



**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**

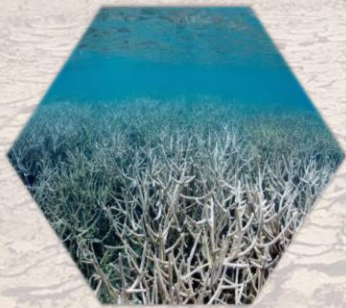
**Brussels, Belgium**

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

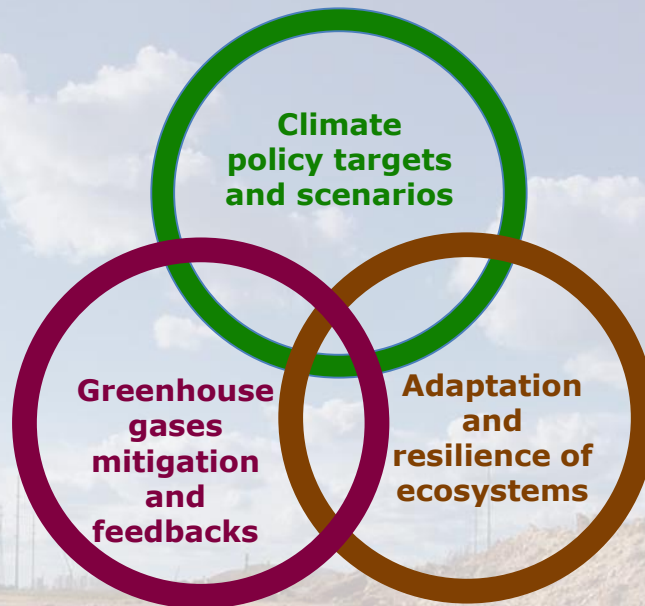
Transformational changes and enhanced cooperation between Research Infrastructures and across disciplines

For the conference information:

[www.coop-plus.eu/research-infrastructures-and-the-paris-agreement](http://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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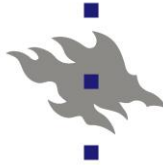
**Istituto Nazionale di  
Geofisica e Vulcanologia**



**FINNISH METEOROLOGICAL  
INSTITUTE**



*Marine Institute*  
*Foras na Mara*



UNIVERSITY OF HELSINKI



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