



# **ECRA General Assembly 2017**

## **Climate Change and Vulnerable Regions**

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*ECRA - chair*

*Director Alfred Wegener Institute (Germany)*

# ECRA General Assembly 2017

Square Brussels Meeting Centre  
Coudenberg 3  
1000 Brussels



*European Climate Research Alliance  
General Assembly, 7-8 March 2017*

**Climate Change and Vulnerable Regions**



# ECRA General Assembly 2017

The European Climate Research Alliance is an association of leading European research institutions in climate research. ECRA aims to bring together, expand and optimize European expertise in climate research through a bottom-up process.

The ECRA General Assembly 2017 will be a forum to discuss climate research priorities for most vulnerable regions.





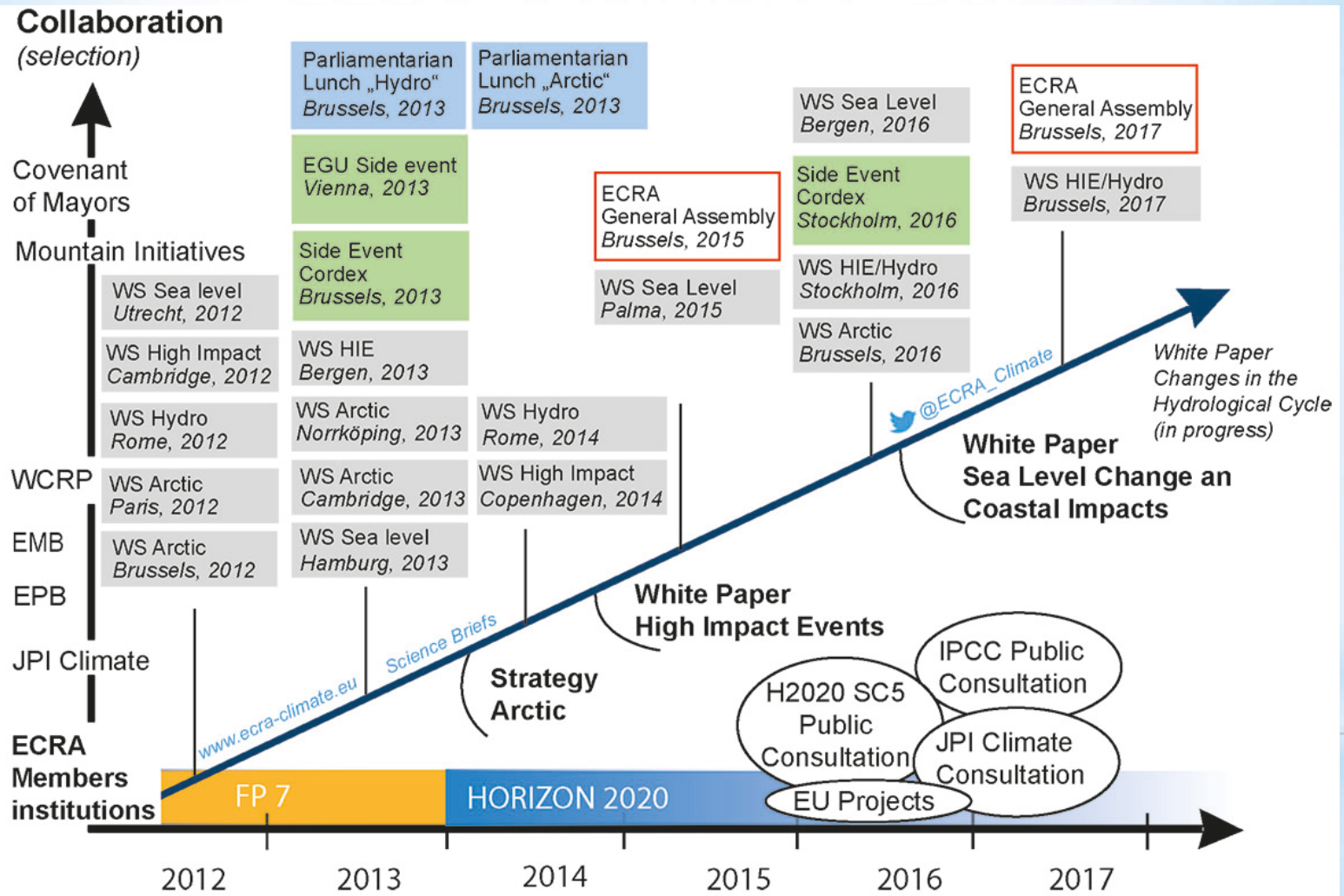


*The European Climate Research Alliance (ECRA) is an association of leading European research institutions in climate research. ECRA aims to bring together, to expand and to optimise European expertise in climate research and advising through a bottom-up process.*

Climate change has large impacts on natural systems and habitats posing challenges for our societies. The Paris Agreement at the COP21 set an important framework for reducing human influence on climate through reduction of CO<sub>2</sub> emissions. At the same time, a robust knowledge about climate change and related impacts for vulnerable regions is of utmost importance for building resilience and implementing policy frameworks in effective ways.

We invite climate scientists, policy makers and representatives from relevant climate initiatives to the ECRA General Assembly 2017. This meeting will be a forum to discuss climate research priorities, most vulnerable regions and opportunities for adaptation strategies, improving collaboration in climate research, advancing integrated science and impact assessments.

# ECRA Activities: 2011-2017



# Past ECRA Workshops

## 1st Circular



## ECRA/BCCR Workshop

### Sea Level Change and Coastal Impacts *Towards adaptation strategies*

21-22 June 2016, Bergen  
Bjerknes Centre for Climate Research (BCCR)



#### Goals of the Workshop:

#### Agenda

ECRA Workshops initiate:

- Collaboration with other initiatives, stakeholders and communities
- Collaboration of natural and social scientists

- **Link communities** of ECRA, Future Earth and JPI Climate (improve impact research by learning from social scientists)
- **Advance ECRA Strategy** for Collaborative Programme Sea level change and coastal impacts (in particular exchange about research gaps in sea level change research)

ECRA workshops are open  
(no workshop fees), but  
registration is required  
(max. 40 participants)

Expected participants:  
- ECRA/Bjerknes Centre  
researchers  
- Social scientists  
- JPI Climate  
- Future Earth  
- Stakeholders

**Registration and further practical information:**

[www.ecra-climate.eu](http://www.ecra-climate.eu)



Joint ECRA – ADSIMNOR Workshop on  
Arctic Climate Change and Processes

Workshop

SCENARIOS OF REGIONAL  
AND THEIR UNCERTAINTIES

13 – 15 November 2013  
Norrköping, Sweden

Workshop of the  
'Biological Cycle'

presentations:

... Busalacchi:  
... for the World Climate  
... Grand Challenges for  
... Ahead"

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... trends"



NOVEMBER 2013

UNIVERSITY OF HAMBURG

co-hydrology

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10/03/2017





# Past ECRA General Assembly 2015

## European Climate Research Alliance General Assembly 2015

*„New knowledge for risk reduction“*

25-26 March 2015, Square Brussels Meeting Centre,  
Coudenberg 3, 1000 Brussels



# Past ECRA General Assembly 2015

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## „New Knowledge for Risk Reduction“

*Key messages:*

- The **observational network** for climate data is not sufficiently secure
- Models have to **simulate processes across all scales**
- The **interactions within the Earth System** have to be addressed
- **Attribution of natural versus anthropogenic changes** is still incomplete (incl. understanding of natural processes and time-scales of change)
- Climate change research requires **“translation” for stakeholders**
- More **education about risks** associated with climate change



# Past ECRA General Assembly 2015

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## „New Knowledge for Risk Reduction“

*Future collaboration in ECRA:*

- **Link to other international and European climate research activities** combining capacities and make climate science relevant for society
- **Encouraging young scientists to join** and experience in the ECRA network. This engagement will be more strengthened within the future, in particular within the ECRA Collaborative Programmes activities

## „Climate Change and Vulnerable Regions“

*Vulnerability should be used to link pressing science questions with societal concerns (IPCC, 2009). Urgent science issues :*

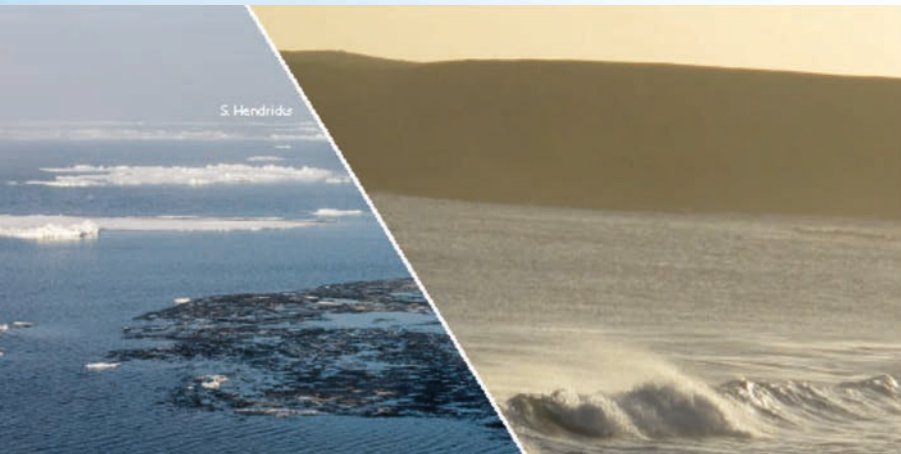
- **Sea level rise impacts** have been identified as a critical variable for the establishment and maintenance of coastal communities.
- The different components of the **hydrological cycle react in complex**, dynamic often non-linear ways to climate change.
- Climate change **cannot be considered as a mean state modification**: The impacts of climate change are closely tied to regional and local conditions
- The **Arctic is warming** two to three times faster than the global average

# ECRA General Assembly 2017

## „Climate Change and Vulnerable Regions“

*The ECRA Collaborative Programmes will present science topics for:*

- Sea level change
- Hydrological cycle
- High impact events
- Arctic changes





# ECRA General Assembly 2017

## „Climate Change and Vulnerable Regions“

*Expected key messages from ECRA General Assembly 2017:*

- ECRA Collaborative Programmes: Identification of research needs
- Voices and perspectives from science and policy
- Future Collaboration in ECRA?



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Thank you  
for your attention!

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## **Keynote presentation:**

Anneli Pauli (European Commission, Advisor  
“hors classe” at DG Climate Action)