

政府间海洋学委员会

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Lettre circulaire IOC n° 2963

(également disponible en anglais, russe et espagnol)

IOC/VR/HE/KI/ss 27 septembre 2023

Aux : Agences nationales officielles de coordination chargées d'assurer la liaison avec la COI

C.c. : Délégation permanentes /Missions d'observation auprès de l'UNESCO, et Commissions nationales pour l'UNESCO des Etats membres de la COI

Présidents et vice-présidents de la COI

Bureaux des principaux organes subsidiaires de la COI (scientifiques, techniques et

régionaux)

Objet : Présentation de la note conceptuelle actualisée

sur le Rapport sur l'état de l'océan

A sa 32e session en juin 2023, l'Assemblée de la COI a examiné une note conceptuelle révisée sur le *Rapport sur l'état de l'océan* (StOR). L'Assemblée s'est félicitée de l'évolution continue de la note conceptuelle sur le StOR en tant que document évolutif, sur la base de l'examen fourni par les États membres et des conseils du Comité consultatif sur le StOR, en particulier en ce qui concerne les thèmes et les récits traités. L'Assemblée a en outre approuvé la préparation d'une deuxième édition du StOR sous la direction du Comité consultatif sur le StOR (voir la <u>décision A-32/4.2</u> de la COI).

Suite à la décision de la COI, le Secrétariat a invité d'autres experts à participer au Comité consultatif sur le StOR (cf. Appendice I) afin de discuter plus avant et de donner des conseils sur la note conceptuelle en termes de sections, de portée, d'audience et de sujets. Le résultat de cet exercice est la note conceptuelle actualisée jointe en Appendice II.

Conformément à la décision A-32/4.2, deux sessions de consultation en ligne avec les États membres de la COI sont organisées par le Secrétariat :

31 octobre 2023 à 09:00 CET - s'inscrire ici, en anglais uniquement

31 octobre 2023 à 17:00 CET - s'inscrire ici, en anglais uniquement

Une fois inscrit à l'une des deux réunions de consultation, vous recevrez un courriel de confirmation contenant des informations sur votre participation en ligne à la réunion.

Chairperson

Dr Yutaka MICHIDA Professor Atmosphere and Ocean Research Institute, The University of Tokyo Kashiwanoha 5-1-5 2778564 Kashiwa JAPAN

Executive Secretary

Dr Vladimir RYABININ Intergovernmental Oceanographic Commission — UNESCO 7 Place de Fontenoy 75352 Paris Cedex 07 SP FRANCE

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Dr Nikolay VALCHEV Director Institute of Oceanology Bulgarian Academy of Sciences 40 Parvi May Str. 9000 Varna BULGARIA Mr Juan Camilo FORERO HAUZEUR Executive Secretary Colombian Ocean Commission (COO) Avenida Ciudad de Cali No. 51 – 66 Edificio WBC, Oficina 306 111071 Bogotá, D.C. COLOMBIA

Dr Srinivasa Kumar TUMMALA Director Indian National Centre for Ocean Information Services (INCOIS) Pragathi Nagar (BO), Nizampet (SO) Hyderabad 500090 INDIA Prof. Amr Zakaria HAMOUDA President National Institute of Oceanography and Fisheries(NIOF) Qaitbay, Al-Anfoshi Alexandria EGYPT Pour plus d'informations sur ces réunions en ligne, veuillez contacter Mme Kirsten Isensee (k.isensee@unesco.org) et Mme Yun Jie Lee (yj.lee@unesco.org).

Je vous prie d'agréer les assurances de ma très haute considération.

[signature]

Vladimir Ryabinin Secrétaire exécutif

<u>Pièces jointes</u> (2) : Appendice 1/ Composition du Comité consultatif sur le StOR Appendice 2/ Note conceptuelle sur le StOR (septembre 2023) (anglais seulement)

Appendix I/ Composition of the State of the Ocean Report Advisory Board

Secretarial support:

Henrik Enevoldsen, i.a. Head of Ocean Science Section Kirsten Isensee, Programme Specialist Ocean Science Section Yun Jie Lee, Programme Specialist Ocean Science Section

Experts										
Country	Title	Name/First name	Institution							
Australia	Ms	Wicks, Louise	Bureau of Meteorology							
Brazil	Mr	de Pinho, Roberto	Ministry of Science, Technology and Innovation							
Chile	Chile Mr Fierro, Juan José		Servicio Hidrográfico y Oceanográfico de la Armada							
Germany	Germany Mr Wunsch, Matthias		Bundesamt für Seeschifffahrt und Hydrographie							
Japan	Mr	Michida, Yutaka	University of Tokyo							
Kuwait	Ms	Al-Yamani, Faiza	Kuwait Institute for Scientific Research							
Senegal	Senegal Ms Dioh, Mariama		Ministère des Pêches et de l'Economie Maritime / Direction des Pêches Maritimes							
Spain	Mr	González-Quirós, Rafael	Instituto Español de Oceaanografía							
USA	USA Mr Naughton, Joseph		National Oceanic and Atmospheric Administration							
		IOC Secretar	riat members							
IOC-UNESCO WMO	Mr	Belbeoch, Mathieu	International Center of Excellence for Coordination and Monitoring of Meteo-Oceanographic Observing Systems							
IOC-UNESCO	OC-UNESCO Mr Barbière, Julian (Clausen, Alison)		Marine Policy and Regional Coordination Section, Decade Coordination Unit							
IOC-UNESCO	Ms Heslop, Emma		Ocean Observations and Services Section							
IOC-UNESCO	CO Mr Pissierssens, Peter		International Oceanographic Data and Information Exchange							
IOC-UNESCO	JNESCO Mr Aliaga, Bernardo (Chang Seng, Denis)		Tsunami Resilience Section							

Appendix II/ Concept note of the State of the Ocean Report (September 2023)

Background

- 1. In recent years, a renewed focus on the world's ocean and appreciation of its crucial role for life on Earth, the global climate, food security, human health and wellbeing, as well as its contribution to the global economy, have led to an increased demand by decision-makers for relevant, strategic, current, and easily accessible information on the state of the ocean.
- 2. At its 53^{-/-} session in February 2021, the IOC Executive Council (EC) considered the proposal to prepare a periodic 'IOC State of the Ocean Report (StOR)' as a response to the previously mentioned increased demand for the key information on the state of the ocean (see IOC/INF-1393). Following the 53^{-/-} session of the Executive Council, the IOC Secretariat invited Member States to express their views on the spatial and temporal scope of the report, focus areas, and style of presentation (cf. IOC Circular Letter, 2843). In parallel the IOC Secretariat convened an informal expert consultation on the StOR to further discuss its main features. The results of the Member States and expert consultation are synthesized in the IOC/INF-1393 Rev. The IOC Assembly at its 31^{-/-} session in June 2021 endorsed the production of a Pilot StOR, which was presented to the IOC Executive Council at the 55^{-/-} session in 2022.
- 3. The 'State of the Ocean Report 2022 Pilot edition' was presented to the Executive Council in June 2022. This first edition was structured around the ten initial Challenges of the UN Decade of Ocean Science for Sustainable Development, 2021–2030, and also identified an urgent need for a quantitative description of the state of the ocean and the capacity to report changes. The pilot edition consists of 21 sections and was authored by 65 authors and peer reviewed by 40 experts (see IOC Technical Series, 173). The pilot edition was presented to the wider public on the occasion of the UN Ocean Conference in Lisbon (27 June–1 July 2022) shortly after the Executive Council had welcomed the concept and sought further guidance from Member States.

StOR review process by IOC Member States and IOC Secretariat

- 4. Following the 55th session of the Executive Council, the IOC Secretariat invited Member States to provide further views on the pilot edition of the StOR and recommendations on how to improve future editions, focusing on its scope and publication frequency (IOC Circular Letter, <u>2899</u>). Eighteen (18) IOC Member States answered this call between July and September 2022 and provided advice (see IOC-32/4.2.Doc(1)).
- 5. A StOR Advisory Board was established in the first quarter of 2023 to support the preparation of the revised StOR concept note and to actively guide the preparation of the next StOR edition to be launched at the Ocean Decade Conference, 10–12 April 2024 in Barcelona, Spain. The StOR Advisory Board is composed of experts from IOC Member States and the IOC Secretariat. The IOC Secretariat invited national experts, taking into account the representation of the different electoral groups.
- 6. During the 32[™] session of the IOC Assembly Member States agreed on the following Terms of Reference for the StOR Advisory Board (<u>IOC Decision A-32/4.2</u>):
 - 1. Guide the ongoing development of the Concept Note of the State of the Ocean Report to ensure the further refinement of the purpose, frequency, scope, target audience, and alignment of the StOR with other UN assessment reports.
 - 2. Provide advice to the Secretariat in support of the production of the StOR, including:
 - (i) defining themes relevant for the different Ocean Decade Outcomes,
 - (ii) identifying the respective topics for the section,
 - (iii) identifying authors and reviewers for each section which reflect diversity in expertise, gender, geographic representation, career status and Indigenous Peoples and other coastal communities.

- 3. Provide regular reports on the concept and production of the StOR to IOC governing bodies.
- 7. The revised concept note is the result of consultation with the Member States and guidance from the Advisory Board.

Revised StOR objective and scope

- 8. The StOR has the ambition to:
 - (i) Inform decision-makers about gaps in the implementation of the Ocean Decade outcomes and, in the longer term, about gaps on the path to ocean well-being. The StOR will be used to inform policy and administrative priorities and identify research focus areas that need to be strengthened or developed.
 - (ii) Inform policymakers about the state of the ocean to stimulate actions towards 'the ocean we need for the future we want', contributing to the 2030 Agenda and in particular SDG 14, which reads 'Conserve and sustainably use the oceans, seas and marine resources', as well as other global processes such as the UNFCCC, the Convention on Biological Diversity, and the Sendai Framework. The StOR will be used to assist in the implementation of stronger science-based ocean governance frameworks at national and global levels.
- 9. The StOR will present the results of ocean-related scientific activities and analyses to describe the current and future state of the ocean, addressing physical, chemical, ecological, socioeconomic and governance aspects, focusing on the seven Outcomes of the Ocean Decade.
- 10. The Ocean Decade Outcomes represent the main features of the 'ocean we want' at the end of the Decade and are therefore well suited to serve as a framework for monitoring the state of the ocean during the Decade. Structuring the report around the Outcomes rather than the Challenges should improve the assimilation of the results presented. It will also strongly complement the other elements of the Ocean Decade monitoring and evaluation framework that focus on action-oriented activities and other key elements of the enabling environment of the Ocean Decade. Even after the end of the Decade the outcomes will represent general and globally agreed priorities on the path to ocean well-being. This will ensure that the StOR also has a long-term perspective beyond the Decade.
- 11. The target audience of the StOR are therefore primarily policy- and decision-makers, while being a potential source for information about the status of the ocean for the media and the general public.
- 12. The majority of the StOR sections will be provided by IOC expert working groups and projects, IOC affiliated activities, Ocean Decade programmes, and based on collaborations with other international and UN organizations.
- 13. There are already a number of related publications which focus on the ocean or contain dedicated sections exploring ocean themes, raising awareness on the importance of the ocean for the general public, policymakers and other marine stakeholders, such as the UN World Ocean Assessment (WOA), WMO State of the Global Climate Report, IPBES, Sofia Report, IPCC reports, AMS State of the Climate Report, among others. More information about the StOR and how it compliments many of these efforts was presented in IOC/INF-1393.
- 14. The StOR is intended to make a complementary contribution to the United Nations oceanrelated processes, providing a succinct summary of the latest information available with a view to achieving the Outcomes of the Ocean Decade. The StOR also complements the information presented in the UNESCO-IOC *Global Ocean Science Report*, which focuses on the enabling framework for ocean science, leading to the findings and assessments presented in the StOR.

Structure and timeline of production

- 15. It is expected that the next edition of the StOR, to be published in 2024, will feature multiple sections representing topics covering global assessments relevant to each Ocean Decade Outcome.
- 16. Future editions of the StOR shall be comprehensive but concise, with 2-5 sections per Ocean Decade Outcome. A section is a brief narrative description of a parameter(s) related to the specific Ocean Decade Outcome.
- 17. The decision on topics and list of contributors to each section is guided by the StOR Advisory Board and the review by Member States. A preliminary list of relevant themes and lead authors for each Outcome, is provided in Annex 1. Lead authors are invited to fill gaps in the authorship in diversity in expertise, gender, geographic representation, career status and Indigenous Peoples and other coastal communities, where appropriate.
- 18. A 2- to 3-page executive summary will be preceding the main body of the text, organized around the seven Ocean Decade Outcomes, illustrating key findings highlighted by sections.
- 19. The authors of each section are asked to provide a quantitative assessment related to the topic, not exceeding 3 pages (including figures and references). The figures and graphs included in the section, once redesigned, will be an important tool to illustrate the findings to a non-expert audience. Authors are advised to follow the section template (see Annex 2) which guides on content and format. Each section will be organized as follows: a brief introduction to the issue presented and why it is relevant for illustrating the respective outcome, a description of the current state of knowledge with quantitative and qualitative analyses and conclusions, as well as next steps that would be required for the topic of the contribution to achieve the respective Ocean Decade Outcome.
- 20. A timeline/ Gantt chart for the production of the 2024 edition guides the preparations (Annex 3).

Financial and administrative implications

- 21. The StOR is part of the activities under Function D, 'Support assessment and information to improve the science-policy interface'. The allocated regular budget is insufficient to produce the StOR (RP Workplan n°802: Follow-up to SDGs, WOA & State of the Ocean Reporting).
- 22. The publication of a regular StOR will require human and extrabudgetary financial support by IOC Member States to finance coordination at the IOC Secretariat, editorial work, translation, layout, design, printing and communication.

Annex 1: Proposed topics of sections and authors for the StOR 2024 edition

The table below is based on the revised concept note presented at the 32nd session of the IOC Assembly. The titles and authors are the results of previous consultations with the Advisory Board, the pilot edition presented in 2022 and the review by Member States.

Ocean Decade Outcome	Proposed section heading	Authors	Relation to IOC			
A clean ocean where sources of pollution are identified and reduced or removed.	Status and trends of nutrients and eutrophication, including strategies on how to reduce them	Alexander F. Bouwman and John A. Harrison, supported by Back to Blue	IOC and UNEP led initiative			
	Status and trends of plastic pollution, including strategies on how to reduce them	Peter Kershaw and Bethanie Carney, supported by Back to Blue	GESAMP 40 supported by IOC			
A healthy and resilient ocean where marine ecosystems are understood, protected, restored and managed.	Status and trends of ocean acidification	Katherina L. Schoo, Jan Newton, Steve Widdicombe and Kirsten Isensee	GOA-ON (IOC coorganizer) and OARS (Decade programme, colead), SDG 14.3.1 custodian agency			
	Status and trends of warming (not addressed yet)	Mercator				
	Status and trends of deoxygenation	Andreas Oschlies and Hernan Garcia, GO2NE	GO₂NE is an IOC working group			
	Status and trends of marine life, e.g. biodiversity, different functional groups.	for plankton: Peter Thompson, Jacob Carstensen and Hans Paerl / for increasing knowledge and threats: Mark J. Costello, J. Tom Webb, Pieter Provoost and Ward Appeltans	TrendsPo IOC WG and OBIS related to Marine Life 2030			
	Status and trends of marine protection, restoration, marine management	for MSP: Michele Quesada da Silva, Joanna Smith and Ingela Isaksson; Chenae Neilson and Elisabetta Bonotto on behalf of Coordinator Team of the International Partnership for Blue Carbon	MSP IOC led programme and IPBC IOC is part of the coordinator team IOC co-organizes the Blue Carbon Initiative			
A productive ocean supporting	Status and trends of a sustainable ocean economy	FAO, World Economic Forum, OECD				

Ocean Decade Outcome	Proposed section heading	Authors	Relation to IOC			
sustainable food supply and a sustainable ocean economy	and blue food supply, such as fisheries, aquaculture, maritime transport, coastal, marine and maritime tourism, other traditional uses, coastal renewable energy, seabed mining, and bioprospecting.					
A predicted ocean where society understands and can respond to changing ocean conditions.	Status and trends of ocean prediction capacities, products, guidelines and best practices	Nadia Pinardi, Vassiliki Kourafalou, Joaquín Tintoré, Emma Heslop and Mairead O'Donovan, Pierre Bahruel, Enrrique Fanjul	GOOS/ETOOFS and CoastPredict			
	Status and trends of sea level rise	Anny Cazenave and Gary Mitchum, Xuebin Zhang (CSIRO)	Tsunami Resilience Section			
	Predictions of the changing potential of the ocean carbon sink including mCDR	Experts from IOC-R and GESAMP	GESAMP 41 supported by IOC and IOC-R is an IOC working group			
A safe ocean where life and livelihoods are protected from ocean-related hazards.	Status and trends and Impacts of response systems of ocean-related hazards	Bernardo Aliaga, Rick Bailey, Bruce M. Howe, Srinivasa Kumar Tummala and Yong Wei, Christa von Hillebrandt- Andrade, Harkunti Pertiwi Rahaya, Silvia Chacon	Tsunami Resilience Section			
	Status, trends and impacts of harmful algae blooms	Gustaaf M. Hallegraeff, Adriana Zingone and Henrik Enevoldsen	IOC-FAO/IPHAB			
An accessible ocean with open and equitable access to data, information and technology and innovation.	Status of access to a sustainable ocean observing system	Emma Heslop, Mathieu Belbeoch, Ward Appeltans and Serita van der Wal	GOOS, OceanOPS			
	Status of open access to ocean data at the global level	for GOOS: Emma Heslop, Mathieu Belbeoch, Ward Appeltans, Kevin O'Brien and Pieter Provoost / for IODE: Peter Pissierssens, Lucy Scott,	IODE, GOOS			

Ocean Decade Outcome	Proposed section heading	Authors	Relation to IOC			
		Claudia Delgado and Ward Appeltans / for GEBCO: Marzia Rovere, Aileen Bohan, Caroline Bringensparr, Evert Flier, Jamie McMichael-Phillips, Helen Snaith, Pegah Souri and Pauline Weatherall				
An inspiring and engaging ocean where society understands and values the ocean in relation to human wellbeing and sustainable development.	Status and trends in building global ocean literacy	Emma McKinley and Ronaldo Christofoletti	IOC-led Ocean Literacy programme			
	Status and trends of civil society/private sector involved in ocean science and observation	OceanObs	OceanObs			
	Efforts to include indigenous and traditional knowledge in ocean science	UNESCO LINKS programme	Guidance on ILK provided by IO			

Annex 2: The StOR Contribution Template

Outcome X

[Title] maximum 80 characters

Authors: [name, first name¹, name, first name²,]

- [Affiliation, Country, email corresponding author]
- ² [Affiliation, country]

[Introductory text including relevance of the topic to the Decade outcome in question] 150 words maximum

[Description of findings, trends, status] 500 maximum

[Conclusion, next steps] 150 words maximum

Figure [X]. [caption text]. Source: [text].

References

examples, authors are encouraged to focus on the main publications and apply the style below:

Friedlingstein, P., O'Sullivan, M., Jones, M. W., Andrew, R. M., et al. 2020. Global Carbon Budget 2020. *Earth System Science Data*, Vol. 12, pp. 3269–3340. https://doi.org/10.5194/essd-12-3269-2020

IPCC. 2019. IPCC Special Report on the Ocean and Cryosphere in a Changing Climate. (H.-O. Pörtner, D. C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama and N. M. Weyer (eds.)). In press. https://www.ipcc.ch/srocc/

Additional resources

maximum 3, follow the example

IOC SDG 14.3.1 portal http://oa.iode.org

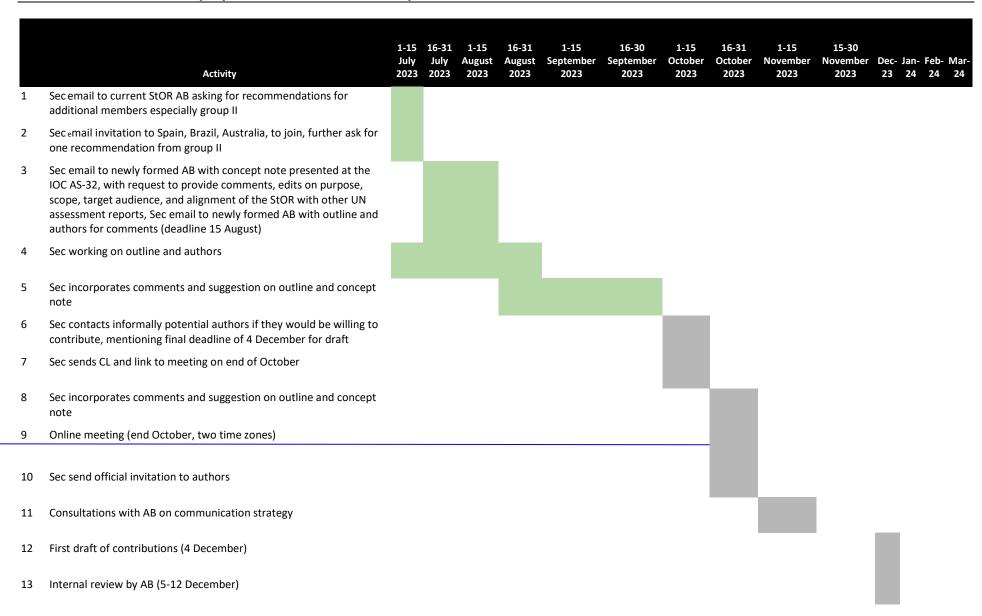
Global Ocean Acidification Observing Network http://goa-on.org

Ocean Acidification Research for Sustainability Ocean Decade Programme http://goa-on.org/oars/overview.php

Additional guidance:

- Number of figures maximum 2
- Footnotes should be avoided

Annex 3: Timeline for the preparation of the StOR to be published in 2024



	Activity	1-15 July 2023	16-31 July 2023	1-15 August 2023	16-31 August 2023	1-15 September 2023	16-30 September 2023	1-15 October 2023	16-31 October 2023	1-15 November 2023	15-30 November 2023	Dec	
14	Incorporation of comments by authors (13 Dec.–7 Jan.)												
15	External review											П	
16	Incorporation of comments by authors (22 Jan.–4 Feb.)												
17	Language editing												
18	Sec with AB drafting of the Executive Summary												
19	Layout												
20	Finalization												