



coop+
Promoting
collaboration among RIs



A conference organized by the COOP+ project
Promoting the Cooperation of Research Infrastructures to
address global challenges in the environmental field

Research Infrastructures and the Paris Agreement on Climate

20-21 November 2018

**German Marine Research Consortium
Boulevard St. Michel 80**

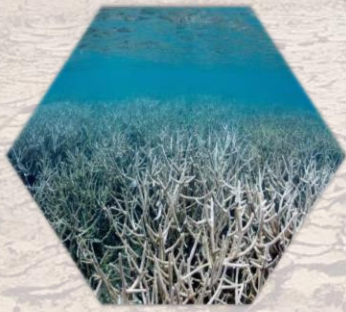
Brussels, Belgium

The role of **international cooperation** and the
transformation of **research infrastructures**
for climate change **adaptation** and **mitigation**

Research infrastructures collect high precision data on **greenhouse budgets** and the **resilience of ecosystems** to climate change: how can they be harnessed to support the goals of the Paris Agreement ?

The herculean challenge ...

To keep climate warming well below 2°C and to reach global peaking of greenhouse gas emissions as soon as possible ... and undertake rapid reductions thereafter in accordance with best available science...to achieve a balance between anthropogenic emissions by sources and removals by sinks of greenhouse gases in the second half of this century.



Coral bleach in response to warming and increased acidity



Deforestation GHG emissions & biodiversity losses



Ocean absorption of heat and carbon



Atmospheric monitoring to quantify GHG fluxes

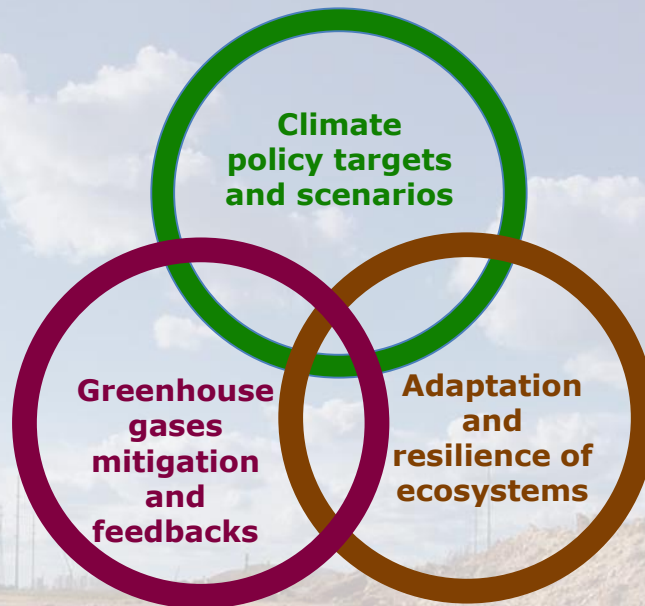
... Requires

Transformational changes and enhanced cooperation between Research Infrastructures and across disciplines

For the conference information:

www.coop-plus.eu/research-infrastructures-and-the-paris-agreement

Building a cooperation framework among international Research Infrastructures, policy makers, and other actors



To deliver :

- ✓ Accurate information on anthropogenic greenhouse gas emissions and natural fluxes using observations and models
- ✓ Robust observations of changes in carbon storage and greenhouse gas emissions over the oceans, and natural and managed lands
- ✓ Science-based evidence on the resilience of marine and terrestrial ecosystems to climate change,
- ✓ Account for impact of climate mitigation and adaptation on a range of ecosystem services, such as biodiversity and water conservation.



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Consortium



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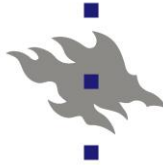
**Istituto Nazionale di
Geofisica e Vulcanologia**



**FINNISH METEOROLOGICAL
INSTITUTE**



Marine Institute
Foras na Mara



UNIVERSITY OF HELSINKI



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