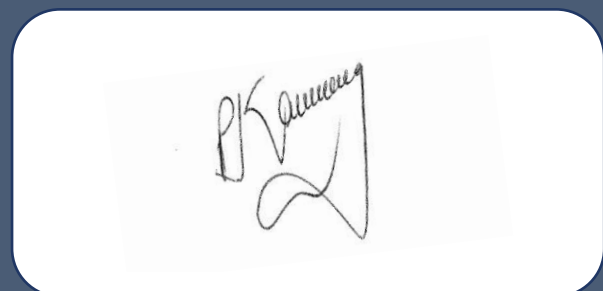




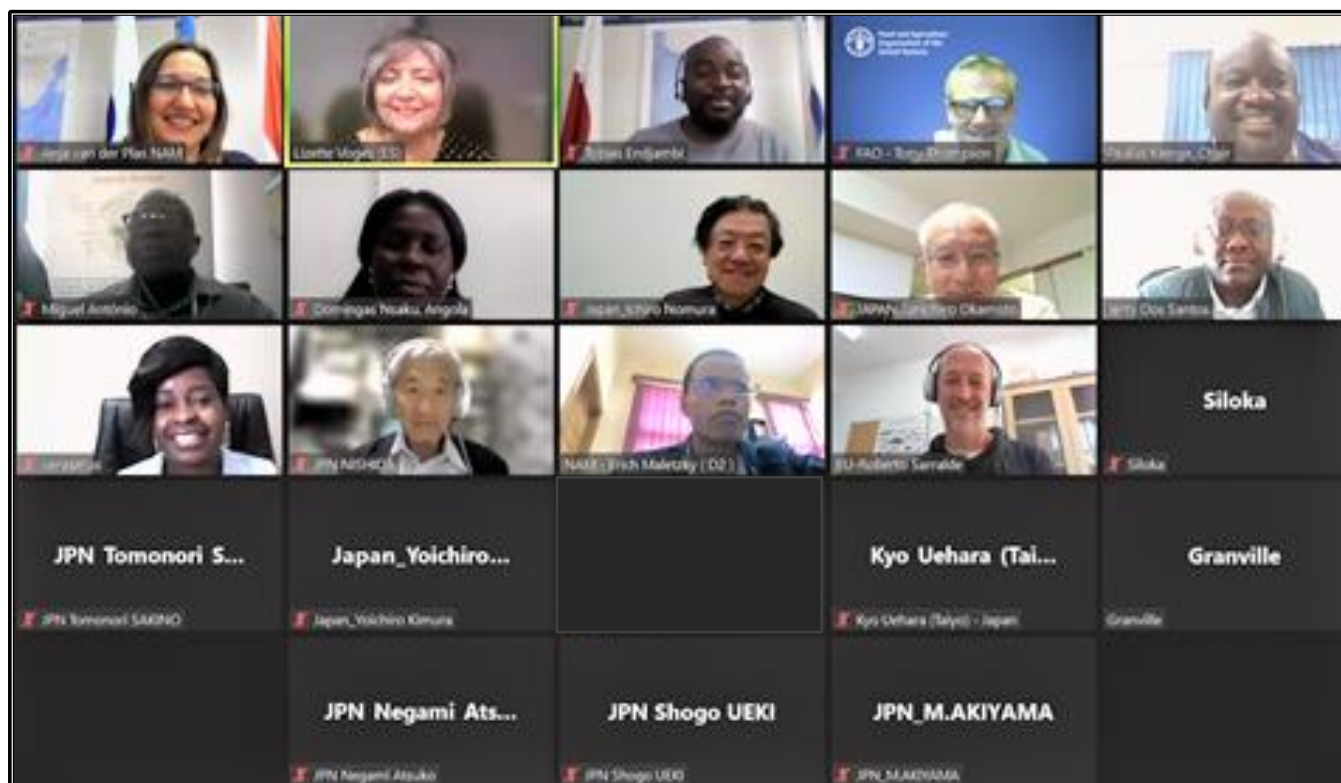
SOUTH EAST ATLANTIC FISHERIES ORGANISATION
REPORT OF THE 17TH ANNUAL MEETING OF THE SCIENTIFIC
COMMITTEE - 2021

15 – 19 November 2021
Virtual

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“Group Photo” of the SC delegation on the 18th November 2021

1. Opening of meeting by the Chairperson

The 17th Annual Meeting of the SEAFO Scientific Committee (SC) was convened between 15 and 19 November 2021 via the Zoom video platform.

The interim chairperson, Dr. Paulus Kainge from Namibia, was nominated by the meeting to stand in for the Vice-chairperson, Mr. Granville Louw from South Africa. The vice-chairperson had to replace the chairperson, Dr. Åge Høines from Norway, after Norway exited as a Contracting Party to SEAFO at the end of October 2021.

Dr. Kainge opened the meeting and emphasized that it would be a discussion of scientific issues and that all delegates were expected to express their scientific views so that issues are resolved, and the best possible advice forwarded to the Commission.

2. Appointment of Rapporteur

The Secretariat was appointed as rapporteur for the 17th SEAFO Scientific Committee meeting.

3. Adoption of agenda and meeting arrangements

SC adopted the agenda ([Appendix I](#)) with the following amendments:

- Japan suggested to prioritize the agenda in the following order due to the limited time available to conduct the meeting:

Agenda points: 8-10; 11; 15; 7; 14; 18; 19; 20; 16; 17; 18

- Newly introduced points under Agenda Point 11 (Stock Status Reports)
Japan submitted a discussion paper on the “Need for consistent scientific & English names and FAO codes for crabs in the SEAFO CA”.
- Newly introduced points under Agenda Point 16 (Any other matters)
16.1 Dr. Anthony Thompson (FAO) requested to convey some information regarding the new Deep-Sea Fisheries (DSF) Project.
16.2 Japan to outline exploratory fishing plans for 2022.

Members were informed of the practical arrangements for the meeting by the Executive Secretary. She indicated that Portuguese/English interpretation will be available during the meeting, and that technical support would also be available during the meeting.

4. Introduction and Admission of Observers

Three observers attended the meeting – contact details listed under the “Observers” section of [Appendix II](#).

- Dr. Anthony Thompson for the FAO.
- Dr. Amelia Bridges from the University of Plymouth (to provide feedback on the modelling work done on VME prediction in the cooperation project between SEAFO/FAO-Nansen and CEFAS).
- Dr. Pål Mortensen from the Institute of Marine Research (IMR), Norway (to provide feedback on the 2019 Dr Fridtjof Nansen survey and the planning of the 2022 survey).

5. Introduction of Delegates

A total of 22 Scientific Committee members attended the 17th SEAFO SC meeting (see [Appendix II](#) for list of participants). No members from the Republic of Korea attended the meeting. There was also no participation of South African members during the first three days of the SC meeting; until the Vice-Chair, Mr. Granville Louw joined on the fourth day

of the meeting. He chaired the meeting on the last day. The Namibian delegation included 2 delegates from the Fisheries Observer Agency of Namibia. The Japanese delegation included 12 delegates from the Research Institute, Fisheries Agency and Industries.

6. Review of submitted SEAFO working documents and any related presentations, allocation to the agenda items

A total of 13 working documents were submitted to the Scientific Committee for review and were considered during the 17th SEAFO SC meeting ([Appendix I](#)).

7. Review of the 2020/2021 work program.

During the 2020 SC meeting, the work program for 2020 was not discussed due to the shortage of time. The work program for 2020 was therefore forwarded to 2021 for completion, and covered the following areas of work:

7.1 Establish an Orange roughy Task Team (with Namibia as a coordinator) to develop survey design protocols and criteria intersessionally. The Task Team will consist of four members from Namibia, the EU, Norway and South Africa ([DOC/SC/03/2021](#)).

SC agreed to revive this exercise and a Task Team consisting of four members from Namibia, the EU, Angola and South Africa will work on DOC/SC/03/2021 intersessionally to present results of said work at the 2022 SC meeting.

7.2 Establish a working group (Secretariat, Namibia and EU) that will collect and collate all available orange roughy data and analyze CPUE.

The ES informed the meeting that Namibia did collate the orange roughy data and handed it over to the Secretariat. Having been duly completed, the SC agreed to have this point removed from the agenda and the 2021 SC Work Plan.

7.3 Collect samples of orange roughy in the Namibian EEZ, South African EEZ and SEAFO CA for genetic comparison at the University of Stellenbosch. Mr. Granville Louw (South Africa) to draft a guideline protocol for the collection and storage of genetics samples.

No feedback was received by the time of the 2021 SC meeting on the preparation of the guideline protocol. As such SC agreed to have this Work Plan item rolled over to the 2022 SC meeting, and for the guideline protocols to be prepared intersessionally and presented at the 2022 SC meeting.

7.4 Establish a Task Team to prepare the survey plan for the 2020 EAF Nansen Survey and to give feedback from the 2019 & 2020 Nansen surveys (final and preliminary reports, respectively) at the next SC meeting.

The SC agreed to have this point removed from the SC Work Plan since the planned survey for 2020 was delayed to 2022.

7.5 South Africa to continue with the orange roughy data (catch depths & length frequencies) analysis for catches recorded in the EEZ.

Collating of this information is ongoing and the SC agreed to have this agenda item rolled over to the 2022 SC meeting.

7.6 Draft guidelines for using scientific data (video footage & survey counts) in the determination of threshold limits of VME encounters in relation to guidelines in other RFMOs and scientific bodies – assigned to ES. ([DOC/SC/14/2021](#)).

The ES informed SC that the Secretariat contacted various RFMOs and other scientific organisations to find out if any guidelines on the aforementioned issue exist and presented the findings at the 2021 SC meeting. A number of organisations are actively pursuing this field of work, but no guidelines were available at this point in time. The ES noted that the SEAFO Secretariat will be monitoring the progress by other organisations on this work, including the FAO, and will provide an update on this at the 2022 SC meeting.

8. Report by the Executive Secretary presenting landing tables updated to August 2021.

The Executive Secretary presented data and related information submitted by CPs during 2020 and 2021. All retained and discarded catches were presented in the landings tables ([DOC/SC/05/2021](#)).

The ES noted that only two vessels fished in the CA during 2021. By the end of August 2021, the Japanese vessel landed 23 tonnes of Deep-sea red crab from Division B1 and the Spanish vessel landed 16 tonnes of Patagonian toothfish from Sub-Area D.

Furthermore, the Spanish vessel conducted two sets in Sub-Area C during April 2021. Bycatch data from the Spanish trip are still being validated and will be assimilated into the landing database (and landings tables) once the data verification is done.

During the 2021 SC discussions Japan requested that an additional column be added to the end of all landing tables where the catch totals per year (i.e., across all SEAFO fishing areas and CPs) should be recorded.

9. Review spatial and temporal distribution of fishing activity and biological data.

The spatial distribution maps for all fishing activities recorded from September 2020 to the end of August 2021, as well as the biological data tables, were presented to SC by the Executive Secretary.

The SC reviewed the spatial and temporal maps as provided and noted that fishing activities occurred in the traditional fishing grounds, except the two longline sets in Sub-area C.

10. Review the spatial distribution of reported catches of benthic organisms (corals, sponges etc.).

The SC reviewed the updated data on incidental catches of VME species from the bottom longline fishery (see Tables 23-38 of [DOC/SC/05/2021](#) for data on VME catches). The SC reviewed both the quantities and spatial distribution of catches.

11. Review Stock Status Reports

11.1 Patagonian toothfish - ([DOC/SC/06/2021](#))

The SC reviewed and approved all changes made to the report during the 2021 SC meeting.

11.2 Orange roughy - ([DOC/SC/07/2021](#))

The SC reviewed and approved all changes made to the report during the 2021 SC meeting.

11.3 Deep-sea red crab - ([DOC/SC/08/2021](#))

The SC reviewed and approved all changes made to the report during the 2021 SC meeting.

Japan presented a working document to inform the SC meeting of the inconsistency in the English names, Scientific names as well as the FAO ASFIS codes used in SEAFO for the main crab species that is managed. From genetic studies done on various crab species in 2019 ([Hernández et al, 2019](#)), it is shown that the crab species which appears in the SEAFO CA was identified as *Chaceon erytheiae*.

SEAFO will continue to use the *Chaceon erythraea* (deep-sea red crab) as the dominant crab catch species in the SEAFO area. FAO will add this species to the next update of the ASFIS species list.

11.4 Pelagic armourhead / Southern boarfish - ([DOC/SC/09/2021](#))

The SC reviewed and approved all changes made to the report during the 2021 SC meeting.

11.5 Alfonsino - ([DOC/SC/10/2021](#))

The SC reviewed and approved all changes made to the report during the 2021 SC meeting.

12. Review research activities in the SEAFO CA since October 2020 to date

No new research activities were conducted within the SEAFO CA during this period.

Dr. Pål Mortensen (from IMR, Norway) presented more results to SC from the 2019 Dr Fridtjof Nansen survey in the SEAFO CA.

13. Examine, where appropriate, assessments and research done by neighbouring States and other organisations

13.1 Dr. Amelia Bridges (from Plymouth University) presented the results from her PhD study on the spatial transfer of habitat suitability models to areas beyond the original spatial context models. She noted that this work was built on the cooperation project of SEAFO/FAO-Nansen and CEFAS ([DOC/SC/12/2021](#)).

The SC expressed appreciation for her presentation of the results that sheds more light on the conditions (and caveats) around the extrapolation (or transferal) of habitat suitability models from data rich to data poor areas.

13.2 Dr. James Bell (CEFAS) submitted a document ([DOC/SC/11/2021](#)), for the information of the SC, on the RRS Discovery Expedition 143 Survey Plan to Ascension Island and St Helena from 22 November 2021 to 17 January 2022.

14. Data Requests and Research Proposals

Dr. Pål Mortensen introduced a discussion on the proposed 2022 Dr. Fridtjof Nansen survey intended to focus on the seamount cluster in Division A1 of the SEAFO CA. The survey proposal was prepared in 2018 for the 2020 survey, and was circulated from the

FAO/Nansen Program to SC members for consideration and as a proposal for the aforementioned 2022 survey.

A working group comprising of Mr. Roberto Sarralde (EU), Mr. Tobia Endjambi (Namibia), Dr. John Kathena (Namibia) and Dr. Anthony Thompson (as an observer for the Deep Sea Fisheries Project) will review the Sailing Order for the May 2022 EAF Nansen Survey in the SEAFO CA as soon as possible.

15. Review Total Allowable Catches and related management conditions for Patagonian Toothfish, Alfonsino, Amourhead, Orange Roughy and Deep-sea red crab.

Upon completion of the respective Stock Status Reports, the SC recommended TAC's for Patagonian Toothfish, Alfonsino, Amourhead, Orange Roughy and Deep-sea red crab for 2022/2023.

15.1 Orange roughy

SC considered available data on orange roughy since the inception of the fisheries in the SEAFO CA and noted the following:

There is no fishery data available since 2005 for orange roughy within the SEAFO CA. As a result, SC cannot conduct stock assessment of the orange roughy stock within the Convention Area. The conservation measure 32/16 on a directed fishery for orange roughy was discussed in detail during the 2018 SC meeting. Historically, most of the catches were made in Division B1. There currently is a zero tonnes allocation in place for the entire SEAFO CA - with a 4 tonnes bycatch allowance in Division B1, and 50 tonnes in the remainder of the SEAFO CA (subject to exploratory fishing protocols). SC recommends that this measure be rolled over to 2022-2023.

For 2023-2024, the SC recommends that a research quota is set for a pre-planned research survey inside Division B1, to be conducted with a suitable commercial vessel. A task team has been established to draft a survey proposal for the Commission's approval.

A harvest control rule shall be developed for orange roughy in the future as data becomes available.

15.2 Deep-sea red crab

New data were received for 2020 and 2021 on which the 2021 assessment was conducted. Applying the HCR based on an average of the CPUE slopes (2016-2020), a TAC estimate of 162 tonnes was derived. SC therefore recommends a TAC for Division B1 of 162 tonnes and 200 tonnes (status quo) for the remainder of the SEAFO CA for 2022-2023.

15.3 Patagonian toothfish

New data were received for 2020 and 2021 on which the 2021 assessment was conducted. Applying the HCR based on the average of the CPUE slopes (2016-2020) for catches recorded on Meteor and Discovery Seamounts a TAC estimate of 261 tonnes was calculated. As such the SC recommends a TAC of 261 tonnes for Sub-Area D, and a zero TAC for the remainder of the SEAFO CA for 2022-2023.

15.4 Alfonsino

The SC recommends a TAC of 200 tonnes (status quo) for the SEAFO CA, of which a maximum of 132 tonnes may be taken in Division B1 for 2022-2023.

15.5 Pelagic Armourhead / Southern boarfish

The SC recognizes that the uncertainties expressed in the past are still relevant and thus advises that the status quo (135 tonnes) in the SEAFO CA be maintained for 2022-2023. It should be emphasized that the state of this stock is currently still unknown.

16. Any Other matters

16.1 Anthony Thompson (FAO) provided an update on the development of the ABNJ Deep Sea Fisheries Project (DSF).

The Scientific Committee supports SEAFO in becoming a partner to the DSF Project and recommends that this is approved by the Commission.

16.2 Japan to outline exploratory fishing plans for 2022.

Japan informed the meeting of its plan to submit a Notice Of Intent for another exploratory fishing trip towards the end of January 2022.

17. Collate advice and recommendations to the Commission on issues emanating from the 2021 meeting

Agenda point 15.1

Context: Orange Roughy.

Advice: The SC recommends a TAC for 2022-2023 of zero tonnes (moratorium) with a 4 tonnes bycatch allowance in Division B1 and 50 tonnes in the remainder of the SEAFO CA, subject to exploratory fishing protocols

For 2023-2024, the SC recommends that a research quota is set for a pre-planned research survey inside Division B1, to be conducted with a suitable commercial vessel. A task team has been established to draft a survey proposal to be presented to the Commission for approval.

Agenda point 15.2

Context: Deep-sea red crab.

Advice: SC recommends a TAC for 2022 - 2023 to be set at 162 tonnes for Division B1, and 200 tonnes (status quo) for the remainder of the SEAFO CA.

Agenda point 15.3

Context: Patagonian toothfish.

Advice: The SC recommends a TAC for 2022-2023 for Sub-Area D of 261 tonnes and a zero TAC for the remainder of the SEAFO CA.

Agenda point 15.4

Context: Alfonsino.

Advice: The SC recommends a TAC for 2022-2023 of 200 tonnes (status quo) for the SEAFO CA, of which a maximum of 132 tonnes may be taken in Division B1 for 2022-2023.

Agenda point 15.5

Context: Pelagic armourhead / Southern boarfish

Advice: The SC recommends a TAC for 2022-2023 of 135 tonnes (status quo).

18. 2022 Work Program

The SC compiled the work program for 2022 which includes activities pending from 2020 and the remainder of 2021. The 2022 SC Work Plan is as follows:

18.1 Establish an Orange roughy Task Team with Namibia (as a coordinator) to develop survey design protocols and criteria intersessionally. SC agree to revive this exercise which started in 2019 and a Task Team consisting of four members from Namibia, EU, Angola and South Africa should work on DOC/SC/03/2021 to present at the 2022 SC meeting.

18.2 Collect samples of orange roughy in the Namibian EEZ, South African EEZ and SEAFO CA for genetic comparison at the University of Stellenbosch.

The EU, South Africa and Namibia will review a suitable guideline protocol for the collection and storage of genetics samples. Namibia will liaise with the University of Stellenbosch to follow up on the process of collecting and submitting samples for analysis and to get an updated quotation for the analysis. The collection of genetic samples of the Namibian EEZ, South African EEZ and the SEAFO CA will continue.

18.3 South Africa to continue with the orange roughy data (catch depths & length frequencies) analysis for catches recorded in the EEZ for reporting at the 2022 SC meeting.

18.4 Annual total columns to be added to all the landing tables by the Executive Secretary.

18.5 Explore tagging protocols for toothfish in order to understand the population connectivity better. Assigned to Mr. Roberto Sarralde (EU).

18.6 Finalize the work on the standardised SEAFO SC Catch maps for presentation and adoption at the 2022 SC Meeting (Mr. Erich Maletzky, Namibia).

19. Budget for 2022

The SC requested to keep the N\$220,000.00 for genetic analysis of orange roughy samples which was allocated to the budget in 2019.

20. Election of New Chair and Vice-Chair for 2022-2024

According to the SC Rules of Procedure Part III (10), South Africa and Angola were elected as chair and vice-chair respectively for the next 3 years (2022-2024).

21. Adoption of the report

The 2021 Scientific Committee Report was adopted at 11:26 on Friday, 19 November 2021.

22. Date and place of the next meeting

The EU, Japan, South Africa and Namibia suggested the dates of the next meeting to be from 15-18 Nov 2022 in Swakopmund, Namibia at the discretion of the Commission.

Angola proposed the first two weeks of October 2022 or the first two weeks in December since the November dates does not suit them. If the meeting is scheduled for November, Angola will attend the meeting only if they are available at that time.

23. Closure of meeting

On Friday 19 November 2021 at 11:30, the Chairperson declared the 17th SEAFO Scientific Committee meeting closed. The Chairperson expressed his satisfaction for the work accomplished and thanked all participants and the Secretariate for their valuable contributions.

APPENDIX I – List of Documents, Agenda and Annotated Agenda of the 17th Scientific Committee Meeting

DOC/SC/00/2021

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<p>South East Atlantic Fisheries Organisation (SEAFO)</p>	

LIST OF DOCUMENTS FOR THE 17TH SCIENTIFIC COMMITTEE MEETING (SC) – 2021

ACTING CHAIRPERSON: Mr. Granville Louw (SA 2019 - 2021)
VICE-CHAIR:

VENUE: Virtual
DATE: 15-19 November 2021

Document Ref. Number	Agenda Item	Document Title	Provider	Availability of Document
DOC/SC/00/2021	All	List of documents	Secretariat	Available before meeting
DOC/SC/01/2021	All	Provisional agenda of the 17 th Meeting of the Scientific Committee	Secretariat	Available before meeting
DOC/SC/02/2021	All	Provisional annotated agenda of the 17 th Meeting of the Scientific Committee	Secretariat	Available before meeting
DOC/SC/03/2021	7	Exploratory Orange roughy Fishing Protocol in SEAFO (2019)	Task Team (NAM, EU, SA)	Available before meeting
DOC/SC/04/2021	12	Dr Fridtjof Nansen Survey 2019 – Cruise Report	EAF Nansen Project	Maybe at Meeting
DOC/SC/05/2021	8/9/10	Landing tables 2021	Secretariat	Available before meeting
DOC/SC/06/2021	11	Stock Status Report – Patagonian toothfish	SC Members 2019 and Secretariate	Available during meeting
DOC/SC/07/2021	11	Stock Status Report – Orange roughy	SC Members 2019 and Secretariate	Available during meeting
DOC/SC/08/2021	11	Stock Status Report – Deep-sea crab	SC Members 2019 and Secretariate	Available during meeting
DOC/SC/09/2021	11	Stock Status Report – Pelagic armourhead/Southern boarfish	SC Members 2019 and Secretariate	Available during meeting
DOC/SC/10/2021	11	Stock Status Report – Alfonsino	SC Members 2019 and Secretariate	Available during meeting
DOC/SC/11/2021	13	RRS Discovery Survey to Tristan da Cuhna & St Helena	Cefas	Maybe at Meeting
DOC/SC/12/2021	13	Report of VME modelling – CECAF/Nansen/SEAFO	CECAF	Available before meeting

Page 1 of 2

DOC/SC/00/2021

DOC/SC/13/2021	14	EAF Nansen survey proposal for 2022	EAF Nansen Project	Maybe at Meeting
DOC/SC/14/2021	7	Ideas on VME quantification from videos	Secretariate	Available before meeting

DOC/SC/01/2021



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South East Atlantic Fisheries Organisation (SEAFO)

PROVISIONAL AGENDA FOR THE 17TH MEETING OF THE SCIENTIFIC COMMITTEE (SC) - 2021

CHAIRPERSON: Mr. Granville Louw (SA 2019 - 2021)**VENUE:** Virtual**VICE-CHAIR:****DATE:** 15-19 November 2021

Item	Agenda Item	Working Document
1	Opening of meeting by Chairperson	
2	Appointment of Rapporteur	
3	Adoption of agenda and meeting arrangements	DOC/SC/01/2021 DOC/SC/02/2021
4	Introduction & admission of Observers	
5	Introduction of Delegations	
6	Review of submitted SEAFO working documents and any related presentations, allocations to the agenda items	DOC/SC/00/2021
7	Review of the 2020 & 2021 work program	DOC/SC/03/2021 DOC/SC/14/2021
8	Report by the Executive Secretary presenting landing tables updated to the end of August 2021	DOC/SC/05/2021
9	Review spatial and temporal distribution of fishing activity and biological data	DOC/SC/05/2021
10	Review the spatial distribution of reported catches of benthic organisms	DOC/SC/05/2021
11	Review Stock Status Report 11.1 Patagonian toothfish 11.2 Orange roughy 11.3 Deep-sea crab 11.4 Pelagic armourhead / Southern boarfish 11.5 Alfonsino	DOC/SC/06/2021 DOC/SC/07/2021 DOC/SC/08/2021 DOC/SC/09/2021 DOC/SC/10/2021
12	Review research activities in the SEAFO CA since October 2020	DOC/SC/04/2021
13	Examine, where appropriate, assessments and research done by neighboring States and other organizations (Survey Tristan de Cuna & Modeling results)	DOC/SC/11/2021 DOC/SC/12/2021
14	Data Request & Research Proposals (Nansen survey proposal 2022)	DOC/SC/13/2021
15	Review Total Allowable Catches and related management conditions for Patagonian toothfish, Alfonsino, Amourhead, Orange roughy and Deep-sea Red Crab	

DOC/SC/01/2021

16	Any other matters	
17	Collate advice and recommendations to the Commission on issues emanating from the 2021 meeting	
18	2022 Work Program	
19	Budget for 2022	
20	Election of Chair and Vice-chair	
21	Adoption of the report	
22	Date and place of the next meeting	
23	Closure of meeting	

DOC/SC/02/2021



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South East Atlantic Fisheries Organisation (SEAFO)

PROVISIONAL ANNOTATED AGENDA FOR THE 17TH MEETING OF THE SCIENTIFIC COMMITTEE (SC) - 2021

CHAIRPERSON: Mr. Granville Louw (SA 2019 - 2021)
VENUE: Virtual**VICE-CHAIR:****DATE:** 15-19 November 2021

-
1. **Opening of meeting by the Chairperson**
The Chairperson will open the meeting and welcome delegates.
 2. **Appointment of Rapporteur**
The Chairperson will ensure the appointment of the rapporteur who will take minutes of the Scientific Committee meeting.
 3. **Adoption of agenda and meeting arrangements**
Members will review and adopt the agenda. Delegates will be informed of any practical arrangements for the meeting by the Executive Secretary ([DOC/SC/01/2021](#) & [DOC/SC/02/2021](#)).
Due to limited time available for virtual sessions, the agenda can be adjusted accordingly before adoption.
 4. **Introduction and admission of Observers**
The Chairperson will announce observers present.
 5. **Introduction of Delegations**
The Chairperson will allow participants to introduce themselves.
 6. **Review of submitted SEAFO working documents and any related presentations, allocation to the agenda items**
Members will review research/working documents and presentations submitted ([DOC/SC/00/2021](#)).
 7. **Review 2020/2021 work program**
SC listed the following tasks for 2020 which was carried over to 2021:
 - 7.1 Establish an Orange roughy Task Team with Namibia (as a coordinator) to develop survey design protocols and criteria intersessionally. The Task Team will consist of four members from Namibia, EU, Norway and South Africa ([DOC/SC/03/2021](#)).
 - 7.2 Establish a working group (Secretariat, Namibia and EU) that will collect and collate all available orange roughy data and analyse CPUE.

DOC/SC/02/2021

- 7.3 Collect samples of orange roughy in the Namibian EEZ, South African EEZ and SEAFO CA for genetic comparison at the University of Stellenbosch. Mr. Granville Louw (South Africa) to draft a guideline protocol for the collection and storage of genetics samples.
- 7.4 Establish a Task team to prepare the survey plan for the 2020 EAF Nansen Survey and to give feedback from the 2019 & 2020 Nansen surveys (final and preliminary reports, respectively) at the next SC meeting.
- 7.5 South Africa to continue with the orange roughy data (catch depths & length frequencies) analysis for catches recorded in the EEZ.
- 7.6 Draft guidelines for using scientific data (video footage & survey counts) in the determination of threshold limits of VME encounters in relation to guidelines in other RFMOs and scientific bodies – assigned to ES. ([DOC/SC/14/2021](#)).

- 8. Report by the ES presenting landing tables updated with data received until 31 August 2021**
The Executive Secretary will present all landings, incidental by-catches and discard tables ([DOC/SC/05/2021](#)).
- 9. Review spatial and temporal distribution of fishing activity and biological data**
Members will review the catches and spatial distribution of non-benthic species as reported by the fishing vessels from 1 September 2020 to 31 August 2021 and make recommendations if necessary ([DOC/SC/05/2021](#)).
- 10. Review the spatial distribution of reported catches of benthic organisms (corals, sponges, etc.)**
Members will review the spatial distribution of benthic organisms as reported by the fishing vessels 1 September 2020 to 31 August 2021 and make recommendations if necessary ([DOC/SC/05/2021](#)).
- 11. Review the Stock Status Report**
Members will review the 2021 compiled Stock Status Reports and update where necessary ([DOC/SC/06/2021](#); [DOC/SC/07/2021](#); [DOC/SC/08/2021](#); [DOC/SC/09/2021](#); [DOC/SC/10/2021](#)). The documents are available on the SC meeting SHAREPOINT.

During the 2019 SC meeting, tasks were assigned to various members to update the Stock Status reports intersessionally. No discussion was done during the correspondence meeting. The Executive Secretary will send reminder emails early in 2021 to the members responsible for the tasks below to be ready for the 2021 meeting.

See the tasks listed below from the 2019 SC meeting:

- Patagonian toothfish: Make length-frequency graphs more legible, align x-axes for all graphs and include modal length on individual graphs to easily view size changes across years – assigned to Dr. Tsutomu Nishida. (**DONE**)
- ALL STOCKS STATUS REPORTS: Standardize referencing across Stock Status Reports – assigned to Executive Secretary. (Referencing was sent to members and are included in the latest SSRs - **DONE**)
- STOCKS STATUS REPORTS: Update & validate Alfonsino (BYS) Stock Status Reports catch maps and tables (3, 4 & 5) – assigned to Dr. Arved Staby. (**DONE**)
- ALL STOCKS STATUS REPORTS: Standardize maps across Stock Status Reports (preferably design an R-script for catch positions and hexagonal aggregations of catch totals per year) – assigned to Mr. Erich Maletzky.

DOC/SC/02/2021

- **STOCKS STATUS REPORTS:** Standardize and update all tables in the Pelagic armourhead (EDR) Stock Status Reports – assigned to Mr. Granville Louw.
- 12. Review research activities in the SEAFO CA since October 2020**
Members will review research activities conducted between October 2019 and date of SC meeting. SC will discuss and review information regarding the EAF-Nansen survey done in 2019 – if a survey report is available by then ([DOC/SC/04/2021](#)).
 - 13. Examine, where appropriate, assessments and research done by neighbouring States and other organisations**
Members will examine CCAMLR's assessments and, if applicable and available, assessments from South Africa, Namibia and Angola.
 - Amelia Bridges from Plymouth University will make a presentation on the modelling work done on VME in the cooperation project of SEAFO/FAO-Nansen and CEFAS ([DOC/SC/12/2021](#)).
 - James Bell submitted a report on the RSS Discovery Survey to Tristan da Cunha & St Helena survey if he gets permission to share the report. ([DOC/SC/11/2021](#)).
 - 14. Data Requests and Research Proposals**
 - A proposal for another Dr Fridtjof Nansen survey during 2022 in the SEAFO CA will be presented by the EAF Nansen Project ([DOC/SC/13/2021](#)).
 - 15. Review Total Allowable Catches and related management conditions for Patagonian Toothfish, Alfonsino, Amourhead, Orange Roughy and Deep-sea Red.**
SC will recommend TAC's for Patagonian Toothfish, Alfonsino, Amourhead, Orange Roughy and Deep-sea Red Crab for 2022/2023.
 - 16. Any other matters**
 - 17. Collate advice and recommendations to the Commission on issues emanating from the 2021 meeting**
SC will collate all the recommendations emanating from the Commission meeting for adoption.
 - 18. 2022 Work Plan**
SC to compile a work plan for 2020.
 - 19. Budget for 2022**
SC will compile a budget for 2022.
(There is a provision of N\$ 220 000 in the budget which was allocated for genetic analysis).
 - 20. Election of New Chair and Vice-Chair for 2019-2021**
SC will appoint the new Chair and Vice-Chair for the next 3-year period.
 - 21. Adoption of the Report**
Members will review and adopt the 2021 SC report.
 - 22. Date and place of next meeting**
Members will agree on a date and venue for the 2022 SC meeting to be approved by the Commission.
 - 23. Closure of the meeting**
The Chairperson will close and adjourn the meeting.

APPENDIX II – List of Participants: 2021 Scientific Committee Meeting**CHAIRPERSON****Paulus KAINGE**

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