

## International Cooperation

### Statistics and Examples

 **Helmholtz-Zentrum  
Geesthacht**  
Centre for Materials and Coastal Research

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#### Content

- Publications with international coauthors
- EU projects
- Research Infrastructure and networks with international partners

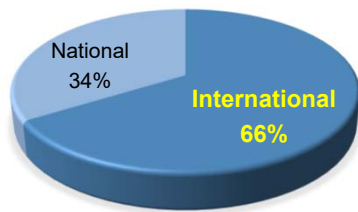
## International Cooperation

### International publications; 2013 - 2016



*„At least one coauthor affiliated to a non-German entity“*

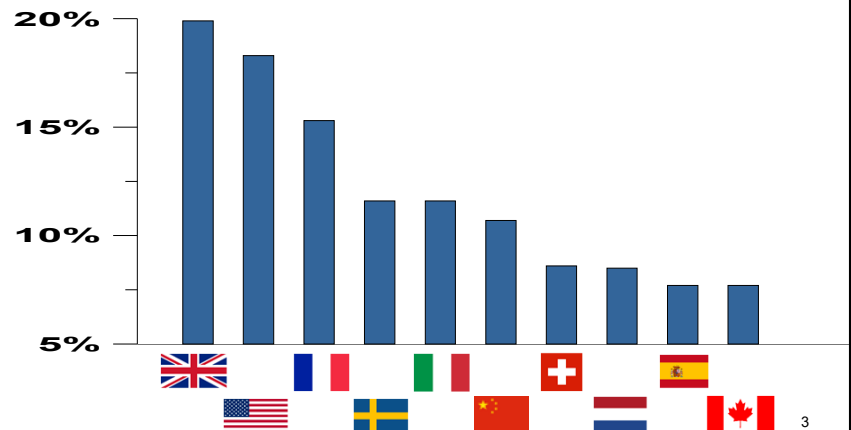
66% International publications



Coauthors in 66 nations

Source: Web of Science

Top 10 ranked nations



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## International Cooperation

### EU projects



### Motivation

- Applying our competences to solving science questions and societal challenges through cutting edge research at the international level
- Acquiring new competences and expanding the number of research and innovation partners across Europe and beyond
- Assessing and improving our international benchmarking profile

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## International Cooperation EU projects: Figures



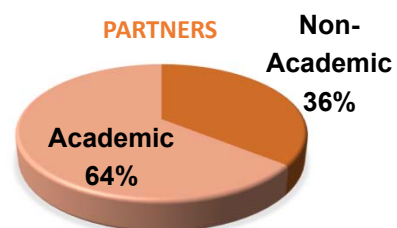
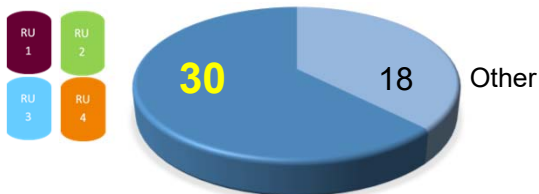
Number of EU projects at HZG 2008 - 2017



December 2017

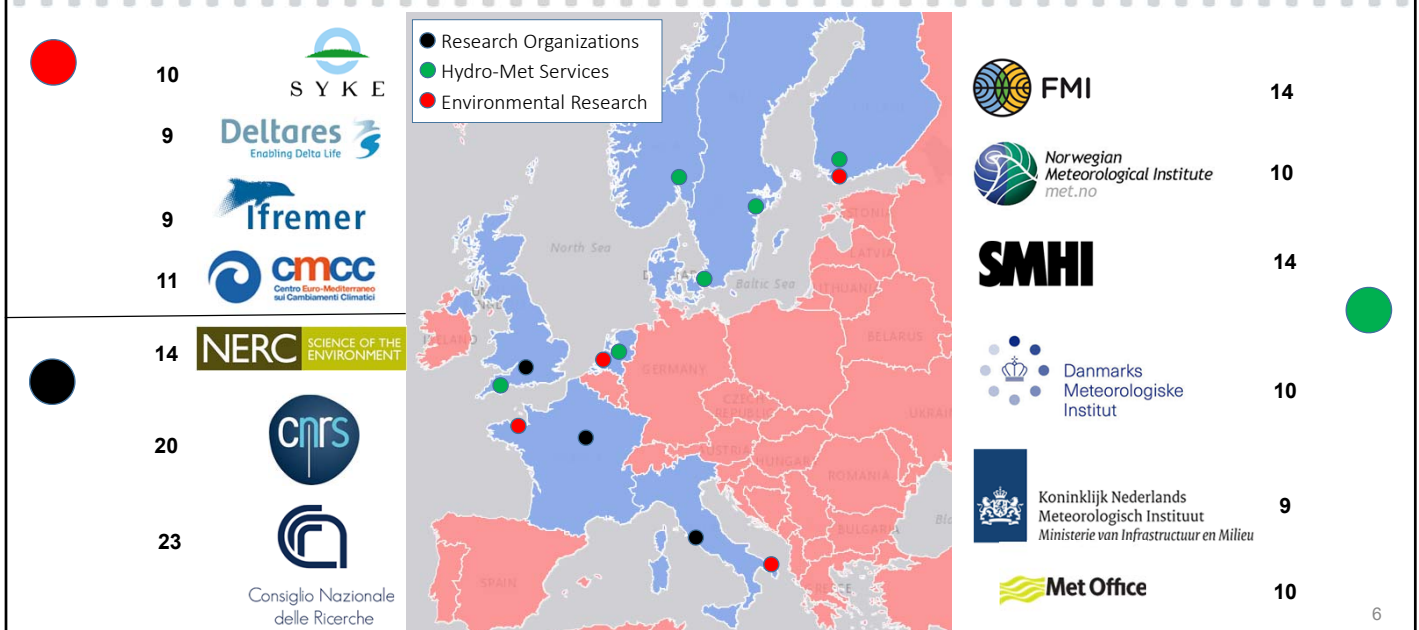
- 48 ongoing EU projects at HZG
- Success rate: 34% (Average 2013-2017)
- 15 mill € expected funding

48 EU PROJECTS AT HZG 12/2017



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## International Cooperation EU projects: Most frequent partners since 2007



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## International Cooperation

### EU projects: Major topics and instruments



#### 1. Climate Change and Climate Services



FP7, 2011-2015

Coordination

HZG (Daniela Jacob)



H2020, 2017-2021



H2020, 2015-2020



H2020, 2015-2019



FP7, 2013-2016



H2020, 2016-2018



FP7, 2013-2016



FP7, 2011-2014

More than 10 other FP7 / H2020 projects



## International Cooperation

### EU Projects: Major topics and instruments



#### Downstream Services



Climate Change Service C3S

Five C3S tenders at HZG



Marine Environment Monitoring Service CMEMS

Four CMEMS tenders at HZG

One of these coordinated by HZG

Six proposals currently under evaluation



## International Cooperation

### EU Projects: Major topics and instruments



### 3. Co-designing programs

HORIZON 2020 ERANET COFUND with HZG as a partner



Four Research & Innovation projects at HZG  
Two of these coordinated by HZG-GERICS



*The European network  
for observing our  
changing planet*

Three Research & Innovation projects at HZG



## International Cooperation

### EU projects: Major topics and instruments



### 4. COSYNA goes EU

- Establish a joint  
**European Coastal Observatories Network**
- Provide access for **International Users**
- **New sensor** development and testing
- **DANUBIUS-PP**: A distributed European Research Infrastructure (RI) for **Advanced studies on River-Sea systems**



FP7, 2011 - 2015



H2020, 2015 - 2019



FP7, 2013 - 2017



FP7, 2013 - 2018



H2020, 2016 - 2019

## International Cooperation Statistics and Examples

### Content

- Publications with international coauthors
- EU projects
- Research Infrastructure and networks with international partners

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## International Cooperation Research Infrastructure: DANUBIUS-RI

ESFRI

European Strategy Forum  
on Research Infrastructures

Roadmap 2016



### Objective:

- establish an **International Center for Advanced Studies on River-Sea-Systems**
- a pan-European, distributed Research Infrastructure
- operational by 2022, **Life Span: 20-30 years**

### HZG contributions:

- Coordinator **Elbe-North Sea Supersite**
- Co-lead **Science and Innovation Agenda** (Jana Friedrich)



[www.danubius-ri.eu](http://www.danubius-ri.eu)

Participants: 29 institutions in 16 European countries

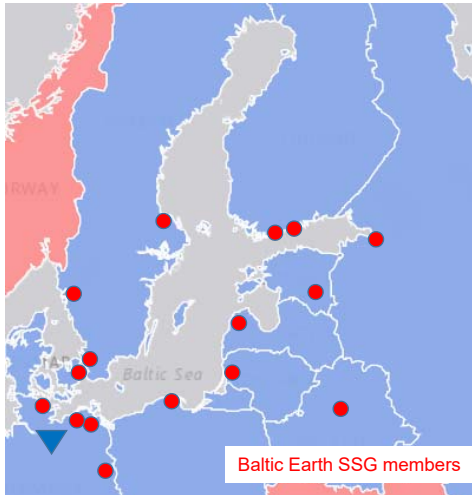


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## International Cooperation

### Network (1): Baltic Earth / Earth System science for the Baltic Sea region



**Objective:** Improved *Earth System* understanding of the Baltic Sea region



**Deliverables:**  
Conferences  
Workshops  
Summer schools  
Publications

**HZG contributions:** Sea level variation, waves, coupled modeling, regional climate change research

**SSG members:** Corinna Schrum, Ralf Weiße

**International Secretariat:** Marcus Reckermann

**Participants:** Academic organisations in all Baltic Sea region countries

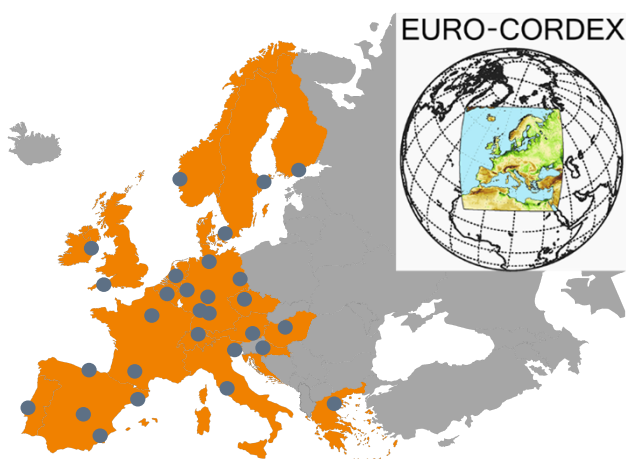
[www.baltic.earth](http://www.baltic.earth)



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## International Cooperation

### Network (2): EURO-CORDEX



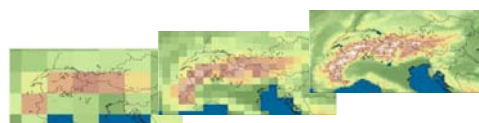
**Objective:** To advance and coordinate the science and application of regional climate downscaling through European partnerships

**HZG contributions:**

Improve climate services through advanced regional modeling and downscaling

**Co-lead of EURO-CORDEX:** Daniela Jacob

**Participants:** 30 leading groups / institutions in regional climate modeling in 20 European countries



[www.euro-cordex.net](http://www.euro-cordex.net)



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## International Cooperation Network (3): The Earth League



**Objective:** To respond to pressing issues such as climate change, depletion of natural resources, land degradation and water scarcity; **to create an impact in policy making**

**Participants:** 24 leading scientists representing institutions of international reputation, Chair J. Rockström, Stockholm Resilience Centre

**HZG contributions:** Climate services, system dynamics and climate modeling  
HZG-GERICS hosts the [International Secretariat](#)

**Executive director:** Maria Mániz Costa **Ex-officio member:** Daniela Jacob

**Deliverables include**

Earth Statement (COP21)

10 Must-knows on Climate Change (COP23)



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[www.the-earth-league.org](http://www.the-earth-league.org)

## International Cooperation Summary

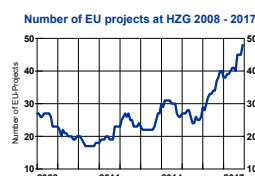


International publications

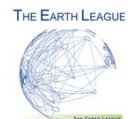


66 nations

EU projects



Research Infrastructure and networks



*Thank you!*

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