 projections with this other run because it
17 incorporated another hypothesis about the
18 productivity of the stock, mainly the stock
19 recruit relationship and this was important
20 because it was consistent with some of the
21 production model in terms of productivity.

22 But essentially these SS Run 1 provides

1 a more optimistic picture of the stock. So what
2 we did was use both SS 3 -- the two SS runs, runs
3 3 and Run 1 so incorporating that axis of
4 uncertainty in terms of productivity.

5 If you move to the next slide. We
6 combined -- you can see here on the left Run 1 and
7 on the right Run 3. As you see, Run 1 is more
8 optimistic in terms of, you know, response of the
9 stock to different type levels than Run 3 on the
10 right.

11 Move to the next slide, please. And
12 then this is just the combined results of the
13 projections combining Runs 1 and 3 but what does
14 that mean?

15 We move to the next slide. This is the
16 Kobe II Matrix again. I did mention before the
17 top panel is the probability of overfishing,
18 middle, the probability of overfished and then the
19 bottom is the combined probability of both.

20 So, what we have in this case with this
21 new projection that we believe are more indicative
22 of the status of the stock of -- what happened to

1 the stock, is essentially a zero TAC would allow
2 this stuff to be rebuild and without overfishing
3 so in the green quadrant here of the Kobe plot.
4 By 2045 with a 53 percent probability but
5 regardless of the tax, and that includes a zero
6 tax, the stock will continue to decline until 2035
7 but you see the stock, the probability does not
8 start increasing until after 2035.

9 A TAC of 500 tons, and this includes
10 dead discards right away, is only a 52 percent
11 probability of rebuilding the stock to levels
12 above SSFMSY and below FMSY in 2070 as I am
13 pointing out here.

14 But to be in the green quadrant of the
15 Kobe plot with at least a 60 percent probability,
16 you would have to reduce that TAC to 300 tons.

17 Obviously lower TACS achieve rebuilding
18 in shorter times and a TAC of 700 tons would end
19 overfishing immediately with a 57 percent
20 probability, however, that TAC would only have a
21 41 percent probability of rebuilding the stock by
22 2070.

1 So very quickly, next slide.
2 Essentially, and again, I am presenting this like
3 I said at the beginning as rapporteur of the stock
4 species group so I am just here relaying what was,
5 including the report, and what the collective
6 result and advice was from the shark species
7 group. All this still has to go through the
8 commission so it remains to be seen what it would
9 be but essentially what we said is that the stock
10 synthesis projections essentially show that there
11 is a long lifetime between management measures
12 that are implemented and when the stock size
13 starts to rebuild so it's important to start
14 taking action immediately.

15 Next. So this I will say very briefly
16 and the people who will attend the next meeting of
17 the advisory committee will go into more detail
18 but essentially, we investigated through
19 projections several of the recommendations of the
20 provisions that were -- and I kept recommendation
21 1708 so this included looking at alternative TACs,
22 you have already sent in combination or not with

1 side limits. Also, like release measure so we did
2 that (inaudible) with stock synthesis and with
3 these two other decisions support to -- or going
4 to detail at another time. Can you move to the
5 next slide please?

6 So essentially, the group examined using
7 the SS projections the combined effect of size
8 limits and TACs and the results indicated that
9 yes, hypothetically, a minimum size regulation
10 that is applied to the whole fishery could be a
11 useful tool to increase the speed of recovery and
12 the management by TAC but that is provided that
13 mortality is low because what we found is that the
14 deterministic projections that we ran different
15 TACs found that the SSF would not reach the MSY
16 level until 2070 even with a TAC of 0.

17 Next slide please. We also note that
18 live release by changing the level of F in the
19 projections and again live release management
20 measures by themselves are unlikely to be
21 sufficient to rebuild the stock to the target
22 level. It could be a way to reduce F only these

1 kind of mortality rates are low as well but other
2 management measures such as reduction of
3 (inaudible) time, time closures and good practice
4 provisions are also needed.

5 Next slide. So the DST projections, as
6 I said is a different tool that allows us to look
7 at projections from the stock synthesis model and
8 allows us to adjust size limits, fraction of the
9 total catch release and fractions of the
10 (inaudible) that die. Essentially the gist of it,
11 the result is that (inaudible) limits and other
12 strategies to release live sharks must be
13 accompanied by a reduction of retained catch. So
14 these are, that's essentially my short
15 presentation now and I will get into more details
16 for the advisory so the report of what we did, the
17 shortfin mako assessment in 2017 and the 2019
18 projections investigation of some of the measures.
19 I kept recommendation 17 away.

20 MR. BROOKS: Thanks, Enric, appreciate
21 that very much and I know we sort of threw that at
22 you at the last minute so I appreciate it. We

1 have time probably for a question before we move
2 to public comment. Bob?

3 MR. HEUTER: Thanks, Bennett. Hi,
4 Enric, it's Bob. Bob Heuter, can you hear me?

5 MR. CORTES: Yeah.

6 MR. HEUTER: I am interested in whether
7 -- or how the north Atlantic and south Atlantic
8 components are being treated in these analyses?
9 Is this being treated as a single stock and I note
10 that on page 4 of your presentation, it looks like
11 the south Atlantic animals are larger. Plus, when
12 you look at Casey tagging data, 30 years of
13 tagging data, every single recapture of a mako in
14 the north Atlantic -- when it was tagged in the
15 north Atlantic was recaptured in the north
16 Atlantic. I guess the genetic evidence is weak
17 for different populations so how is that being
18 treated and if in fact these are two different
19 stocks or two different populations, then how
20 might that affect the overall results?

21 MR. CORTES: Yeah, so I just got this
22 right here, the north Atlantic stock so we

1 assessed two separate stocks, north and south and
2 in the next presentation, I will give you more
3 results ongoing work that we are doing with
4 Japanese colleagues on genetics but essentially
5 for the assessment of the time we did the
6 assessment, we considered two stocks, the north
7 and the south and I just presented results for the
8 north here.

9 MR. BROOKS: Thanks, Enric. Sonja.

10 MR. CORTES: The results for the south
11 are available in the ICCAT assessment report and
12 the situation was not as bleak but we did not
13 conduct projections for the south Atlantic.

14 MR. BROOKS: Thanks, Enric. We are
15 going to have one more question here. Sonja.

16 MS. FORDHAM: Sonja Fordham, Shark
17 Advocates. Sorry, it's not a question. It's a
18 clarification. Just, I appreciate that Enric is
19 going to present more later but I just wanted to
20 now mention that taking into account all that he
21 went through, the group in May of this year did
22 underscore -- they made management recommendations

1 which was a ban on retention or no retention
2 policy. I know we will probably go over that for
3 ICCAT but I think it's important for domestic
4 regulations too. Thank you.

5 MR. BROOKS: Thanks, Sonja and Enric
6 again thanks for sharing this with us.

7 MR. CORTES: Sorry for speaking so
8 quick.

9 MR. BROOKS: No, that was just was we
10 needed so thank you. Alright, let's move to
11 public comment and is there anyone in the room who
12 wants to make any public comment at this time?

13 Okay, our webinar participants, this
14 would be your moment for any public comments and
15 operator, if you could make sure that all the
16 lines are open, that would be helpful.

17 OPERATOR: All lines are open.

18 MR. BROOKS: Thanks. Greg, are you
19 there and still wanting to make a comment?

20 MR. DiDIMENICO: I am and I and I really
21 will make it brief.

22 MR. BROOKS: Go for it.

1 MR. DiDAMINICO: This question pertains
2 to just really one topic, the overall issue
3 between licensing and Coast Guard permits et
4 cetera, et cetera. I know I've asked for a lot
5 over the last couple of years and I do appreciate
6 the progress you've made and the one question I
7 had on how to make some immediate progress is can
8 we at least ensure that during the online
9 permitting process, that someone's documentation
10 number a. Is authentic and then b. Can we ensure
11 that once someone receives this permit, that their
12 documentation numbers are pre-displayed on the
13 hull like it is for every other commercial fishing
14 vessel.

15 That, I think is something that can be
16 done relatively easily. Again -- I mean I can say
17 that because I am not the person tasked with it
18 but I understand the limitations of all the other
19 permitting issues but this one, from an
20 enforcement standpoint and I think just from
21 compliance and a realistic on the water issue, at
22 least that someone has a permit to sell, they

1 really really need to have a dealer number on
2 their hull, clearly displayed as it should be by
3 law. So I was hoping we could get some clarity on
4 whether or not that's going to happen or can we
5 please make sure that that is small in terms that
6 could happen. Thank you.

7 MR. BROOKS: Thanks, Greg. Folks here
8 have taken note of the request and will consider
9 that and obviously update the team on the ability
10 to do that. Thanks. Any other public comment on
11 the webinar or again in the room at this point?
12 Glen, I keep looking your way but I know, it's
13 okay. It's breaking my heart here.

14 MR. DELANEY: I'll save it for the
15 ICCAT.

16 MR. BROOKS: Okay. Alright then, in
17 that case, let's shift it to -- oh Marcos, please.

18 MR. HANKE: Very quick for the Caribbean
19 issues. I am sorry to be late here but many
20 fishermen requested this of me. Thanks you Karyl
21 for the email that you sent clarifying about the
22 Cuban dogfish and the (inaudible). Senior to the

1 email, like a pamphlet or educational little
2 material, something that is synthesized and very
3 clear that we can distribute to the enforcements
4 in Puerto Rico and to the fishermen how to follow
5 the rules and regulations on that. I really
6 appreciate that. It would be very handy.
7 Actually I was just corresponding to Raimundo. I
8 think he would agree with me that it is important
9 to gather material to distribute to educate the
10 fishermen about it.

11 MS. BREWSTER-GEISZ: That's a great idea
12 and we can work with you to make that happen.

13 MR. BROOKS: Great, thanks, Marcos.
14 Okay, then I think we want to just shift to
15 wrapping up and next steps and Randy, I'll hand it
16 over to you.

17 MR. BLANKINSHIP: Alright, thanks and
18 thank you everyone for a great meeting. This has
19 been very helpful and informative in a lot of
20 ways. We have covered, in a day and a half, a lot
21 of ground and we have certainly heard a lot of
22 really good suggestions and ideas, a lot of good

1 questions and we have been able to exchange, you
2 know, a lot of information here in both directions
3 and so I really appreciate your time. We'll have
4 the wrap up presentation here, which, once again,
5 I have not seen everything in it. It is not, once
6 again, the full out, full meal deal, you know,
7 detailed presentation we've had sometimes in past
8 meetings.

9 This is a very condensed version. It
10 just hits highlights on topics. We will be --
11 staff are working to summarize key points that we
12 heard and that more detailed presentation will be
13 posted on the website probably in about a week or
14 so and so be on the lookout for that and we'll
15 look forward to hearing any feedback that you all
16 have for that once it is available.

17 So, these -- you know, we did talk about
18 a lot of things related to these major -- again
19 with the default forwarding every five seconds. I
20 love templates.

21 MR. BROOKS: Let me fix it. I think I
22 can fix it.

1 everything that we heard here. Amendment 14, we
2 had questions -- while we had for a lot of
3 information shared there and then the comments
4 that we heard back weren't necessarily
5 specifically about things that are in Amendment 14
6 but we did have a really good productive
7 discussion.

8 We had some questions seeking
9 clarification about shark management domestically
10 versus ICCAT measurement measures that consider
11 sharks as bycatch species and of course,
12 recognizing that the ICCAT convention amendment
13 negotiations are ongoing.

14 In that discussion, we also heard about
15 the need for more funding for shark assessments
16 and also discussion of the Caribbean Shark
17 Management issues especially associated with the
18 Caribbean small boat permit that's valid in the
19 U.S. Caribbean. On the subject of data
20 collection for spatial management of SMH species,
21 we heard the request for summary of funding
22 sources for research and that is something that we

1 provided before and I think the last couple of
2 meetings, we haven't updated that but we can
3 certainly look to update that information and make
4 it available.

5 On the subject of shark population and
6 depredation issues which was a very good
7 discussion, I think, and very interesting. We
8 certainly had discussion on how to go about that
9 data collection, including obtaining good species
10 identification, the need to characterize the
11 problem and mitigate impacts to borrow the
12 phrasing from Marcus Drymon.

13 Also, on the general category cost
14 earnings, we got the presentation on preliminary
15 data there and heard several excellent suggestions
16 from you all that Cliff and George can continue to
17 think about as they work on finalizing the report
18 and the in an HMS recreational roundtable, we
19 heard a lot of really good snippets of
20 information, good subjects, good ideas, and
21 suggestions. Some of them include improvements
22 for recreational reporting, survey improvements,

1 education and outreach on regulations and ideas
2 there. Ideas of the management of the marlin 250
3 limit and discussion of fishing for prohibited
4 sharks.

5 So once again, just a quick overview of
6 some major things there. Look for that more
7 detailed presentation when it's available.

8 So moving along, once again, a
9 noteworthy date upcoming with the pelagic longline
10 bluefin tuna area based and weak hook proposed
11 rule is the additional public hearing that we've
12 announced in Gloucester, Massachusetts on
13 September 19th, we'll keep that in mind and then
14 reminders for you all related to travel to this
15 meeting, please complete the Google travel voucher
16 form by September 13th. The link is provided
17 here. Email receipts to Pete Cooper at the email
18 address provided here and then once again the
19 ICCAT advisory committee members work with VIMS
20 for travel, per the instructions that you've
21 already received on that.

22 If you would, please return your table

1 tents and name badges. This will be to the table
2 up front. Pete, is that right? Yup, to the table
3 up front and if you would, please complete your
4 advisory panel satisfaction survey and we look
5 forward to seeing you in the Spring to continue
6 our discussions and I want to offer a huge thank
7 you to you all for coming once again, for taking
8 the time to be here. Thank you to Bennett for
9 doing such a great job and to the HMS management
10 division staff for doing such a fantastic job. It
11 is truly amazing all the things that are going on
12 behind the scenes that you all don't know about
13 that they are working on and they have done such a
14 great job preparing for this and thanks to Karyl
15 for sitting up here periodically and presiding
16 over the meeting which gave me a chance to sit to
17 the side and think about how things look and what
18 you all are saying from a different perspective.
19 And that concludes my presentation. Anything
20 else?

21 (Clapping)

22 MR. BROOKS: Thanks. Any -- yeah, Tom?

1 MR. WARREN: Just one quick
2 announcement. Somebody left an iPad or tablet on
3 the table outside. I am not sure whether that was
4 intentional.

5 MR. BROOKS: Okay. David?

6 MR. SCHALIT: Just a quick question.

7 MR. BROOKS: Microphone, please.

8 MR. SCHALIT: September 30 is the
9 deadline for public comment, written comment on
10 the spatial weak hook and another -- is there
11 another initiative that is also looking for public
12 comment on that same deadline or is that the only
13 one?

14 MR. BROOKS: No, I think --

15 MR. BLANKINSHIP: No, that's the only
16 one. There is the scoping for amendment 12 which
17 is in November.

18 MR. SCHALIT: Right. Thank you.

19 MR. BROOKS: Any other final comments?
20 Reflections from around the table? If not, then
21 I'll just add my thanks to everyone for a very
22 good meeting here and thanks for those of you who

1 had to navigate uncertainty about a hurricane for
2 making your way here. Thanks everybody, we'll see
3 you in the Spring.

4 (Whereupon, at 11:52 a.m., the
5 PROCEEDINGS were adjourned.)

6 * * * * *

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

CERTIFICATE OF NOTARY PUBLIC

STATE OF MARYLAND

I, Mark Mahoney, notary public in and for the State of Maryland, do hereby certify that the forgoing PROCEEDING was duly recorded and thereafter reduced to print under my direction; that the witnesses were sworn to tell the truth under penalty of perjury; that said transcript is a true record of the testimony given by witnesses; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this proceeding was called; and, furthermore, that I am not a relative or employee of any attorney or counsel employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

(Signature and Seal on File)

Notary Public, in and for the State of Maryland

My Commission Expires: June 7, 2022

