

Project details	
ESCC Project No. & Title(s)	5.2: Understanding climate variability and change – past, present and future
Project Leader(s)	Christine Chung (LCI) Pandora Hope (DCI)
Deliverable(s)	Research paper based on ACCESS-CM2j model experiments
Data/software Manager	Christine Chung

Research output data collection, tool or software URLs if applicable
Data located at NCI gdata drive and mass data storage

Description (complete for data, tools and software)	
Title	ACCESS-CM2j South Pacific experiment output
Description	Coupled model output from South Pacific clamping experiments (aa848 – control run, aa841 – experiment run)
Temporal & spatial extent	Global, 400 years per run.
Lineage	Control run initialised from run bb275
Credit	
Keywords	
ABS Fields of Research Category / Subcategory*	37 Earth Sciences 3701 Atmospheric sciences 3702 Climate change science 3708 Oceanography

*These are listed in <https://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/1297.02020?OpenDocument>

Attribution/IP (complete for data, tools and software)	
Owning organisation	Bureau of Meteorology
Collaborating organisations	CSIRO
Primary contact for this data	Christine Chung christine.chung@bom.gov.au
Lead researcher	Christine Chung
Contributors	Arnold Sullivan (CSIRO)
Access	Available on request
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* Required field

Related materials: publications, tools, websites, related input data.	Full citations for publications, data and software.
Details	URL
Chung, C.T.Y., Power, S.B., Sullivan, A. <i>et al.</i> The role of the South Pacific in modulating Tropical Pacific variability. <i>Sci Rep</i> 9, 18311 (2019). https://doi.org/10.1038/s41598-019-52805-2 Note on analysis software: Analysis code is located at https://git.nci.org.au/cxc548/clamping-code All code is available upon request.	https://www.nature.com/articles/s41598-019-52805-2#citeas
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), https://doi.org/10.1071/ES19040
Local data copy at NCI on Gadi in project fs38	gadi.nci.org.au/g/data/fs38/publications/CMIP6/CMIP/CSIRO-ARCCSS/ACCESS-CM2
Forcing data based on 'input4mips'	https://doi.org/10.22033/ESGF/input4MIPs.1118 https://esgf-node.llnl.gov/projects/input4mips
Model configuration at Met Office Science Repository Service (MOSRS)	https://code.metoffice.gov.uk/trac/um
CSIRO Research website for ACCESS	https://research.csiro.au/access/cmip6-submission/
DKRZ citation & DOI	https://cera-www.dkrz.de/WDCC/ui/ceraresearch/cmip6?input=CMIP6.CMIP.CSIRO-ARCCSS.ACCESS-CM2 https://doi.org/10.22033/ESGF/CMIP6.2281
ES-DOC model documentation	https://github.com/ES-DOC-INSTITUTIONAL/csiro-arccss-bom/
NCI Data Catalogue record	https://geonetwork.nci.org.au/geonetwork/srv/eng/catalog.search#/metadata/f1481_6421_2540_3569

Technical details	
For data: Total size of this data collection	ACCESS-CM2j experiment output (aa841 and aa848) 10.5TB
For data: Total number of files	ACCESS-CM2j experiment output (aa841 and aa848) 50 tar, gzipped files
Current location of files (data or software)	On MDSS (project eg3) /massdata/eg3/cchung/aa841 And /massdata/eg3/ cchung/aa848
Format(s)	netCDF4
Associated tool(s)/dependencies	netCDF
Proposed publication host	NCI

Project details	
ESCC Project No. & Title(s)	5.2 Understanding climate variability and change – past, present and future
Project Leader(s)	Christine Chung
Deliverable(s)	Dataset
Data/software Manager	Christine Chung

Research Output data collection, tools or software URLs if applicable
Regridded CMIP5/6 monthly datasets

Description (complete for data, tools or software)	
Title	Regridded CMIP5/6 monthly datasets
Description	This dataset contains regridded monthly fields of Global Climate models outputs on a common grid to facilitate intercomparison studies. The dataset includes CMIP5 regridded outputs previously used for the AR5 report which continue to be used for research in the Australian community. The newer CMIP6 dataset is in progress and will be added to progressively. This project collects the above datasets to provide good access for Australian researchers.
Temporal & spatial extent	Global, 1880-2100
Lineage	Coupled Model Intercomparison Project Phase 6 (CMIP6) Coupled Model Intercomparison Project Phase 5 (CMIP5)
Credit	Code was developed by Francois Delage and Sugata Narsey. Acknowledgment to NCAR who developed intake-esm that we used to catalog the CMIP archive and to the National Computing Infrastructure (NCI) for managing the multi-petabyte CMIP archive.
Keywords	CMIP5, CMIP6, regridding, lp01
ABS Fields of Research Category / Subcategory*	04 Earth Sciences 0401 Atmospheric sciences

*These are listed in <https://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/1297.02020?OpenDocument>

Attribution/IP(complete for data and software)	
Owning Organisation	Bureau of Meteorology
Collaborating Organisations	CSIRO, NCI
Primary contact for this data	Francois Delage francois.delage@bom.gov.au
Lead Researcher	As above
Contributors	Francois Delage Sugata Narsey sugata.narsey@bom.gov.au
Access	This dataset is available at the National Computing Infrastructure (NCI) under the lp01 project.
*Licencing	Consult https://pcmdi.llnl.gov/mips/cmip5/terms-of-use.html for terms of use governing CMIP5 output, including citation requirements and proper acknowledgment. Consult https://pcmdi.llnl.gov/CMIP6/TermsOfUse for terms of use governing CMIP6 output, including citation requirements and proper acknowledgment.

* Required field

Related Materials. Publications, tools, websites, related input data.	Full citations for publications, data and software.
Details	URL
N/A	N/A

Technical Details	
For data: Total Size of this data collection	0.5 TB
For data: Total Number of Files	2000
Current location of files (data or software)	NCI
Format(s)	netCDF
Associated tool(s)/ Dependencies	N/A
Proposed publication host	N/A