



An Analysis of the Scientific Legitimate Knowledge for Science and Decision Making

Scope

The North Sea region is already facing a changing climate and as projections indicate it will be affected even stronger in the upcoming decades.

**available
now**

Risk assessments and adaption measures need a sound, comprehensible and independent analysis of science based information on climate change and expected impacts on ecosystems and the different socio economic sectors on the scale of decision-makers.

Reliable knowledge on the characteristics and impact of climate change on regional scale is arguably still low. The just published IPCC AR5 reports could not accomplish this in the desired level of detail.

The initiative

The North Sea Region Climate Change Assessment is a comprehensive review of knowledge about past and possible future climate change and its impacts in the North Sea and adjacent areas.

A group of renowned scientists from leading research institutions around the North Sea gathered in the NOSCCA initiative to evaluate and analyse primarily the peer-reviewed published scientific knowledge of climate change in an IPCC like manner.

Involved scientists contribute either as Lead (32) or Co-working (95) Authors and the overall process is advised by an international Scientific Steering Committee.

All compiled chapters underwent an external review process supervised by an independent review editor. The final product of NOSCCA is a book released by Springer in September 2016.



Supported among others by:

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

 KlimaCampus

 **National Oceanography Centre**
NATURAL ENVIRONMENT RESEARCH COUNCIL

 **NIOZ**



ICES International Council for the Exploration of the Sea
CIEM Conseil International pour l'Exploration de la Mer

AWI 

 **Royal Netherlands Meteorological Institute**
Ministry of Infrastructure and the Environment



SMHI



Structure and focus of the assessment

The challenge for NOSCCA as a full assessment of climate change consisted firstly of getting access to the scattered knowledge, secondly of rendering it comparable, and ultimately of preparing an assessment of climate change based on the entire material. The report is structured into chapters addressing:

- past and current climate change,
- climate change projections,
- impacts of climate change on marine, coastal, and terrestrial ecosystems, and
 - climate change impacts on socio-economic sectors, as fisheries, agriculture, urban climate, recreation, coastal defense, offshore activities, air quality and coastal zone management.



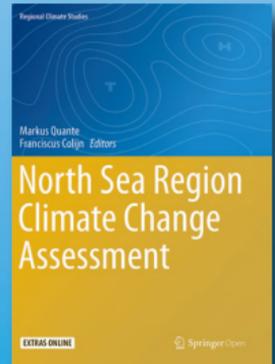
Target audience

NOSCCA is compiled by scientists for scientists from different disciplines and for authorities, agencies and decision makers acting in the North Sea region.

Availability

The North Sea Region Climate Change Assessment has recently been published by Springer.

The book is available online free of charge via the link given below.



<http://link.springer.com/book/10.1007/978-3-319-39745-0>

Markus Quante  **Franciscus Colijn**  **Ingeborg Nöhren**

Helmholtz-Zentrum Geesthacht  Institute of Coastal Research
Max-Planck-Str. 1  21502 Geesthacht, Germany
fon +49 4152 87-2378  markus.quante@hzg.de

www.NOSCCA.org

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