

# CMIP6 DICAD Projekttreffen

Hamburg, 11.10.2017



Anlass: Jahrestreffen

Zwischenberichte  
für alle Arbeitspakete  
und  
Diskussionsrunde



Bundesministerium  
für Bildung  
und Forschung

## Unterstützung der CMIP6<sup>+</sup>-Aktivitäten in Deutschland

Mi. 11. Okt 2017, DKRZ Hamburg, Bundesstrasse 45a,  
EG, Raum 23 (Tel. +49-40-460094-205)  
10:00 – ca. 16:00

### 10:00 Begrüßung

### 10:05 AP1 CMIP6<sup>+</sup>-Experimente

**WP 1.1 DECK-Experimente mit MPI-ESM1.2**  
Matthias Bittner (MPI-M)

**WP 1.2 historical und ScenarioMIP Experimente mit MPI-ESM1.2**  
Stephanie Legutke (DKRZ)

**WP 1.3 Deck Experiments mit ICON-ESM2**  
N.N. (DWD)

**Vortrag: Stand der AWI-CM Rechnungen**  
Dmitri Sein (AWI)

**Vortrag: EMAC - Verbund 1**  
Markus Kunze (DLR)

### 10:45 AP2 Kompatibilität der CDOs mit CMIP6<sup>+</sup>-Datenstandards

**WP 2.1 Kopplung der CDOs mit der CMOR Library**  
Fabian Wachsmann (DKRZ)

**WP 2.2 Modifizierung und Erweiterung des CDO-(Meta)Datenmodells**  
Fabian Wachsmann (DKRZ)

**Vortrag: Der CDO cmor-Operator**  
Fabian Wachsmann (DKRZ) 20 min

--- Kaffeepause 15 min ---

### 11:30 AP3 Infrastruktur zur Anpassung an CMIP6 Projektdatenstandards

**WP 3.1 Schnittstelle: Integration <-> Datenaufbereitung**  
Stephanie Legutke (DKRZ)

**WP 3.2 Diagnostik von Rohdaten**  
Martin Schupfner (DKRZ)

**WP 3.3 Formatierung von CMIP6<sup>+</sup>-Variablen**  
Martin Schupfner (DKRZ)

**WP 3.4 Modulare Durchführung von Experimentworkflowschritten**  
Stephanie Legutke (DKRZ)

**WP 3.5 Konfigurierbarkeit des cmor-Operators**  
Fabian Wachsmann (DKRZ) und Martin Schupfner (DKRZ)

**Vortrag: CMIP6-Variablenanforderung und Anpassung der Modelldaten an den CMIP-Standard**

Martin Schupfner (DKRZ) 20 min

### 12:00 AP4 Datenqualitätsprüfung

**WP 4.1 QA- Werkzeugs zur Prüfung der Datenkonformität**  
Heinz-Dieter Hollweg (DKRZ)

**WP 4.2 Unterstützung bei der lokalen Benutzung des QA-Werkzeugs**  
Heinz-Dieter Hollweg (DKRZ)

**WP 4.3 Werkzeugs von WP 4.1 im Internet (Spot-Check-Dienst)**  
Heinz-Dieter Hollweg (DKRZ)

**Vortrag: Datenqualitätsprüfung**  
Heinz Dieter Hollweg (DKRZ)

### 12:30 AP5 Nationales CMIP6 Datenarchiv

**WP 5.1 Einrichtung eines nationalen Datenknotens**  
Stephan Kindermann (DKR)

**WP 5.2 Betrieb des ESGF Datenknotens**  
Stephan Kindermann (DKRZ)

**WP 5.3 Koordinierte Sammlung & Bereitstellung wichtiger CMIP6<sup>+</sup>-Daten**  
Stephan Kindermann (DKRZ)

**Vortrag: DKRZ CMIP Datenpool und ESGF Knoten: Stand**  
Stephan Kindermann (DKRZ), 20 min

- - - Mittagspause 30 min - - -

### **13:30 AP6 Standardisierte Diagnostiken und Modellevaluation**

#### **WP 6.1 Installation und Betrieb des ESMValTools in der ESGF DKRZ Infrastruktur**

Björn Brötz, (DLR)

#### **WP 6.2 Nutzung des ESMValTools zur QA laufender Simulationen**

Björn Brötz, (DLR)

#### **WP 6.3 Nutzung des ESMValTools zur Unterstützung der CMIP6<sup>+</sup>-Wissenschaftler**

Lisa Bock, (DLR)

#### **WP 6.4 Web-basierte Bereitstellung von Ergebnissen der Auswertesysteme**

Thomas Schartner (FUB)

#### **Vortrag: Vorstellung des CMIP6-DICAD Portals**

Thomas Schartner (FUB)

- - - Kaffeepause 15 min - - -

### **14:15 AP7 Zitierfähigkeit und Dokumentation im CMIP6<sup>+</sup>-Archiv**

#### **WP 7.1 Annotationen für den nationalen CMIP6<sup>+</sup>-Beitrag**

Martina Stockhause (DKRZ)

#### **WP 7.2 Metadaten zur Modelldokumentation (CIM)**

Martina Stockhause (DKRZ)

#### **WP 7.3 Vorläufige Zitierbarkeit der CMIP6<sup>+</sup>-Daten**

Martina Stockhause (DKRZ)

#### **Vortrag: Vorstellung/Demonstration der Bereitstellung von Datenzitatsinformationen**

Martina Stockhause (DKRZ)

### **14:45 AP8 LZA im WDCC/IPCC-DDC & DataCite Datenpublikation**

#### **WP 8.1 Verbesserung der Schnittstelle ESGF und WDCC**

N.N. (DKRZ)

#### **WP 8.2 Zusammenführung von Metadaten**

Hanna Motupali (DKRZ)

#### **WP 8.3 Unabhängige Qualitätsprüfung**

Hanna Motupali (DKRZ)

#### **WP 8.4 Archivierung der Daten**

Hanna Motupali (DKRZ)

#### **WP 8.5 Zuordnung persistenter DOI**

N.N. (DKRZ)

### **15:15 Abschließendes Resümee und Verabschiedung**



# Offizielle Seite

The screenshot shows the official website for CMIP6 National Support Activities. The page has a blue header with the title "CMIP6 National Support Activities" and a search bar. Below the header is a navigation menu with links for Home, DICAD, Chemistry, Events, and News. The main content area features a breadcrumb trail "You are here: Home" and a timestamp "last modified Jan 16, 2017 03:33 PM". The primary heading is "National CMIP6 Support Activities", followed by a sub-heading "BMBF funded project to support the German CMIP6 activities". The text describes the project's goals, including data processing, model intercomparison, and the execution of DECK experiments. It also mentions organizational support from the German Federal Government and the German Research Aerospace Establishment (DLR). On the left side, there is a sidebar with a logo for the "Bundesministerium für Bildung und Forschung" (BMBWF) and a list of navigation links. On the right side, there are sections for "News" and "Upcoming Events", with the next meeting scheduled for November 24, 2016.

Site Map Accessibility Contact

Search Site

English Deutsch

Home DICAD Chemistry Events News

You are here: Home last modified Jan 16, 2017 03:33 PM

## National CMIP6 Support Activities

### BMBF funded project to support the German CMIP6 activities

As during the 5th phase of the International Coupled Model Intercomparison Project (CMIP5), the German Federal Ministry of Education and Research (BMBF) is also supporting the German climate research in the current 6th phase in the generation of the national contribution to the data base for the next assessment report (AR) of the International Panel for Climate Change (IPCC).

The funding covers 4 years and ends in June 2020.

The main objectives in the project are the provision of the German contribution to the data base for the IPCC/AR6, competency formation for compliant data processing in accordance with the CMIP data standards for the national CMIP6 participants and the fulfillment of the conditions laid down by the CMIP6 Panel for participation in the model intercomparison projects (MIPs) endorsed by CMIP6. In addition to the publication of the data in a CMIP-ESGF data node, this also includes carrying out the so-named DECK experiments, which form the core of the CMIP experiments. The DECK experiments include the preindustrial control experiment (piControl), an experiment under constant conditions, but with an increase of 1% per year of atmospheric CO<sub>2</sub> (1pctCO<sub>2</sub>), an experiment under constant conditions but a CO<sub>2</sub> concentration increased by a factor of four compared with that of 1850 (abrupt4xCO<sub>2</sub>), as well as an experiment in which the sea surface temperatures and sea ice extent are given according to the AMIP observation data (amip). No DECK experiment, but also a condition for participation, is the execution of a historical hindcast experiment, which begins in 1850 and is intended to reproduce the historical climate from 1850 to the present using the observational data specified by CMIP6. For a description of the CMIP6 project design see Eyring et al.(2016).

Organizationally, the activities are divided into 2 alliances. Alliance-1 (DICAD) supports national modeling groups both in the production of quality-assured standard-compliant CMIP6 data, as well as in the publication of the model results on the ESGF data nodes of the DKRZ, and the execution of the DECK experiments. In addition, national research is supported by replication of data from other ESGF data nodes and the implementation of a diagnostic tool for timely model validation and model comparison (ESM@eTool) as well as an access portal to the ESM@eTool

GEFÖRDERT VOM  
 Bundesministerium für Bildung und Forschung

News

The next meeting ...  
Nov 24, 2016

More news...

Upcoming Events

Month 6 project meeting  
Jan 24, 2017 11:30 AM - 06:00 PM — Groundfloor, room 23, DKRZ, Hamburg

Upcoming events...

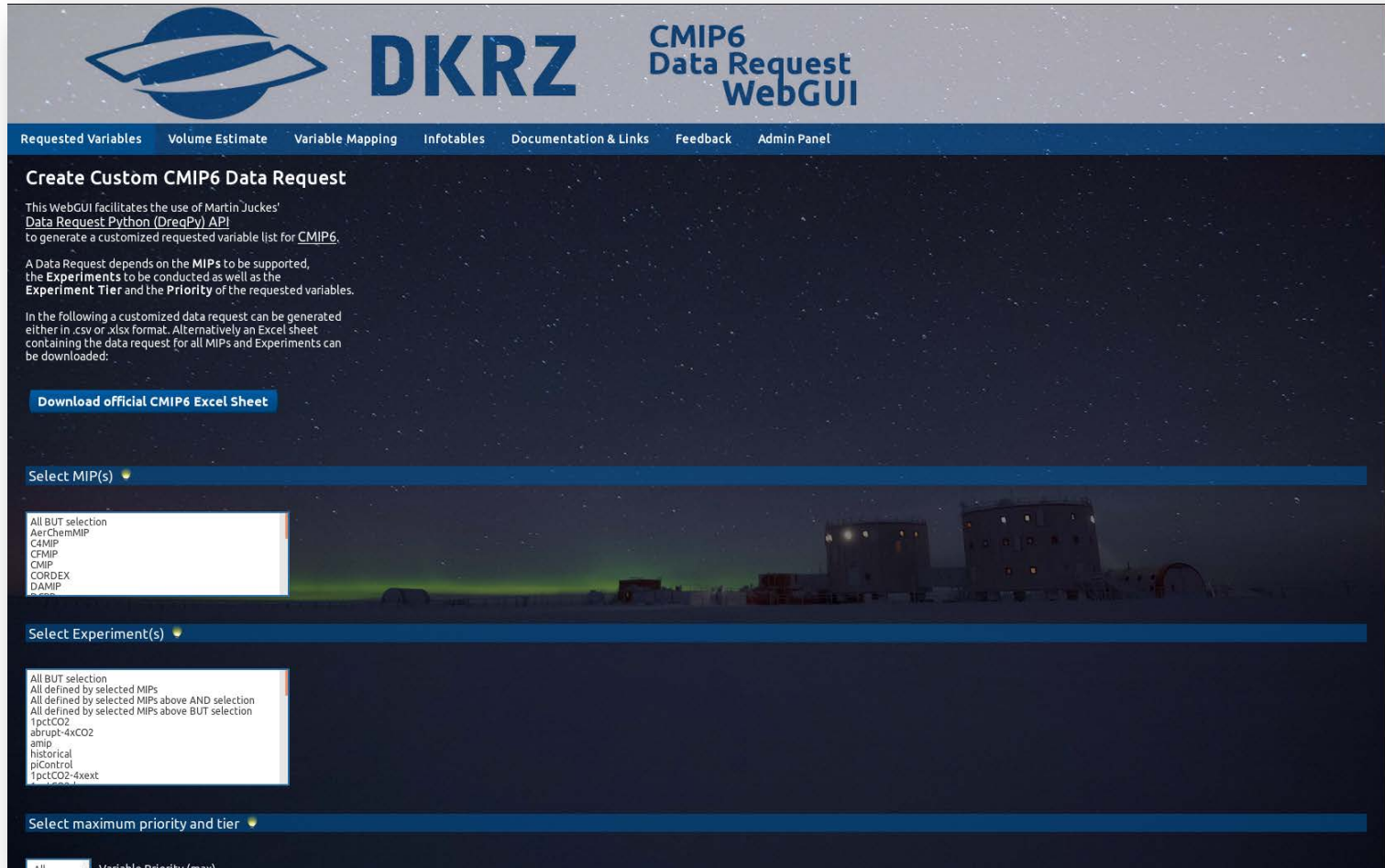
<https://dkrz.de/c6de/>

# Projekt-Wiki

The screenshot shows the Redmine interface for the CMIP6-DICAD project. The top navigation bar includes links for 'Hauptseite', 'Projekte', and 'Hilfe', along with 'Anmelden' and 'Registrieren'. The project logo 'DKRZ' and 'CMIP6-BMBF » CMIP6-DICAD' are displayed. A search bar is located in the top right. The main content area is divided into sections: 'Dokumente' (listing project proposals, contracts, milestones, and a portal), 'Teilprojekte' (listing four task packages from TP 1 to TP 4), 'Arbeitspakete' (listing eight work packages from AP 1 to AP 8), and 'Organisatorisches'. A sidebar on the right contains a 'Wiki' section with links to the 'Hauptseite' and sorting options: 'Seiten nach Titel sortiert' and 'Seiten nach Datum sortiert'. The footer indicates the page is powered by Redmine © 2006-2017 Jean-Philippe Lang.

<https://redmine.dkrz.de/projects/cmip6-dicad-subproject/wiki>

# Unterstützung



The screenshot shows the DKRZ CMIP6 Data Request WebGUI interface. At the top, there is a navigation bar with the DKRZ logo and the text "CMIP6 Data Request WebGUI". Below the navigation bar, there are several menu items: "Requested Variables", "Volume Estimate", "Variable Mapping", "Infotables", "Documentation & Links", "Feedback", and "Admin Panel". The main content area is titled "Create Custom CMIP6 Data Request". It contains a paragraph explaining the purpose of the WebGUI and a link to "Download official CMIP6 Excel Sheet". Below this, there are three selection fields: "Select MIP(s)", "Select Experiment(s)", and "Select maximum priority and tier". Each field has a dropdown menu with a list of options. The "Select MIP(s)" dropdown includes "All BUT selection", "AerChemMIP", "C4MIP", "CFMIP", "CMIP", "CORDEX", and "DAMIP". The "Select Experiment(s)" dropdown includes "All BUT selection", "All defined by selected MIPs", "All defined by selected MIPs above AND selection", "All defined by selected MIPs above BUT selection", "1pctCO2", "abrupt-4xCO2", "amip", "historical", "piControl", and "1pctCO2-4xext". The "Select maximum priority and tier" dropdown is currently set to "All" and has a tooltip that says "Variable Priority (max)".

**Requested Variables**   **Volume Estimate**   **Variable Mapping**   **Infotables**   **Documentation & Links**   **Feedback**   **Admin Panel**

## Create Custom CMIP6 Data Request

This WebGUI facilitates the use of Martin Juckes' [Data Request Python \(DreqPy\) API](#) to generate a customized requested variable list for CMIP6.

A Data Request depends on the MIPs to be supported, the Experiments to be conducted as well as the Experiment Tier and the Priority of the requested variables.

In the following a customized data request can be generated either in .csv or .xlsx format. Alternatively an Excel sheet containing the data request for all MIPs and Experiments can be downloaded:

[Download official CMIP6 Excel Sheet](#)

Select MIP(s) ▼

- All BUT selection
- AerChemMIP
- C4MIP
- CFMIP
- CMIP
- CORDEX
- DAMIP

Select Experiment(s) ▼

- All BUT selection
- All defined by selected MIPs
- All defined by selected MIPs above AND selection
- All defined by selected MIPs above BUT selection
- 1pctCO2
- abrupt-4xCO2
- amip
- historical
- piControl
- 1pctCO2-4xext

Select maximum priority and tier ▼

All Variable Priority (max)

<https://c6dreq.dkrz.de/>

Nächstes Treffen:  
Frühling/Sommer 2018

Wo?

Hamburg, Berlin, ...