

1 GULF OF MEXICO FISHERY MANAGEMENT COUNCIL

2
3 SHRIMP COMMITTEE

4
5 Webinar

6
7 NOVEMBER 30, 2020

8
9 **VOTING MEMBERS**

10 Leann Bosarge.....Mississippi
11 Kevin Anson (designee for Scott Bannon).....Alabama
12 Roy Crabtree.....NMFS
13 Dale Diaz.....Mississippi
14 Dave Donaldson.....GSMFC
15 Jonathan Dugas.....Louisiana
16 Robin Riechers.....Texas
17 John Sanchez.....Florida
18 Chris Schieble (designee for Patrick Banks).....Louisiana

19
20 **NON-VOTING MEMBERS**

21 Susan Boggs.....Alabama
22 Phil Dyskow.....Florida
23 Tom Frazer.....Florida
24 Lt. Nicholas Giancola.....USCG
25 Martha Guyas (designee for Jessica McCawley).....Florida
26 Joe Spraggins.....Mississippi
27 Greg Stunz.....Texas
28 Ed Swindell.....Louisiana
29 Troy Williamson.....Texas

30
31 **STAFF**

32 Matt Freeman.....Economist
33 John Froeschke.....Deputy Director
34 Beth Hager.....Administrative Officer
35 Lisa Hollensead.....Fishery Biologist
36 Emily Muehlstein.....Public Information Officer
37 Ryan Rindone.....Fishery Biologist & SEDAR Liaison
38 Bernadine Roy.....Office Manager
39 Camilla Shireman.....Administrative & Communications Assistant
40 Carrie Simmons.....Executive Director
41 Carly Somerset.....Fisheries Outreach Specialist

42
43 **OTHER PARTICIPANTS**

44 Patrick Banks.....LA
45 Benny Gallaway.....LGL Ecological, TX
46 Tim Griner.....SAFMC
47 Peter Hood.....NMFS
48 Paul Mickle.....MS

1 Clay Porch.....SEFSC
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[PAGE 23](#): Motion for the GMFMC to send a letter to the SEFSC supporting the development, implementation and funding of the P-Sea WindPlot program. [The motion carried on page 24.](#)

[PAGE 26](#): Motion to request staff to initiate a white paper that explores the associated costs with an expanded number of shrimp vessels participating in the pilot effort collection program using P-Sea WindPlot. [The motion carried on page 27.](#)

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1 The Shrimp Management Committee of the Gulf of Mexico Fishery
2 Management Council convened via webinar on Monday morning,
3 November 30, 2020, and was called to order by Chairman Leann
4 Bosarge.

5
6 **ADOPTION OF AGENDA**
7 **APPROVAL OF MINUTES**
8 **ACTION GUIDE AND NEXT STEPS**
9

10 **CHAIRMAN LEANN BOSARGE:** I would like to call the Shrimp
11 Management Committee to order. Just to remind everyone, the
12 members of this committee are myself as Chair, Mr. Patrick Banks
13 as Vice Chair, and I believe that Mr. Schieble is sitting in for
14 Patrick today, Mr. Anson, Dr. Crabtree, Mr. Diaz, Mr. Donaldson,
15 Mr. Riechers, Mr. Sanchez, and Mr. Swindell.

16
17 The agenda can be found under Tab D, Number 1. Were there any
18 changes or additions for today's agenda? I will give everybody
19 just a minute. Seeing none, the agenda is adopted as presented.

20
21 The minutes from our September 2020 Shrimp Committee meeting can
22 be found under Tab D, Number 2. Were there any revisions that
23 needed to be made to those minutes? I don't see any hands going
24 up, and, if there was anybody, feel free to just speak up. I
25 don't hear anybody speaking up, and so we will consider those
26 minutes approved as presented in the briefing book.

27
28 The Action Guide and Next Steps can be found under Tab D, Number
29 3, and the main agenda item that will take up most of our time
30 today is going to be a presentation by Dr. Benny Gallaway, and I
31 would like to just intro that, since we're waiting to get Dr.
32 Gallaway to a point where he can speak.

33
34 It is pressing. What we have before us is pressing. The shrimp
35 industry has a data collection program that operates on our
36 vessels, and it's called an electronic logbook, but that covers
37 a lot of ground, depending on which industry you're in, and so
38 what our data collection program does on the boats is collect
39 our effort data. In other words, how much time are we spending
40 shrimping and nets in the water in different locations
41 throughout the Gulf of Mexico.

42
43 The reason that we're having this presentation today is because
44 that program is no longer -- That technology, 3G technology, is
45 no longer going to be supported as of I think December 7, which
46 is, what, next week, and so it is a pressing item, and the
47 industry has come together to try and come up with a plan to
48 continue collecting that effort data in an efficient and

1 streamlined process that hopefully will utilize software and
2 equipment that's already on those vessels, for most of the
3 offshore shrimp fleet.

4
5 We've been working with Dr. Gallaway to get that program up and
6 running, to a proof of concept for NMFS, and we've been working
7 with NMFS on this too, and so, today, Dr. Gallaway is going to
8 present to you all the nuts-and-bolts of that industry-led pilot
9 program, and I would encourage you to ask him any questions you
10 may have, because, ultimately, we're going to need a thumbs-up
11 or thumbs-down, in some fashion, from the council on this
12 program, if we want it to become the rule of the land, and so do
13 we have Dr. Gallaway on the phone yet?

14
15 **DR. BENNY GALLAWAY:** Yes, I hope so.

16
17 **CHAIRMAN BOSARGE:** I can hear you.

18
19 **DR. GALLAWAY:** If you can put the screen up, I'm ready to roll.

20
21 **CHAIRMAN BOSARGE:** Okay. Great. I think they're pulling your
22 presentation up now, and so, as soon as they get it up, the
23 floor is yours, sir.

24
25 **PILOT PROGRAM TO EVALUATE USE OF VESSEL NAVIGATION SYSTEM TO**
26 **MEASURE SHRIMPING EFFORT**

27
28 **DR. GALLAWAY:** This presentation -- I want to start with a
29 summary, and so I make sure I get the main information across to
30 you. What I am going to describe is a two-phase project that's
31 actually a multiyear two-phase project to adapt the P-Sea
32 WindPlot navigation software, as necessary, to acquire and
33 transmit shrimp fishing effort, much in the same way it has been
34 done.

35
36 The first phase has been to determine how many federally-
37 permitted vessels use P-Sea WindPlot, test the approach on one
38 or more general vessels, develop procedures to match landings
39 and trip data and, ultimately, to develop a system for
40 electronically transmitting the data to NMFS databases in a
41 seamless fashion.

42
43 The goal of the second phase will be to actually implement the
44 new method, in order to estimate shrimp fishing effort for next
45 year, beginning in the first quarter. The initial work -- This
46 has been an emerging and evolving and fast-moving project, and
47 the initial work has just been modified to include efforts to
48 acquire 3G cELB data that are still being recorded.

1
2 The pilot program began with discussions in August of 2020
3 between NOAA Fisheries and the Southern Shrimp Alliance
4 regarding the looming failure of the current system at the end
5 of the year. The agency had been evaluating options for
6 replacing the cELB program and had reached out to industry to
7 find a cooperative solution.

8
9 Mr. Steve Bosarge, who is President of SSA, brought forth the
10 idea that an almost universal navigation system used by the Gulf
11 shrimp fishery, and that's P-Sea WindPlot, has an internal
12 logbook that perhaps could be modified to enable recording of
13 the date, time, and location data necessary to estimate effort
14 with very little change.

15
16 His idea led to the Phase 1 of the pilot program, and the main
17 objectives were, one, to evaluate the likelihood that indeed the
18 P-Sea WindPlot program is used by a large fraction of the
19 permitted fleet, and this is true, to modify and test the
20 existing software to obtain and record directly the information
21 for estimating effort and how to most effectively pair effort
22 and landings data at the trip level.

23
24 Testing will involve implementing the system on one more
25 actively fishing vessel with a cELB, and that has been equipped
26 and will be leaving the dock on Monday. Working with NMFS, we
27 will also assist in physically collecting the 3G ELB data still
28 being recorded, and that becomes critical, that we need to get
29 that done. We may lose that, if we don't act fast.

30
31 Then we want to develop or confirm that the present stratified
32 random vessel selection process remains appropriate and develop
33 comprehensive procedures manuals for integrating the historical
34 and new estimation procedures. In other words, we want to tie
35 it all together.

36
37 The last steps of the Phase 1 pilot study will be to, working
38 with NMFS, randomly select a yet-to-be-decided number of vessels
39 to utilize P-Sea WindPlot for monitoring effort in 2021, and,
40 lastly, develop a plan to install and equip these vessels with
41 new P-Sea WindPlot systems and train the captains and dealers in
42 its use in the first quarter, and this is critical.

43
44 At present, we plan to obtain the data that's downloaded from a
45 trip on thumb-drives, along with, at the time of landing, the
46 matched landing record, likely on paper. However, we will begin
47 development of an electronic reporting system in the pilot study
48 and finalize it during the coming year of 2021. We provided a

1 background on all of this in Attachments 4(a) and 4(b) and
2 Attachment 1 of this document, which I won't try to go into now,
3 but you're welcome to review that.

4
5 So, where are we? Without consideration of whether a permitted
6 vessel is actively fishing or simply holding a permit, there
7 were a total of 1,392 total permits on August 17, 2020, of which
8 1,283 were valid and another 109 were eligible to be renewed or
9 transferred, and this information was obtained through the
10 Freedom of Information Act, and we noticed that the address of
11 the owner is by state, and it doesn't necessarily correspond to
12 where the vessel is. There are 1,255 Coast-Guard-registered
13 vessels in this database, along with 135 state-registered
14 vessels.

15
16 One of the things we want is to use active vessels with a cELB
17 history, because, when you switch to a new method of estimating
18 fishing effort, this requires careful planning, to ensure that
19 any changes observed are real and not due to a change in method.
20 Therefore, in the first year, the pool of vessels to be
21 considered will be actively fishing permitted vessels with a
22 cELB history and known ports of landing.

23
24 The SSA members within this pool have been contacted, but they
25 were only contacted to determine if the vessel used P-Sea
26 WindPlot, and we have up-to-date contact information and could
27 get in touch with them quickly, to give us a preliminary idea of
28 whether or not we were whistling dixie or had a path forward.

29
30 The evidence that P-Sea WindPlot is commonly, or even
31 universally, used is pretty convincing. NMFS provided us with a
32 list of the permitted vessels, which have actively fished in the
33 past few years, had carried a cELB, and had known ports of
34 landings. John Williams of SSA provided us the up-to-date
35 contact numbers. The pool that we'll be using for the random
36 selection is 577 actively-fishing vessels, and, of these,
37 ninety-four were SSA members.

38
39 100 percent of the SSA component used P-Sea WindPlot, and
40 informed discussions with shrimp fishers across the Gulf
41 reinforced the idea that this software is dominant, if not even
42 universally used. In chatting with the developers of the
43 software, they have literally sold thousands of P-Sea software
44 units in the Gulf of Mexico, and so we're pretty convinced that
45 this is a viable vehicle.

46
47 In getting started, the first thing we did was set up -- We have
48 programmed a stand-alone server, including the necessary

1 software and several dozen custom scrips to run the ELB project,
2 and, just like we have done historically, we could read the trip
3 data, and we could estimate effort. We have tested the programs
4 and validated that we're ready to go. As a starting point, our
5 server is set up to run the existing ELB program. In other
6 words, we're not making a big change in the kinds of data, but
7 we're simply using a different gadget to transmit the data.

8
9 One of the initial thoughts was maybe we could just use it
10 directly, and P-Sea WindPlot has track files, and maybe we could
11 just convert them to what we need, and the track files were
12 determined to contain a lot of useful information regarding
13 locations of tows. The tracking feature, however, does not
14 operate continuously, and is designed to be easily turned on and
15 off, and, based on this, we judged the data currently recorded
16 by P-Sea WindPlot to be insufficient for use as an alternative,
17 to just it directly. It takes a modification. We need a
18 continuous record of date, time, and location and assurity of
19 the location every ten minutes. In response, we began
20 discussions with P-Sea WindPlot to modify the programs, to where
21 we could gather that information.

22
23 We contracted with them to modify their program to capture
24 everything we need, just like we've been getting it, every ten
25 minutes, but it would fall right into the existing program.
26 Upon the P-Sea WindPlot starting, the modified program will
27 produce -- It gathers this information that we've been defining
28 every ten minutes, and I am going to skip through some of these,
29 and you can come back and ask questions, if you have them.
30 Initially, when we retrieve these data on landings, we will copy
31 it to a USB flash drive and get a paper copy of the
32 corresponding landings trip.

33
34 We have also acquired the landings forms from each of the five
35 states, as well as the manual, and we're going to develop a
36 system whereby, when we come in and we get the thumb-drive, we
37 can convert these to spreadsheet data, and then we can reformat
38 the data so that it's compatible with NMFS landings data, and,
39 ultimately, it will be transmitted in a way that I think
40 everyone will find accessible.

41
42 Now our pool, and the 577 actively fishing permitting vessels
43 that we described above, that will be our universe. We will
44 stratify these vessels by port, organized into nine geographical
45 regions, and that is landings by port. Then, within ports,
46 we'll stratify vessels, and this is a description of the regions
47 in question, and this is the same as it has been, and there's
48 been some modification of the port descriptions, but that's all

1 been brought up today.
2
3 Working with NMFS, we want to stratify these ports by total
4 landings, and vessels within these ports, again, will be
5 stratified by landings, and the degree of their participation in
6 the cELB program as well, and the number of selections will be
7 proportional to the weight of each respective strata.
8
9 Once selected, the vessels would be contacted that they have
10 been selected, and it will be determined if the vessel uses P-
11 Sea WindPlot. If not, an alternate selection will be made. The
12 selection procedure will be conducted in cooperation with NMFS.
13 This is -- We're having to work fast and hard and furious, and
14 some of the normal formal protocols need to be laid aside, and
15 we need to work together as a team and get the problem solved,
16 if we're going to be successful.
17
18 Where we're headed now, the modifications to the P-Sea WindPlot
19 are being tested, and the software is complete, and we've
20 actually installed one, and the vessel will be going out. We'll
21 be installing others next week, and we need to -- Once these
22 have proven successful this month, that they are working, that
23 they are downloading the information we need, and it's
24 compatible with what we've been getting, in exactly the same
25 format, using exactly the same updated users manual, we need to
26 begin the random selection of boats for measuring effort in
27 2021, and we also need to jump right on getting the 3G data that
28 have been downloaded, but have not been acquired, and we stand a
29 good chance of losing that if we don't get on that quickly.
30
31 During the upcoming quarter, our plans are -- My entire crew is
32 in the office today, and we're here, and we'll be visiting the
33 boats and helping the captains install the software, and we'll
34 make arrangements to retrieve any available 3G data, and then
35 we'll expand our efforts in April, so that we basically have a
36 full complement going this year. We are proposing that we run
37 the program for two full years, working out all the details,
38 before we pass of a turn-key program to NMFS.
39
40 Then the costs for this initial proposed program, for the labor,
41 are not an ongoing cost, but rather we think that, when we
42 complete this, the ongoing study should require an annual
43 operating budget sufficient to support about two full-time
44 equivalent scientific staff.
45
46 Here is our budget. The first quarter, what we've done so far,
47 has cost about \$327,000. As we go forward with the
48 modifications, for the next couple of years, it's going to cost

1 roughly a million bucks, and I have a breakout of the costs, if
2 you want to see it. The main thing here is get the program
3 going and avoid as many technical barriers to success for the
4 completion. We're in trouble, and we need to get this done.

5
6 I was also asked to answer some questions that the council staff
7 was interested in, and I will try to do that right now. The
8 first question was will the revised P-Sea WindPlot software be
9 compatible with all operating systems versions that the vessel
10 may be currently using. A Shrimp AP member noted that some
11 vessels have very old operating systems.

12
13 To date, 100 percent of the ninety-four federally-permitted
14 vessels that we've contacted use P-Sea WindPlot, and we believe
15 there is good evidence to show that it's the dominant system
16 used in the offshore fleet, but we doubt that it is universal,
17 although we have noted that it is entirely compatible with a
18 wide range of the operating software, from the very old to the
19 very new. It's a flexible -- It's what we need.

20
21 Question 2 is will the software be considered an upgrade that
22 vessel operators will need to pay for, or will it be a free
23 update? We have paid for it through the SSA funding. The
24 upgrade has been paid for and will be provided as a free update,
25 and nobody has to pay.

26
27 Question 3 is, from the AP presentation, it appears that only
28 ninety-four vessels were used in the pilot study, and it goes on
29 and goes on, and I would just like to cut that short. The
30 ninety-four vessels do not constitute the pilot study fleet.
31 These were only used to estimate the likelihood that P-Sea
32 WindPlot was widespread in the fleet. We had good contact
33 information, and we could contact them in a matter of hours or
34 days, and not weeks or months, and so the pilot study will be
35 randomly selected, using the existing protocols from the 577
36 permitted vessels that we defined above.

37
38 Question 4 is the sixty-six of the ninety-four vessels were
39 located in Texas, and that's of the SSA and so forth and so on,
40 and I would like to just skip to the answer. These vessels were
41 not intended to be a representative sub-sample of the fleet.
42 These vessels had known contact information, enabling us to move
43 forward in a timely fashion, and we had to move forward to draw
44 the representative sample from the 577 vessels.

45
46 What will the revisions that the software developer is working
47 on with Dr. Gallaway address? Well, they address the issue of
48 determining tow time versus transit. This program -- The beauty

1 of this program is it will provide exactly the same information
2 as both of the historical ELB and cELB systems.

3
4 At the end of the program, the data, and hopefully the paired
5 landings data, will be provided directly to a secure NMFS
6 server, and we're giving ourselves one to two years to get that
7 done, where it should -- The data should come in, and a couple
8 of staff members should be providing it to the NMFS server, and
9 there should be no interruption in service, once we get it
10 going.

11
12 How do you see the effort data collected from the shrimp vessels
13 being shared with the Science Center in the short term for the
14 pilot study and the long term, when the modified program is
15 handed over to the Science Center?

16
17 We plan on handing over the effort data, in both the short term
18 and long term, directly to the Science Center without any
19 complications about who owns what. The revised P-Sea WindPlot
20 software will also be transferred to NMFS, and so we envision a
21 direct working relationship between the industry and NMFS, led
22 by the Southern Shrimp Alliance and NMFS, and our role would be
23 to facilitate the relationship between the professional
24 organizations and the agency and the on-the-ground fishermen.

25
26 That slide now goes into all the background stuff that you might
27 want to know about, but you might now, but it's back there if
28 you want to peruse it at your interest, and I tried to go fast,
29 Leann. If I haven't covered it all, please feel free to ask a
30 question.

31
32 **CHAIRMAN BOSARGE:** I think you did very well, considering the
33 time we have. Thank you, Dr. Gallaway. I would like to open
34 the floor now to council members or staff or others that may
35 have questions about Dr. Gallaway's presentation, or comments.
36 I see a couple of hands up. Mr. Sanchez.

37
38 **MR. JOHN SANCHEZ:** Thank you, Leann. I just wanted to thank Dr.
39 Gallaway for a quick and detailed presentation, and, in my
40 opinion, it sounds like a really viable solution to an expiring
41 cellular logbook program and the technology, and I'm very
42 pleased to hear that so much work has been done on this. Thank
43 you.

44
45 **DR. GALLAWAY:** Thank you.

46
47 **CHAIRMAN BOSARGE:** Okay. Next, I have Dr. Clay Porch.

48

1 **DR. CLAY PORCH:** Thank you, Benny, for that presentation, and I
2 think that was really helpful. I just wanted to clarify a
3 couple of points. First, I think, for Phase 1, you're talking
4 about collecting the 3G data manually, or assisting us with that
5 collection, and, two, you would collect the P-Sea WindPlot data
6 manually. Along with that, you're asking the P-Sea WindPlot
7 folks to modify the existing tracking software to output vessel
8 tracking information in a way that we can use it calculate
9 effort.

10
11 **DR. GALLAWAY:** That is exactly right.

12
13 **DR. PORCH:** Okay, and then the last thing is you would be
14 developing the software for estimating effort from that P-Sea
15 WindPlot output, right?

16
17 **DR. GALLAWAY:** Yes, and that's pretty much done, because we
18 don't need the cELB modifications, and we go back to the string
19 of consistent data, and so those manuals are -- That server is
20 actually set up. We've got that software and those developments
21 already done, and we're -- That's the only place, but we're
22 ahead of the game there.

23
24 **DR. PORCH:** So then, for Phase 2, the main thing is that you
25 would be developing a system to transmit that information
26 securely and directly to a NMFS server.

27
28 **DR. GALLAWAY:** That is correct, plus making sure that the people
29 who are acquiring the -- The captains and the dealers are all on
30 the same page and know what they're doing. Where these things
31 fall down usually is people start guessing about what they
32 should be doing and make wrong guesses, and we're going to try
33 to train the fleet to where it's as professionally done as
34 humanly possible.

35
36 **DR. PORCH:** Okay. Thank you.

37
38 **CHAIRMAN BOSARGE:** All right. Next, we have Dr. Crabtree.

39
40 **DR. ROY CRABTREE:** This is promising, and it does seem, to me,
41 that, one, we're going to need to secure funding to get this
42 done, and, right now, that's hard to say, because, at the
43 moment, we have funding through December 11, and then it's
44 unclear what will happen at that point.

45
46 Then it does seem to me that we would need to work on an
47 amendment of some sort, which would require that you have to
48 have the software aboard the vessel, so that, if you're selected

1 to participate in the program, you can actually do that. Now,
2 it sounds like a high percentage of the fleet is already having
3 this, and so that wouldn't be that much of a burden, but how you
4 go about what vessels would be selected, which I guess the
5 Center and Dr. Gallaway would work out how that protocol works,
6 but I think you would need an amendment to require that the
7 permitted vessels have this software onboard.

8
9 **DR. GALLAWAY:** That's outside the range of what I would be
10 answering, but my comment is let's see to what extent that is a
11 problem, before we start addressing the solution, and let's get
12 out and -- Let's do the work and find out where we need to go
13 from there.

14
15 **DR. CRABTREE:** Well, I would caution you about the amount of
16 time it takes to get through an amendment, and it can be
17 considerable.

18
19 **CHAIRMAN BOSARGE:** Roy, I agree that, if we need an amendment,
20 we do want to get started on that, sooner rather than later, and
21 I think the first step to determining if we need an amendment or
22 not is to actually have the codified text that's in the rulebook
23 presented to the council for us to review and have an educated
24 discussion as to how the regulations are written currently and
25 where we need to go from there. I would encourage staff to
26 bring us that back, sooner rather than later, so that we begin
27 that discussion and really see where we need to land on that.
28 Mr. Anson, I have you next.

29
30 **MR. KEVIN ANSON:** Thank you, Madam Chair. Yes, those were a
31 couple of questions that I had, was the funding and were the
32 agency was in that, looking down the road. Then the idea of
33 some sort of amendment, and that's what my comment was going to
34 be, is it takes us time to get through that, and so it wouldn't
35 hurt to try to do some of the groundwork in advance, and your
36 point that you just made is a very good idea, and I would agree.

37
38 Dr. Gallaway, on Slide 12, you mentioned matching effort with
39 landings, and you mentioned that you had trip ticket examples
40 from all of the Gulf states but Alabama, and so I'm just
41 wondering -- Did we just -- You asked us, and we didn't provide,
42 or did you not ask, and I don't think it would be an issue, if
43 it's not too late.

44
45 **DR. GALLAWAY:** No, I wouldn't say that at all. It's just been
46 hectic, and we've just been moving on several different fronts
47 simultaneously, but I'm sure there's no problem. If there is, I
48 know who to call.

1
2 **MR. ANSON:** All right. Sounds good. Thank you.
3
4 **CHAIRMAN BOSARGE:** Mr. Anson, I actually tried to find some of
5 those for Dr. Gallaway, and I couldn't find a -- I looked on
6 your website, and I was trying to find just like a blank one to
7 send to him, a template, but I didn't see one, and so, if you
8 could send that to him, that would be greatly appreciated, or
9 send it to me, and I will send it on to him. Next, I have Mr.
10 Diaz.
11
12 **MR. DALE DIAZ:** Thank you, Ms. Bosarge. I agree with Dr.
13 Crabtree. I do think what Dr. Gallaway has presented is very
14 promising, and I do want to commend the industry for stepping
15 up. I mean, there is a great need, and we find ourselves here,
16 kind of at the last hour, trying to put something together, and
17 I do want to commend the industry for stepping up.
18
19 We talked a little bit about funding, and that's my concern, but
20 I guess I'm concerned on a couple of levels with funding. It
21 looks like the industry has already put up over \$300,000 to get
22 this thing kicked off, and, from Dr. Gallaway's presentation,
23 there is a question-mark on how it's going to be funded in the
24 future, and I believe that question-mark has behind it a
25 question-mark of industry and NOAA, maybe at some split level.
26
27 I guess my question would be for Dr. Porch. Is there any
28 funding to help support this effort in the next couple of years,
29 Dr. Porch? Then I have a follow-up.
30
31 **CHAIRMAN BOSARGE:** Dr. Porch.
32
33 **DR. PORCH:** Sure. Thank you. There is two issues with regard
34 to funding, especially if we were going to go forward with LGL.
35 One, I'm not completely sure we can justify a sole-source
36 contract, and we would have to bid it out, but, two, at that
37 level of funding, we don't have any funds to support that. That
38 would be pretty much unprecedented for this fishery, and we've
39 never had base funds for that sort of thing, and so we would
40 need some new funding to come into the system.
41
42 Along those lines, one thing I would like to mention is -- I
43 think it was Mr. Anson that mentioned the potential delay in
44 this, and we could continue to use the 3G systems. They just
45 can't transmit. That's what ends on December 7, but the units
46 will still collect information, and so, as Benny mentioned, we
47 can download that information directly.
48

1 We still actually have a lot of units in storage, and so, if
2 some folks are -- If some of their units are breaking down, we
3 can actually replace them. It's an added expense, because now
4 we have to manually go download all the information, which we
5 could either do with port agents, which is expensive, or maybe
6 we can work out some system where someone can download the
7 information on thumb-drives and send it to us.

8
9 There's a lot of details that need to be worked out there, but
10 the point is we can still continue to use the 3G system while
11 the new system is being developed, but, in answer directly to
12 the question, no, we don't have funds to cover a million dollars
13 a year for this fishery.

14
15 **MR. DIAZ:** I would strongly, I guess, ask, request, that you all
16 do whatever you can to seek out some funding, to see if there's
17 a way to support this program. I think it's a good program,
18 from the way it's been described, and I'm excited that the
19 industry is behind it, and I would encourage you and your staff
20 to work as closely as possible with the industry and Dr.
21 Gallaway and try to look for any problems that, at this point,
22 that could be a deal-killer, because I have a fear that a lot of
23 money is going to be spent and then something comes up to be a
24 deal-killer way down the road that might could have been
25 addressed upfront, and I don't know that that's going to happen,
26 but that's just in the back of my mind, and so I would ask that
27 you all please try to work as closely as possible and look at
28 this thing as closely as possible, to make sure that no money is
29 wasted here, if possible. Thank you, Dr. Porch.

30
31 **CHAIRMAN BOSARGE:** Thank you, Mr. Diaz, and I would agree. I
32 hope we get to those types of issues later in this conversation,
33 but, you know, as far as the cost goes, the old program that we
34 used to have was on the order of the same cost that we're
35 looking at now, which is remarkable, because that was quite some
36 years ago, and I am pulling these costs straight from the
37 amendment that we had, the framework action to establish funding
38 responsibilities for that program.

39
40 I am looking in December of 2018, just for nine months of the
41 old cELB program, and it was \$800,000 for nine months, and so,
42 if you carry that out three more months, that's pretty close to
43 what the cost is here, and we funded that program.

44
45 NMFS funded that program, for many, many years, and this was
46 under Dr. Ponwith's time, as the director, and she, at some
47 point, decided that we were going to switch to the cellular
48 electronic logbook program, and so that million dollars that had

1 been being spent to have it run through LGL -- She was going to
2 bring that money in-house and hire some personnel and buy the
3 equipment and run that program there, and so where did the
4 million dollars a year go, I guess, that we don't have it now?

5
6 I'm sure nobody can answer that readily, but I just kind of
7 wanted to make the point that we have funded this in the past,
8 and at levels comparable to these, and that money seems to be
9 evaporating into other areas, I guess, and we need to make this
10 a priority and try and find the funds, and I understand that
11 probably can't come from NMFS and that industry is going to have
12 to work hard to try and push the right buttons and get that
13 money through, but I hope that that will be a joint effort and
14 we can make that happen. Next, I have Mr. Sanchez.

15
16 **MR. SANCHEZ:** Madam Chair, my hand must have still been up.

17
18 **CHAIRMAN BOSARGE:** Okay. No problem. Next, I have Mr.
19 Schieble.

20
21 **MR. CHRIS SCHIEBLE:** Thank you, Madam Chair. Both yourself and
22 Dr. Porch answered my primary question. My main question was
23 the timing of this and what is the current funding source for
24 this, and where is it going, and why is there trouble finding a
25 similar amount of funding for a new program. Dr. Porch answered
26 my other question.

27
28 I guess my only other comment is a portion of Louisiana's
29 offshore fleet may have some, I guess, need for a time or a
30 buffer or some sort of period of instituting the new technology.
31 I think a lot of it is antiquated in the fleet right now, and
32 we'll need a little bit of leeway or buffer period to get this
33 implemented in most of the fleet, and so it would be good if
34 something similar to what we're doing with SEFHIER, when we know
35 when the implementation date will be and how long -- If we could
36 have a time period of transition over, and that's my only other
37 comment. Thank you.

38
39 **CHAIRMAN BOSARGE:** Thank you, sir. I appreciate those comments.
40 I don't see any other hands up, and I think I would like to turn
41 it over to Dr. Freeman to kind of get us on track and get us
42 pointed in the right direction for where we need to land on
43 this, but, first, I see Dr. Porch's hand up, and let's go to him
44 first.

45
46 **DR. PORCH:** Thank you. I am not quite sure where the million
47 dollars came up. I mean, we had -- That's probably closer to
48 the entire cost of the shrimp program, including stock

1 assessments and everything else, and, in the case, basically
2 things are more expensive now than they used to be, and we've
3 been flat funded, and so, just like many people can relate to
4 that, it basically means that you're going to end up decreasing
5 services, and so, in other words, when somebody -- Every time we
6 get a raise and no one pays for it, that's a few positions that
7 we can't hire, and so that program, like everything else now,
8 has fewer people supporting it, but I don't recall ever looking
9 at the books where there is a million dollars going just to the
10 shrimp effort estimation.

11
12 Now, there were some reimbursements, through various programs,
13 for the price of the 3G units that we had, and, in fact, we
14 still have some in stock, and maybe she was counting -- If
15 Bonnie gave you those numbers, maybe she is counting the cost of
16 paying for those 3G units.

17
18 **CHAIRMAN BOSARGE:** All right. Thanks, Clay. Dr. Freeman, do
19 you want to get us pointed in the right direction and tell us
20 what you need from this committee, please?

21
22 **DR. MATT FREEMAN:** I can do that. Ms. Bosarge, would you like
23 for me to discuss the Shrimp AP motions as well at this point?

24
25 **CHAIRMAN BOSARGE:** Yes, sir.

26
27 **DR. FREEMAN:** Okay. Dr. Gallaway gave a similar presentation to
28 the Shrimp AP at their November webinar meeting, and, following
29 an AP discussion and questions for Dr. Gallaway on his
30 presentation, they gave a lengthy motion, but a detailed one.

31
32 The Shrimp AP requests the council to request NMFS to fully
33 implement and fund a new shrimp effort data collection system,
34 otherwise known as electronic logbooks, in the Gulf of Mexico
35 beginning in 2021, based on the methods and the results of the
36 pilot program using P-Sea WindPlot technology conducted by Dr.
37 Gallaway. Such a system must collect and analyze effort data
38 that is sufficient to evaluate compliance with the shrimp
39 fishing effort cap for sea turtles as well as compliance with
40 the applicable shrimp fishing effort reduction threshold for
41 addressing juvenile red snapper bycatch. Such effort data must
42 also be sufficient to evaluate federal and state marine spatial
43 management proposals in the Gulf, in order to minimize their
44 impacts on the shrimp fishery, including, but not limited to,
45 coral protection areas, artificial reef sites, and NOAA
46 aquaculture opportunity areas and aquaculture facility sites.
47 The collect and analysis of this effort data should be, where
48 feasible, integrated with the agency's collection and analysis

1 of shrimp catch data. Such a system should be limited to
2 collecting effort data and not be expanded to require shrimp
3 fishermen to submit landings data, economic data, or gear
4 information, as these data are already collected in a timely and
5 efficient manner by means other than electronic logbooks, and so
6 placing them into the new electronic logbook system for
7 collecting shrimp effort data would place unnecessary burden on
8 the fishermen. That motion carried unanimously.

9
10 At this point, if the committee could direct staff if there are
11 additional items related to the effort reporting program that
12 the committee would like explored, and we can do that, and,
13 again, just if the committee can specify what those requests
14 are.

15
16 **CHAIRMAN BOSARGE:** Okay. The short and sweet of the motion,
17 because I think I might have been the only council member that
18 attended that AP meeting, and I think Dr. Frazer listened in
19 some too, but it was that the industry and the AP was very
20 supportive of using the P-Sea WindPlot program, which is our
21 computer plotter program we have on the boats, to collect the
22 same effort data that the old cellular electronic logbook device
23 used to collect.

24
25 They wanted to see that moved forward and collect pretty much
26 the same data that we've always collected, and that is to say
27 they weren't supportive of some of the options that were
28 presented to the council at the last meeting, where we were
29 going to expand this program to include collecting gear
30 information and tow-level data and all these sorts of things,
31 and they wanted to see our programs continue as it is currently,
32 with a few minor tweaks, if necessary, just through a different
33 device, through the P-Sea WindPlot program.

34
35 Now, I won't say that they were totally opposed to having some
36 of that information collected at some point in the future, and
37 there was some discussion about some of that, but, right now,
38 they wanted to focus on the pressing issue that's in front of us
39 and just keep that going.

40
41 **DR. FREEMAN:** Ms. Bosarge, if I can add to that, and that's a
42 very nice segue, and so, as you mentioned, Dr. Gloeckner gave an
43 abbreviated presentation to the AP, similar to what was
44 presented to the council in September, on potential expanded
45 reporting options, and if I can read that motion.

46
47 As Ms. Bosarge mentioned, the AP made a motion to recommend that
48 the council select an option of status quo, so as not to be

1 burdensome to the industry, where the reporting aligns with the
2 current reporting requirements, and that motion carried
3 unanimously, and so, again, as Ms. Bosarge mentioned, they were,
4 in essence, looking at maintaining the current reporting for
5 effort and not expanding the report at this point.

6
7 **CHAIRMAN BOSARGE:** Thank you, Dr. Freeman. Was there anything
8 else in that AP report that you wanted to take us through before
9 we continue this data collection portion of this conversation?

10
11 **DR. FREEMAN:** I believe those were the two relevant motions for
12 Dr. Gallaway's presentation, and I believe the remainder can
13 come up later, when I specifically go through the meeting
14 summaries.

15
16 **CHAIRMAN BOSARGE:** Okay. I had a question for Dr. Porch. At
17 our last council meeting, we had a discussion on a lot of
18 carryover funds that we're going to have, due to the fact that
19 our meetings have been held virtually and we haven't been able
20 to have all the AP meetings that we normally have.

21
22 We have a lot of excess funding that we're going to try and
23 carry over and utilize, and I would imagine that NMFS is in that
24 same position, and I don't know to what degree, but I would
25 think you would have some extra travel funds, and you probably
26 have some extra money from your white ships that do the surveys,
27 SEAMAP and such, when they couldn't get out there, and is there
28 any possibility to use some of this excess funding, as a result
29 of COVID, towards funding this, come January?

30
31 **DR. PORCH:** The Southeast Fisheries Science Center no longer has
32 any carryover that's available. That was -- Some fraction of
33 the carryover that we did have that wasn't already obligated for
34 other activities has actually gone into the National Marine
35 Fisheries Service pool and has been redistributed to other
36 priority activities.

37
38 **CHAIRMAN BOSARGE:** All right. That's sad to hear, because, you
39 know, when we implemented the cellular electronic logbook
40 program, if you read the document, the council document, about
41 the funding for that, at that point, the council wrote a letter,
42 in 2012, requesting that some of this BP money, this RESTORE Act
43 money and NRDA money, actually be used to fund this electronic
44 logbook program for the shrimp industry.

45
46 It's very disheartening that we always seem to take a backseat
47 to everything else, and there's all this money out there, and we
48 started asking for it almost a decade ago, and, yet, none of it

1 has been allocated to the things that we really need as an
2 industry. Mr. Sanchez, go ahead.

3

4 **MR. SANCHEZ:** I appreciate the acknowledgement, but I don't know
5 why. My hand is, I think, down, and so I have nothing further.

6

7 **CHAIRMAN BOSARGE:** All right. I am going to pose the question,
8 I guess, to Dr. Porch, and I think Dr. Gloeckner is listening in
9 as well. Dale mentioned possible headwinds, and I would like to
10 hear from you. Are there any headwinds that we need to start
11 working on now, so that this program could possibly become a
12 reality?

13

14 **DR. PORCH:** I guess I'm not quite sure what you mean in terms of
15 headwinds.

16

17 **CHAIRMAN BOSARGE:** The one headwind that I think I have heard
18 rumblings of is the manner in which the data is submitted to you
19 all. For this project to become a reality and be implemented as
20 our new logbook program, is email good enough? Is a thumb-drive
21 good enough? How exactly do you have to have the data in hand?

22

23 It used to be collected by port agents, and we used to actually
24 have men on the ground that came and got this data off the boat,
25 and then Dr. Ponwith changed that and put it under this cellular
26 program, where the data gets uploaded through a cellphone signal
27 and goes to NMFS.

28

29 Well, the problem with that is that the technology changes so
30 fast that the devices can't keep up with it, and so that seems
31 like a no-go, and so how are you going to need to receive this
32 data for this to become a reality?

33

34 **DR. PORCH:** Well, we can handle it by getting on thumb-drives,
35 or potentially people mailing in chips, and I don't know that we
36 could do it by email, and we can look into that, but, ideally,
37 it would be transmitted to us through a secure site
38 electronically, which is what would be in Phase 2 of Dr.
39 Gallaway's proposal.

40

41 We could possibly have it submitted through an API, and maybe
42 that's the easiest way to go forward, and so I think there is
43 ways that we can do it, but it just requires somebody to
44 download the information off of the machine and go ahead and
45 send it to us, and so it requires a little bit of labor on the
46 fishermen's part, or somebody, and so, basically, through a
47 website, a secure website.

48

1 I think it's doable, and it's more labor intensive for us, and
2 so we'll have to find a way to do it, and it will slow down the
3 process, given our current budget, because we're not in the
4 position to hire a lot more people to process the information,
5 but it could conceivably be done.

6
7 **CHAIRMAN BOSARGE:** Okay. Well, that's good to hear, and so it
8 sounds like, if we have to use thumb-drives for a little while,
9 and mail those into you, that we could get by with that for a
10 while, until we can get something better and more efficient in
11 place. I have Dr. Simmons' hand up and then Mr. Diaz.

12
13 **EXECUTIVE DIRECTOR CARRIE SIMMONS:** Thank you, Madam Chair. I
14 had a question, and I believe it's for the Science Center or
15 Regional Office, and then also for Ms. Levy. Based on my
16 understanding of the current ELBs, there is essentially hardware
17 still that's associated with that that's on the vessels that
18 could be maintained, and then, eventually, that information
19 could be collected on the vessels, and then, eventually, someone
20 could obtain that data, that effort data, off of there.

21
22 Have the permit holders that are participating in that program
23 been notified that they should maintain that hardware on their
24 vessels, and, if that is indeed, I guess, the will of the
25 council and NMFS, would we need to make any changes to the
26 regulations based on that?

27
28 **DR. PORCH:** I can answer that. We're about to send a letter
29 notifying all the selected permit holders that they need to keep
30 turning the machine on, so that it collects the information.

31
32 **CHAIRMAN BOSARGE:** Carrie, that machine that we have on the
33 boat, it really is something that operates in the background,
34 and we don't mess with it, and we don't really have to do
35 anything with it, and so I would imagine they will just keep
36 collecting data, just like they always have, and the fishermen
37 won't really touch it.

38
39 Then, hopefully, through Dr. Gallaway's program, as he
40 mentioned, as he's going out to some of these boats, he can
41 start collecting some of that information for us and getting
42 that back to the Science Center.

43
44 **EXECUTIVE DIRECTOR SIMMONS:** Thank you.

45
46 **CHAIRMAN BOSARGE:** All right. Then I have Dale Diaz.

47
48 **MR. DIAZ:** I sent a motion to staff about writing a letter, and

1 if staff could pull that motion up on the board. I know we're
2 running short on time, and I am just trying to get something out
3 of this committee that shows some support for the pilot program,
4 and I am -- If somebody has some other wording they would like
5 to add to this, I would be willing to accept some amendments. I
6 am going to ask you to modify my motion just a little bit.

7
8 **My motion would be for the Gulf of Mexico Fishery Management**
9 **Council to send a letter to the Southeast Fisheries Science**
10 **Center supporting the development, implementation, and funding**
11 **of the P-Sea WindPlot program.**

12
13 **MR. SANCHEZ:** Madam Chair, if I may, I would like to second
14 that. I am in support of this as well.

15
16 **CHAIRMAN BOSARGE:** Okay, and so we have a motion by Mr. Diaz,
17 and we have a second by Mr. Sanchez. Dale, I think we have your
18 motion on the board. Just make sure that's how you want it
19 worded, and I think we've got it the way you asked.

20
21 **MR. DIAZ:** Yes. That's my motion.

22
23 **CHAIRMAN BOSARGE:** Thank you, sir. We have a couple of hands
24 up. First, I have Mr. Anson.

25
26 **MR. ANSON:** It's not relative to the motion. I had raised it
27 earlier, but I would be in support of the motion. Thank you.

28
29 **CHAIRMAN BOSARGE:** All right. Thank you, Mr. Anson. Do I need
30 to come back to you after the motion, Mr. Anson?

31
32 **MR. ANSON:** Please.

33
34 **CHAIRMAN BOSARGE:** Okay. Next, we have Dr. Porch.

35
36 **DR. PORCH:** Thank you. Just to make sure that I was clear on my
37 earlier comments about funding, the problem is that, here, we
38 still have -- We probably are still spending around a million
39 dollars on the whole program, and so this would be asking for
40 us, if we were to fund Benny's proposal, to come up with an
41 additional -- We just don't have that kind of funding in our
42 budget.

43
44 **MR. DIAZ:** Ms. Bosarge, can I respond, please?

45
46 **CHAIRMAN BOSARGE:** Yes, sir. Go ahead.

47
48 **MR. DIAZ:** Dr. Porch, I guess what I am wanting to encourage in

1 my motion is that you pursue funding, and, you know, the funding
2 might -- I don't know how all of this will work out, and it
3 might be some partnership between federal funding and private
4 funding, but I just want to encourage us to move forward and try
5 to get the system up and running, if possible.

6
7 **CHAIRMAN BOSARGE:** Thank you, Mr. Diaz. Is there any further
8 discussion on the motion on the board? All right. **Seeing none,**
9 **is there any opposition to the motion? Hearing no opposition,**
10 **the motion carries.** I am going to circle back to you, Mr.
11 Anson.

12
13 **MR. ANSON:** Thank you, Madam Chair. Just following-up on a
14 couple of things that were brought up in some of the discussion
15 that's been had in the last five or so minutes, but you had
16 asked whether or not the funds that would be remaining or left
17 over from the council's budget would be available, and maybe Dr.
18 Simmons could address that, and then the second item is do we
19 need -- You had posed the question, and maybe even Dr. Freeman
20 posed the question, about specific items that the committee
21 would need, or the council would need, to direct staff to do,
22 and so I'm just wondering if that's still out there in your mind
23 that we need to do.

24
25 **CHAIRMAN BOSARGE:** All right, and so I will let Dr. Simmons
26 follow up on your question, first. Dr. Simmons.

27
28 **EXECUTIVE DIRECTOR SIMMONS:** Thank you, Madam Chair. I mean,
29 that's up to the council's discretion. We have 2020 funds left
30 over, and I think it was close to a million, I believe, that was
31 unspent. It's up to the council. We cannot give the money
32 directly to the feds though. You have to work a different way
33 to do that, and so we would have to figure that out.

34
35 **CHAIRMAN BOSARGE:** All right, and the second part of Kevin's
36 question -- Yes, Kevin, I think that we're going to need to have
37 a Shrimp Committee, at a future meeting, hopefully sooner rather
38 than later, because we're under a time constraint, and we're
39 going to need to see, number one, how the regulation reads right
40 now, as far as the requirement to carry an electronic logbook,
41 if selected by the Science Center.

42
43 We need to see that regulation in front of us, in order to have
44 a discussion, an educated discussion, about what kind of
45 document is needed, if any, I guess. I see Mara's hand up, and
46 so let me let her chime in, real quick.

47
48 **MS. LEVY:** Thank you. We could definitely look at the

1 regulation, and it's basically one sentence, but we also need to
2 look at what details are both in the framework action that you
3 most recently did to do the cost-sharing and what is in the
4 amendment that put the ELB into place, because those things
5 aren't codified, but they are what the council did, and they do
6 have the costs and what equipment is required and discussions
7 about expectations for permit holders, et cetera, and more
8 details about the program.

9
10 I just encourage staff, when they put together the current
11 requirements, or the background, that we look at both the
12 regulation as well as the details that are not in the
13 regulations.

14
15 **CHAIRMAN BOSARGE:** All right. Thank you, Ms. Levy. The other
16 thing that we'll need to have before us will be some more
17 detailed information on some of these costs and some of these
18 budgets. We probably need to have in front of us the budget
19 that Clay was speaking to, the I guess million dollars that they
20 have right now, and what that million covers for them, what they
21 run with that. Dr. Gallaway's costs for this program, he put
22 that in his slides, but we can get some more details on that.
23 Then what it will cost the industry, what the cost to industry
24 will be, if we move forward to this, if there is any, but that
25 needs be fleshed out, and so I think those are all things that
26 we can take up at a future committee meeting. Mr. Anson, did
27 you have some more follow-up on that?

28
29 **MR. ANSON:** Just one more thing to add to the background
30 material, and it's something that we've discussed off and on
31 when we have issues related to the ELB units and permits in the
32 shrimp fishery, and that is a selection process, and that might
33 need to come from the Science Center staff, as to how the ELB
34 units, the requirements for the vessels, were established, and
35 so some of that background material as well could be helpful.
36 Thank you.

37
38 **CHAIRMAN BOSARGE:** Okay. That sounds good, and I think that Dr.
39 Gallaway was actually involved in that initial parameterization
40 of how those were selected, because it is pretty detailed and
41 pretty in-depth, as to how they went about that, and I think
42 it's actually in some of our background briefing materials for
43 this meeting, but I think you're right, that that would be nice
44 to have presented to us in more detail, when we have more time,
45 and so that's three things right there that we need to put on a
46 future Shrimp Committee agenda. I see a couple more hands up
47 again, and we have Mr. Diaz and then Dr. Gallaway.

48

1 **MR. DIAZ:** Thank you, Madam Chairman. If I could, I emailed
2 another motion to staff, a little while ago, if they could bring
3 that up, and so this other motion, Leann, would be to try to get
4 at what you were just speaking at just now, and so what I'm
5 trying to accomplish is I'm trying to accomplish to get the
6 staff to do some of this work for us and to come back at a
7 future meeting and answer most of the budget questions that you
8 just talked about, so we had that information in front of us at
9 future meetings. We might have to wordsmith this a little bit.

10
11 **My motion would be to request staff to initiate a white paper**
12 **that explores the associated costs with the expanded number of**
13 **shrimp vessels participating in the pilot effort collection**
14 **program using P-Sea WindPlot.** If I get a second, I will
15 elaborate a little bit more.

16
17 **CHAIRMAN BOSARGE:** Okay, and so we have a motion on the board.
18 Do we have a second?

19
20 **MR. SANCHEZ:** I will second it.

21
22 **CHAIRMAN BOSARGE:** All right. Thank you. Dale, I like your
23 motion. While they're getting it up there, the one thing I
24 would say, and I'm not sure if you're capturing this in that
25 motion right now, but I think it's not only the costs that are
26 associated with the P-Sea WindPlot program, but we need to be
27 able to compare that to the funds that may be available, and so
28 I think that's going to go back to looking at the budget that we
29 have within the Science Center right now that Clay spoke to and
30 how those funds are allocated, so that we know do we have the
31 right number of personnel, how do things need to change there,
32 and then, also, compare it to I guess the possibility of some of
33 the carryover funds that are available from the council, which
34 that's going to be a big discussion, but that needs to be in
35 front of us, if we think that could be an option. As long as
36 staff is capturing all of that in this motion, I'm okay with it,
37 but, if you don't think they are, then we could amend it, if you
38 would like.

39
40 **MR. DIAZ:** You basically laid out a lot of what I was going to
41 say for rationale, and so I will leave that up to Dr. Simmons,
42 if they need me to change the wording of the motion, and I
43 intend for them to bring back as much information as they can
44 related to budget on the items you just discussed and any other
45 items that they come up with. Is the wording okay, Dr. Simmons,
46 do you think, to capture what me and Ms. Bosarge are talking
47 about?

1 **CHAIRMAN BOSARGE:** Dr. Simmons.

2
3 **EXECUTIVE DIRECTOR SIMMONS:** Thank you, Madam Chair. I think we
4 might need to bring some of that back to the Admin/Budget
5 Committee that we're talking about, and then, as far as the
6 Science Center's budget goes, I mean, we can certainly work with
7 them, and perhaps put some of that information, potentially, in
8 the white paper, but we're talking about two different budgets
9 here, two different pots of money, and so I just think we need
10 to avoid confusion with that, and be clear, but, yes, we'll do
11 our best to bring this back to the council with this
12 information.

13
14 **CHAIRMAN BOSARGE:** All right. Thank you, Dr. Simmons. I think
15 your motion is fine as it stands then, Dale. Dr. Gallaway,
16 you've had your hand up for a while. Is it okay if we dispense
17 with this motion and then I will come to you, or do you want to
18 go ahead and chime-in now?

19
20 **DR. GALLAWAY:** You can come back to me.

21
22 **CHAIRMAN BOSARGE:** Okay. Thank you, sir. All right. Is there
23 any further discussion on the motion on the board? **Hearing**
24 **none, is there any opposition to the motion on the board?**
25 **Hearing no opposition, the motion carries.** Dr. Gallaway, go
26 ahead.

27
28 **DR. GALLAWAY:** Slide 30 has more detail, and you may notice that
29 it's heavily weighted towards senior people and travel and
30 programming, because we've got to go from Brownsville to the
31 Florida Keys and meeting with all the individual ports and the
32 port leaders, getting buy-in and sales and cooperation for this
33 program.

34
35 We've got to identify people who have their electronics within
36 port and put together a program that has total buy-in, and so
37 that's why these initial costs are so heavy. We need to rely on
38 our history with the industry and make sure that we're all on
39 the same page and looking to find a working answer, and so
40 that's the breakout of the budget, and more detail is provided
41 in Slide 30, which you may have already noted that.

42
43 **CHAIRMAN BOSARGE:** Thank you, Dr. Gallaway, and I'm sure that
44 staff will probably reach out to you, if they have any
45 questions, because they'll be bringing some of this information
46 back to us at a future meeting.

47
48 All right, and so we are, obviously, over time, and we do have

1 one other agenda item here, an AP summary, but we'll bring this
2 to a close, and, anything that we missed, we can pick up at Full
3 Council, unless Dr. Freeman has something that he thinks we need
4 to follow-up on right now.

5
6 **DR. FREEMAN:** I think that will be fine, to go through the rest
7 of this at Full Council.

8
9 **CHAIRMAN BOSARGE:** All right. Then I will bring the Shrimp
10 Committee to a close.

11
12 (Whereupon, the meeting adjourned on November 30, 2020.)

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