

## DOI for 'CMIP6.HighResMIP.NERC.HadGEM3-GC31-HM'

doi:10.22033/ESGF/CMIP6.1824

### General Information

### Creators

### Researchers

### General Information

#### Name

CMIP6.HighResMIP.NERC.HadGEM3-GC31-HM

#### Abstract

Coupled Model Intercomparison Project Phase 6 (CMIP6) data sets.

These data includes all datasets published for 'CMIP6.HighResMIP.NERC.HadGEM3-GC31-HM' according to the Data Reference Syntax defined as

'mip\_era.activity\_id.institution\_id.source\_id.experiment\_id.member\_id.table\_id.variable\_id.grid\_label.version'.

The model used in climate research named HadGEM3-GC3.1-N512ORCA025, released in 2016, includes the components:

aerosol: UKCA-GLOMAP-mode, atmos: MetUM-HadGEM3-GA7.1 (N512; 1024 x 768 longitude/latitude; 85 levels; top level 85 km), land: JULES-HadGEM3-GL7.1, ocean: NEMO-HadGEM3-GO6.0 (eORCA025 tripolar primarily 0.25 deg; 1440 x 1205 longitude/latitude; 75 levels; top grid cell 0-1 m), seaIce: CICE-HadGEM3-GSI8 (eORCA025 tripolar primarily 0.25 deg; 1440 x 1205 longitude/latitude).

The model was run by the Natural Environment Research Council, STFC-RAL, Harwell, Oxford, OX11 0QX, UK (NERC) in native nominal resolutions: aerosol: 50 km, atmos: 50 km, land: 50 km, ocean: 25 km, seaIce: 25 km.

Project: These data have been generated as part of the internationally-coordinated Coupled Model Intercomparison Project Phase 6 (CMIP6; see also GMD Special Issue: [http://www.geosci-model-dev.net/special\\_issue590.html](http://www.geosci-model-dev.net/special_issue590.html)). The simulation data provides a basis for climate research designed to answer fundamental science questions, and the results will undoubtedly be relied on by authors of the Sixth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC-AR6).

CMIP6 is a project coordinated by the Working Group on Coupled Modelling (WGCM) as part of the World Climate Research Programme (WCRP). Phase 6 builds on previous phases executed under the leadership of the Program for Climate Model Diagnosis and Intercomparison (PCMDI) and relies on the Earth System Grid Federation (ESGF) and the Centre for Environmental Data Analysis (CEDA) along with numerous related activities for implementation. The original data is hosted and partially replicated at a federated collection of data nodes, and most of the data relied on by the IPCC is being archived for long-term preservation at the IPCC Data Distribution Centre (IPCC DDC) hosted by World Data Centre for Climate (WDCC) at DKRZ.

The project includes simulations from about 120 global climate models and around 45 institutions and organizations worldwide. - Project website: <https://pcmdi.llnl.gov/CMIP6>.

#### Subjects

CMIP6.HighResMIP.NERC.HadGEM3-GC31-HM (DRS: [http://github.com/WCRP-CMIP/CMIP6\\_CVs](http://github.com/WCRP-CMIP/CMIP6_CVs))  
CMIP6

climate

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CMIP6 model data is evolving in the sense that datasets are changed and added as new versions. The author list and the title are not final, either. Cite this data collection including the latest dataset version according to the Data Citation Guidelines (<http://bit.ly/2gBCuqM>). Individuals using the data must abide to the terms of use for CMIP6 data (<https://pcmdi.llnl.gov/CMIP6/TermsOfUse>). Details on any license restrictions are recorded as global attributes in the files.

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## Cite this data

### Citation

Schiemann, Reinhard; Vidale, Pier Luigi; Hatcher, Ros; Roberts, Malcolm **(2019)**. *NERC HadGEM3-GC31-HM model output prepared for CMIP6 HighResMIP*. Version YYYYMMDD<sup>[1]</sup>. Earth System Grid Federation. <https://doi.org/10.22033/ESGF/CMIP6.1824>

 BibTeX

 RIS

[1] Please use the latest dataset version or if not available the latest data download date as version in your data citation.

## Data Access

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## Related Data

NERC HadGEM3-GC31-HM model output prepared for CMIP6 HighResMIP highres-future

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