UNPACKING THE UNFCCC GLOBAL STOCKTAKE for Ocean-Climate Action





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1. Introduction

In 2015, the adoption of the UNFCCC's Paris Agreement set in motion a series of national-level commitments – known as Nationally Determined Contributions (NDCs) – in which countries communicate the exible but ambitions actions that they plan to take to meet the goal to limit global warming to well below 2°C and pursue efforts to limit it to 1.5°C. The Paris Agreement sets out, among other actions, mitigation, adaptation and nance goals.

The Paris Agreement relies on the ambition mechanism or the concept of "ratcheting up" every ve years with revised, increasingly ambitious commitments de ned at a national level based on country context, capacity, and exibility through the NDCs. The ambition mechanism is the tool de ned to assess progress towards meeting the goals of the Paris Agreement and to inform the next round of NDCs. The Global Stocktake (GST) is an avenue for informing and raising the ambition of countries' NDCs. It could trigger additional public support and action on the ground. Understanding where ocean issues can be adequately included within the GST and then integrating them into this process will be critical factors to ensure the ocean's contribution to achieving the goals of the Paris

Agreement is re ected, understood, and prioritized. Further, the IPCC SROCC (2019) indicates that over the 2dentury, the ocean is projected to transition to unprecedented conditions with increased temperatures, greater upper ocean strati cation, further acidi cation, oxygen decline and altered net primary production. Clear understanding and integration of the ocean's role can encourage and leverage its widespread inclusion in domestic and international climate change mitigation, adaptation, and resilience policies.

The mitigation and adaptation potential of ocean and coastal ecosystems is ingrained in the Paris Agreement (Article 5.1 and Article 7.5°, respectively). As the Earth's largest long-term natural carbon sink, the ocean is the primary regulator of the global climate in a healthy system. Ocean-climate actions can serve as a part of the solution for climate change mitigation (protecting blue carbon ecosystems, ocean-based renewables, etc.) and climate change adaptation (sustainable sheries for food security, etc.)³ Despite the clear interrelationship between climate change and the ocean, the ocean-climate nexus is still hardly accounted for in many UNFCCC discussion's

¹ Article 5.1: "Parties should take action to conserve and enhance, as appropriate, sinks and reservoirs of greenhouse gases as referred to in Article 4, paragraph 1(d), of the Convention, including forests." Art 4, 1(d): "promote sustainable management, and promote and cooperate in the conservation and enhancement, as appropriate, of sinks and reservoirs of all greenhouse gases not controlled by the Montreal Protocol, including biomass, forests and oceans as well as other terrestrial, coastal and marine ecosystems

Article 7.5: "Parties acknowledge that adaptation action should follow a country-driven, gender-responsive, participatory and fully transparent approach, taking into consideration vulnerable groups, communities and ecosystems, and should be based on and guided by the best available science and, as appropriate, traditional knowledge, knowledge of indigenous peoples and local knowledge systems, with a view to integrating adaptation into relevant socioeconomic and environmental policies and actions, where appropriate.

Northrup, E., et al. 2021. Enhancing Nationally Determined Contributions: Opportunities for Ocean-Based Climate Action. https://doi.org/10.46830/wriwp.20.00054

⁴ UNFCCC Information Note: SBSTA Ocean and Climate Dialogue to Consider How to Strengthen Adaptation and Mitigation Action. https://unfccc.int/sites/default/ les/resource/OD_InformationNote.pdf





- % the information collection and preparation phase (component 1);
- % the technical assessment phase (component 2);
 and
- % the consideration of outputs in a high-level event (component 3).

To inform the GST process, the Chairs of the Subsidiary Body for Implementation (SBI) and Subsidiary Body for Scienti c and Technological Advice (SBSTA) are requested to develop guiding questions to inform each of the components starting at SB52 for the 2023 GST. The guiding questions will be speci c for each of the components above. These questions will be the anchor for how to guide the discussion, inputs, and decisions associated with how to present the GST outcomes The GST is further structured by thematic category 1. Mitigation, 2. Adaptation and 3. Means of implementation and support (see section 3 for details) as well as for cross-cutting issues like loss & damage and response measures.

A SBSTA/SBI joint contact group (JCG) will be established, likely similar to the Periodic Review mechanism, to support the different components of the GST process and serve as a vehicle for Parties' more formal negotiations on the outcomes of the GST. The three thematic areas are considered within the three respective Components that make up the GST, and are governed by the SBSTA and SBI Chairs in the JCG:

Component 1: Information collection and preparation: this Component focuses on gathering, compiling and synthesizing information as well as preparing for the technical assessment. The inputs for Component 1 are to be collected starting one negotiation session prior to technical assessment and end six months before the consideration of outputs. Acceptable inputs are identified in the non-exhaustive list of inputs, including but not limited to NDCs (and related Biennial Transparency Reports (BTRs)) as well as IPCC reports. Acknowledging that current available information may not cover all relevant sectors, SBSTA and SBI were also requested to identify potential information gaps and make requests for additional input noting the cut-off date for the collection period.

Component 2: Technical assessment: this Component will take stock of the implementation of the Paris Agreement and will assess the information collected in Component 1, as well as opportunities to enhance climate action and support the continued achievement of the Agreement. Component 2 includes the establishment of technical dialogues (TD), which will be transparent and inclusive and will likely entail in-session workshops and roundtables that will occur when the Subsidiary Bodies ("SBs") are in session. The technical assessment aims to appraise the three thematic areas in a balanced manner while taking into account equity and the best available science.⁵

The CMA will conduct the

GST
Thematic
Areas

Mitigation

Adaptation

Means of implementation and support

Cross-cutting issues:
Loss and Damage and Response Measures

Information collection and preparation

Technical assessment

Consideration of outputs

⁷ Decision 19/CMA.1 FCCC/PA/CMA/2018/3/ADD.2 (para 7)

⁸ Decision 19/CMA.1 FCCC/PA/CMA/2018/3/ADD.2, Matters relating to Article 14 of the Paris Agreement and paragraphs 99–101 of decision 1/CP.21 (para 36)

Component 3: Consideration of outputs: The nal Component will focus on showcasing and discussing the implications of the ndings of the GST with the view to achieving the long-term goals of the Paris Agreement, as well as informing Parties to update and enhance their NDCs and accelerate climate action. Component 3 will consist of high-level events and summarize important political messages and avenues to enhance climate action, as well as international cooperation and support. The consideration of outputs could potentially end with a CMA decision or declaration outlining the ndings.

the thematic areas and considers information on a collective level regarding:

- a) GHG emissions by sources and removals by sinks and mitigation efforts undertaken by Parties;
- b) overall effect of Parties' NDC including information from the ETF;
- c) adaptation efforts, support, experience and priorities;
- nance ows, including information from the latest
 biennial assessment and overview of climate 36nance I7 0.123 0.12

b. Sources of input to the Global Stocktake

In 2018, the Katowice climate package was adopted at the COP24 Climate Conference as a set of CMA decisions that comprise the "Paris Rulebook," or the rules to implement the Paris Agreement. The sources of input and the modalities for the GST were part of that negotiation package. The GST will consider information that informs

3. Ocean topics in the GST thematic areas

The tables in the sections below detail ocean and coastal based mitigation and adaptation actions focusing on NbS and indicating other relevant ocean-based efforts, as well as means of implementation and support for ocean-climate action. The tables further below detail the measures and activity information for each respective action and its corresponding report that this activity would be included in. Essentially, the tables map how to nd the type of ocean actions that are most relevant to you and where these actions might be included in the sources of input to the GST.

efforts in coastal regions, within national jurisdictions, that are captured by their reporting under the IPCC's 2013 Wetlands Supplement and in the related National GHG Inventory. Activities outside of national jurisdictions (ie, international waters), are generally outside of the scope of the Paris Agreement.

While it is unclear what the GST's technical assessment on mitigation will speci cally entail at this time, draft deliberations in 2018 on the GST, as captured in the APA Joint Re ections Note¹⁴ suggested preliminary guiding

a. Thematic Area 1: Mitigation

The rst thematic area of the GST will consider the state of GHG emissions and removals and mitigation efforts of Parties, including information on the overall effects of NDCs, information on global and sectoral GHG emissions, as well as relevant information from the ETF (Article 13), low emissions development strategies (LEDS) and developing country circumstances. The IPCC Sixth Assessment Report (AR6) and its related outputs to be published in 2022 will be an input to the whole of the GST, in addition to a UNFCCC Special Eventh dedicated to detailing the key messages related to the GST. Mitigation approaches for ocean climate action will primarily be focused on Parties'

¹³ Decision 19/CMA.1 para 29

¹⁴ Ad Hoc Working Group on the Paris Agreement (APA). (2018, August 2). Ad Hoc Working Group on the Paris Agreement: Additional tool under item 6 of the agenda (APA1.6.Informal.1.Add_.4). Retrieved October 12, 2020, from https://unfccc.int/sites/default/ les/resource/APA1.6.Informal.1.Add_.4.pdf

metrics and national circumstances make quantitative goals challenging. Thus, the global adaptation goal describes the intent to: 1) enhance adaptive capacity and resilience, and 2) reduce vulnerability, with a view to contributing to sustainable development. The non-status initial guiding questions for adaptation are noted below, but will also be developed ahead of Component 1:

% How can we most effectively and adequately increase the ability to adapt to the adverse

¹⁶ Ocean & Climate. (2019). Policy recommendations: A healthy ocean, a protected climate. Retrieved October 22, 2020, from https://ocean-climate.org/wp-content/uploads/2019/11/mep-plaidoyer-ENG-WEB-1.pdf

Develop low-carbon, sustainable	 Consider marine spatial planning 	NBSAPs (relevant sections and as
blue economies	(MSP) / Integrated Ocean management (IOM) to manage marine and coastal ecosystems ¹⁸	aligned with CBD Post 2020 GBF Indicators)
	 Include Indigenous peoples and local communities and their knowledge and techniques in the design and implementation of adaptation measures 	NAP or AC
	 Support and invest in green-gray infrastructure approaches over hard engineering (e.g. concrete walls) 	• NAP
	 Promote sustainable shing practices and explore low-carbon alternatives e.g. seaweed production for food and fuel¹⁹ 	 NAP or AC, speci cally related to agriculture/ shing and food security
Research and promote innovative adaptation strategies	Invest in and support research that develops alternative restoration stems	

i. Ocean relevant actions

Oceans-related means of implementation and support themes	Relevant activities to be considered by Parties	Indicative type of input this measure could be reflected
Finance		
Adequately fund ocean-related mitigation and adaptation actions	 Financial instruments which are speci c to the needs of ocean-based mitigation and adaptation projects Case studies from the insurance sector to develop insurance products for coastal settlements and regions (for example the Zurich Flood Resilience Alliance) Number/amount of \$ from Multilateral-development banks (MDBs)? Case studies on environmental impact and sustainability bonds for coastal resilience and nature-based infrastructure that can deliver cash up front and could include performance-based components would allow risk sharing and faster delivery²¹ Case studies on public-private trust funds for coastal and small-island conservation, such as the Seychelles' Conservation and Climate Adaptation Trust (SeyCCAT?) Share data and information on nancial risk tools to assess the risk of various ocean investments?3 Align implementation efforts with socially and environmental sound efforts like the Sustainable Blue Economy Finance Principles from UNEP FI, and Ocean Risk and Resilience Action Alliance?4 	 International commitments in NDC or reports from the SCF, IOC Capacity Development Reports²⁵ Empirical information from case studies (Note: While the GST might no assess case studies directly, empirical information developed by Parties to aid in identi cation of where and what type of action and support is needed, what works and in which contexts, and how action and support can be delivered would have a better chance of being incorporated into the GST, and further provides critical re ection points throughout all stages of the GST with tangible examples and experiences)



4. What can you do?

As the process of the GST has started (Figure 2) it is crucial that the various actors engage actively into providing relevant input, and further supporting efforts that can shape and in uence the outcome of this exercise. Outlined

below are examples of stakeholder groups and the types of actions and interventions that could be considered. The actions are divided by thematic areas of the GST and are non-exhaustive.

a. Governments

	Support and champion Party requests for ocean/coastal-relevant guiding questions to be adopted as part of the GST process
	Allocate delegation support to cover relevant SBSTA items throughout all components, including ensuring ocean-topics are integrated appropriately
General	Continue to include coastal and marine ecosystems and NbS as well as ocean related vulnerabilities into the NDC 5-year increased ambition cycle
	Increase and enhance cross-departmental collaboration to break down silos
	Incentivize and account for the bene ts of establishing effective networks of marine protected areas, to help build ecosystem resilience
	Include ocean and coastal elements in the revised NDC (now or future), and clarify/re ne metrics to ensure comparability of the relevant element, as the GST is about collective progress
Thematic area 1 Mitigation	Integrate relevant coastal wetland carbon accounting in the BTR or National GHG inventory (note: the rst BTR is due AFTER the GST, in 2024)
	Promote NbS related indicators that can help countries report across a multitude of international commitments and actions
	Include ocean and coastal elements in the revised NDC (now or future), NAP and adaptation communication
	Clarify/re ne metrics in the NAP or Adaptation Communication to ensure comparability of the relevant element, as the GST is about collective progress
Thematic area 2 Adaptation	Promote NbS related indicators that can help countries report across a multitude of international commitments and actions
	Submit national biodiversity report with climate adaptation metrics from the CBD post-2020 global biodiversity framework
	Apply a seascape approach to ensure the relevant ecosystem service provision while maintaining or even increasing resilience

	Fund scienti c research that will be assessed and reviewed by the IPCC
	Clearly communicate the nancial support needed to include, measure, report, etc. ocean climate actions – via NDCs and other means of communications to the UNFCCC
	Clearly communicate the needs for capacity building and technology transfer
Thematic area 3 MOI	Support the implementation and development of targeted funding and nance streams and mechanisms for coastal and marine NbS
	Support and develop ocean-climate proposals to the GCF
	Call for free, open and accessible data to increase the transparency and utility of the scienti c inputs.
	Build a thoroughly participatory process to engage key stakeholders (including from the ocean community) that will help strengthen the political momentum within the GST, thus triggering nationally enhanced ambition

b. Research institutes

	Publish relevant studies and submit for inclusion ahead of the deadline for AR®
	Engage in the SBSTA Research Dialogue, and other ocean-climate working groups like through the Ocean Decade challenges and relevant GESAMP working group
	Sponsor a joint assessment or workshop between IPCC and IPBES on ocean and climate change
General	Present new ndings relevant for raising additional awareness on ocean and climate issues, including via the UN Decade of Ocean Science for Sustainable Development, and UN Decade of Ecosystem Restoration, ahead of COP28 or at relevant sessions of the Technical Dialogues.
	Advance understanding through revised assessments on climate resilience indicators of MPA networks; and consider the application of climate change vulnerability criteria in network design
	Consolidate scienti c knowledge on the role of the ocean in climate mitigation
	Document, understand and predict the evolution of the ocean heat and circulation, as well as their in uence on weather, climate variability and climate change
Thematic area 1 Mitigation	Better understand, qualitatively and quantitatively, the role of the ocean in climate regulation through the sequestration of anthropogenic carbon, or of other climate-active gases
	Analyze the interactions between marine biodiversity and climate regulation, in particular by better identifying feedback loops between the ecological impacts of different pressures (e.g. over shing, pollutions, climate change) and CO2 storage mechanisms
	Deepen knowledge on the adaptive capacity of coastal and marine organisms,
Thematic area 2	Advance studies and understanding on interdependent social and natural resilience and adaptation processes
Adaptation	Further study the cumulative and interacting effects of climatic /environmental ocean stressors (e.g. ocean warming, ocean deoxygenation, ocean acidi cation) and anthropogenic pressures (e.g. over shing, pollution, habitat destruction) on the coastal and marine biosphere, carbon cycle and socio-economic systems
Thematic area 3	Engage in, and report on relevant research around capacity building success, challenges and needs as well as nancing opportunities for coastal and marine NbS
MOI	Contribute to global monitoring networks that are supporting the relevant indicators as established by UN Sustainable Development Goal 14

Thematic area 2 Adaptation	Report on measures taken to reduce any negative impacts from climate adaptation efforts and related infrastructure on coastal and marine biodiversity or on vulnerable communities		
	Report on measures looking at green-grey opportunities for climate adaptation		
Thematic area 3 MOI	Identify, promote and scale-up key opportunities to leverage more nance to increase ambition in NDCs, including via NbS projects for adaptation and mitigation and report to the GST		
	Fund developing country Parties to support technical capacity building and training on basic measurement, reporting and veri cation capacities, including to implement the IPCC's 2013 Wetland Supplement		
	Establish a favourable investment climate, providing a legal basis for investment, ease of doing business, and liquidity, as well as a consistent tracking mechanism		

5. Conclusion

The Global Stocktake is a critical point to collectively come together to assess progress towards achieving the goals of the Paris Agreement for mitigation, adaptation, and nance, as well as to inform future action to enhance the necessary ambition. Within the current GST framework, it is clear that ocean science, actions and needs should be engrained in each of the thematic areas and can be further articulated and strengthened to clarify that linkage. To be comprehensive and provide a realistic outlook, the GST will also need to go beyond presenting the emissions gaps but also include the insights and guidance for how to close the

gap for all thematic areas.³⁵ While the majority of actions and commitments to reduce emissions needs to be driven and be implemented by national and local governments, civil society plays an important role as well. Civil society's engagement could serve as a complementary force to the scienti c bodies already engrained in the process through the Global Climate Action Agenda's Marrakesh Partnership or by supporting the clari cation of ocean actions for

6. Acronym List

AC	Adaptation Communications				
BTR	Biennial Transparency Report (for the Paris Agreement)				
CBD	UN Convention of Biological Diversity				
CMA	Conference of the Parties serving as the Meeting of the Parties to the Paris Agreement				
ETF	Enhanced Transparency Framework				
GST	Global Stocktake				
IPCC	Intergovernmental Panel for Climate Change				
JCG	Joint Contact Group				
LEDS	Low Emissions Development Strategy				
MOI	Means of Implementation and Support				
NAP	National Adaptation Plan				
NIR	National Inventory Report				
NbS	Nature-based Solution				
NBSAPs	National Biodiversity Strategies and Action Plans (for CBD)				
NDC	Nationally Determined Contribution				
PA	Paris Agreement				
PES	Payment for Ecosystem Services				
SBI	Subsidiary Body for Implementation (for the UNFCCC)				
SBSTA	Subsidiary Body for Scienti c and Technological Advice (for the UNFCCC)				
TD	Technical Dialogue				