

# Implementation of the RCC Network in RA VI



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## What are Regional Climate Centres (RCCs)?

RCCs are **Centres of Excellence** that **assist WMO Members** in a given region to deliver **better climate services and products** including regional long-range forecasts, and to strengthen their capacity to **meet national climate information needs**.

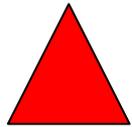
- WMO-mandated activity
- Regional component of the Global Framework for Climate Services (GFCS) Climate Service Information System (CSIS)
- Users: NMHSs, RCOFs and other RCCs (end users are customers of the NHMSs)

### RCC in the RA VI:

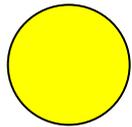
- Poll in 2008 led to product portfolio (fixed in the implementation plan)
- Pilot network 2009-2012; 3 nodes; each node formed by a consortium
- CBS XV (09/2012): approval of nomination of the pilot RCC network to become the WMO RA VI RCC Network
- Resolution 4.3/1 (EC-65) in May 2013 (RCC to be assigned as an RSMC of WMO), approved for inclusion in the Manual on the Global Dataprocessing and Forecasting System (GDPFS) (WMO-No. 485)
- Acknowledgement of Cg-17 (May/June 2015)

# WMO RA VI RCC Network in Europe

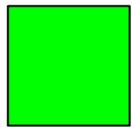
## RA VI RCC Network



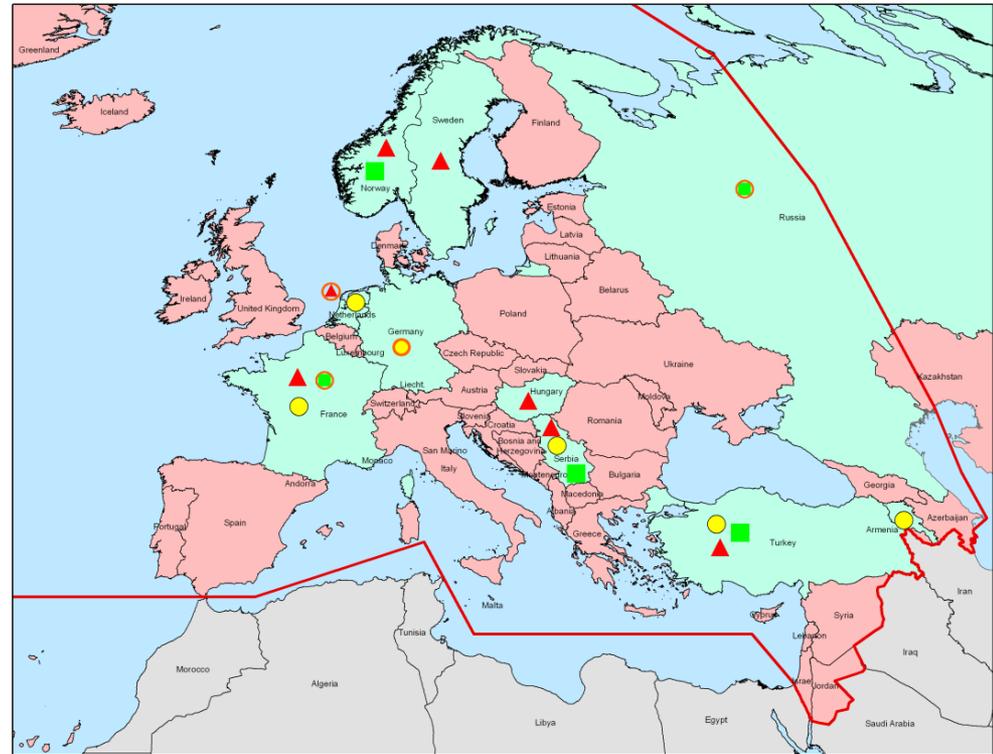
- RCC on Climate Data (red): France, Hungary, Norway, Serbia, Sweden, Turkey; lead: The Netherlands



- RCC on Climate Monitoring (yellow): Armenia, France, The Netherlands, Serbia, Turkey; lead: Germany

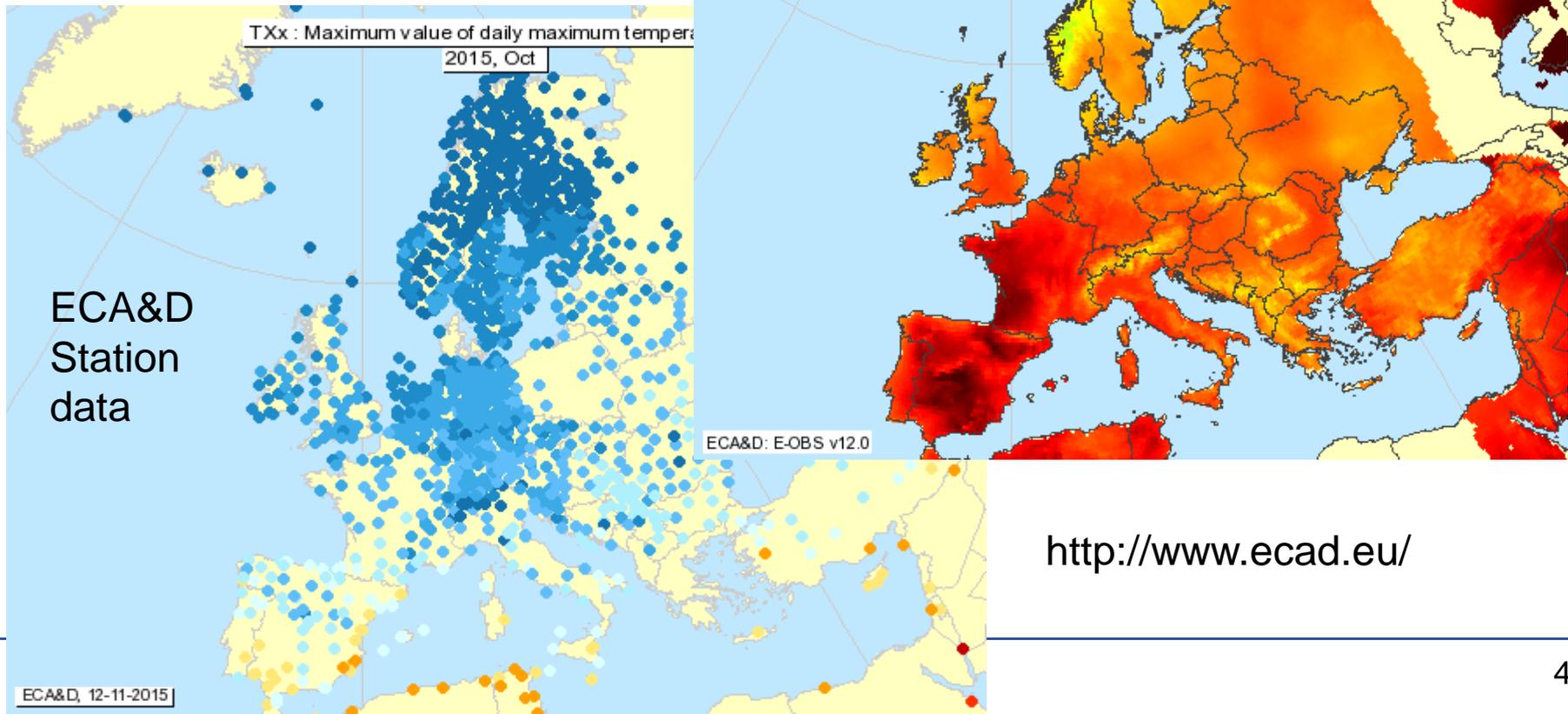


- RCC on Long-range Forecasting (green): Norway, Serbia, Turkey; lead: France, Russian Federation



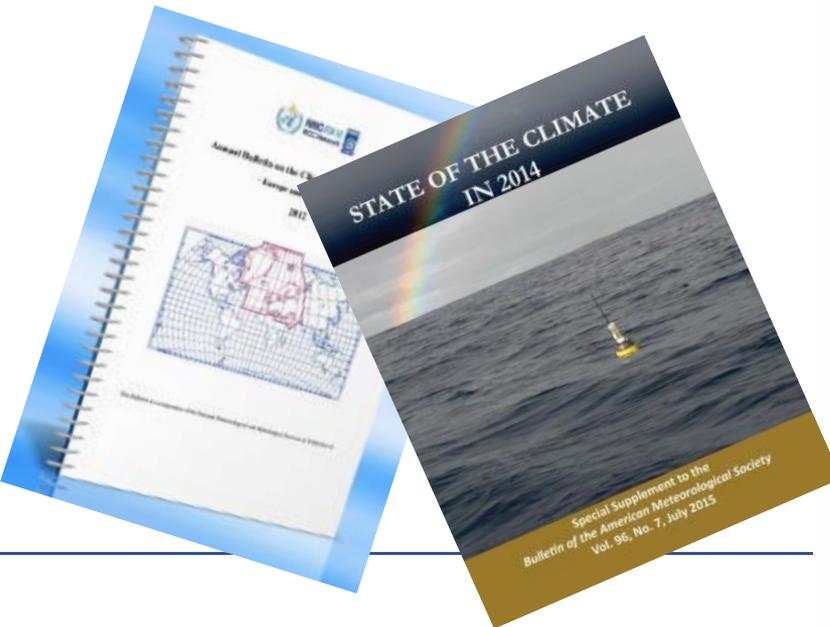
## RCC-CD product examples: Data sets and data services

- Daily data sets for download
- Visualisation tools
- Homogeneity tests

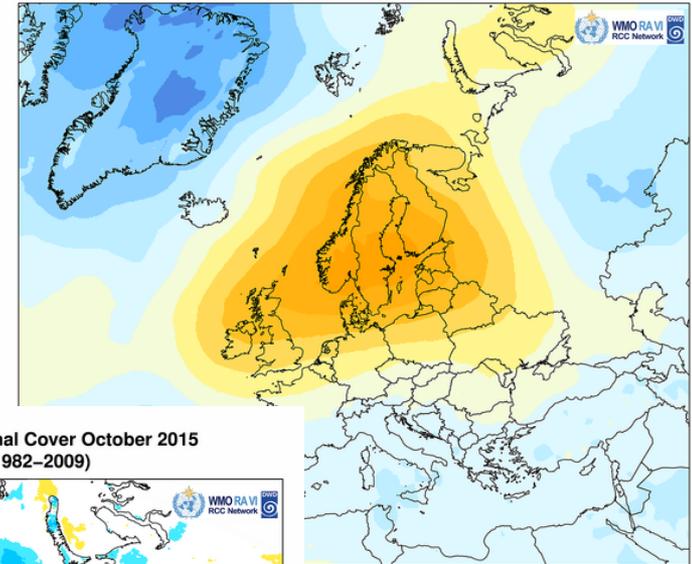


## RCC-CM products in general:

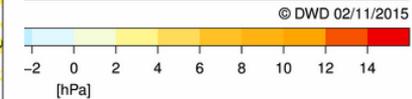
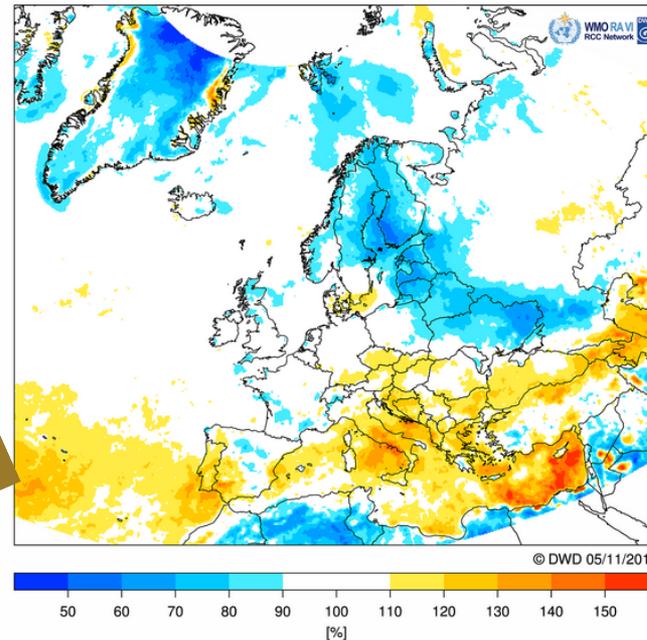
- Maps of means/anomalies of many variables
- Time series diagrams and trends
- Documentation of significant events
- Monthly and annual reports
- Climate watches



Anomaly of Sea Level Pressure October 2015  
(reference period 1981–2010)



Relative anomaly Cloud Fractional Cover October 2015  
(reference period 1982–2009)



[www.dwd.de/rcc-cm](http://www.dwd.de/rcc-cm)

# RCC-LRF product examples

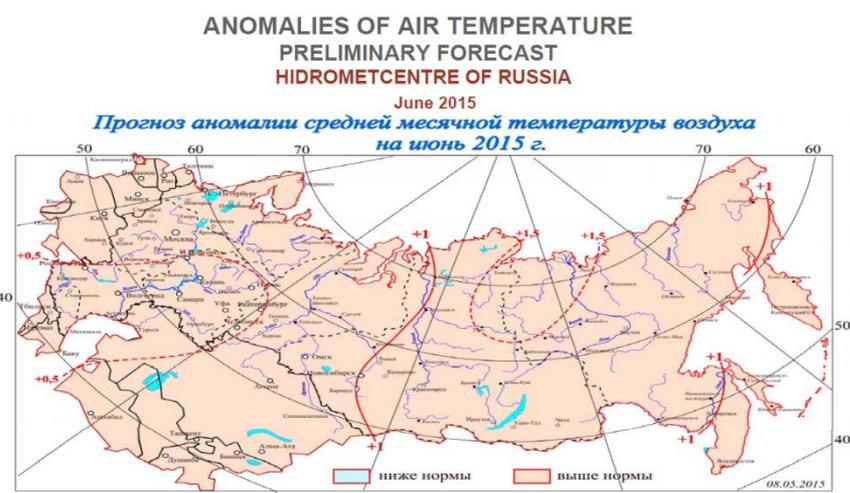
- Monthly global bulletin
- Global and regional seasonal prediction maps
- Climate outlook
- Model verification

## GLOBAL CLIMATE BULLETIN n°197 – November 2015

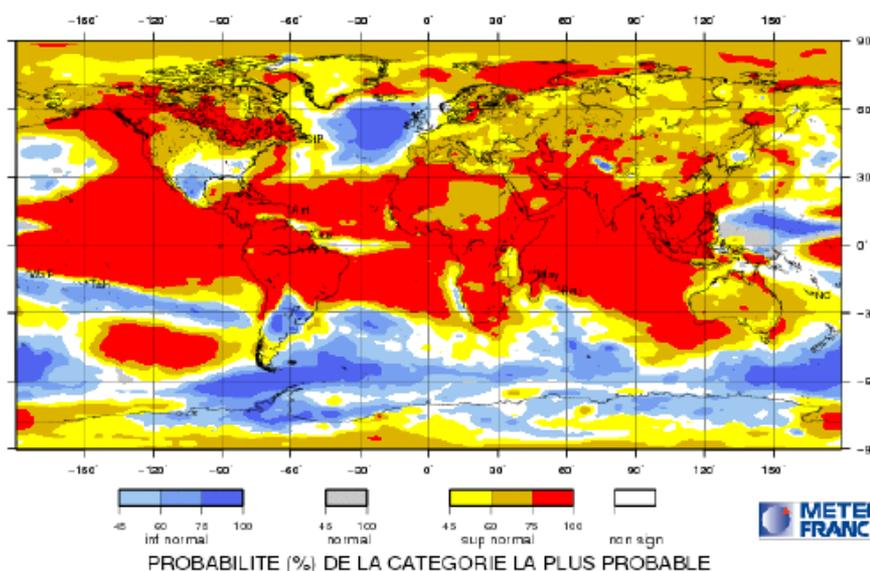
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### NORTH EURASIA CLIMATE CENTRE

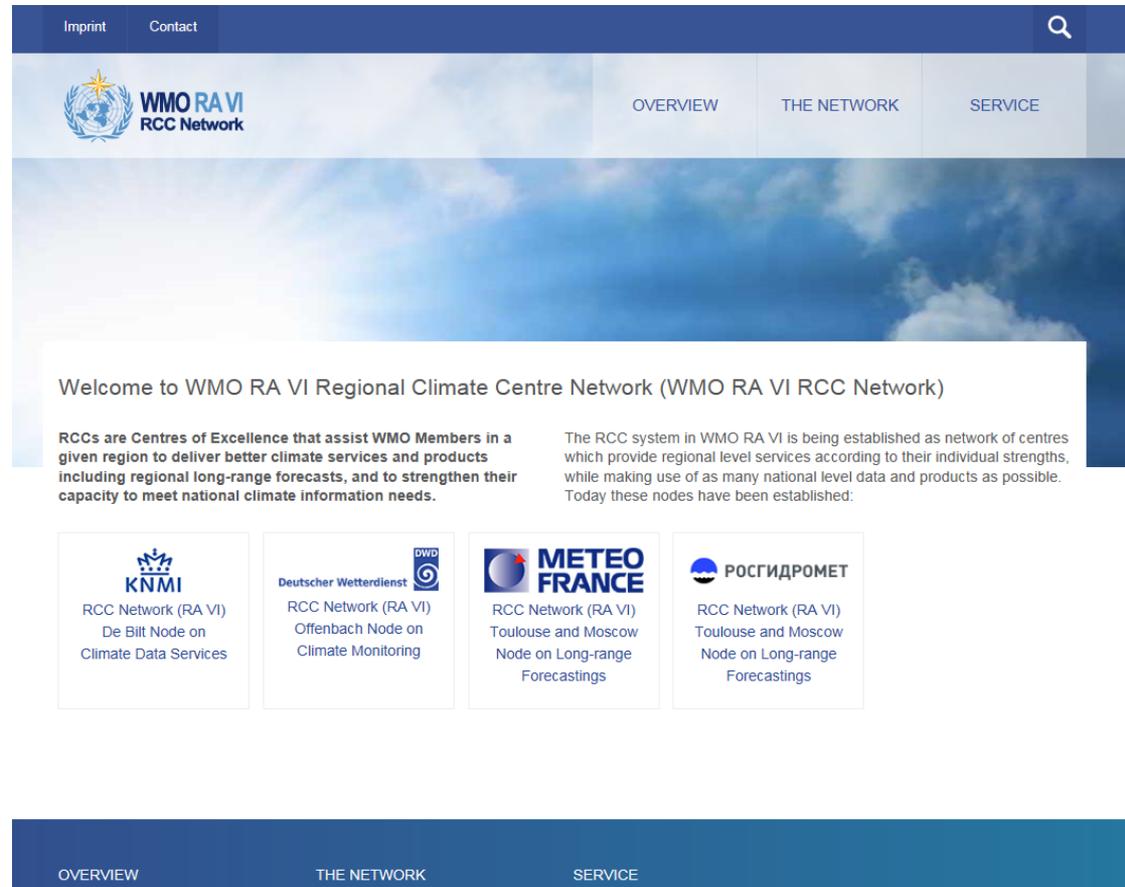


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## Access to RCC Network information and products

- Website **<http://www.rccra6.org>**
- General description
- Links to
  - Documents
  - Meeting information
  - Contact details
  - Links to all RCC nodes, including product catalogues
  - Various products from consortium partners, including many subregional products



The screenshot shows the homepage of the WMO RA VI RCC Network website. The header includes navigation links for 'Imprint' and 'Contact', and a search icon. Below the header is a navigation menu with 'OVERVIEW', 'THE NETWORK', and 'SERVICE' tabs. The main content area features a large blue sky image and a white text box with the following text:

Welcome to WMO RA VI Regional Climate Centre Network (WMO RA VI RCC Network)

RCCs are Centres of Excellence that assist WMO Members in a given region to deliver better climate services and products including regional long-range forecasts, and to strengthen their capacity to meet national climate information needs.

The RCC system in WMO RA VI is being established as network of centres which provide regional level services according to their individual strengths, while making use of as many national level data and products as possible. Today these nodes have been established.

Below this text are four boxes representing established nodes:

- KNMI**: RCC Network (RA VI) De Bilt Node on Climate Data Services
- Deutscher Wetterdienst (DWD)**: RCC Network (RA VI) Offenbach Node on Climate Monitoring
- METEO FRANCE**: RCC Network (RA VI) Toulouse and Moscow Node on Long-range Forecastings
- РОСГИДРОМЕТ**: RCC Network (RA VI) Toulouse and Moscow Node on Long-range Forecastings

The footer of the website contains the same navigation tabs: 'OVERVIEW', 'THE NETWORK', and 'SERVICE'.

## Training

- About one RCC Training Workshop per year
- In the past: mostly in relation to annual EMS conferences
- October 2015: RA VI RCC network supported the First MedCOF Training Workshop (hosted by AEMET) by
  - giving lectures
  - chairing and organising training sessions
  - contributions from all 3 nodes!



RCOFs are important users of RCCs !

## Climate Watch System in RA VI

- **Goal:** efficient monitoring and **warning** against **extreme climate events**
- **Task:** provides **advisories and statements** to inform users about evolving or foreseen climate anomalies at the regional and national levels, thus allowing them to make informed **decisions**.
- **Use:** RCC forecast and monitoring products
- RCC-CM send out advisories to the national services, they send tailored advisories/warnings to the end-users

### Climate Watch Advisory



#### Guidance on **above-normal precipitation**

**Area concerned:** Ireland, Scotland, Norway and the Faroe Islands (Northwest Europe)

**Initial statement issued on 06 November 2015**

**Valid:**            **Begin: 06 November**            **End: 22 November 2015**

**To:** Climate Watch focal points of NMHSs: Ireland, United Kingdom, Norway and Denmark

The RA VI RCC Network Offenbach Node on Climate Monitoring (RCC-CM) is responsible for providing Climate Watch guidance information for NMHSs' own consideration for issuing climate advisories for their territory.

After having consulted the consortium partners of the RCC-CM and RCC-LRF (RA VI RCC Network Toulouse and Moscow Node on Long-Range Forecasting), RCC-CM issues the following guidance information:

Due to the recent weather situation (partly heavy precipitation in Ireland, Scotland, Norway during the last weeks) and the weekly, monthly and seasonal forecasts (significantly above-normal precipitation in concerned areas) we expect:

"A period with (significantly) above-normal precipitation for the next two weeks with possible extension of such conditions until the end of November 2015 is expected for Ireland, Scotland, Norway and the Faroe Islands, with locally heavy precipitation. The probability for this anomaly is estimated to be above 90%. "

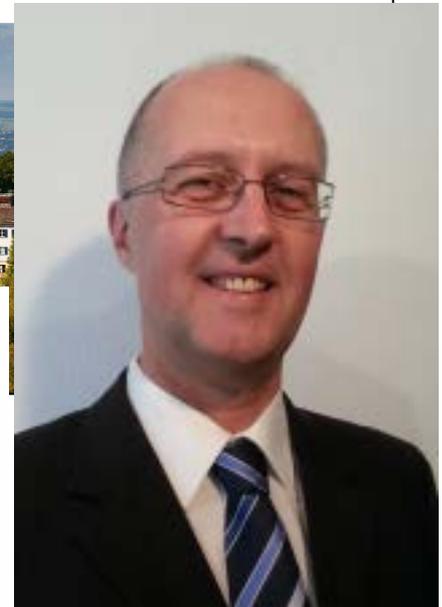
# Thank you for your attention!

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**German  
Climate Observing Systems**  
Inventory report on the Global Climate Observing System (GCOS)



Mean Temperature October 2015

