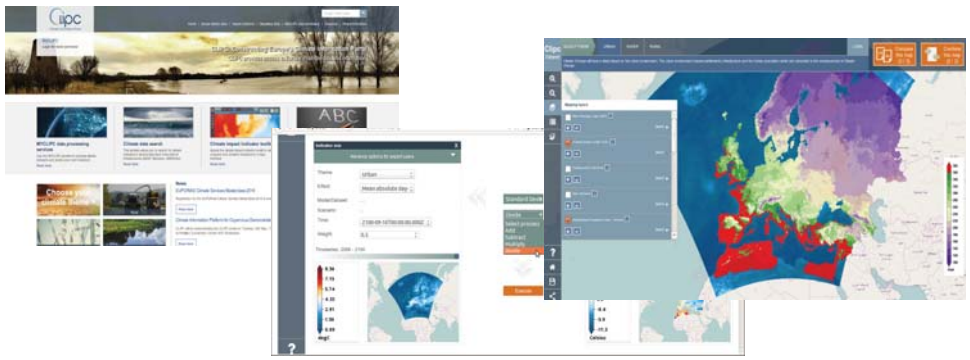
A Climate Information Platform for Copernicus (CLIPC): managing the data flood

www.clipc.eu

Karianne de Bruin (1), Rasmus Benestad (2), Hans-Olav Hygen (2), Rob Swart (1), Peter Thysse (3), Lars Barring (4), Luis Costa Carvalho (5), Johannes Lückenkotter (6), Wim Som de Cerff (7), Sarah Callaghan (8) and Martin Juckes (8)
(1) Alterra; (2) MetNo; (3) MARIS; (4) SMHI; (5) PIK; (6) TUDO; (7) KNMI; (8) STFC (martin.juckes@stfc.ac.uk)



- CLIPC has developed a platform to provide access to climate information of direct relevance to a wide variety of users, from scientists to policy makers and private sector decision makers
- The “one-stop-shop” platform provides data and information on climate and climate impacts, and ensures that the provenance of science and policy relevant data products is thoroughly documented
- Engagement with user communities informs the development of the CLIPC portal
- Climate knowledge includes both data and tools, for analysing, comparing and combining data

Objectives

- Harmonised data and data access
- Systematic generation of climate impact indicators
- Comparison and aggregation of impact indicators
- Provision of clear information of data quality
- Visualisation of data

Challenges

- Interdisciplinary communication
- Huge diversity of underlying data
- Complex multi-layered uncertainties
- Complex and evolving user requirements

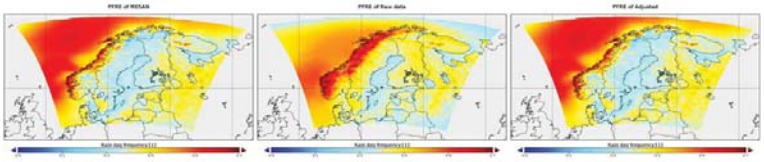
CLIPC Final demonstration and evaluation workshop for users

Date and location: Thursday 20th October 2016, Brussels

More information at: http://tinyurl.com/CLIPCworkshop

Bias correction of climate model data

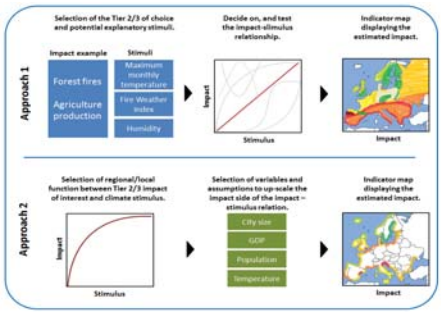
Bias correction precipitation leads to increased realism in climate indicators such as wet day frequency



Frequency of wet days for Scandinavia in observation (left) and the historical EC-EARTH_CCLM run before (middle) and after (right) bias correction

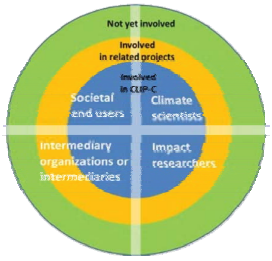
New Climate Impact Indicators

Development of new indicators, and integration into platform (visualization, uncertainty, documentation)



User engagement

Classification of user groups in three circles dependent on connection to the CLIPC project



CLIPC Project

- Duration: 3 years, 2013-2016
- Consortium: 22 Partners
- Coordination: Martin Juckes, STFC
- Lead: STFC (www.stfc.ac.uk)
- Budget: 6 million Euro

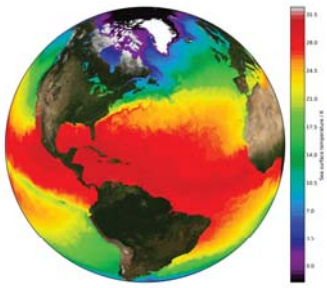
CLIPC is a research project developing a data service infrastructure to support dissemination of climate knowledge.

The CLIPC development roadmap coordinates new releases and prototypes with a range of user engagement events to benefit from a steady stream of feedback.

CLIPC supports the emerging Copernicus Climate Change Service through people, prototypes, tools, standards

Copernicus Europe's eyes on Earth

www.copernicus.eu



While projections of global mean surface temperature are now well understood, substantial uncertainty remains in many areas of more direct relevance to climate service users.

Daintree Rainforest, Queensland, Australia, Wikipedia

This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 607418

Centre for Environmental Data Archival

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL
NATURAL ENVIRONMENT RESEARCH COUNCIL