README concerning the dataset AWI-CM available via DKRZ /pool/data resources Date: 01.12.2021 TITLE OF THE DATASET AWI-CM input data PATH TO THE DATASET /pool/data/AWICM OWNER/PRODUCER OF THE DATASET -Contact details of the person responsible for the dataset (also in the long run) Tido Semmler, Alfred Wegener Institute Helmholtz Center for Polar and Marine Research, tido.semmler@awi.de, 0471 4831 2287 DATA USAGE LICENSE - Are there any restrictions on the data reuse? If yes, please provide details. All data are available free of charge but are subject to licenses as detailed below. This will also be the case for biogeochemistry data and for data necessary for the ice sheet module. – Which license are the data associated with? At the moment the data developed at AWI (subdirectories FESOM2/ MESHES and FESOM2/MESHES\_FESOM2.1), the initial data (subdirectory FESOM2/INITIAL) consisting of PHC ocean climatology data, and the forcing data (subdirectory FESOM2/FORCING) consisting of derived data from JRA55 reanalysis data and NCEP reanalysis data (CORE2) are subject to the CC BY 4.0 license. The forcing data derived from the ECMWF reanalysis (subdirectory FESOM2/FORCING/ERA5) are subject to the license to use Copernicus Products: https://apps.ecmwf.int/ datasets/licences/copernicus/. Once data related to OpenIFS will become available, a license agreement needs to be signed with ECMWF for usage of these data. CONTENT OF THE DATASET – What kind of data is it? Input and forcing data for running model simulations and evaluation data. Input data are files defining the mesh triangles of the unstructured FESOM mesh. Forcing data are initial data consisting of an ocean climatology and atmosphere data to drive the ocean model for stand-alone ocean simulations at the ocean surface. - Which variables are contained and how are they described (naming conventions, data standards)? Coordinates of unstructured ocean model FESOM mesh in ASCII Partitioning of FESOM grid cells to processors in ASCII River runoff, calving flux, specific humidity, total precipitation, snow fall, 2 m temperature, 10 m wind components, long and shortwave radiation at the surface, mean sea level pressure from reanalysis data in netCDF with the CMIP / CMOR naming convention.

DATA USAGE SCENARIOS

- What can the data be used for? Running the AWI-CM or components of it. Furthermore, model evaluation. - Who are expected users at DKRZ? AWI-CM users or users of components of it from AWI, GEOMAR, and the EC-Earth community. METHODSUSED FOR DATA CREATION - How where the data created? Who created the data? Do existing publications describe the data? The mesh data were created by the FESOM developers. The reanalysis data by the different reanalysis centers. ISSUES - Are there any peculiarities associated with the dataset which a data re-user should know about? VOLUME OF THE DATASET (AND POSSIBLE C HANGES THEREOF) - What is the volume of the dataset? 1.6 TB - Will the volume of the dataset in- or decrease with time? If so, by how much? It is expected to grow to around 25 TB TIME HORIZONOF THE DATASET ON / POOL / D ΑΤΑ - How long is the data planned to be made available via /pool/data? At least 10 years - Storage resources granted until ... (cf info by WLA)