

Project Details	
<b>ESCC Project No. &amp; Title(s)</b>	2.1 Preparing ACCESS for CMIP6 5.1 ACCESS evaluation and application
<b>Project Leader(s)</b>	Simon Marsland/ Harun Rashid
<b>Deliverable(s)</b>	ACCESS-CM2 model output data for CMIP6 publication
<b>Data/software Manager</b>	Chloe Mackallah

Research Output data collection or software URLs if applicable
Data located at NCI's ESGF node ( <a href="https://esgf.nci.org.au">https://esgf.nci.org.au</a> )

Description (complete for data and software)	
<b>Title</b>	ACCESS-CM2 model output prepared for CMIP6 under 'CMIP'
<b>Description</b>	These data includes all datasets published for 'CMIP6.CMIP.CSIRO-ARCCSS.ACCESS-CM2' 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'. Experiments include the DECK ( <i>piControl</i> , <i>abrupt-4xCO2</i> , <i>1pctCO2</i> , <i>amip</i> ) and <i>historical</i> simulations.
<b>Temporal &amp; Spatial Extent</b>	Global, various year ranges.
<b>Lineage</b>	Met Office HadGEM3-GA7.1, ACCESS1-OM2, CABLE2.5, CICE5.1.2
<b>Credit</b>	CSIRO Coupled modelling team & ARCCSS
<b>Keywords</b>	Coupled modelling, CMIP6, ACCESS, climate, climate change
<b>ABS Fields of Research Category / Subcategory*</b>	04 Earth Sciences 0401 Atmospheric sciences 0405 Oceanography

\*These are listed in

<http://www.abs.gov.au/ausstats/abs@.nsf/0/4AE1B46AE2048A28CA25741800044242?opendocument>

Attribution/IP(complete for data and software)	
<b>Owning Organisation</b>	CSIRO
<b>Collaborating Organisations</b>	CSIRO & ARCCSS
<b>Primary contact for this data</b>	Chloe Mackallah <a href="mailto:access_csiro@csiro.au">access_csiro@csiro.au</a> , <a href="mailto:chloe.mackallah@csiro.au">chloe.mackallah@csiro.au</a>
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<b>Contributors</b>	CSIRO coupled modelling team & ARCCSS
<b>Access</b>	Publicly available at NCI's ESGF Node ( <a href="https://esgf.nci.org.au">https://esgf.nci.org.au</a> )
<b>Licencing</b>	CC BY-SA 4.0 Consult <a href="https://pcmdi.llnl.gov/CMIP6/TermsOfUse">https://pcmdi.llnl.gov/CMIP6/TermsOfUse</a> for terms of use governing CMIP6 output, including citation requirements and proper acknowledgment.

Related Materials. Publications, tools, websites, related input data. Please provide full citations for publications, data and software.	
Details	URL
ACCESS-CM2 model description paper	Bi D, Dix M, Marsland S, O'Farrell S, Sullivan A, Bodman R, Law R, Harman I, Srbinovsky J, Rashid H, Dobrohotoff, Mackallah C, Yan H, Hirst A, Savita A, Dias F, Woodhouse M, Fiedler R and Heerdegen A. 2020. Configuration and spin-up of ACCESS-CM2, the new generation Australian Community Climate and Earth System Simulator Coupled Model, <i>Journal of Southern Hemisphere Earth Systems Science</i> , 70 (1), <a href="https://doi.org/10.1071/ES19040">https://doi.org/10.1071/ES19040</a>
Local data copy at NCI on Gadi in project fs38	<a href="https://gadi.nci.org.au/g/data/fs38/publications/CMIP6/CMIP/CSIRO-ARCCSS/ACCESS-CM2">gadi.nci.org.au/g/data/fs38/publications/CMIP6/CMIP/CSIRO-ARCCSS/ACCESS-CM2</a>
Forcing data based on 'input4mips'	<a href="https://doi.org/10.22033/ESGF/input4MIPs.1118">https://doi.org/10.22033/ESGF/input4MIPs.1118</a> <a href="https://esgf-node.llnl.gov/projects/input4mips">https://esgf-node.llnl.gov/projects/input4mips</a>
Model configuration at Met Office Science Repository Service (MOSRS)	<a href="https://code.metoffice.gov.uk/trac/um">https://code.metoffice.gov.uk/trac/um</a>
CSIRO Research website for ACCESS	<a href="https://research.csiro.au/access/cmip6-submission/">https://research.csiro.au/access/cmip6-submission/</a>
DKRZ citation & DOI	<a href="https://cera-www.dkrz.de/WDCC/ui/cersearch/cmip6?input=CMIP6.CMIP.CSIRO-ARCCSS.ACCESS-CM2">https://cera-www.dkrz.de/WDCC/ui/cersearch/cmip6?input=CMIP6.CMIP.CSIRO-ARCCSS.ACCESS-CM2</a> <a href="https://doi.org/10.22033/ESGF/CMIP6.2281">https://doi.org/10.22033/ESGF/CMIP6.2281</a>
ES-DOC model documentation	<a href="https://github.com/ES-DOC-INSTITUTIONAL/csiro-arccss-bom/">https://github.com/ES-DOC-INSTITUTIONAL/csiro-arccss-bom/</a>
NCI Data Catalogue record	<a href="https://geonetwork.nci.org.au/geonetwork/srv/eng/catalog.search#/metadata/f1481_6421_2540_3569">https://geonetwork.nci.org.au/geonetwork/srv/eng/catalog.search#/metadata/f1481_6421_2540_3569</a>

Technical Details	
<b>For data:</b> <b>Total Size of this data collection</b>	18 TB
<b>For data:</b> <b>Total Number of Files</b>	9,038
<b>Current location of files (data or software)</b>	<a href="https://gadi.nci.org.au/g/data/fs38/publications/CMIP6/CMIP/CSIRO-ARCCSS/ACCESS-CM2">gadi.nci.org.au/g/data/fs38/publications/CMIP6/CMIP/CSIRO-ARCCSS/ACCESS-CM2</a>
<b>Format(s)</b>	netCDF4
<b>Associated tool(s)/ Dependencies</b>	Rose and cylc, netCDF
<b>Proposed publication host</b>	NCI; Earth System Grid Federation (ESGF)