



The Effects of Climate Change on the World's Oceans

4th International Symposium
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MEASURING PROGRESS ON OCEAN & CLIMATE INITIATIVES

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The Ocean and Climate Initiatives Alliance (OCIA)



An international network of 20 initiatives to promote ocean-based solutions for climate mitigation and adaptation.

Core objectives:

1. Identifying synergies between international initiatives and acting as a catalyst for progress.
2. Stimulating scientific awareness and reducing knowledge gaps on our understanding of ocean, climate and biodiversity interactions.
3. Ensuring that civil society's voice is heard in the international fora (UNFCCC, Global Climate Agenda, SDG14...).



1st OCIA Report launched at UNFCCC COP23 (Bonn, Germany)

- An overview of 13 initiatives across 7 themes of action
- Key mitigation and adaptation impacts and scientific contributions
- Conclusions for OCIA:
 - Shaping a universal ocean language
 - Complementarity between science and policy
 - Raising awareness on specific ocean-related issues

MEASURING PROGRESS ON OCEAN AND CLIMATE INITIATIVES: AN ACTION-ORIENTED REPORT



"A united ocean action for a global climate agenda"



COP23 | FIJI

UN CLIMATE CHANGE CONFERENCE

BONN 2017-18

Deep Ocean Science for Adaptation and Mitigation

- The deep ocean plays a significant role in minimizing the impact of human-released CO₂ on the global climate.
- In addition to carbon sequestration, it provides key ecosystem functions and services.
- At the same time, climate change impacts on the deep sea have already been observed and are projected to intensify in the coming years.



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There is an urgent need to understand better the effects of climate change on deep-sea ecological functions and services.

The Deep Ocean Climate Mitigation and Adaptation Initiative



Main objectives:

- Raise awareness about the importance of the deep ocean for climate mitigation and adaptation.
- Strengthen coordinated observation of the deep oceans.
- Support knowledge transfer across disciplines targeting industry, policy makers and the civil society.
- Fully integrate deep-ocean science in policy making, management of international waters and international negotiations (SDG14, BBNJ and others).



TALANOA DIALOGUE

FOR CLIMATE AMBITION



- A global conversation about efforts to combat climate change in which Parties and non-Party stakeholders are invited to get actively engaged and interact around three questions:
 - where are we?
 - where do we want to go?
 - how do we get there?



- DCIA insisted on the need to develop ocean-related NDCs and to support scientific research to further understand the ocean and climate nexus.



TALANOA DIALOGUE
FOR CLIMATE AMBITION

- Overall vision:
 - Recognition of the ocean as a major climate mitigator.
 - Maintain the ability for the deep ocean to provide climate regulation and services.
- Instruments needed:
 - Coordinated observing of deep-ocean climate variables.
 - Normalize incorporation of climate impacts and projections.
 - Further build capacity among deep-ocean scientists.
- Role of the UNFCCC:
 - Create a pathway to influence across the entire ocean sector.
 - Build a 'Paris Agreement' for the international ocean.
 - Promote global integration of high seas and deep-ocean ocean observing.



High-Level Scientific Conference 10-11 September 2018

“From COP21 towards the United Nations Decade of Ocean Science for Sustainable Development (2021-2030)”

Session 1 – What does science tell us today about the ocean?

Session 2 – An intergovernmental organization perspective on ocean, climate and biodiversity knowledge

Session 3 – From science to action: how can the UN Decade of Ocean Science make a difference?

Session 4 – From science to action: which policies?



In view of the launching of the United Nations Decade of Ocean Science for Sustainable Development (2021-2030), the **Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO)** and the **Ocean and Climate Platform (OCP)** are organizing a **High-Level Scientific Conference** on **10 and 11 September 2018**, at UNESCO Headquarters in Paris.

The event aims at synthesizing recent scientific progress on ocean and climate interplays ; evaluating the latest ocean, climate, and biodiversity trends ; and reflecting on ways to move **“from science to action”**.

MONDAY 10 SEPTEMBER

Session 1
What does science tell us today about the ocean?
Room X, 2:30 pm - 4:30 pm

Session 2
An intergovernmental organization perspective on ocean, climate and biodiversity knowledge
Room X, 5:00 pm - 6:30 pm

Special session (Room X, 9:00 am - 12:30 pm)
Sciences cooperation, policies interfaces and SDGs in South Atlantic Ocean (UBO, IRD)

TUESDAY 11 SEPTEMBER

Session 3
From science to action: how can the UN Decade of Ocean Science make a difference?
Room X, 9:00 am - 10:30 am

Session 4
From science to action: which policies?
Room X, 11:00 am - 1:00 pm

Special Session (Room X, 2:00 pm - 4:00 pm)
Academic research: which contributions to the United Nations Decade of Ocean Science? (CNRS, AllEnvi)



Thank you for your attention!

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Ocean & Climate
Initiatives Alliance



DEEP OCEAN
OBSERVING
STRATEGY



DEEP-OCEAN STEWARDSHIP INITIATIVE

Climate change