

Oceans Action Event at COP 22 Marrakech

Part of the Global Climate Action Agenda

12 November 2016 Blue Zone (9:30 to 21:00)
The Oceans Action Day at COP 22



Showcase Segment

10:00 to 12:30 Room Arctic

Dialogue Segment

13:30 to 16:00 Room 10

Regional Dialogues

17:00 to 20:00

Morocco and France Pavilions

Reception

20:00 to 21:00

Morocco Pavilion

Main Organizers:

KINGDOM OF MOROCCO



Ministry delegate to the Minister of Energy, Mining,
Water and Environment, in charge of Environment

Royaume du Maroc



Ministère de l'Agriculture
et de la Pêche Maritime
Département de la Pêche
Maritime



PRINCE ALBERT II OF MONACO FOUNDATION

Prince Albert II of
Monaco Foundation



Food and Agriculture
Organization of the
United Nations



Global Ocean Forum/
International Coastal
and Ocean
Organization



Ocean and Climate
Platform

Co-Organizers:



Intergovernmental
Oceanographic
Commission/
UNESCO



Ocean Policy Research
Institute, Sasakawa Peace
Foundation, Japan



Oceano Azul Foundation and
Oceanário de Lisboa, Portugal



Oceanário de Lisboa



The World Bank

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12 November 2016 • Blue Zone (9:30–21:00)

The Oceans Action Day at COP22



Background

The global ocean is fundamental to sustaining life on Earth; it is a major carbon sink, it absorbs heat, and produces half the oxygen we breathe. The ocean is also a major avenue for achieving the UN Sustainable Development Goals through the development of the Blue Economy. Shipping, fisheries and aquaculture, energy, biotechnology, and mineral and biological extraction already generate USD 3-6 trillion. However, climate change is having profound, diverse, and regionally disproportionate impacts on ocean ecosystems and the services they provide. Considerable capacity development and financing are required to cohesively address the challenges of climate change, especially those on coastal and island populations.

COP 21 highlighted the importance of oceans in the climate system through the mobilization of over 150 parties and 40 ocean-related events. The high-level Oceans Day at COP 21 brought together over 400 participants to highlight the central importance of oceans as an essential component of human wellbeing, especially in the 183 coastal and island nations around the world. COP 22 will translate the mobilization into action, with an adaptation and mitigation agenda that includes innovative and ambitious measures, supported by matching financing mechanisms and capacity development packages.

Purpose

The Oceans Action Event at COP 22 will showcase how the world is tackling climate change impacts on oceans, seas, and coastal and island contexts. The Oceans Action Event at COP 22 will review initiatives launched in COP 21 as part of the Lima-Paris Action Agenda, announce new initiatives, with multi-national and multi-stakeholder contributions to the solution space, and kick start a new way of linking ocean conservation and development agendas.

The main organizers of the Oceans Action Event at COP 22 are the Government of Morocco; Prince Albert II of Monaco Foundation; Food and Agriculture Organization of the United Nations; Global Ocean Forum; and Ocean and Climate Platform. Co-organizers include the Intergovernmental Oceanographic Commission, UNESCO; the Ocean Policy Research Institute, Sasakawa Peace Foundation, Japan; and the Oceano Azul Foundation and Oceanario de Lisboa, Portugal.

The Oceans Action Day at COP 22 will culminate in an **Outcome Document**, which will highlight, in particular, action initiatives to advance the global oceans and climate agenda in the context of the UNFCCC. A number of ongoing and new initiatives are noted at the end of this program. The Outcome Document will address a number of these, especially.

The Africa World Bank/African Development Bank/FAO Initiative, requested by the African Ministerial Conference on Ocean Economies and Climate Change (Mauritius, September 2016), recognizes the challenges faced by coastal and marine systems in Africa and the imperative of sustainable development of their ocean economies. These partners have prepared an ambitious package of technical and financial assistance in support of ocean economies in Africa, and the resilience of oceans and coastal areas to climate change, including through NDC implementation. The initiative will mobilize USD 500-900m and implement programs linked to climate change adaptation and mitigation over the period 2017-2020.

The Blue Belt Initiative, developed by the Kingdom of Morocco, aims at building the resilience of coastal communities and promotes sustainable fisheries and aquaculture, in line with SDG14 requirements. The initiative includes three main lines of action on integrated coastal monitoring systems, sustainable fisheries and sustainable aquaculture, throughout the value chain. The initiative will be supported by an investment plan and capacity building program for a total amount of USD 60m over the period 2017-2020.

The Small Island Developing States (SIDS) Partnership Framework represents a follow up to the adoption of the Samoa Pathway in 2014. The purpose is to assist SIDS in achieving the implementation of pledges and commitments of the sustainable development agenda through partnerships. A first global multi-stakeholder dialogue was held in September 2016 and was the occasion to launch new partnerships for the sustainable development of SIDS.

The Strategic Action Roadmap on Oceans and Climate: 2016 to 2021 provides a roadmap for action regarding oceans and climate in the next five years, addressing six ocean and climate issue areas: the central role of oceans in regulating climate, mitigation, adaptation, displacement, financing, and capacity development. The Initiative, involving 27 partners--Parties, international agencies, NGOs, scientific institutions, private sector, and provincial/local authorities, will begin implementation of the Strategic Action Roadmap on Oceans and Climate: 2016-2021, first discussed at the Oceans Day at COP 21 and then prepared in detail by 37 international experts throughout 2016.

The multi-stakeholder dialogues during Oceans Day at COP 22 will discuss policy options to foster resilience of ocean and coastal ecosystems, restore biodiversity, implement mitigation measures and support adaptation of ocean-dependent livelihoods and economies for immediate uptake by policy makers, such as the following:

Mitigation

- Conserve and enhance the functions of coastal ecosystems as major carbon sinks and account for these ecosystems in the NDCs and the national reports to the UNFCCC
- Integrate Blue Carbon into the policy and financing processes of the UNFCCC
- Further accelerate progress in addressing greenhouse gas emissions from ships
- Develop ocean-based renewable energy and accelerate efforts to implement these through integrated marine planning and enhanced regulatory frameworks

Adaptation

- Develop integrated, place-based, cross-sectoral adaptation programmes through integrated coastal and ocean management institutions in close cooperation with disaster risk agencies and affected sectors and communities
- Apply ecosystem-based approaches to adaptation, especially regarding green infrastructure to address sea level rise, saltwater intrusion, storms, and flooding, consistent with national, regional and global policy guidelines
- Include climate change projections in the design of natural resources management plans (including the design of protected areas) and environmental impact assessments
- Promote and apply Blue Economy approaches with emphasis on low-carbon solutions and economic benefits to developing countries and SIDS, following SDG target 14 principles and objectives
- Develop and support legal, political and financial measures to address the issues associated with the displacement of coastal and island populations as a result of direct and indirect impacts of climate change

--Give due consideration to human migration as a result of climate change in the design of adequate adaptation and mitigation plans

Financing

--Earmark funds in global public finance mechanisms to support integrated and cross-sectoral adaptation and mitigation measures for dependent communities in most affected coastal regions and SIDS countries

--Allocate sufficient funding to allow integrated institutional, market and livelihood development options in coastal and SIDS countries

--Support the development of adaptive management programmes, early warning systems, and disaster risk reduction measures

Capacity development

--Provide appropriate technical and financial assistance to SIDS, developing countries and economies in transition to build capacity in management and policy areas related to oceans and climate, including policy centers, and for the implementation of mitigation and adaptation measures

--Allocate appropriate investments in oceanography and marine sciences to improve the knowledge base on the interactions between oceans and climate, the impact of climate change on oceans and the role of marine ecosystems as carbon sinks

--Strengthen the advancement of global marine observations and research and enhance technical capacity development of vulnerable countries through the establishment of regional oceanographic centers

--Support the continued development of the Global Ocean Acidification Observing Network (SDG 14.3) and address the impacts of ocean acidification

--Ensure that the Action Agenda is implemented on the basis of sound scientific evidence on oceans and seas

--Develop knowledge management mechanisms to share knowledge, lessons learned and best practices among all countries

Oceans Action Day at COP 22 Schedule-at-a-Glance

Showcase Oceans (Room Arctic)

	9:00	Arrival, registration, welcome coffee
	10:00–10:40	Opening Ceremony
	10:45–12:30	Plenary High-level Showcase Segment
	10:45–11:15	Oceans and Climate: Solutions to the Core Issues (Food Security, Mitigation, Adaptation, Building resilience) Part 1
	11:20–11:50	Oceans and Climate: Solutions to the Core Issues (Food Security, Mitigation, Adaptation, Building Resilience) Part II
	11:55–12:30	Oceans and Climate: Science Solutions Part III

Dialogue Oceans (Room 10)

	13:30–14:05	Dialogue segment 1: Adaptation Challenges and Opportunities
	14:10–14:45	Dialogue segment 2: Mitigation Actions and NDCs
	14:50–15:25	Dialogue segment 3: Access to Finance and Building Capacity for the Blue Economy Under Climate Change
	15:30–16:00	Summary and Closure

Regional Sessions (Morocco Pavilion and France Pavilion)

	17:00–18:45	Africa In Action: Solution and Dialogue for the Ocean Economy in Africa (MOROCCO PAVILION)
	18:45–20:00	Small Island Developing States (SIDS): Building Resilience to Climate Change and Blue Economies in the 44 SIDS Around the World (MOROCCO PAVILION)
	18:30–20:00	Towards a Healthy Mediterranean Facing Climate Change Challenges (FRANCE PAVILION)

Reception and Cultural event (Morocco Pavilion)

	20:00–21:00	Reception and Cultural Event
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09:00-10:00: Arrival, Registration, and Coffee (Room Arctic)

10:00-12:30: Showcase Oceans (Room Arctic)

This showcase event will feature high-level political leaders from around the world, heads of international agencies, NGOs, technical/policy experts, and private sector representatives to:

- Highlight examples of adoption and implementation of the Paris Agreement;
- Lend political support and provide suitable policy options in the implementation of actions on oceans, seas, coasts, and small islands developing States (SIDS) issues in the context of the Paris Agreement and the SDGs, especially SDG 14 on oceans and seas;
- Connect the oceans, coasts and climate initiatives generated at and following COP 21 with national actions plans, initiatives and commitments, such as the Nationally Determined Contributions (NDCs) and the SDGs (as called for in the Road Map for Global Climate Action)
- Showcase and promote financial support and capacity development to enable nations to fulfil their NDCs, with special emphasis on oceans, seas and coasts, and on the concerns from SIDS and African States;
- Develop specific next steps for advancing the oceans and climate issues in the UNFCCC process in the next phase, as part of the Road Map for Global Climate Action, and to implement UN SDG 14.

10:00-10:35 Opening Ceremony (Room Arctic)

Special Addresses:

- *HRH Princess Lalla Hasnaa, Kingdom of Morocco*
- *HSH Prince Albert II of Monaco*

Keynote Speakers :

- *H.E. Mr. Aziz Akhannouch, Minister of Agriculture and Fisheries, Morocco, representative of COP22*
- *H.E. Mme. Ségolène Royal, Minister of the Environment, Energy and the Sea, France, President of COP 21*
- *H.E. Mr. Karmenu Vella, Commissioner on Environment, Maritime Affairs and Fisheries, European Commission*
- *H.E. Ms. Maria-Helena Semedo, FAO Deputy Director General*

Introduction to the Ocean Action Event by the Climate Champion:

- *H.E. Dr. Hakima El Haité, Kingdom of Morocco and High-Level Champion on Climate*

10:40–12:30: Plenary High-level Showcase Segment (Room Arctic)

Segments:

10:40–11:15: Oceans and Climate: Solutions to the Core Issues (Food Security, Mitigation, Adaptation, Building resilience) Part 1.

Moderator: *Dr. Manuel Barange*, Director FAO Fisheries and Aquaculture Division

Speakers

- *H.E. Ms. Catherine Novelli, Undersecretary of State, US*

- *Ms. Laura Tuck*, World Bank, Vice President, Sustainable Development
- *Hon. Minister Vishnu Seetanah Lutchmeenaraidoo*, Minister of Foreign Affairs, Regional Integration and International Trade, Mauritius
- *H.E. Anote Tong*, Former President, Kiribati

11:15–11:50: Oceans and Climate: Solutions to the Core Issues (Food Security, Mitigation, Adaptation, Building Resilience) Part II

Moderator: *Dr. Biliانا Cicin-Sain*, President, Global Ocean Forum

Speakers

- *H.E. Mr. Ronald Jumeau*, Ambassador for Climate Change and SIDS Issues, Seychelles
- *H.E. Isabel de Saint Malo de Alvarado*, Vice-President and Minister of Foreign Affairs, Panama
- *H.E. Mr. Oumar Gueye*, Minister of Fisheries and Maritime Economy, Senegal
- *Dr. Abdelmalek Faraj*, Director of the Institut National de Recherche Halieutique, Morocco

11:50–12:25: Oceans and Climate: Science Solutions

Moderator: *Dr Vladimir Ryabinin*, Executive Secretary, IOC-UNESCO

Speakers

- *Prof Hans-Otto Pörtner*, Co-Chair IPCC Working Group II, Alfred Wegener Institute, University of Bremen, Germany
- *Ms. Dawn Martin*, Chief Operating Officer, Ceres
- *Dr. Achmad Poernomo*, Senior Advisor to the Minister on Public Policy and Special Envoy on Climate Change, Ministry of Marine Affairs and Fisheries, The Republic of Indonesia.
- *Ms. Françoise Gaill*, Centre National de la Recherche Scientifique, France, Science Committee, Ocean and Climate Platform

12:30-13:30: Lunch (on your own)

13:30-16:00: Dialogue Oceans (Room 10)

The Dialogue segment will take the form of three panels, featuring leaders from government, private sector, civil society, international agencies, and technical/policy experts, to:

- Expand on the initiatives launched in the high level showcase segment
- Update on initiatives on the adoption and implementation of the Paris Agreement
- Connect the oceans, coasts and climate initiatives generated at and following COP 21 with national actions plans
- Expand on plans to promote financial support and capacity development to enable nations to fulfil their NDCs
- Communicate plans for advancing the oceans and climate issues in the UNFCCC process, as part of the Road Map for Global Climate Action, and to implement UN SDG 14

The Dialogue will consist of brief opening statements from panellists, and a Q&A exchange

13:30–14:05: Dialogue Segment 1: Adaptation Challenges and Opportunities

Description: Much can be done at the household, community and sector levels to support the resilience of ocean-dependent sectors through practical options, innovative insurance schemes, participatory monitoring systems and disaster risk management. The sectors can also benefit from enabling environments that allow for adaptability and sustainability without negatively affecting other sectors. This session will provide practical examples of good practice in adapting sectors and societies to climate-driven changes.

Moderator: *Dr. Lisa Emelia Svensson*, Director/Coordinator, Marine and Coastal Ecosystems Branch, Ecosystems Division, United Nations Environment Programme

Panelists:

- *H.E. Ambassador Ngedikes Olai Uludong*, European Union/Climate Change Ambassador, Republic of Palau
- *Ms. Kathy Baughman McLeod*, Director, Climate Risk and Resilience, The Nature Conservancy
- *Ms. Dina Ionesco*, Head of Migration, Environment and Climate Change

(MECC) Division, International Organization for Migration

- *Ms. Sylvie Goyet*, Director, Climate Change and Environmental Sustainability, South Pacific Commission
- *Mr. Marco Ruiz*, Climate Change Adaptation Advisor, Ministry of Environment, Peru

14:10-14:45: Dialogue Segment 2: Mitigation Actions and NDCs (Nationally Determined Contributions)

Description: The Ocean is a net sink of Carbon, through processes that range from the solubility pump to Blue Carbon storage. This session will investigate a) opportunities to support the natural system's removal of GHG emissions through Blue Carbon and bioengineering solutions; b) challenges to reduce the energy and fuel consumption of ocean production systems; and c) the sector's role in providing alternative energy sources.

Moderator: *Mrs. Sandrine Dixon-Declève*, Chief Partnership Officer, Sustainable Energy for All

Panelists:

- *Ambassador Waldemar Coutts*, Director for Environmental and Ocean Affairs, Ministry of Foreign Affairs of Chile
- *Mr. Edmund Hughes*, Head, Air Pollution and Energy Efficiency, Marine Environment Division, International Maritime Organization
- *Mr. Eric Banel*, General Secretary, French Shipowners' Association
- *Ms. Dorothee Herr*, Manager, Oceans and Climate, IUCN
- *Mr. Raffael Jovine*, Founder & Chief Scientist of Algae
- *H.E. Mr. Manuel Pulgar Vidal*, former Environment Minister of Peru, global lead for Climate and Energy, WWF

14:50–15:25: Dialogue Segment 3: Access to Finance and Building Capacity for the Blue Economy Under Climate Change

Description: Seas and oceans have great potential for innovation and growth in a number of sectors, to contribute to eradicating poverty, as well as sustained economic growth, enhancing social inclusion, improving human welfare and creating new opportunities for employment and decent work for all, while maintaining the healthy functioning of the ocean's ecosystems.

Moderator: *Mr. Tiago Pitta e Cunha*, CEO, Oceano Azul Foundation, Portugal

Panelists:

- *Dr. Angus Friday*, Ambassador of Grenada to the United States, Co-Chair, Blue Growth Network
- *Dr. James Kinyangi*, Chief, Climate Change and Policy Specialist, African Development Bank
- *Mr. Hiroshi Terashima*, President, Ocean Policy Research Institute, Sasakawa Peace Foundation, Japan
- *Ms. Hrund Hafsteinsdottir*, Deputy Chief Negotiator for Climate, Ministry for Foreign Affairs, Iceland

15:30-16:00: Summary and Closure

Moderators:

- *Dr. Biliانا Cicin-Sain*, Global Ocean Forum
- *Dr. Manuel Barange*, FAO

Speakers :

- *H.E. Dr. Dessima Williams*, Special Adviser on Implementation of the Sustainable Development Goals to Ambassador Peter Thomson, President of the UN General Assembly: *From Marrakech 2016 to New York 2017: What We Must Accomplish to Implement the Paris Agreement and to Fulfill the SDG 14 on Oceans and Seas*
- *Ms. Naoko Ishii*, Chairperson and CEO, Global Environment Facility: *Opportunities for Advancing the Oceans and Climate Issues in the Next Phase*
- Concluding Remarks from the Main Organizers of the Oceans Action Event

17:00–20:00: Regional Dialogues (Morocco and France Pavilion)

1. 17:00–18:45: MOROCCO PAVILION: Africa in Action: Solutions and Dialogue for the Ocean Economy in Africa

Opening Speech

- *H.E. Mr. Aziz Akhannouch*, Minister of Agriculture and Fisheries, Morocco

Keynote Speaker

- *H.E. Mr. Karmenu Vella*, Commissioner on Environment, Maritime Affairs and Fisheries, European Commission

Introduction of the Facilitator:

- *Mme. Beatrice Marshall*

Panel: Solutions for Africa :

- *Dr. Manuel Barange* (Director, FAO): Blue Growth
- *Mme. Julia Bucknall*, Director, World Bank
- *Dr. James Kinyangi*, Chief, Climate Change and Policy Specialist, African Development Bank
- *Dr. Abdelmalek Faraj* (Director INRH): Blue Belt Initiative

High Level Dialogue: Ministers' dialogue

Ministers and high-level personalities

- *H.E. Mr. Kobenan Kouassi Adjoumani*, Minister of Animal and Fisheries Resources and Serving Chairman of the COMHAFAT, Côte d'Ivoire
- *H.E. Mr. Oumar Gueye*, Minister of Fisheries and Maritime Economy, Senegal
- *H.E. Pa Ousman Jarju*, Minister of Environment, Climate Change and Natural Resources, The Gambia
- *H.E. José da Silva Gonçalves*, Minister of Economy and Employment (Minister in charge of Fisheries and Maritime Economy), Cabo Verde
- *H.E. Moses Zinnah*, Minister of Agriculture, Liberia
- *H.E. André Loua*, Minister of Fisheries, Aquaculture and Maritime Economy, Guinea Conakry
- *H.E. Faustin Makal A-Tshijik.*, Minister of Agriculture, Fisheries and Livestock, Democratic Republic of Congo
- *H.E. Chantal Abengdang Mbale*, Minister of Forestry Economy, Fisheries and Environment, Gabon
- *H.E. Premdoot Koonjoo*, Minister of Ocean Economy, Marine Resources, Fisheries, Shipping and Outer Islands, Mauritius
- *H.E. Musa Tibin Musa*, Minister of Animal Resources, Sudan
- *Dr. Richard Leresian Lesiyampe*, Chief Secretary of the Minister of Agriculture, Livestock and Fisheries, Kenya
- *Mr. Jonathan Taylor*, Vice-President of the European Investment Bank

2. 18:45 – 20:00: MOROCCO PAVILION: Small Island Developing States (SIDS): Building Resilience to Climate Change and Blue Economies in the 44 SIDS Around the World

Session Chair:

- *H.E. Dr. Dessima Williams*, Special Advisor on Sustainable Development Goals, Office of the President of the UN General Assembly

Panelists:

- *H.E. Dr. Angus Friday*, Ambassador to the United States and *Honourable Simon Stiell*, Minister of Environment, Government of Grenada
- *Honorable Vishnu Seetannah Lutchmeenaraidoo*, Minister of Foreign Affairs, Regional Integration and International Trade, Mauritius
- *H.E. Mr. Aliioaiga Feturi Elisaia*, Permanent Representative of the Independent State of Samoa to the United Nations, SIDS Representative to the Green Climate Fund Board
- *Dr. Scott Hook*, Economic Infrastructure Adviser and Team Leader Climate Change and Disaster Risk Management, Pacific Islands Forum Secretariat

Resource Experts:

- *Ms. Safiya Sawney*, Blue Initiative, Grenada
- *Dr. John Virdin*, Duke University, The Financial Tracker Mechanism
- *Dr. Carol Turley*, Plymouth Marine Laboratory, Ocean Warming and Ocean Acidification
- *Dr. Natalya Gallo*, Scripps Institution of Oceanography, Realizing the INDCs in SIDS Nations

3. 18:30 – 20:00: FRANCE PAVILION: Towards a Healthy Mediterranean Facing Climate Change Challenges

- Welcome address by *Catherine Chabaud*, Sea and Littoral Delegate from the Environment, Energy and Sea French Ministry
- *Presentation of Long-term Regional Policies Carried out by Large Regional Institutions*

Gaetano Leone, Coordinator of the Mediterranean Action Plan, United Nations Environment Programme

Jorge Borrego, General Secretary of the Union for the Mediterranean

Knowledge topic

- *Involvement of the Mediterranean Scientific Community in Climate Perspective, Observation at Sea and Data*
- *Joël Guiot* (director CNRS, Labex OT-Med), MedECC network (Mediterranean Experts on Climate and Environment Change)
- *Patricia Ricard*, Oceanographic Institute Paul Ricard and Ocean & Climate Platform

Healthy Marine Ecosystems Topic

- Best practices on wastewater collection and treatment (Tangier example), transfer of know-how
- *Rachid Omari*, Investment Director Regal Maroc
- *Marie-Christine Huau*, Delegate for Development–Commercial and Development Department, Water France Veolia
- *Effective Management of Marine Protected Areas, Dedicated Trust Fund*
- *Bernard Fautrier*, Minister Plenipotentiary, Chargé de mission for the State Minister, Executive Chief of the Foundation Albert II of Monaco.

Adaptation/Mitigation Topic

- Nature-based solutions
Sami Ben-Haj, President of the Mediterranean Action Nature Association, Tunisia
- Small Mediterranean Islands Project integrating nature protection and energy self-sufficiency
Fabrice Bernard, Europe and International Delegate of the Conservatoire du Littoral (French Coastal Protection Agency).
- Adaptation to climate change
Hassan Taleb, Program Director, Foundation Mohammed VI

High-level Conclusions

Madame Hakima El Haite, Kingdom of Morocco and High-Level Champion on Climate Change,

Madame Ségolène Royal, Minister of the Environment, Energy and the Sea, France, President of COP 21

HSH Prince Albert II of Monaco

20:00-21:00: Reception and Cultural Event (Morocco Pavilion)

Initiatives on Oceans and Climate

The Oceans Action Day will encourage the presentation and discussion of **Action Initiatives on Oceans and Climate** to move forward on the oceans and climate issues in the next stage. Some of the initiatives have already been mobilized and are expected to discuss progress made and future plans, others are being mobilized at COP22 and will present their vision and plans for implementation.

The Oceans Action Day will encourage the fostering of working linkages among initiatives to achieve maximum synergy and the organization of joint reporting, at future COPs on progress achieved, challenges faced, and further actions envisioned.

Examples of initiatives are shown below; they are organized according to level: **Global and Regional Levels**

Oceans and Climate Initiatives at Various Levels

Global:

Global Strategic Action Initiative on Oceans and Climate (Global, Cross-Sectoral Focus)

The Global Strategic Action Initiative on Oceans and Climate (involving 27 partners-- Parties, international agencies, NGOs, scientific institutions, private sector, and provincial/local authorities) will be launched at COP 22 to begin implementation of the **Strategic Action Roadmap on Oceans and Climate: 2016-2021** <https://globaloceanforumdotcom.files.wordpress.com/2013/03/strategic-action-roadmap-on-oceans-and-climate-november-2016.pdf>, first discussed at the Oceans Day at COP 21 and then prepared in detail by 37 international experts throughout 2016. The Roadmap presents analyses and recommendations in six major areas: Central

of role of oceans in regulating climate, mitigation, adaptation, displacement, financing, and capacity development, for implementation in the next 5 years. The Initiative will, inter alia: “vision” the transformation and steps necessary to achieve the desired changes in the six areas noted above; further operationalize the major components, including development of specific targets, indicators, and timetables; mobilize resources; implement specific actions in each of the major areas jointly with national and local level leaders and other partners; develop a knowledge management and reporting mechanism to report to the COPs yearly. Organizing partners include the Global Ocean Forum, IOC/UNESCO, UNEP, Ocean Policy Research Institute, Sasakawa Peace Foundation, Japan; Oceano Azul Foundation, Portugal.

Blue Carbon Partnership (Global, Mitigation Focus)

Partners in the **Blue Carbon Partnership**, which was initiated in 2015, seek to protect and restore coastal ecosystems (mangroves, tidal marshes and seagrasses) in recognition of their value for climate change mitigation and adaptation and other ecosystem services. The Partnership is a voluntary forum to facilitate learning and knowledge sharing, thereby strengthening the collective efforts of Partners in the areas of science research, coastal management and conservation, awareness raising, climate mitigation, climate adaptation, and related policy. Collectively and individually, Partners seek to contribute by 2020 to the protection and restoration of substantial and increasing areas of blue carbon ecosystems (mangroves, seagrasses and tidal marshes) in identified priority regional ‘hotspots’ for the benefit of communities globally.) Partners thus far include Australia, IOC-UNESCO, Conservation International, and IUCN, with numerous other governments and organizations working in cooperation with the partners.

The Special Report on Ocean, Cryosphere, and Climate (Global, Ocean and Climate Science)

The **IPCC Special Report on Ocean, Cryosphere, and Climate** will provide the scientific knowledge in support of adaptation and mitigation of oceans-related activities as well as take stock of available knowledge on climate change impacts on oceans and cryosphere and provide an overview of current adaptation and

mitigation measures. It was initiated in 2016, after being requested at COP 21, and will work at a global level to improve and disseminate knowledge associated with ecosystems and human systems which rely on oceans and cryosphere. Its creation is being facilitated by the IPCC, and is currently in the scoping stage.

The Global Ocean Acidification Observing Network (GOA-ON) (Global, Acidification Focus)

GOA-ON, founded in 2012, has three high-level goals for each geographic environment and they will be realized using a nested approach differentiating between: critical minimum measurements (Level 1); enhanced measurements to further the understanding of primary mechanisms (Level 2); and opportunistic or experimental measurements (Level 3). Goal 1 is to improve our understanding of global Ocean Acidification (OA) conditions through determining status and spatial/temporal patterns in carbon chemistry, assessing the generality of response to ocean acidification, documenting and evaluating variation in carbon chemistry to infer mechanisms (including biological) driving ocean acidification, quantifying rates of change, trends, and identify areas of heightened vulnerability or resilience. Goal 2 is to improve our understanding of ecosystem response to OA through tracking biological responses in concert with physical/chemical changes and quantifying rates of change and identify locations and species of heightened vulnerability or resilience, acquiring and exchanging data and knowledge necessary to optimize modeling for OA and its impacts and providing spatially and temporally resolved biogeochemical data for use in parameterizing and validating models. Partners in GOA-ON so far include IOC-UNESCO, IAEA, OA-ICC, GEO, GOOS, and IOCCP.

The Global Ocean Oxygen Network (GO2NE) (Global, Ocean Deoxygenation)

GO2NE, formed in 2016, is committed to providing a global and multidisciplinary view of deoxygenation, with a focus on understanding the full scale of the problem and offering scientific advice to policy makers to counter this concerning trend. The Network’s work focuses on a) scientific emerging issues related to deoxygenation in the open ocean and coastal areas, b) outreach and capacity building, c) how to

facilitate communication with other established networks and working groups, d) how to improve observations systems. GO2NE is preparing a summary on deoxygenation for policy makers. Partners include IGOs, international programmes, scientific institutions.

Small Sustainable Islands Initiative (Global, SIDS Focus)

The **Small Sustainable Islands Initiative** is a global network to promote islands as sustainable development pioneers by encouraging them to take concrete measures and providing local stakeholders with training, technical, and material assistance. Partners involved so far include the Global Island Partnership (GLISPA), the French Global Environment Facility (FFEM), MedPan, and MAB-UNESCO.

The Climate Risk Early Warning Systems (Global, Risk Reduction)

The **CREWS** Initiative was launched in 2015 by the Global Facility for Disaster Risk Reduction from the World Bank, the WMO, and the UN Office for Disaster Reduction. Its purpose is the installation of Weather Stations and radar to strengthen the systems of alerts and prevent the risk of extreme weather in developing countries and SIDS, with the intention of enhancing capacity of SIDS to respond to extreme weather by 2020. It will directly benefit local populations by transferring and assisting in the use of necessary technology.

SIDS Lighthouses Initiative (Global, SIDS, Renewable Energy)

The **SIDS Lighthouses Initiative** was created in 2014 to give support to SIDS in their energy transitions and the development of renewable energies. So far, a great number of partners have been involved in this ambitious technology transfer initiative, including IRENA, the governments of Antigua and Barbuda, Bahamas, Barbados, Cape Verde, Cook Islands, Federal States of Micronesia, Fiji, Grenada, Guyana, Kiribati, Maldives, Mauritius, Nauru, Niue, Republic of Marshall Islands, Palau, Sao Tome and Principe, Samoa, Seychelles, Solomon Islands, St. Vincent and Grenadine, Tonga, Trinidad and Tobago, Tuvalu, Vanuatu, ENEL, European Union, France, Germany, Indian Ocean Commission, IRENA, Japan, New Zealand, Norway, SE4ALL, United Arab Emirates, United

States of America, UNDP, and the World Bank Group.

Regional:

The Africa-WB-AfDB-FAO Initiative (Regional, Africa, Blue Economy)

The **Africa-WB-AfDB-FAO initiative** was requested by the African Ministerial Conference on Ocean Economies and Climate Change (Mauritius, September 2016) who recognized the challenges faced by coastal and marine systems in Africa and the necessity for the sustainable development of their ocean economies. The initiative focuses heavily on climate proof Blue Economy pathways, and works to draw together currently fragmented climate change knowledge and activities in ocean-related sectors and communities, and upscale successful experiences to benefit other coastal communities. The World Bank Group, the African Development Bank and the Food and Agriculture Organization have prepared an ambitious package of technical and financial assistance in support of ocean economies in Africa, and the resilience of oceans and coastal areas to climate change, including through NDC implementation. The initiative will mobilize USD 500-900m and implement programs linked to climate change adaptation and mitigation over the period 2017-2020.

Blue Belt Initiative (Initiated by Morocco, Focus on Building Resilience)

The **Blue Belt Initiative** was developed by the Kingdom of Morocco in 2016 and aims at building the resilience of coastal communities and promotes sustainable fisheries and aquaculture, in line with SDG14 requirements. It now involves partners such as FAO/AfDB, COMHAFAT/RAFISMER, Plateform Ocean Climat, JICA (Potential Interest), ATSEA Consortium, Feed Algea Ltd, SETEXAM, and HalioPole Agadir. The initiative includes three main lines of action on integrated coastal monitoring systems; sustainable fisheries and sustainable aquaculture, throughout the value chain.

Solutions for adaptation, which can contribute to mitigating climate change, are proposed as part of a priority roadmap that would be supported by a collaborative platform for their implementation.

The initiative will be supported by an investment plan and capacity building program for a total amount of USD 60m over the period 2017-2020. It has already begun work on feasibility studies, a

Coastal Observation and Monitoring System, and preparations for the first regional actions.

www.bluebeltinitiative.org/
www.laceinturebleue.org/
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The International Alliance to Combat Ocean Acidification (Regional, Acidification Focus)

The Pacific Coast Collaborative, involving the U.S. states of California, Oregon and Washington and the Canadian Province of British Columbia. Announced in September 2016 the **International Alliance to Combat Ocean Acidification**, which will advance scientific understanding of ocean acidification, reduce the causes of acidification, protect the environment and coastal communities from impacts of a changing ocean, expand public awareness and understanding of acidification, and build sustained support for tackling this global problem. The Alliance will assist members in developing and implementing individual jurisdiction action plans to respond to local threats of ocean acidification, and will actively seek inclusion of ocean acidification mitigation and adaptation commitments in future UNFCCC

negotiations. The state/provincial governments involved in the Pacific Coast Collaborative have been working together for a decade to make the West Coast of North America one of the world's leaders in transitioning to clean energy and dramatically reducing emissions of greenhouse gases while enjoying extraordinary economic success.

The West Africa Coastal Areas Initiative (Regional, West Africa, Focus on Coastal Management)

The **WACA** Initiative, led by the Work Bank Group, WAEMU/IUCN, Nordic Development Fund, and the Governments of Benin, Cote d'Ivoire, Ghana, Mauritania, and Togo, was launched in 2015 to support to the littoral management and growing problems of erosion and flooding in coastal areas of West Africa. The date, the initiative has held workshops and conferences as well as a learning event called *Vulnerability and Resilience in the Coastal Zone of West Africa: Tools for Assessing Impacts and Adapting to Risks*, and released a call to action at COP 21.

**For more information on the Oceans Action Day
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