

## unesco

Intergovernmental Oceanographic Commission

# State of the Ocean Report (StOR)

Status and progress

IOC Officers Meeting 22-24 January 2024

### **StOR Pilot edition**

presented at 55<sup>th</sup> session of the IOC EC in 2022

- To demonstrate the feasibility of keeping the world up to date on the current state of the ocean
- Based on examples from IOC-led or joint initiatives
- Structured around the initial Challenges of the UN Decade of Ocean Science for Sustainable Development, 2021–2030
- 65 authors from 15 countries and 40 reviewers from 20 countries
- Launched publically at the UN Ocean Conference in Lisbon, Portugal (27 June - 1 July 2022)

### State of the Ocean Report 2022





### **StOR review process**

by Member States and IOC secretariat

- IOC Secretariat invited Member States to provide their views and recommendations (July – September 2022)
- 18 IOC Member States provided comments and advice

#### **Comments from MS**



Intergovernmental Oceanographic Commission

- Language should be understandable by non-scientists
- Some Member States recommended to focus on global changes, while others recommended to include regional case studies
- Should be aligned with the Ocean Decade process
- Focus on status not enabling framework
- Identification of the key indicators for different challenges is needed and they should be highlighted in the report
- Publication frequency: annually (7 countries) and biannually (8 countries)

#### **Revised concept note presented at 32<sup>nd</sup> session of IOC Assembly**



- The basis for the revised concept note: Member State review and the guidance provided by the Advisory Board, and additional comments from all IOC sections.
- The StOR will feature the results of analyses ocean-related scientific activities towards the description of the present, and future state of the ocean, addressing physical, chemical, ecological, socio-economic and governance aspects focusing on the **7 Ocean Decade Outcomes** at the **global level**.
- The StOR will include contributions not only by IOC projects and affiliated programmes, but also by other UN agencies and other relevant organizations, which will be identified and invited to provide storylines based on the guidance provided by the StOR advisory board.
- The StOR, **intended to be published biannually**, is envisaged to be a complementary contribution to ocean related UN processes, by **providing a succinct summary of the latest information** available towards achieving the Outcomes of the Ocean Decade.

### **Decision StOR 32nd IOC Assembly - IOC Decision A-32/4.2**



The Assembly,

- Recalling the needs and views of IOC Member States with regard to the value-added, contribution, contents and structure of an IOC State of the Ocean Report (StOR) as compiled by the IOC Secretariat in response to the dedicated IOC Circular Letter 2843 issued on 28 May 2021 (IOC/INF-1393 Rev.);
- Having considered the contents and format of the Pilot edition of the IOC State of the Ocean Report as expressed by the Executive Council in its Decision IOC/EC-55/3.3,
- Taking note of the outcomes of the Pilot StOR further review consultation with IOC Member States through IOC Circular Letter 2899 and the incorporation of the outcome in the revised StOR Concept Note as detailed in document IOC/A-32/4.2.Doc(1),
- Welcomes the establishment of the StOR Advisory Board, taking into account the representation of the different electoral groups and the Terms of Reference annexed to this decision;
- Also welcomes the continued evolution of the StOR Concept Note as a living document, based on the review provided by Member States and the advice by the StOR Advisory board, including the themes and storylines outlined;
- Endorses the development of a second StOR under the guidance of the StOR Advisory Board, and subject to the availability of extrabudgetary resources;

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### **Decision StOR 32nd IOC Assembly - IOC Decision A-32/4.2**



- Requests the Executive Secretary in consultation with the StOR Advisory Board to:
- (i) issue a Circular Letter with a revised Concept Note specifying the purpose, scope, target audience, and alignment of the StOR with other UN assessment reports; together with a detailed outline of the second edition of the StOR; to Member States for their comments;
- (ii) convene a virtual meeting of Member States to present the outcomes of the feedback and agree on next steps; and
- (iii) draft the second edition of the StOR for presentation at the 2024 UN Ocean Decade Conference in Barcelona;
- Also requests the StOR Advisory Board, with the support of the Secretariat, to provide a report on the second edition of the StOR to the IOC Executive Council at its the 57th Session for Member States review and additional guidance;
- Invites IOC Member States to provide extrabudgetary financial resources to the realization of the IOC State of the Ocean Report.

Annex to Decision A-32/4.2

StOR Advisory Board Terms of Reference

- 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 storylines.
- (iii) identifying authors and reviewers for each storyline 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.

#### **StOR Advisory Board**



- 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
- Composed of a total of 14 experts, representing 9 Member States, which provided input to the review process considering the different electoral groups, and the IOC Secretariat.

		Exp	perts							
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	Mr	Fierro, Juan José	Servicio Hidrográfico y Oceanográfico de la Armada							
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	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	Mr	Naughton, Joseph	National Oceanic and Atmospheric Administration							
1		IOC Secreta	riat members							
IOC/UNESCO, WMO	Mr	Belbeoch, Mathieu	International Center of Excellence for Coordination and Monitoring of Meteo- Oceanographic Observing Systems							
IOC/UNESCO	Mr (Ms)	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	Mr	Pissierssens, Peter	International Oceanographic Data and Information Exchange							
IOC/UNESCO	Mr	Aliaga, Bernardo (Chang Seng, Denis)	Tsunami Resilience Section							

#### 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



Reduced redundancy in the text

The target audience of the StOR - primarily policy- and decision-makers, while being a potential source for information about the status of the ocean for the media

StOR based on data from IOC programmes and affiliated projects where available and on complementary data from other international organizations where required to deliver a StOR addressing all Decade outcomes.

Frequency – regular, depending on financial and human resources

StOR a complementary contribution to the UN ocean-related 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 GOSR – focus on the enabling framework for ocean science, leading to the findings and assessments presented in the StOR.



Future editions of the StOR shall be comprehensive but concise, with 2-5 sections (*storylines replaced with sections to facilitate understanding*) per Ocean Decade Outcome. A section is a brief narrative description of a parameter(s) related to the specific Ocean Decade Outcome.

#### Guidance for authors:

- provide a quantitative assessment related to the topic, not exceeding 3 pages (including figures and references),
- figures and graphs included in the section, once redesigned, will be an important tool to illustrate the findings to a non-expert audience,
- Section template 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.





A clean ocean where sources of pollution are identified and	eutrophication, including strategies on how to reduce them		initiative
reduced or removed.	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,	Status and trends of ocean acidification	Katherina L. Schoo, Jan Newton, Steve Widdicombe and Kirsten Isensee	GOA-ON (IOC co- organizer) and OARS (Decade programme, co-lead), SDG 14.3.1 custodian agency
protected, restored and	Status and trends of warming (not addressed yet)	Karina von Schuckmann	
managed.	Status and trends of deoxygenation	Hernan Garcia, Takamitsu Ito, Zhankun Wang, James Reagan, Tim Boyer and Courtney Bouchard, GO2NE	GO <sub>2</sub> NE 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 / for blue carbon : 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 sustainable food supply and a sustainable ocean economy	Status and trends of 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.	Tarub Bahri, Manuel Barange, Vera Agostini	FAO, World Economic Forum, OECD		
A so re	-	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		
			Anny Cazenave and Gary Mitchum	Tsunami Resilience Section		
		<b>u</b>	Chris Vivian, Philip W Boyd and Böttcher Miranda	GESAMP 41 supported by IOC and IOC-R is an IOC working group		

	of response systems of ocean-	Bernardo Aliaga, Rick Bailey, Bruce M. Howe, Srinivasa Kumar Tummala and Yong Wei, Christa von Hillebrandt-Andrade, Harkunti Pertiwi Rahaya and Silvia Chacon	Tsunami Resilience Section
	Status, trends and impacts of harmful algae blooms	Gustaaf M. Hallegraeff, Adriana Zingone and Henrik Enevoldsen	IOC-FAO/IPHAB
open and equitable access to	•	Emma Heslop, Mathieu Belbeoch, Ward Appeltans and Serita van der Wal	GOOS, OceanOPS
	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, Ana Carolina Mazzuco and Ward Appeltans / for GEBCO: Marzia Rovere, Aileen Bohan, Caroline Bringensparr, Evert Flier, Jamie McMichael-Phillips, Helen Snaith, Pegah Souri and Pauline Weatherall	IODE, GOOS

An inspiring and engaging ocean where society understands and values the ocean in relation to human wellbeing and sustainable development.	J J	Emma McKinley and Ronaldo Christofoletti	IOC-led Ocean Literacy programme
	Status and trends of civil society/private sector involved in ocean science and observation	Mathieu Belbeoch	OceanObs
	ocean science	Crawhall Nigel Thomas, Flamand Aude, Ikhlef Khalissa, Quesada Da Silva Michele and Fernanda Terra Stori	Guidance on ILK provided by IO

	Activity	1-15 July 2023	16-31 July 2023	1 August - 15 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-23	Jan-24	Feb-24	Mar-24
1	Sec email to current StOR AB asking for recommendations for additional members especially group II													
2	Sec email invitation to Spain, Brazil, Australia, to join, further ask for one recommendation from group II													
3	Sec email to newly formed AB with concept note presented at the IOC AS-32, with request to provide comments, edits on purpose, scope, target audience, and alignment of the StOR with other UN assessment reports, Sec email to newly formed AB with outline and authors for comments (deadline 15 August)													
4	Sec working on outline and authors													
5	Sec incorporates comments and suggestion on outline and concept note													
6	Sec contacts informally potential authors if they would be willing to contribute, mentioning final deadline of 4 December for draft													

#### (Update of Timeline/Gantt)

		1-15 July		1-15 August		16-30 Sep	1-15 Oct	16-31 Oct	1-15 Nov	15-30 Nov	Dec	1-15 Jan	15-31 Jan	1-15 Feb	15-29 Feb	1-15 Mar	15-31 Mar	1-15 Apr	15-30 Apr	May
	Activity	2023	_	2023	2023	2023	2023	2023	2023	2023	2023					2024				
	Sec sends CL and link to																			
7	meeting on end of October(27 Sep.)						_	→												
	Sec incorporates comments																			
8	and suggestion on outline and concept note																			
9	Online meeting (end October, two time zones)																			
10	Sec send official invitation to authors(10 Nov.)								4											
	Consultations with AB on																			
11	communication strategy								_	<b>→</b>										
	(Update StOR to AB, 23 Nov.)																			
12	First draft of contributions (20 Dec. but maybe 22 Jan.)										_		<b>→</b>							
13	Internal review by AB (29 Jan.)										_		1							
14	Incorporation of comments by authors (22 Jan15 FEB.)										_		<b>→</b>							
15	External review																			
16	Incorporation of comments by authors (1 Mar.– 14 Mar.)												_			<b>→</b>				
17	Language editing															→				
18	Sec with AB drafting of Executive Summary																	-		
19	Layout																			
20	Finalization																_			<b>→</b>