

REPORT OF THE SCIENCE COMMITTEE (SCICOM), SEPTEMBER 2022

VOLUME 2 | ISSUE 13

ICES BUSINESS REPORTS



International Council for the Exploration of the Sea Conseil International pour l'Exploration de la Mer

H. C. Andersens Boulevard 44–46
DK-1553 Copenhagen V
Denmark
Telephone (+45) 33 38 67 00
Telefax (+45) 33 93 42 15
www.ices.dk
info@ices.dk

Cover Image: © Crown Copyright / Marine Scotland. All rights reserved.

This document has been produced under the auspices of an ICES Expert Group or Committee. The contents therein do not necessarily represent the view of the Council.

© 2022 International Council for the Exploration of the Sea.

This work is licensed under the Creative Commons Attribution 4.0 International License (CC BY 4.0). For citation of datasets or conditions for use of data to be included in other databases, please refer to ICES data policy.



ICES Business Reports

Volume 2: Issue 13

Report of the Science Committee (SCICOM), September 2022

Recommended format for purpose of citation:

ICES. 2022. Report of the Science Committee (SCICOM), September 2022. ICES Business Reports, 2:13. 45 pp. <https://doi.org/10.17895/ices.pub.21610404>



ICES
CIEM

International Council for
the Exploration of the Sea
Conseil International pour
l'Exploration de la Mer

Contents

i	Executive summary	3
1	Opening	4
2	Introduction of agenda and timetable	4
3	Follow-up on decisions taken at the May 2022 meeting of SCICOM and on SCICOM Forum) and other action items.....	4
4	Welcome from new General Secretary	4
5	Cooperation with PICES.....	5
6	Tour de table	5
7	Update reports from Operational Groups.....	7
	7.1 ICES Training Group	7
	7.2 ICES Data and Information Group.....	7
	7.3 ICES Science Impact and Publication Group	8
8	Short report from the Editor-in-Chief ICES Journal of Marine Science	10
9	Update from Secretariat.....	11
	9.1 General Secretariat update.....	11
	9.2 Update from Communications	11
10	Joint ACOM/SCICOM session.....	12
	10.1 Integrated Monitoring	12
	10.2 Gender awareness, Diversity, Equity and Inclusion	12
11	Review of Annual Science Conference 2022	14
	11.1 Operational evaluation of ASC 2022	14
	11.2 Feedback from ASC Award Selection Group (on Best Paper, Poster, Early Career Scientist Awards)	15
	11.3 Feedback from Awards Committee	16
	11.4 Nomination of new Awards Committee member.....	16
	11.5 Network Session feedback.....	17
	11.5.1 Keynote talks and panel.....	18
	11.5.2 Theme sessions	18
	11.5.3 Early career scientist activities.....	19
	11.5.4 Side meetings.....	19
12	Planning for ASC 2023	20
	12.1 Update from Conference Coordinator.....	20
	12.2 Process for keynote nomination.....	20
	12.3 Theme session selection for ICES ASC 2023 (including report from Theme and Network Session Group)	20
13	Welcome (Day 2) and summary of Day 1	21
14	Report from Advisory Committee	22
	14.1 General update	22
15	Science Implementation.....	23
	15.1 Science plan implementation, Science Plan.....	23
16	Reports from Strategic Initiatives.....	24
	16.1 ICES/PICES Strategic Initiative on Climate Change Impacts on Marine Ecosystems.....	24
	16.2 Strategic Initiative on the Human Dimension	25
	16.3 Strategic Initiative on the Integration of Early Career Scientists	26
17	Proposal for a new Strategic Initiative	28
	17.1 Strategic Initiative on Education	28
18	Strengthening the ICES Community	29
	18.1 Engaging oceanographers in ICES (Johannes Karstensen, Subgroup Chair and SCICOM Alternate, Germany)	29

	18.2	WGCHAIRS 2023 (SCICOM Chair).....	29
19		Science Cooperation.....	30
	19.1	PICES cooperation (SCICOM Chair)	30
	19.2	Arctic research (SCICOM Chair)	30
	19.3	UN Decade (SCICOM Chair).....	30
	19.4	Other UN Activities (SCICOM Chair).....	30
	19.5	External projects and their benefits to member countries and the network (Wojciech Wawrzynski, Head of Science Support)	30
	19.6	Project Engagement Roadmap (SCICOM Chair).....	30
20		Reports and highlights from Steering Groups	31
	20.1	Aquaculture SG	31
	20.2	Ecosystem Processes and Dynamics SG (Steven Degraer, Chair of EPDSG).....	31
	20.3	Human Activities, Pressures and Impacts SG	32
	20.4	Integrated Ecosystem Assessments SG.....	32
	20.5	Fisheries Resources SG.....	33
	20.6	Ecosystem Observation SG	34
	20.7	Data Science and Technology SG	35
21		SCICOM Progress Report to Council	37
22		Closing remarks	38
23		Dates of next meetings and close.....	39
Annex 1:		List of participants.....	40
Annex 2:		List of actions/decisions.....	44

i Executive summary

The autumn meeting of the Science Committee (SCICOM) was a two-day hybrid meeting, following the Annual Science Conference in Dublin. It covered reporting from all subsidiary bodies of SCICOM, the Steering Groups, Operational Groups and Strategic Initiatives, an update from Advice and an update from Secretariat.

The PICES Science Board Chair presented on PICES science in 2022 showcasing the strong cooperation with ICES and joint activities, increasingly also in the UN Decade of Ocean Science for Sustainable Development.

The SCICOM Chair presented the status of the implementation of the Science Plan and initiated a discussion and process to evaluate the Science Plan.

The Conference Coordinator provided a brief summary of the ASC 2022. The Conference was held in a hybrid format to allow in person and remote participation. An evaluation survey has been sent out to participants, but initial feedback, including from the Committee, showed the need for adaptation, and SCICOM established a Subgroup on the format of the ASC to support planning for the ASC in 2023 and beyond.

The ASC 2023 will be held in Bilbao, Basque Country, Spain from 11 to 14 September. The ASC group presented their recommendation of theme sessions based on the initial ranking by SCICOM on the received proposals. There will be 17 theme sessions and 5 network sessions.

A joint session with ACOM covered the topic on integrated monitoring and the Gender Equality plan, including a wider discussion on Diversity, Equity and Inclusion. Integrated monitoring is seen as core area, covering also cooperation with other organisations with activities on it including a dialogue with OSPAR on a potential advice request and the ICES Pilot Workshop on regionalization of fisheries surveys in the North Sea (WKPILOT-NS). ACOM and SCICOM acknowledged the importance of creating a more inclusive working culture, and supported the Gender Equality plan be submitted to Council for approval. The discussion also recommended actions in relation to prompt conscious inclusion in nominations into groups, taking measures at the ASC, including invited panels and speakers.

The Editor-in-Chief gave a brief overview on recent developments of the ICES Journal of Marine Science, including the introduction of new article types and the journal becoming a full open access journal from 1 January 2023 onwards. The move to open access will not affect the editorial policy. The newest addition to the article types is “Rising tides – voices from the new generation of marine scientists”, giving Early Career Scientists the opportunity to publish about their career in science as it happens.

The discussion on national activities identified areas of common interest, including the use of autonomous vehicles in monitoring, coastal monitoring, multi-use of marine space and offshore wind. The offshore wind topic has been identified as critically important and activities with the relevant groups are under discussion.

1 Opening

2 Introduction of agenda and timetable

SCICOM Chair invited all participants to the SCICOM hybrid meeting, held at the Aviva Stadium in Dublin, Ireland, with the option to attend the meeting online. The agenda for both meeting days (23 and 24 September) was introduced.

New members since the SCICOM May 2022 meeting received a special welcome: Côme Denechaud (SII ECS Chair), Ivars Putnis (Latvian SCICOM member), and Jonathan White (incoming FRSG Chair).

SCICOM was informed of the sad news that Maris Plikshs (former Latvian SCICOM member) had passed away. An obituary had been posted on the [ICES website](#). A moment of silence was held to remember Maris.

SCICOM Chair drew the attention of participants to the [ICES meeting etiquette document and ICES Code of Conduct](#) and asked that if anyone wanted to declare a conflict of interest. No conflict was declared and the meeting was opened.

SCICOM Chair introduced the agenda for both meeting days. The agenda was approved with no comments.

3 Follow-up on decisions taken at the May 2022 meeting of SCICOM and on SCICOM Forum) and other action items

SCICOM Chair drew everyone's attention to Document 3-1, Minutes of May 2022 SCICOM meeting, and Document 3-2, Actions completed from May 2022. The following actions were brought to the attention of the meeting:

Action: A request is made to SCICOM to enquire whether ICES material might already be digitized by member country institutions, and whether this content could be shared with ICES (to be sent to ICES Editorial Office). A list will be provided with the content of interest by ICES Editorial Office.

Action: SCICOM is requested to nominate a new member for the Awards Committee as from 1 January 2023. This will be taken through the SCICOM Forum.

4 Welcome from new General Secretary

Alan Haynie, ICES General Secretary, extended thanks to Francis O'Beirn, Irish SCICOM member, and our Irish hosts and ICES Secretariat staff for an incredible week at the Aviva Stadium in Dublin, Ireland. Alan introduced himself and expressed his motivation and commitment to support the ICES science community in his new capacity as General Secretary.

5 Cooperation with PICES

The session was attended by Sonia Batten (PICES Executive Secretary), Vera Trainer (PICES Science Board Chair) and Sanae Chiba (PICES Deputy Executive Secretary) virtually from Busan, from the PICES Annual Meeting. Vera Trainer gave a presentation on behalf of PICES, presenting highlights for the PICES 2022 year:

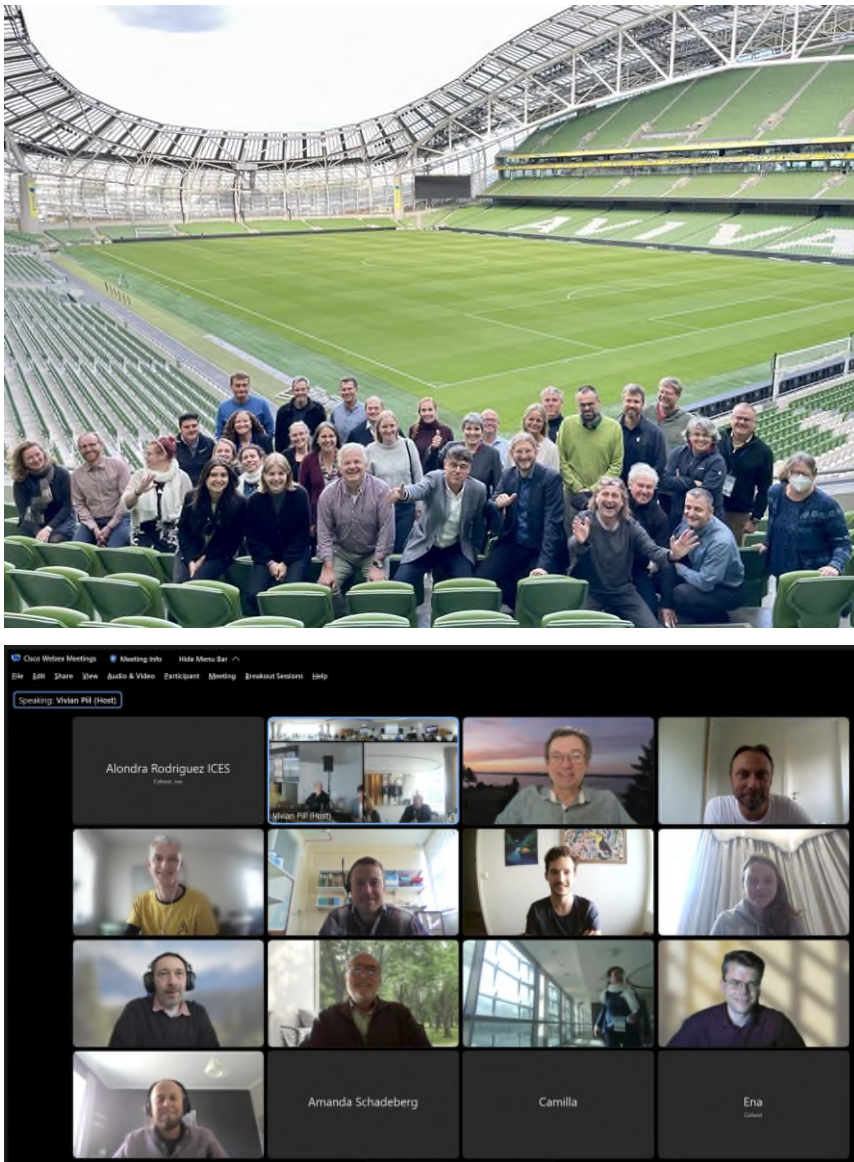
- The theme of the PICES conference this year is Sustainability of Marine Ecosystems through Global Knowledge Networks during the United Nations Decade of Ocean Science for Sustainable Development (UNDOS). PICES is hoping, through the UN Decade, to further strengthen the good relationship and collaboration with ICES.
- The current PICES Science Programme is called FUTURE (Forecasting and Understanding Trends, Uncertainty and Responses of North Pacific Marine Ecosystems).
- PICES has taken the time during FUTURE to focus inward, to connect various focal areas, in particular human dimensions into PICES science. The priorities for the future of FUTURE, now entering Phase III, include maintaining the momentum of FUTURE and bringing early career ocean professionals into the PICES expert groups for new ideas and enthusiasm. Around 2025, PICES will develop a new Science Programme, informed by emerging themes identified in UNDOS.
- Together with ICES, PICES has formed a programme in UNDOS, SmartNet – Sustainability of Marine Ecosystems through Global Knowledge Networks. This Programme is more outward looking, focusing on science towards solutions for society.
- The ICES PICES Ocean Decade Steering Committee (IPOD) prioritise engagement with early career ocean professionals and engaging with partners outside the usual area of focus.
- Several conferences have happened or will happen in 2022: ICES-PICES ECS Conference, SmartNet ICES-PICES Program, and SPF, Lisbon, Portugal in November. The MSEAS program is scheduled for 2024 in Yokohama, Japan (postponed).
- The PICES science communications workshop brought in a communicator from Hollywood to post stories on the new, updated PICES website and to attract collaborators who want to know more about what PICES is doing.
- New PICES EGs
 - SG-GREEN, Study Group Green: Generating Recommendations to Encourage Environmentally-responsible Networking. This is about how PICES wants to conduct meetings in the future.
 - WG-49-EXTREMES, looking at climate extremes and coastal impacts in the Pacific.

Vera Trainer and colleagues thanked for the opportunity to share the highlights from 2022, and SCICOM Chair thanked for the presentation and wished PICES colleagues a fruitful and successful meeting in Busan.

6 Tour de table

A tour de table was conducted, starting with a short feedback from national SCICOM members on one key experience from the last year and a short update on national activities, followed by a tour de table for Steering Group Chairs, Operational Group Chairs, guests, and online participants. The full list of participants is available in Annex 1.

The discussion on national activities identified areas of common interest, including the use of autonomous vehicles in monitoring, coastal monitoring, multi-use of marine space and offshore wind. The offshore wind topic has been identified as critically important and activities with the relevant groups are under discussion.



SCICOM participants at September 2022 meeting the Aviva Stadium in Dublin, Ireland, and remotely.

7 Update reports from Operational Groups

7.1 ICES Training Group

Anders Nielsen (Chair of Training Group) presented a short update on the Training Programme, which was initiated in 2009 with the objective of building capacity within the science community to support the advisory process. A briefing on Training courses offered during 2021 and a roadmap 2022–2026 was presented.

In the past years the focus for training has been on two types of courses:

- Tactical courses: Focusing on techniques and methods used in ICES. These courses are usually well attended.
- Strategic courses: Anticipating future needs and new methods. These courses will be conducted even with lower participation, to introduce and strengthen strategic issues.

Tactical courses and strategic courses are offered in a ratio of 3 to 1.

Since its creation the training course has offered 70 courses covering a wide range of topics, the courses aim to offer relevant topics for present and future needs. The training programme is recovering costs by charging a registration fee.

During 2021, five online courses were offered with good attendance and positively evaluated. Due to COVID, physical courses were not possible. To keep the programme cost-neutral, the group prioritizes and promotes courses that will be well attended. If registrations to a course are too low, it will be cancelled.

In 2022 five courses had been planned of which two have been completed and two have been postponed until 2023 due to low participation and because the instructors wanted an in-person course. The course “Close-kin Mark Recapture: building models and design projects” is expected to take place in 21–25 November 2022 in San Sebastian.

In person courses are still the preferred method for training courses because they offer a better experience for the participants. However, remote learning has been useful during the past years. Moving forward, the Training Group will explore hybrid courses and further improve the quality of online courses.

Collaboration with ICES strategic initiative WKEDU could evolve in a collaboration between universities and creating courses that are useful and could be approved by ICES, however it is important to avoid overlap on topics.

7.2 ICES Data and Information Group

Sjur Ringheim Lid (Chair of DIG) presented an update from the Data and Information Group (prepared in cooperation with ICES Data Centre).

The **Data Profiling Tool** started as a test to see if there was a way to document and get an overview of datasets and visualizations used within ICES system, the tool was tested with the Ecosystem Overview for the Celtic Seas and it has been working quite well. The main aim for the tool is to start a dialog between the data users, data owners, ICES Data Centre as well as the EG. The analysed data was evaluated with the “Traffic Light” system:

- Green- Information complete

- Yellow- Clarification/Information needed
- Red- Missing information

The outcome showed that it was very difficult to find datasets that fell within the Green category, almost all of the registered datasets had some critical marker for which there was feedback needed from data owners. Some of the main issues were linked to the licensing of data. Usually users didn't know the license for their data. If something is produced based on data, it is important to know the license to make sure ICES is using the data within legal limits.

Currently the EG and ICES Data Centre do the evaluation of the datasets, which is very time consuming. It is important to keep this in mind for the future if this tool becomes widely used within the ICES system.

With the emergence of **Shiny applications**, there is a demand to make these available. Hosting Shiny applications outside the ICES system is cost-effective. Since this happens outside the ICES ecosystem, there is a low risk of security bridges into the central systems. The applications can later on be integrated as part of the ICES website. Steps are being set up to review applications to make sure the integrity of ICES as a trusted provider of science and advice is still being kept. The Data and Information Group is working on a process for hosting these applications, the starting point for this will be a resolution from an ICES Expert Group. Despite being low, there is a certain element of risk in regards to the shiny hosting. In terms of accessibility the community has to be mindful of the content that is being put online because there are certain things that can't be controlled or managed.

The group has also been working on a **Reference Management Best Practices** document to develop a coherent method to manage reference lists. The first version of a reference management best practices document was developed and delivered to the DIG in May, now the group is working on an updated version which will be presented in October.

Since there has been a lack of a coherent data preservation plan, the group is now working on a plan to be presented to SCICOM in March, next year.

DIG Chair invited the community to register and test the Data Profiling Tool and communicate with the ICES Data Centre if they have any working groups that are using data that is not going through the normal databases in ICES. The tool is available on the ICES webpages.

7.3 ICES Science Impact and Publication Group

Nils Olav Handegard (Chair of SIPG) and Ruth Anderson (ICES Editor) with reference to Document 6.3-1 gave an update to SCICOM.

Requests to SCICOM:

- Calls for any institution that may have ICES content digitized (see action item in Section 3);
- Next year is Nils Olav Handegard's last year as SIPG Chair; a new chair will need to be found before his term ends.
- Request for what publications metrics SCICOM would like to see reported in the SCICOM Progress Report.

Questions:

- *Do all modern publications have a DOI? Yes*
- *Cefas institution librarians have been given the target to record all grey literature with Cefas authors. Can this be done easily? Possibly yes via the API*

- *Can we see downloads of different data sets?* Most data sets are not in the library, so we cannot track them in SIPG. There is a discussion coming in the November SIPG meeting on whether and which data outputs should go into the library vs. ICES data repositories.

8 Short report from the Editor-in-Chief ICES Journal of Marine Science

Howard Browman (Editor-in-Chief of ICES Journal of Marine Science (IJMS)) gave a presentation to SCICOM focusing on: updates on the journal - impact factor, expanding range of article types, and transition to gold open access (OA).

- IJMS latest impact factor is 3.9, placing it within the top 14% of all journals indexed by Web of Science (WoS).
- Current article type range: original research articles, reviews, food for thought (unsolicited), food for thought-luminaries (generally solicited from people near the end of their career or after retirement), food for thought rising tides (new article type from early career researchers), quo vadimus, stories from the front lines (new article type from practitioners), comment/reply. Information on all article types [can be found on the journal website](#).
- Journal will transition to OA in January 2023. The transition will not influence journal editorial policy. After the transition the journal will rank first among gold OA fisheries journals, second among marine and freshwater ecology journals, and third among oceanography journals. An article processing charge (APC) will be implemented. Fee waivers will be automatically applied to certain article types, authors whose institutions are part of Read and Publish agreements, and authors working in developing countries covered by OUP developing countries initiative. In addition, a generous waiver policy will be applied to ensure that no one is unable to publish in the journal due to financial constraints. For more information [see the journal website](#). COPE guidelines will be followed on administering waivers - APC waivers will be entirely independent from the editorial decision process.

Questions:

- *Is there a check system in place to ensure consistency in the editorial decision making?* All decisions made for the journal are evidence based, and all aspects of the functioning of the journal, including the editorial decision making, are regularly tracked and evaluated.
- *Query on availability of historical archive.* The whole historical archive will become freely available after the transition to OA, going back to 1903.
- *How important is the impact factor for the journal, what is the main goal of the journal, and how is it still linked to ICES and ICES working groups?* The editorial board is not chasing a high impact factor, the journal mission is to only publish articles that are “signals in an ever-increasing sea of noise”, which inherently leads to an increasing impact factor. Regarding the links to ICES internal processes, following COPE best practice guidelines, the journal is editorially independent from both the publisher (Oxford University Press) and the owner (ICES), within the constraint that the journal should reflect the mission of ICES as a whole and that the EiC stewardship of the journal is to the satisfaction of the owner. Both these aspects are evaluated on an annual basis by ICES Bureau.

9 Update from Secretariat

9.1 General Secretariat update

Wojciech Wawrzynski (Head of Science Department) gave an update on the Secretariat and Science department in particular. Statistics and information on staff support to ICES community, and new staff members joining were presented. SCICOM was informed that there had been a workplace assessment in the Secretariat and especially in the science team e.g. science officers, symposia/ASC team and chairs, the workload has changed and needs to be addressed. Therefore, the well-being of Secretariat staff will become a focus. The Science Department is currently running at full capacity but with the two new positions it will be able to handle more training courses and projects.

9.2 Update from Communications

Celine Byrne (Communications Officer) gave an update from ICES Communications Team and what they do, including looking after the ICES website, news page, social media accounts, promotion of ICES work and journal, and develop other outreach material for ICES. ICES audience on social media has grown over the last 9–10 years and currently ICES has about 28.000 followers across different channels with the biggest audience being on Twitter. The team got a new social media management tool so they can get stats and info if people are looking at posts or engage (click on links to find out more). The website is 10 years old and it could be updated and become more dynamic.

The Comms team started recently with making video content e.g. the series on early career scientist (SCICOM gave positive feedback on this series). The team is very open to make videos but it's a lot of work to make the videos so the Comms Team happily welcome footage from other institutions to use in our videos (e.g. of sea, lab etc.). The Comms team invites SCICOM to contact them with suggestions for videos as well as other material.

The floor was then opened for comments and questions, here different suggestions came up, e.g.:

- A video to learn about ICES (e.g. 10 reasons to join ICES) – something we can use nationally to promote ICES.
- To have a kind of recording/video/webinar/slides with presentation for “What is ACOM and what do they do?” and “What is SCICOM and what do they do” etc. – this could be used to present in working groups, to new people, to early career scientist, social scientists, students and others.
- A general promotion of ICES WG, SG and committees.
- Particular topics/subject material (standard slides/videos) that ICES is involved in e.g. “fisheries management”, “how is ICES moving towards integrated ecosystem management”, “climate change impacts and how is ICES dealing with that”, etc.

10 Joint ACOM/SCICOM session

10.1 Integrated Monitoring

The two committees met jointly for a session on next steps for integrated monitoring of the marine ecosystem. This is in light of discussions in OSPAR that may soon lead to a special request to ICES on optimising monitoring, and building a system that is fit for upcoming fisheries and environmental assessment and advice.

ACOM and SCICOM were given a short introduction of an advice request from OSPAR on integrated monitoring that is being iteratively developed with the Netherlands together with a general recognition of a need for integrated monitoring among the ICES network. ACOM and SCICOM were asked about what the level of ambition should be for the planned work, what has been done already and whether the focus should be on OSPAR request or broader.

The challenge for OSPAR has been to better collaborate amongst countries in data collection and monitoring, not only to study biodiversity using fisheries monitoring data. It was felt that ICES could help encourage the required collaboration. ACOM and SCICOM were asked to comment.

The Steering Group Chair of the Ecosystem Observations Steering Group informed the meeting that their mandate is exactly this, and that there may be a need to restructure ICES work. There is also a workshop planned for November for the North Sea data collection and integrated monitoring. WGISUR and WKPIMP looked at the monitoring design of existing fisheries surveys and what can be pragmatically 'reused'.

New technology and resolution coverage were brought up as important in designing joint monitoring programmes given that the plans span over several years. This includes eDNA, and automated surveys, etc. The technological means of data collection in the future will be a theme session in the ASC 2023.

The funding entity was also listed as a main aspect to get clarity on. A clear candidate would be DCF. A need to operationalise how to implement a sampling framework (new or reusing existing structures) was noted.

It was stressed that any joint monitoring should consider sampling design, and that for example fisheries surveys may not be statistically the best for other components of the ecosystem

Importantly it was stressed that any monitoring programme design/re-design should start by defining the end products that the data/information is needed for. Furthermore, is the planned restructuring of the monitoring in line with the data needs that serve to operationalize ICES assessment products.

10.2 Gender awareness, Diversity, Equity and Inclusion

Ellen Johannesen (Coordinating Officer) presented an update on the (interim) gender equality plan, seeking feedback from ACOM and SCICOM as part of the consultation process, in advance of Council approval in October. While monitoring and research have focused primarily on gender, the plan takes an intersectional approach and actions aims to foster a more inclusive working culture overall, recognizing the importance of a broad diversity of people and perspectives in scientific work.

The 2019 ICES Strategic Plan set the initial commitment and provided a platform for working on issues of diversity and inclusion, including gender equality. 2021 was a year of scoping, raising

awareness and planning actions, including the screening of the film “Picture a Scientist”. Part of an early initial effort to collect qualitative data included a survey of the ICES community, following the screening of the film. From 93 responses, one third of the respondents reported that they either witnessed or experienced gender-based harassment. This highlights the need for improved reporting to ensure accountability. The Code of Ethics and Professional conduct will be put forward for approval at Council and the establishment of an anonymous reporting tool is underway.

It is important to collect both quantitative and qualitative data in support of the gender equality plan that consists of qualitative and quantitative indicators and targets. The plan was designed based on published guidance from the European Institute for Gender Equality (EIGE), Gender Equality in Academia and Research (GEAR) Tool methodology, SAGE, as well as UN-SWAP, as well as examples from other institutions, adapted to ICES specific needs and context.

Reporting on gender representation is one part of the plan. Currently, women are underrepresented in decision-making roles of ICES, including on committees where women account for 20% of committee members. At the Secretariat the current distribution of staff by gender also highlights the underrepresentation of women in “Professional” staff grades at 8%, while women account for 42% of staff in the “general service” category. During the COVID-19 pandemic period, the attrition rate for women in the Secretariat was three times higher than that for men.

The ICES Gender Equality Plan consultation process during 2022 has included making the interim plan available in advance, with a presentation provided and discussion session facilitated to discuss and provide feedback with major stakeholder groups including Bureau, WGCHAIRS, SCICOM, SIIECS, Secretariat Staff, and now at the ASC, also ACOM.

During the discussion, additional actions, and examples were suggested, including:

- Adding prompts – the internal ICES Publication series has recently added a line requesting authors to consider gender balance and diversity when suggesting reviewers, and this has significantly improved the representation of women among the suggestions.
- A similar prompt will also be included in the email sent annually to member countries requesting nominations to ICES work, and should also be considered when appointing new delegates and committee members.
- Working groups can consider creative strategies for being more inclusive and shifting gendered roles in some types of group work (e.g. taking minutes).
- To achieve more equality, we can all be allies.
- The ASC is an important venue for communicating goals on inclusion, new strategies should be considered, while avoiding tokenistic actions.
- The Gender Equality Plan is a “living” document that will continue to be updated, with annual progress reporting to ACOM, SCICOM, and Council.

Decision: ACOM and SCICOM acknowledged the importance of creating a more inclusive working culture and supported the (interim) Gender Equality plan be submitted to Council for approval.

11 Review of Annual Science Conference 2022

11.1 Operational evaluation of ASC 2022

Anna Davies (Conference Coordinator) summarised the statistics and main events of the ASC 2022.

The Whova app was widely used especially by the online participants, and conference recordings will be available on the app until December. ECS participation and engagement were high throughout the conference with 67 ECS registered on site, 88 ECS registered online.

A feedback form will be sent to all ASC participants shortly; it was noted that there will be separate versions for in-person and online participants. Latest feedback points out that even though the conference participants were instructed to watch online video presentations prior to the conference, there were shared difficulties in doing so. There was a thorough discussion on flash presentations, with both positive and negative feedback. This year's format required thorough planning and preparation of sessions and was therefore a bit more demanding for conveners.

Challenges with the hybrid format had been encountered throughout the conference. If hybrid format conferences will be repeated in the future, more resources are required including equipment and training of staff. Workload for both presenters and secretariat needs to be considered when six-minute online videos are submitted, processed, evaluated and made available online. More time should be allocated to proper on-site preparation and testing due to the hybrid setup, including delivery of AV equipment days in advance and presence of technical staff at the venue for conference setup.

Positive feedback on the venue and cooperation with the hosts.

Summary of main discussion points:

- Workload for both participants and ICES staff needs to be considered if presentations submitted to theme sessions need to be reviewed beforehand. There should be more time dedicated to review the online content, workload considered. Watching all the presentations before attending the session turned out to be a challenge for many.
- The difference between network sessions and theme sessions under the new hybrid format should be revisited for future years to prioritize various elements.
- There was convener training; but network session conveners were not included.
- Many ECS received very little feedback on their work due to the format of the session. Inclusion and interaction with ECS should be prioritized in order for them to get feedback on their work.
- The flash talk format received mixed feedback, some said they were too short for a meaningful science exchange, others liked the short intro or reminder of the persons work, serving as a teaser to watch the online presentation.
- Longer times for keynote presentations (during theme sessions) provided food for thought compared to short flash presentations which did not allow for proper in-depth discussion.
- Inclusion and moderation of discussion within sessions needs to reflect various viewpoints, career stages and foster inclusion. Traditional approach of 12 min presentations instead of flash presentations is preferred by conveners. Diversity in session format could provide more flexibility to both conveners and participants.
- There should be a better balance on research that is being presented at the conference.

- Technical difficulties for online participants made it difficult to run inclusive sessions. General consensus is that online participants should be better incorporated to make them more visible in the room. Interaction with online audience was limited due to technical challenges and expectations were not fulfilled for both conveners and online participants. Interactive sessions need to be better planned.
- Scientific content, inclusion and interactions between audiences have suffered due to the hybrid format.
- Mixed feelings about the use of the Whova app. Discussion topics should be limited to a manageable amount to provide space for clear discussion. It is also discouraging to see the number of views per presentations/posters as it provides immediate feedback for the presenters/participants.
- Cost of hybrid format should be considered together with pressure of financial restrictions to travel. Travel and participation for performing 2 flash presentations can appear as discouraging for attending future ASC's. This might discourage in person participation –with further restriction on travel (funding, climate reasons, personal reasons).
- Overall the extended space for discussions was enjoyed and valued. Especially the different set-ups of interactive discussions (spectrogram, fishbowl etc.) were perceived well. It is difficult to completely include online participants in a discussion format and give space also to ECS who might be less comfortable in an open discussion format. Going forward it is worth thinking about how to design discussion sessions to make everyone comfortable.
- There were great opportunities to network for those attending in person. Future ASC should focus on networking amongst the working groups but also new ways on how to connect WG and ECS should be explored.

Action: An ASC subgroup was established to provide feedback and recommendations on format on the 2023 ASC. Membership: Jos Schilder (Chair), John Pinnegar, Lidia Yebra, Pierre Petitgas, SIIIECS representative; and Secretariat (Wojciech Wawrzynski and Ena Briesemeister). The group should meet soon after 2022 ASC and all session conveners should be consulted for feedback. The established ASC subgroup is requested to better define the lines of networking and theme sessions as the lines are blurred under the hybrid format. The definition needs to be clearly communicated.

11.2 Feedback from ASC Award Selection Group (on Best Paper, Poster, Early Career Scientist Awards)

Lidia Yebra (SCICOM Member, Spain; ASG Chair) reported from this year's ASC Award Selection Group, which consisted of 11 members, three of whom were women. This group is recruited from SCICOM which has a gender imbalance. Therefore, enforcing gender balance in this group might put additional workload on women. Ellen Johannessen, leader of the ICES Gender Equality Plan, raised the importance of having a gender balance in Award Selection Group, therefore it is important that we change the participation criteria so that women get more involved (allowing participation from WGCHAIRS and also ECS could become involved. Also, participation of ACOM members would be desirable to provide their expertise.

Award Selection Group evaluated over 400 presentations online. The workload was high and the group needs more members in case the conference format is repeated. Theme session conveners were asked to do a pre-selection of presentations for their respective sessions. Guidelines for presentation length submission was not respected in a lot of cases. Posters were only evaluated on site. Many participants uploaded their poster online but did not participate in person.

These posters were therefore not considered. For oral presentations 73% were ECS, for poster presentation ECS comprised 86% of the nominees.

This year for the first time the merit awards were presented at the conference dinner instead at the closing ceremony. Winners were informed beforehand and received free dinner voucher for themselves and one guest as a part of their prize. Presenting merit awards at the dinner was nice and festive, but it was not streamed.

One suggestion is to mention the finalists for the best presentations/poster for representation and appreciation.

SCICOM Chair thanked the Award Selection Group for their great work, choosing the merit award winners.

Action: In 2022 all merit award winners were ECS, reflecting the pattern of the last few years where these awards went mainly to ECS. Therefore, Award Selection Group would like to table a proposal to the SCICOM March meeting to revisit the award categories and merge the ECS awards and the best overall award (also considering inclusion and equity).

11.3 Feedback from Awards Committee

Antonina dos Santos (SCICOM representative on the Awards Committee) presented an update to SCICOM.

Awards Committee when reviewing this year's awards process noted that the pool of candidates was satisfactory, but that the call for nominations should be advertised better to eastern countries to support diversity and inclusion. Changing the name of the Outstanding Achievement Award will be considered by Awards Committee, as it might be influencing the lack of nominations for women.

New criteria for good presentation skills should be considered for the Prix d'Excellence winner, and the possibility of asking the Prix d'Excellence winner to give a keynote at the ASC is being considered.

Explanation of different awards awarded by the Award Committee:

The Prix d'Excellence recognizes the highest level of achievement in marine sciences and important contributions to ICES vision. The Prix d'Excellence is presented every third year at the ICES Annual Science Conference (ASC).

The Outstanding Achievement Award represents the highest expression of recognition for sustained advancement of ICES science. This award is given annually and recognizes outstanding performance by a member of the ICES community whose career has been distinguished by a continued commitment to excellence in endeavors of science, research, and leadership.

11.4 Nomination of new Awards Committee member

SCICOM was informed that one new member of Awards Committee needs to be nominated to replace Rafael González-Quirós, who will be rotating off the Awards Committee by the end of the year. SCICOM Chair thanked Rafael González-Quirós, Spain for having served as SCICOM member on the Award Committee! A call for nominations would be posted on the SCICOM Forum. Furthermore, SCICOM noted that next year two female members of the group will finish their terms and replacements should be considered.

11.5 Network Session feedback

The 2022 ICES Annual Conference hosted 5 network sessions:

- Advancing the pathways for oceanography to ecosystem science and advice, Monday 19 September
- Connecting ICES EGs to Early Career Scientists, Monday 19 September
- The Kraken's Lair: EBM operationalization pitch pit!, Tuesday 20 September
- Operationalizing model ensembles to provide scientific advice for fisheries management, Tuesday 20 September
- Strengthening ICES through national networks, Tuesday 20 September.

The full reports from the Network Sessions will be made available on the ICES ASC website.

Advancing the pathways for oceanography to ecosystem science and advice

This session was interactive and had many online participants. The core of the session revolved around how fish stock assessments could benefit from including oceanographic products and how stock and ecosystem advice can be improved. It was concluded that difficulties arise when trying to implement new methodology into stock assessments – proposition of using shadow assessments reflecting oceanographic products running in parallel with the classic assessment. If that could be presented repeatedly to the groups this may lead to improvements. Couple of pilot assessments should be selected and run as pilot to test this proposition.

Subgroup of WGOOFE will pick up the outcomes of this session and discuss it during October meeting. Some of these integrated assessments have been used during WKIRISH and the development of F-ECO (Advice on Irish Sea Cod).

As an outcome, concrete activities to go forward have been identified, which helps the inclusion of oceanographers into the ICES community and products. Furthermore, ideas brought by this session will be carried over to the theme session on oceanography at ASC 2023

Connecting ICES EGs to Early Career Scientists

The aim of this networking session was to connect ECS to WGs in ICES. Chairs of multiple WG were introduced and were available for questions by ECS participants and to discuss how to join expert groups. Followed on by Q&A about joining ICES.

One feedback was regarding ICES website, which is difficult to navigate for ECS that wants to get involved – the process does not seem straight forward and transparent with the difference in group membership, expectancies and obligations. The SIIECS chairs consider to repeat this session every 3–5 years.

The Kraken's Lair: EBM operationalization pitch pit!

EBM has been introduced, followed on by participants pitches. The presented ideas will be written up as they will spark discussions and processes within ACOM and SCICOM (the session recording is available on Whova until the end of December). 5 pitches were identified that can be already implemented within the next year. Winning suggestion was the idea on the integrative working group WGTRANS.

This session was very popular, if repeated, it should be considered to not have any parallel sessions running in the conference program but also to better integrate the hybrid format. Furthermore, it should be considered that 5-minute introductions should be included to understand the scientific context, especially for ECS. The pitching of ideas was perceived as a great concept which could rotate various topics depending on the ASC and be potentially rotated by all steer-

ing group to include the whole community over time. Trade off keeping it dynamic and interesting vs. providing enough scientific context should be considered. Furthermore, longer session could provide space for discussion with the audience. Lastly, idea development need support - ICES leaders that are in the “jury” should take up the further development of ideas that are relevant to them, on contrary it might be discouraging to not get support for ideas.

Operationalising model ensembles to provide scientific advice for fisheries management

No oral feedback as organizers of this session were not present in the room. Please refer to network session report.

Strengthening ICES through national networks

The need for more and better communication within the national networks has been identified as it can be difficult to identify a national network participating in ICES activities.

An idea was brought forward of having a harmonized annual ICES day in all ICES member countries to inform and network in the national level or to incorporate national meet-ups lead by national delegates into the ASC programme. Country specific information should be available on the ICES website – if they already do they should be expanded and highlighted.

Ideas on development of products for teaching purposes. These materials should map the global and national context to explain and communicate the work of ICES (to e.g. undergraduates). The following suggestions and comments were made:

- Power BI is giving insight into national representation.
- national institutes to be encouraged to link to ICES on their website
- Make SCICOM delegates more visible as points of contact.

Actions: Central guidance on producing these materials including formal guidelines on joining ICES should be identified. Concrete recommendations on these materials (such as creating a standard slide set providing a general overview of ICES) will be provided in the written report. ICES Comms and future Strategic Initiative on Education will be asked to assist in developing this material.

11.5.1 Keynote talks and panel

The panel discussion during the opening and the keynotes by Jason Link and Cornelia Jaspers received positive feedback and the length was considered appropriate.

11.5.2 Theme sessions

The theme sessions differed greatly this year, by the set-up of the sessions and by how successful the hybrid element across the sessions was. Overall participants liked the diversity of the sessions, it is however more challenging to facilitate and plan by the conveners and supporting staff. Communication before the conference for the conveners and more guidance would have been appreciated. But also, communication beforehand with the participants of the theme sessions to inform about the set up.

A large amount of time was devoted to discussions, which might require going forward more moderation and inclusion to avoid giving space mainly to ‘louder’ people. There was a feeling that the exposure to the actual science was reduced by the discussion-based sessions and that time for questions and feedback for the presenter’s works was lacking. The in-person format is vital for building long-lasting networks and exchange, especially for ECS.

11.5.3 Early career scientist activities

There were 67 registered in-person ECS attending this year's ASC and more than 80 ECS attended remotely.

The mentoring and the ECS breakfast worked both well; especially in terms of taking away barriers and creating networks at the beginning of the conference.

11.5.4 Side meetings

Plenty of *ad hoc* and business meetings were held during this year's ASC. Feedback was received that these meetings should not be shown on the Whova app as they caused some confusion.

12 Planning for ASC 2023

12.1 Update from Conference Coordinator

The ASC 2023, which will take place at Palacio Euskalduna in Bilbao, Basque Country, Spain, from 11–14 September 2023, will be coordinated by Ena Briesemeister as maternity cover for Anna Davies.

12.2 Process for keynote nomination

The agenda item on the proposal for a new keynote nomination process was postponed till after ASC.

12.3 Theme session selection for ICES ASC 2023 (including report from Theme and Network Session Group)

14 theme sessions were selected from the submitted proposals and an additional 15th one was suggested and all four network sessions were selected plus a potential fifth one.

- All selected theme sessions were approved by SCICOM
- The comments made by the selection group will be communicated to the theme session conveners to be incorporated
- New proposed theme session: no session speaks to the fisheries and stock assessment groups. An additional session will be developed and submitted.

All four network sessions were approved by SCICOM under the auspice that there might be a potential fifth network session and that the two aquaculture sessions will not overlap in content and might be after one another on the agenda. The submitted networking session on wind farms need to rework the title to reflect the content of the proposed session.

Comment: There had been some scheduling issues, and thus it was recommended to avoid networking sessions on top of business meetings.

13 Welcome (Day 2) and summary of Day 1

SCICOM Chair presented a short recap of Day 1, and also noted that from the extended tour de table, there were a number of common themes in the national one-slide presentations: offshore windfarms and related MSP planning, coastal monitoring, and development of autonomous observation.

14 Report from Advisory Committee

14.1 General update

Henn Ojaveer (ACOM Vice-Chair), with reference to Document 14-1, presented an update from the Advisory Committee.

There are different advisory products (overviews, viewpoints, reviews, regular advice and special requests); the newest advisory products are interactive maps, developed since 2021. One of the main messages from ACOM is that special advice requests are becoming more complicated and complex. Key requesters of ICES advice are governmental organisations. ICES advice is not being promoted, it is merely explained and the advice answers the question of advice requesters.

There is advice being produced beyond the ICES ecoregions (e.g. for the Mediterranean on eel). If mistakes in published advice occur, corrections are being made immediately. Covid and the suspension of Russian experts have impacted ICES advice, mainly advice related to the Barents Sea and Baltic ecoregion.

In 2023 ecosystem overviews for all ICES ecoregions will have been published. Regarding fisheries overviews, all except for the Arctic are published. For 2023, there is planning for a new viewpoint.

Questions/comments:

Q: There are a number of changes to advice and a time series of changes to advice has been done. Should this time series be maintained to monitor the rate of changes to published advice?

- This might already exist, need to investigate further with other ACOM chairs and vice chairs.

Comment: The viewpoint of the non-native species and definition is important and the viewpoint encouraged.

Explanation: The ecosystem overviews are not annually updated; therefore, the suspension of Russian experts did not affect them. Fisheries overviews are annually updated, resulting in issues with the advice.

Q: Is there a formal procedure to get viewpoints started/proposed? Long existing list and only 1 ½ can be done per year. Is there a form of prioritisation?

- Currently there is no competition and a need for prioritisation
- Please reach out to Henn Ojaveer: henn.ojaveer@ices.dk

15 Science Implementation

15.1 Science plan implementation, Science Plan

SCICOM Chair gave a short introduction to the Science Plan and the plan for reviewing it. The Science Plan needs to be evaluated after 5 years. The current structure is very static and the tasks, although reflecting shared national priorities, are very different in detail and scale. We have established that there are short-term operational needs driven by advisory needs, intermediate needs leading to advisory products after a science synthesis phase, and emerging science areas (like offshore windfarms). In the current Science Plan there is no guidance on research gaps and foresighting of emerging science topics, to set the future direction of ICES science and which could be used to inform national and EU funding streams. SCICOM members were encouraged to think about how this could be built into the Science Plan, and how to implement a foresighting mechanism. SCICOM Chair reminded the meeting that SCICOM in Rule 28 of the ICES Rules of Procedure is mandated on behalf of Council to institute structures and processes to ensure that science programmes, regional considerations, science disciplines and publications are properly considered.

The floor was opened for comments/questions:

- Suggestion to have a foresighting publication series featuring emerging science areas. Perhaps a foresight could be an output of a scoping workshop (i.e. on windfarms or other emerging topics). This would put us on the right trajectory.
- There is value in trying to provide more specificity in the Science Plan, one has to strike a balance.
- DSTSG Chair suggested that SCICOM should have a recurring agenda item on important topics emerging – a governance mechanism to define expectations and measure progress. Within DSTSG we have listed the priorities, which are the most important, and what can we do to meet them and enable them. An element of recurring oversight is needed. We provide updates, but unless we collate this information in an oversight document the big threads risk getting lost. Suggestion to create a stack of the most important emerging topics and see how the SGs can address them.

Action: SCICOM members were invited to join a Science Plan Evaluation Subgroup to review the Science Plan and provide recommendations for updates and changes to be tabled at the SCICOM March meeting. SCICOM Chair will post an outline of the subgroup task on the Forum and ask for members.

16 Reports from Strategic Initiatives

16.1 ICES/PICES Strategic Initiative on Climate Change Impacts on Marine Ecosystems

SICCME Chairs, Alan Baudron and Kathy Mills, with reference to Document 16.1-1, presented an update from the ICES/PICES Strategic Initiative on Climate Change impacts on Marine Ecosystems. SICCME is chaired by Kathy Mills (US) and Alan Baudron (UK) on the ICES side, and Kirstin Holsman (US) and Xiujuan Shan (China) on the PICES side.

The current chairs have been active for one year, trying to reinvigorate SICCME post-Covid and build momentum, including the social dimension and creating a stronger linkage with SIHD. A meeting was held with the former chairs of SICCME to gather their perspectives on SICCME's role and discuss future directions for SICCME.

In terms of activities the new IPCC AR6 WKII report was released in early 2022. Kathy Mills and Kirstin Holsman are co-authors on the 'Oceans and Marine Resources' of the 5th US national Climate Assessment, which will be finalised in 2023.

The most recent SICCME activities were presented, including contributions to WKCLIMAD workshop (October 2021), convening a session at the 2022 Ocean Sciences meeting, co-convening a session at the ICES Symposium on Decadal Variability in Bergen (June 2022). Anne Hollowed served as the invited plenary speaker for the session. At the ASC 2022, a joint SICCME/SIHD session was held in a hybrid format "on the human side of climate change in marine ecosystems: from mitigation to adaption".

The Terms of Reference for SICCME were focused on the physical and biological elements of the system. Last year fisheries were added to the ToR and this is starting to come through in the upcoming SICCME activities.

SICCME would like to build and strengthen connections to programmes that align tightly with SICCME, or are being led by active SICCME members, and at the same time trying to make connections with other strategic initiatives and expert groups within ICES.

When reconsidering the Terms of Reference, which are up for renewal this year, SICCME would like to strengthen linkages from ecosystem to social system (social-ecological systems) and consolidate to key types of activities (which also aligns better with the direction of PICES), and at the same time proposes to simplify, and create broader umbrellas.

Action: SICCME Chairs welcomed input from SCICOM on:

- New Terms of Reference for SICCME
- Programs or projects SICCME should be aware of
- Connections to WGs or other ICES activities
- Potential SICCME members

Comments:

- The ACOM Vice-Chair mentioned that there are two advice products that would benefit from SICCME input, i.e. ecosystem and aquaculture overviews. Both have climate sections; it would be nice to discuss how we could get stronger input to those advice products

- Important to narrow down what is the ICES SICCME agenda and explore where ICES can become leaders. A strategic initiative should have clear priorities to be result oriented and focused on the ICES needs.
- It would be valuable to have SICCME linked to the working groups dealing with the area of EBM.
- In a couple of weeks, the ocean acidification group in OSPAR (chaired by Jos Schilder) will meet with the climate change expert group of OSPAR. Perhaps time is too short, but the chairs of both OSPAR groups should meet with SICCME to align the aims. Jos Schilder would send an invitation to the SICCME Chairs.
- A SCICOM member commented that the proposed SICCME ToR are concentrating on the impacts, but there is a broader scale of subjects included in climate change: vulnerability, resilience, biodiversity, restoration, and many more subjects. These could be better projected in the SICCME ToRs. SICCME Chairs thanked for suggestion, which would be taken onboard.
- Discussion about products: At the pre-ASC SGCHAIRS meeting on Sunday, the possibility of having a product profiling tool to provide an overview and get access to what is available out there, underpinning the products that we are producing. There are assessment tools available, also around climate effects on marine resources.

16.2 Strategic Initiative on the Human Dimension

Katell Haman (SIHD Chair) with reference to Document 16-2-1, presented an update from SIHD. The strategic initiative revolves around the Chairs, a number of SIHD-related working groups and workshops, and a SharePoint forum has been established to help get the SIHD vision on community research and advice across.

Some recent activities were highlighted, including an informal online social SIHD event in early 2022 and the report of WKSHOES is now translated into a stakeholder engagement strategy. SIHD is closely linked (though chairs) with IIFET, STECF, FAO, and MARE.

SIHD worked with the advisory side on how to include socio-economic aspects in stock assessments and will be looking into this more. During ASC, SIHD Chair attended the FRSG meeting learning more about what has been done in the US to include socio economics in stock assessments.

Aquaculture: Meetings were held with ACOM and WGSEDA, but this is still a weak spot for SIHD, and SIHD Chair would like to discuss more with Ann-Lisbeth.

Challenges in the SIHD community are linked to capacity. Several groups will need new chairs next year; a balanced workload and realistic expectations needed.

The **SIHD roadmap** is centred around 3 pillars: Research, Advice and Community. The development of the roadmap is ongoing and hope to be able to share the roadmap in the coming months, and will ask SCICOM for input.

SIHD upcoming events were outlined:

Upcoming Events



SIHD is considering the development of several possible expert groups as part of this process and will be discussing this with the SIHD-related working groups.

Comments and questions

- Who is the target group for the workshop held in 2023 on social methods? Social scientists, or for everyone? It is for natural scientists interested in collaborating more with social scientists. You will learn how to work with social scientists and what is the added value of it.
- At the network session, there were ECS asking about particular groups. They are trying to create a space for themselves. Political science was being discussed.
- Do we need a Steering group for Human Dimension? Suggestion to have common ToR rather than creating a new steering group and having a lead on each of those ToR, that would provide a vehicle for that integration. Common ToR are useful, we have seen it between different types of groups.

Action: SCICOM Chair will continue the discussions started during ASC on whether to establish a new steering group, with a view to having a clear proposal tabled at the SCICOM March meeting.

16.3 Strategic Initiative on the Integration of Early Career Scientists

Amanda Schadeberg (SII ECS Chair), with reference to Document 16.3-1 presented the progress towards the six Terms of Reference:

ToR a) focus on promotion of SII ECS and ICES through social media, development of a logo, infographic, video content, creating FAQ sheet

ToR b) building connection through PICES ECOPS at ECSC4, Digital open day in October targeted on graduates and different ways of how to get involved in ICES, planning to run interviews with policy & industry partners of ICES, funding proposal through Euromarine for SII ECS 2023 summer school (29 May – 2 June)

ToR c) provided input to ICES Gender Equality Plan, WGCHAIRS subgroup, DEI/gender ASC 2023 theme session

ToR d) good networking session connecting WG and ECS at 2022, possibly not only for ECS but also for new people in ICES; 2022 ECS keynote speaker, flyer at ASC

Review of the ESC keynote nomination process – advertisement for nominations was made through Twitter and ICES newsletter and ECS were encouraged to self-nominate through online nomination form. This form focused on and reflected multiple of the inclusion elements. A sub-committee for selection process was established. Improvement for the next year include inclusion of age in the nomination form (gray area of self-identification as ESC), incorporation of even more inclusion factors, possibility that nominees should submit motivational letter focusing on ICES strategy, presentation skills, and their connection to ICES WGs.

ToR e) 2022 activities include “Rising tides” collaboration with ICES JMS, poster at ASC 2022, representation at ECSC4; forward looking to 2023 plans include interdisciplinary science article developed through the ICES WG and ECS network, collaboration with PICES – ideas for joint proposal

ToR f) research study accepted and to be published in ICES Journal of Marine Science; future direction for this ToR could be focused on ICES and its scientific reports and/or gender dimension.

ESC activities and events at the ASC, such as ECS breakfast, workshop, etc., have been incorporated well throughout the ASC. Furthermore, SII ECS had a box where people could submit their questions.

There is a great interest in ECS workshops, and it would be great to expand these events. As availability of funds is limited to the general ECS, expanding financial support is key for inclusion. It was proposed to introduce initiatives such as sponsoring an ESC dinner ticket.

Internet presence of SII ECS is lacking - future work should be done on the use of search words and searchability (including a guide on how to connect to ICES WGs).

SII ECS would appreciate assistance on the administrative side of maintaining a regular newsletter and could use help with expansion of their mailing list. Perhaps the SII ECS newsletter could be integrated/connected to the existing ICES Newsletter.

SII ECS logo will be ready for ASC 2023 to better identify ECS throughout the community.

Discussion items included:

- Ideas on further ECS–WG networking, such as WG speed-dating event at ASC.
- The proposed summer school should be scheduled in a way that it does not compete with other events/training courses on similar topics.
- Future possible cooperation between SII ECS and SICCME on onboarding ECS to ICES WGs.
- Potential in connecting ECS to ICES national networks. Generally, there is a great interest among SCICOM to help ECS to enter ICES, there was wide agreement in the room that SII ECS mailing list can be used to further engage ECS into ICES community. ECS engagement should be spread throughout the year and not just focused on the ASC. Further inclusion of ECS into ICES can be done by starting a mentoring program that will connect older/retired scientist with long history in ICES with ECS.

17 Proposal for a new Strategic Initiative

17.1 Strategic Initiative on Education

Margarida Castro presented the update. The aim of this to be established strategic initiative is to promote the mission, knowledge and ICES work on stock assessment and management to recruit more people to modelling and statistics through Master courses and other formats like Summer schools and to reach out to universities to identify what ICES as an organisation can do, to help with linking and to help contribute members to the organisation itself.

It is important to coordinate training and to have a pool of people to choose from when making stock assessment courses. Therefore, it is good that we have several people from different universities and institutes whom participated in the meetings held for this initiative. Currently some ICES countries aren't represented at all in the ICES training even though they do have capacity for training in this field.

The idea is that there should be a range of training possibilities with formal and informal programs and then have this strategic initiative to coordinate and promote this kind of work. There are interactions to other strategic initiatives as well as the ICES training programme.

A draft of the resolution is developed, but further guidance and assistance is needed.

The floor was opened up for comments and questions.

It was suggested that maybe the initiative should reach out to the European Universities initiative, since three of their alliances are focused on marine education.

It was also suggested to include interdisciplinary researchers; the difficulty is how do you do that efficiently? You need a common level of communication but it is also important to identify which are the areas and where these levels of cooperation can happen.

It was commented that there seem to be very little interest to fisheries today amongst students – most go towards conservation. This also shows in the fact that it is also difficult to find candidates with knowledge and experience to do stock assessments and to fill these roles.

Another comment was made that maybe the strategic initiative is too broad and they need to focus smaller first and then they can grow bigger later. It was also highlighted that it is important for the initiative to work together with the ICES training group.

The next step is to have a joined meeting with the chairs of the strategic initiative, training group chair and the secretariat to discuss the linkages and the draft resolution.

18 Strengthening the ICES Community

18.1 Engaging oceanographers in ICES (Johannes Karstensen, Subgroup Chair and SCICOM Alternate, Germany)

18.2 WGCHAIRS 2023 (SCICOM Chair)

Agenda item 18 was postponed till SCICOM March meeting.

19 Science Cooperation

- 19.1 PICES cooperation (SCICOM Chair)**
- 19.2 Arctic research (SCICOM Chair)**
- 19.3 UN Decade (SCICOM Chair)**
- 19.4 Other UN Activities (SCICOM Chair)**
- 19.5 External projects and their benefits to member countries and the network (Wojciech Wawrzynski, Head of Science Support)**
- 19.6 Project Engagement Roadmap (SCICOM Chair)**

Agenda item 19 was postponed till SCICOM March meeting.

20 Reports and highlights from Steering Groups

20.1 Aquaculture SG

Ann-Lisbeth Agnalt (Chair of ASG), with reference to Document 20.0-1 gave an update from the Aquaculture Steering Group.

Comment: The UK has published a climate change risk assessment on aquaculture

How is WGSEDA (Working Group on Social and Economic Dimension in Aquaculture) integrated in the other aquaculture groups? Currently there is little interest from the WG to be integrated into the Strategic Initiative of Human Dimension.

- Chairs are members of other aquaculture working groups and there is an exchange between the groups during regular ASG meetings throughout the year. And they play a role in the Aquaculture Overviews.

20.2 Ecosystem Processes and Dynamics SG (Steven Degraer, Chair of EPDSG)

Steven Degraer (Chair of EPDSG), with reference to Document 20.2-1, provided an update of the Ecosystem Processes and Dynamics Steering Group. EPDSG is currently listing 22 diverse expert groups working with the basics of marine ecosystems.

EPDSG Chair presented **scientific highlights** which include a number of publications, ASC network/ theme sessions, a themed article and a special issue of the IJMS, news pieces, symposium (Small Pelagic Fish).

Science to Advice:

WGScallop in cooperation with ACOM leadership has initiated a Viewpoint on Management Strategy Evaluation of Irish Sea scallops. WGEVO and WGCRAE have also expressed interest in developing an advisory product (viewpoint / demonstration advice). This is to be explored further in consultation with ACOM leadership. It is advisable that EGs willing to contribute to advice products should familiarise themselves with technical guidelines and the existing examples of such products.

EGs interaction/ communication:

Expert groups are strengthening communication, including speed-dating exercise, which resulted in a number of successful cross-collaborations.

EPDSG Chair will continue conducting bilateral meetings with EG Chairs offering an opportunity to discuss individual EG needs, share concerns and challenges.

Forward look:

EPDSG EGs are exploring possibilities to produce promo videos which will require assistance from the ICES Communications team (technical requirements, recommendations & best practices). Potential pilots are scheduled for the 1st half of the 2023.

EPDSG-wide initiative (a Position paper or Theme session proposal): Potential topics have been identified as Ecological indicators; or Climate Change and species distribution. To be discussed at the EPDSG EGs next meeting.

It is advisable that EGs should explore potential links with SICCM as 'climate change' topic is one of the common focus areas within EPDSG.

20.3 Human Activities, Pressures and Impacts SG

Andrew Kenny (Chair of HAPISG), with reference to Document 20.3-1, presented the work of the Human Activities, Pressures and Impacts Steering Group. HAPISG is currently accommodating 29 Expert Groups predominantly dealing with prevalence and effects of a range of human activities and pressures on the marine ecosystems (contaminants, invasive species, shipping, noise, renewable energy, fishing, climate effects, aggregate extraction).

The majority of Expert Groups are on track with their work, however transatlantic groups that are still operating in the online format are struggling with time zone differences. A number of groups had to reschedule/ cancel their activities due to the suspension of meetings in March 2022.

Andrew Kenny presented 3 specific ToRs for HAPISG: EG Synergies (example: renewable energy sector groups), Data Products (development of necessary tools that can facilitate integration of data products) and Assessment Methods (assessing individual sectors and pressures on marine ecosystems, including cumulative aspects of impacts and pressure-mapping).

Summary of **scientific highlights**: two Cooperative Research Reports (CRRs) and three TIMES publications; four ASC Theme sessions; Ecosystems Overviews pipeline proposal by WGDEC, WGSFD and WGFBIT; Development of a common spatial data framework by WGSFD; Development of a cumulative effects assessment framework by WGCEAM; Establishment of a Working Group on Marine Protected Areas and other Spatial Conservation Measures (WGMPAS); EU LIFE Platform meeting on 'strictly protected areas'; establishment of a Workshop on Climate Change Considerations in Marine Spatial Planning (WKCCCMSP).

Science to Advice: HAPISG Chair highlighted 4 workshops and EGs contribution to the revision of Greater North Sea Ecoregion.

Forward look

- Input on EU request to ICES (WGMPAS, WGSFD);
- Potential request from OSPAR;
- Potential request from DGENV;
- WGOWDF/ WGMBRED/ WGOORE Theme Session proposal ASC 2023;
- Potential synergies/ cooperation with OSPAR on integrated assessment work to be explored.
- Common terms of reference between HAPISG and EPDSG to be explored.

20.4 Integrated Ecosystem Assessments SG

Debbi Pedreschi (Chair of IEASG) presented an update.

IEASG has seen some successful improvement, presenting work across different working groups but has also invited other groups to come in and tell about their groups and their work at SG meetings, trying to find synergies and cross collaborations.

IEASG has a longer pipeline for proposals of workshops and the community is excited to do many of them but the capacity is low and therefore they have to limit the number of workshops they have each year.

The Steering Group had its first EO published for the Central Arctic Ocean at the end of 2021. Over the last 2 years we also did a lot of improvements to the EO's and over 23 ICES groups were involved in this process – however this work was not promoted so well which it should

have been, given the amount of work put into it. Many groups are involved in producing an EO and it is expanding. Next year we will be doing an EO for Iceland and the Faroes, and it will probably be done a bit differently through a workshop (like they do for the aquaculture steering group) instead of a WG.

Going forward IEASG wants to improve cross EG integration and collaboration on cross-cutting topics and approaches. Instead of just working on methodologies and approaches we want to produce a viewpoint on how to align it with advice. Additionally, we are talking with our EG to figure out if there will be a data champion for each group to help push the work on transparency for IEA.

The IEASG Chair highlighted the importance of flagging the issue of capacity! Despite capacity issues there has been strong motivation and continued proposals for WK, WG and wanting to make EO's more regularly, however we do it on our spare time whereas people doing stock assessments are employed.

The floor was opened to questions and comments. The data champion idea received positive feedback since the Secretariat is at capacity and unable to handle all the data, data needs, coordination and management each group have. There is a need to think about data handling and storing at a national level and to have a dialogue on how we can work successfully across countries to support SG chairs.

20.5 Fisheries Resources SG

Patrick Lynch (Chair of FRSG), with reference to Document 20.5-1, reported from Fisheries Resources Steering Group. Under the Steering Group 23 working groups and 22 workshop met in 2022, 15 Stock Assessment groups provided advice for 119 stocks, and 7 benchmarks and inter-benchmarks for 21 fish stocks.

FRSG came up with a communication strategy and agreed to have two annual meetings (around WGCHAIRs and ASC). SG Chair represents FRSG on numerous groups (BOG, WGTAFGOV, RCG, ACOM and SCICOM). Requests for topics to raise to ACOM and SCICOM are solicited before each of those meetings. Ongoing topics include capacity and expertise in assessment groups, TAF usage, communication, challenges of working in hybrid format, and new scientific directions.

Two workshops were highlighted:

- WKREF2, which will have a direct impact on advice framework, was tasked to develop updated guidelines for the ICES reference points system, but did not reach consensus. The report includes 6 recommendations for ACOM consideration.
- WKFISHDISH2 is the second workshop on distribution modelling, coming up with spatial maps for survey data. The workshop came up with an ICES repository of models and distribution maps for many species.

The expert groups under FRSG have met the basic needs, but the capacity is a challenge, some groups are significantly under-resourced and not suited to review and improve each other's work and hybrid meetings are more challenging than in person meetings.

Looking ahead,

- Socioeconomics in stock assessments is a new exiting direction! The FRSG meeting was joined by SIHD Chair and others with socio-economic expertise. This was a resounding success, people were excited about it! Maybe there is momentum for ICES to become a global leader in this.

Action: As an outcome it was agreed that Katell Hamon, Jonathan White, and Andie Chan will start a project to review current practices in the ICES community.

- A lot of activities related to good practices in SA are in the pipeline for 2022 and 2023. One is the CAPAM Good Practices workshop, which will take place in October in Rome. This is linked to the added theme session for next year's ASC.

SCICOM Chair thanked Patrick Lynch for his leadership of FRSG since February 2019. Jonathan White has been elected as new FRSG Chair with effect as from 1 January 2023.

The ACOM Vice-Chair informed SCICOM that ACOM agreed to add conservation advice to the fishing opportunities advice template and to test it for the eel advice. The technical guidelines will be finalised by ACOM Leadership and the major activity will be for the incoming FRSG Chair and Henn Ojaveer to implement it (a one-pager) and start communicating it to the EGs.

20.6 Ecosystem Observation SG

Joel Vigneau (EOSG Chair) presented an update on the Ecosystem Observation Steering Group.

Currently the steering group is composed of 14 working groups and two workshops. Out of these, 10 groups serve specifically as coordinating surveys such as: Beam trawls, acoustic, bottom trawls, egg and larvae, nephrops, etc. Some of the groups are coordinating more than 20 surveys, the coordinating groups within EOSG are very operational, they have a set and very specific way of conducting the surveys every year. The 4 remaining groups are very important to EOSG because they cover cross cutting issues that are transversal to all the groups. It is the role of the EOSG chair to try and define the cross-cutting issues that need to be addressed and make sure these important groups work well.

In 2022 two important workshops: Workshop on unavoidable survey effort reduction (WKUSER2) and Workshop on Pilot North Sea Fisheries Independent Regional Observation Group (WKPilot NS-FIRMOG) are taking place in September 13-17 and November 21-25 respectively. During 2022 all expert groups operated normally, except in March when some of the groups had to re-schedule their meetings. Currently there are no schedule workshops or new groups upcoming in 2023, however, the working group on integrating surveys for the ecosystem approach (WGISUR) has been discontinued.

Emerging topics in 2022:

- During this year it has been noted that some groups had their entire cycle online, for this reason it has been difficult for them to select new chairs to take over the role, in these situations the chairs have opted to extend their chairmanship for 1 more year.
- There is ongoing work to include more data into ICES database.
- EOSG has submitted a theme session for ASC 2023.
- There are very strong links to DSTSG given the high interest to survey groups (AI Technology).
- Lately it is becoming more difficult to achieve diplomatic clearance on foreign waters for the surveys. The creation of more MPA's is having an impact on surveyed areas.

Priorities for 2022:

Follow up on WKREO recommendation as a result we have WKPilot NS-FIRMOG to investigate the workability of a regional group of fisheries independence data. We are expecting a lot from this workshop and try to come up with a recommendation on how to work and to share our results.

Last week we had the workshop on unavoidable survey effort reduction (WKUSER2). There were 50 experts trying to see how we could advance and overcome changes with surveys. The main point was to ask ourselves how can we change the survey designs to adapt to new changes. There is a lot to do in terms of improving a survey. There will be a WKUSER3 and the idea is to have this workshop every second year.

Outstanding issues:

We need a follow-up on the process of developing international UWTV database developing AI technology for classification of Nephrops burrows.

Reflections regarding WGELECTRA's future, the group is currently struggling to continue as it is because it focuses on a fading topic "Electrical Trawling". The group is very enthusiastic so we are currently discussing ways in which the group can continue as a workshop or be redirected and start a new cycle with a different focus.

Moving forward, the three axes of development are considered for EOSG (in line with the ICES Strategic Plan) Assuring quality, incorporating innovation and adapting to changes and identifying needs for Ecosystem approach.

Soon a workshop might come in the pipeline for the second half of 2023, the workshop will address data quality issues in EOSG.

Action: ICES could help the SG through delegates on the process of diplomatic clearance on foreign waters for the surveys, the Secretariat can play a role to resolve issues so the scientific surveys can fulfil their obligations and targeted geographical scope.

20.7 Data Science and Technology SG

Jens Rasmussen (DSTSG Chair), presented an update on the Data Science and Technology Steering Group. An overview of the Expert Groups was presented, including 15 WGs, 7 WK and 5 upcoming WGs under DSTSG. Engagement throughout the expert group vary from 307 participants of WGFAST to less than 10 participants in the governance groups. DSTSG mainly focuses in in two main aspect if the ICES Science Plan – Emerging techniques and technologies; and Observation and exploration, but also interlinks with other areas as well as with advisory plans.

Continuing success of the new and renewed governance groups, extensive cooperation amongst the community reaching beyond ICES member countries, gathering, sharing and communicating knowledge. The new emerging Working Group on Greening the Research fleet is a great example of cooperation and exploring current needs at the intersection of industry, innovation and science. DSTSG in numbers – in the last year there was 41 publications, 25 journal contribution, 16 reports.

Some of the challenges include the use of hybrid meeting format -positivity raising inclusion, but also challenge in level of participations in between the navigation of equal engagement of both online and in person participants. This is something that should be well communicated to chairs, which could be better guided in how to navigate these situations and relieve pressure. Perception regarding RDBES (Regional database and estimation system) have been addressed, but some governance groups have raised challenges in regards of communication of the scale associated with the database deployment and new data model. Six governance data groups are under DSTGS, one is in FRSG (WGTAFGOV) – it is important that chairs of these groups stay connected and share experiences.

Engaging communities through ASC – the SG chair has established contact with dedicated group of participants discussing software solutions for analyzing underwater video and examined scope for possible future workshop and proposed linkages to other DSTSG groups such as

WGMLEARN and WGTIFD. It has been observed that there are discussions on considerable “silos” throughout ICES, if this perception is still current, we should promote and work on further collaboration amongst EGs.

Going forward, large focus is being put on cross collaboration and maintaining of good communication across SG’s, collecting and concentration of knowledge on technology and method descriptions, horizon scanning will require lot of SG collaboration – DSTSG comes in to helping guide the incorporation of operationalizing and consideration of aspect at the journey to operationalizing of new methods and technologies, link with DIG is highlighted. All these aspects feed into Quality Framework of the ICES Data Centre.

21 SCICOM Progress Report to Council

The SCICOM Chair, with reference to Document 21.1, outlined the structure of the annual progress report to Council and reminded the contributors of the 3 October 2022 deadline.

22 Closing remarks

SCICOM Chair thanked all members for their participation, whether online or in person, and engaged discussions, and the Science Department at the Secretariat for excellent meeting support.

SCICOM Chair would aim to set aside time at the SCICOM March meeting for discussions. Suggestions for discussion items from a national perspective were invited.

Wojciech Wawrzynski, Head of Science Department, extended thanks to this year's hosts of the Annual Science Conference. The agenda items on Science Cooperation and Projects were postponed until the next SCICOM meeting.

23 Dates of next meetings and close

SCICOM Chair announced the dates for the next SCICOM meeting scheduled to take place from Tuesday, 14 March till Thursday, 16 March.

Annex 1: List of participants

NAME	ADDRESS	PHONE/FAX/EMAIL	COMMENT
Chair:			
Jörn Schmidt, Chair, Science Committee	International Council for the Exploration of the Sea (ICES) Copenhagen V, Denmark	Email Joern.schmidt@ices.dk	Confirmed
Steering Group Chairs:			
Andy Kenny HAPISG Chair	Cefas, Lowestoft, United Kingdom	Email andrew.kenny@cefas.co.uk	Confirmed
Joël Vigneau, EOSG Chair	Ifremer, Port-en-Bessin France	Email joel.vigneau@ifremer.fr	Online
Steven Degraer EPDSG Chair	Royal Belgian Institute of Natural Sciences (MUMM), Brussels, Belgium	Email steven.degraer@naturalsciences.be	Confirmed
Debby Pedreschi, IEASG Chair	Marine Institute Galway, Ireland	Email Debby.Pedreschi@marine.ie	Confirmed
Jens Rasmussen, DSTSG Chair	Marine Laboratory, Aberdeen, United Kingdom	Email jens.rasmussen@gov.scot	Online
Ann-Lisbeth Agnalt, ASG Chair	Institute of Marine Research, Bergen, Norway	Email ann-lisbeth.agnalt@hi.no	Online
Patrick Lynch, FRSG Chair	NOAA Fisheries Silver Spring, MD United States	Email patrick.lynch@noaa.gov	Confirmed
Chairs of Operational Group, Strategic Initiatives and subgroups			
Sjur Ringheim Lid, <i>DIG Chair</i>	Institute of Marine Research Nordnes, Bergen Norway	Email sjur.ringheim.lid@hi.no	Online
Anders Nielsen, Chair of Training Group	DTU Aqua, National Institute of Aquatic Resources, Denmark	Email an@aqua.dtu.dk	Online
Nils Olav Handegard, SIPG Chair	Institute of Marine Research (IMR) Bergen, Norway	Email nilsolav@hi.no	Confirmed
Kathy Mills, SICCME Chair	Gulf of Maine Research Institute, Portland, United States	Email kmills@gmri.org	
Alan Baudron SICCME Chair	Marine Scotland Science, Aberdeen, Scotland United Kingdom	Email Alan.Baudron@gov.scot	Online
Katell Hamon, SIHD Chair	Wageningen Economic Research The Hague, the Netherlands	Email katell.hamon@wur.nl	Confirmed
Amanda Schadeberg, SII ECS Chair	Wageningen University & Research, Ijmuiden, the Netherlands	Email amanda.schadeberg@wur.nl	Confirmed
Denechaud Côme , SII ECS Chair	Institute of Marine Research (IMR)	Email come.denechaud@hi.no	Online

NAME	ADDRESS	PHONE/FAX/EMAIL	COMMENT
	Bergen, Norway		

Ex officio and guests

Alan Haynie, General Secretary	International Council for the Exploration of the Sea (ICES) Copenhagen V, Denmark	Email: alan.haynie@ices.dk	Confirmed
Henn Ojaveer, ACOM Vice-Chair	International Council for the Exploration of the Sea (ICES) Copenhagen V, Denmark	Email henn.ojaveer@ices.dk	Confirmed, Saturday
Howard Browman, Editor-in-Chief, IIMS	Institute of Marine Research (IMR) Bergen, Norway	Email nilsolav@hi.no	Online
Sonia Batten (Executive Secretary)	North Pacific Marine Science Organization (PICES)	Email sonia.batten@pices.int	Online
Sanae Chiba (Deputy Executive Secretary)	North Pacific Marine Science Organization (PICES)	Email Sanae.Chiba@pices.int	Online
Vera Trainer (PICES Science Board Chair)	North Pacific Marine Science Organization (PICES)	Email vera.l.trainer@noaa.gov	Online
Enrique Curchitser, Chair, Governing Council	North Pacific Marine Science Organization (PICES)	Email enrique@marine.rutgers.edu	Online, tentative
Bill Karp, President	University of Washington, Seattle, WA United States	Email bkarp@uw.edu	Confirmed, Friday
Johannes Karstensen (SCICOM Alternate, Chair of subgroup on Oceanography in ICES)	GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany	Email jkarstensen@geomar.de	Pending response
Diego Alvarez, Chair of subgroup on Oceanography	The Spanish Institute of Oceanography	Email diego.alvarez@ieo.es	Pending response
Margarida Castro (invited for item 17)	University of Algarve, Portugal	Email mcastro@ualg.pt	Online

National members and alternates:

Steven Degraer (Belgium)	Royal Belgian Institute of Natural Sciences (MUMM) Brussels Belgium	Email steven.degraer@naturalsciences.be	Confirmed
Ellen Kenchington (Canada)	Fisheries and Oceans, Canada Dartmouth Canada	Email Ellen.Kenchington@dfo-mpo.gc.ca	Confirmed
Sarah Bailey (Canada, alternate)	Great Lakes Laboratory for Fisheries and Aquatic Sciences Fisheries and Oceans Canada Burlington, ON, Canada,	Email: sarah.bailey@dfo-mpo.gc.ca	Confirmed
Brian MacKenzie (Denmark)	DTU Aqua -National Institute of Aquatic Resources	Email brm@aqua.dtu.dk	Online

NAME	ADDRESS	PHONE/FAX/EMAIL	COMMENT
	Kgs. Lyngby Denmark		
Mehis Rohtla (Estonia)	Estonian Marine Institute University of Tartu Tallinn, Estonia	Email mehis.rohtla@ut.ee	Online
Henrik Nygård (Finland)	Finnish Environment Institute (SYKE) Helsinki Finland	Email: henrik.nygard@ymparisto.fi	
Pierre Petitgas (France)	IFREMER Nantes Centre Nantes, France	Email pierre.petitgas@ifremer.fr	Confirmed
Olivier Thebaud (France, Alternate)	Ifremer, Centre Brest Plouzané France	Email Olivier.Thebaud@ifremer.fr	Online, Friday only
Andreas Kannen (Germany)	Helmholtz-Zentrum Geesthacht Center for Material and Coastal Research Geesthacht, Germany	Email Andreas.Kannen@hzg.de	Confirmed
Guðmundur J. Óskarsson (Iceland)	Marine and Freshwater Research Institute Reykjavík 121 Iceland	Email guðmundur.j.oskarsson@hafogvatn.is	Confirmed
Francis O'Beirn (Ireland)	Marine Institute Rinville, Oranmore Galway, Ireland	Email Francis.XOBeirn@Marine.ie	Confirmed
Ivars Putnis (Latvia)	Institute of Food Safety Animal Health and Environment (BIOR) Riga, Latvia	Email ivars.putnis@bior.lv	Confirmed
Artūras Razinkovas- Baziukas (Lithuania)	Open Access Centre for Marine Research Klaipėda, Lithuania	Email arturas.razinkovas-baziukas@ku.lt	Confirmed
Jos Schilder (Netherlands)	Ministry of Infrastructure and Water Management GK Rijswijk The Netherlands	Email jos.schilder@rws.nl	Confirmed
Nils Olav Handegard (Norway, alternate)	Institute of Marine Research (IMR) Bergen, Norway	Email nilsolav@hi.no	Confirmed
Szymon Smoliński (Poland, alternate)	National Marine Fisheries Research Institute Gdynia, Poland	Email ssmolinski@mir.gdynia.pl	Online
Antonina Santos (Portugal)	Portuguese Institute for the Sea and the Atmosphere (IPMA) Lisbon, Portugal	Email antonina@ipma.pt	Confirmed
Lidia Yebra (Spain)	Spanish Institute of Oceanography, CSIC Málaga, Spain	Email lidia.yebra@ieo.csic.es	Confirmed, minus Friday morning
Manuel Hidalgo (Spain, alternate)	Spanish Institute of Oceanography, CSIC Palma de Mallorca, Spain	Email jm.hidalgo@ieo.csic.es	Online, Friday morning
Lena Bergström (Sweden)	Department of Aquatic Resources, Swedish University of Agricultural Sciences	Email lena.bergstrom@slu.se	Confirmed

NAME	ADDRESS	PHONE/FAX/EMAIL	COMMENT
John Pinnegar (UK)	Cefas Lowestoft Laboratory United Kingdom	Email john.pinnegar@cefas.co.uk	Confirmed
Kevin Friedland (USA)	National Marine Fisheries Service Narragansett, United States	E-mail: kevin.friedland@noaa.gov	Online

ICES Staff:

Alondra Sofia Rodriguez, Science Department Officer	alondra.sofia.rodriguez@ices.dk	
Anna Davies, Conference and Training Coordinator	Anna.davies@ices.dk	
Barbora Valachova, Science Department Officer	barbora.valachova@ices.dk	
Camilla Scharff-Olsen, Science Department Officer	camilla.scharff-olsen@ices.dk>	
Celine Byrne, Communications Officer	celine.byrne@ices.dk	Online
Ena Briesemeister, Science Department Officer	ena.briesemeister@ices.dk	
Ellen Johannesen, Coordinating Officer	Ellen.Johannesen@ices.dk	
Julie Kellner, Science Programme Professional Officer	Julie.kellner@ices.dk	
Ruth Anderson, ICES Editor	ruth.anderson@ices.dk	
Vivian Piil, Science Department Departmental Officer	vivian.piil@ices.dk	
Wojciech Wawrzynski, Head of Science Support	wojciech.wawrzynski@ices.dk	

Annex 2: List of actions/decisions

Action/Decision	Section	Deadline	Responsible
<p>Action: A request is made to SCICOM to enquire whether ICES material might already be digitized by member country institutions, and whether this content could be shared with ICES (to be sent to ICES Editorial Office). A list will be provided with the content of interest by ICES Editorial Office.</p> <p>Action: SCICOM is requested to nominate a new member for the Awards Committee as from 1 January 2023. This will be taken through the SCICOM Forum.</p>	3	<p>Ongoing</p> <p>December 2022</p>	<p>SCICOM members</p> <p>SCICOM Chair/Secretariat</p>
<p>Decision: ACOM and SCICOM acknowledged the importance of creating a more inclusive working culture and supported the (interim) Gender Equality plan be submitted to Council for approval.</p>	10.2	–	–
<p>Operational evaluation of ASC 2022</p> <p>Action: An ASC subgroup was established to provide feedback and recommendations on format on the 2023 ASC. Membership: Jos Schilder (Chair), John Pinnegar, Lidia Yebra, Pierre Petitgas, SII ECS representative; and Secretariat (Wojciech Wawrzynski and Ena Briesemeister). The group should meet soon after 2022 ASC and all session conveners should be consulted for feedback. The established ASC subgroup is requested to better define the lines of networking and theme sessions as the lines are blurred under the hybrid format. The definition needs to be clearly communicated.</p>	11.1	Completed	Ongoing
<p>Feedback from ASC Award Selection Group (on Best Paper, Poster, Early Career Scientist Awards)</p> <p>Action: In 2022 all merit award winners were ECS, reflecting the pattern of the last few years where these awards went mainly to ECS. Therefore, Award Selection Group would like to table a proposal to the SCICOM March meeting to revisit the award categories and merge the ECS awards and the best overall award (also considering inclusion and equity).</p>	11.2	February 2023	Lidia Yebra, Spain
<p>Network Session feedback</p> <p>Actions: Central guidance on producing these materials including formal guidelines on joining ICES should be identified. Concrete recommendations on these materials (such as creating a standard slide set providing a general overview of ICES) will be provided in the written report. ICES Comms and future Strategic Initiative on Education will be asked to assist in developing this material.</p>	11.5	March SCICOM meeting 2023	SCICOM Chair, ICES Communications
<p>Science plan implementation, Science Plan</p>	15.1	December–February	SCICOM Chair

Action/Decision	Section	Deadline	Responsible
Action: SCICOM members were invited to join a Science Plan Evaluation Subgroup to review the Science Plan and provide recommendations for updates and changes to be tabled at the SCICOM March meeting. SCICOM Chair will post an outline of the subgroup task on the Forum and ask for members.			
ICES/PICES Strategic Initiative on Climate Change Impacts on Marine Ecosystems Action: SICCME Chairs welcomed input from SCICOM on: <ul style="list-style-type: none"> • New Terms of Reference for SICCME • Programs or projects SICCME should be aware of • Connections to WGs or other ICES activities • Potential SICCME members 	16.1	Completed	SCICOM members
Strategic Initiative on the Human Dimension Action: SCICOM Chair will continue the discussions started during ASC on whether to establish a new steering group, with a view to having a clear proposal tabled at the SCICOM March meeting.	16.2	February 2023	SCICOM Chair
Fisheries Resources SG - socioeconomics in stock assessments (joint meeting SIHD/FRSG) Action: As an outcome, it was agreed that Katell Hamon, Jonathan White, and Andie Chan will start a project to review current practices in the ICES community.	20.5	March SCICOM meeting 2023	Katell Hamon, SIHD Chair, Jonathan White, FRSG Chair
Ecosystem Observation SG Action: ICES could help the SG through delegates on the process of diplomatic clearance for the surveys, the secretariat can play a role to resolve issues so the scientific surveys can fulfil their obligations and targeted geographical scope.	20.6	October 2023	SCICOM Chair; EOSG Chair