

CMIP Community next steps survey

1. CMIP6 simulations

The purpose of this survey is to solicit community lessons from the 6th phase of CMIP, looking forward to future phases.

Click 'Next' at the end of the page to submit responses. Responses can be edited at any time by reloading the survey URL into your browser.

Page 1 requests basic respondent information

Pages 2 to 5 take a look at lessons learned from CMIP6

Pages 6 to 9 take a forward view.

The survey will take around 10-20 minutes to complete. Responses can be edited at any time, and there is no obligation to complete all sections.

A short introduction to the survey from the CMIP team, together with the WMO privacy policy can be viewed at <https://www.wcrp-climate.org/cmip-survey>

* Name

* Institution

* Country

* Contact Email

* Are you responding on behalf of an institution or group, or as an individual?

Individual

Institution (please give name / affiliation)

DECK runs : Design and formulation.

Please describe: What went well, what went not so well, and indicate suggestions for improvement

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MIPs. Design and formulation.

Which MIP(s) did you interact with? (tick all that apply)

- AerChemMIP
- C4MIP
- CDRMIP
- CFMIP
- DAMIP
- DCPD
- FAFMIP
- GeoMIP
- GMMIP
- HighResMIP
- ISMIP6
- LS3MIP
- LUMIP
- OMIP
- PAMIP
- PMIP
- RFMIP
- ScenarioMIP
- VolMIP
- CORDEX
- DynVarMIP
- SIMIP
- VIACS AB
- None of the above

MIPs. Design and formulation.

How satisfied were you with the following in CMIP6?

	Very dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied	N/A
Formulation: Do the MIPs address the scientific priorities and goals of the community?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proposal mechanism for MIPs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design mechanism for individual MIPs (please specify MIPs below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of MIPs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Variables included as core variables (over all MIPs you interacted with)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mechanism for later additions, e.g. Covid MIP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

MIPs. Design and formulation.

Please describe: What went well, what went not-so-well, and indicate suggestions for improvement. Input on specific or multiple MIPs welcome

Overall Structure (DECK + MIPs). Design and formulation.

How satisfied were you with the following in CMIP6?

	Very dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied	N/A
Overall scientific focus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Size and scale	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Timing with respect to other international activities (e.g. IPCC)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Division between DECK and MIP experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Overall Design and formulation. Please describe: What went well, what went not-so-well, and indicate suggestions for improvement.

How did you determine your involvement in / usage of CMIP6 beyond the core DECK experiments (PIControl, AMIP, 1pct CO2, abrupt 4xCO2, historical)?

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3. Input4MIPs

Please briefly describe how you interacted with Input4MIPs (data provider, modelling centre, etc.)

How satisfied were you with the following?

	Very dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied	N/A
Format expectations INTO Input4MIPS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Format consistency and utility for USERS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Timeliness of data availability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data completeness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication of updates and errata	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Were Input4MIPS data easy to access?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Input4MIPS. Please describe: What went well, what went not-so-well, and indicate suggestions for improvement.

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4. Output data : distribution, access and tools

Remote analysis platforms, web services, and community analysis tools have all become prominent features of CMIP6. This page seeks to understand how access and analysis of CMIP data occurs currently, and how we might plan for the future.

Please briefly describe how you accessed and analysed CMIP6 data (e.g. ESGF node, remote or local analysis, etc.)

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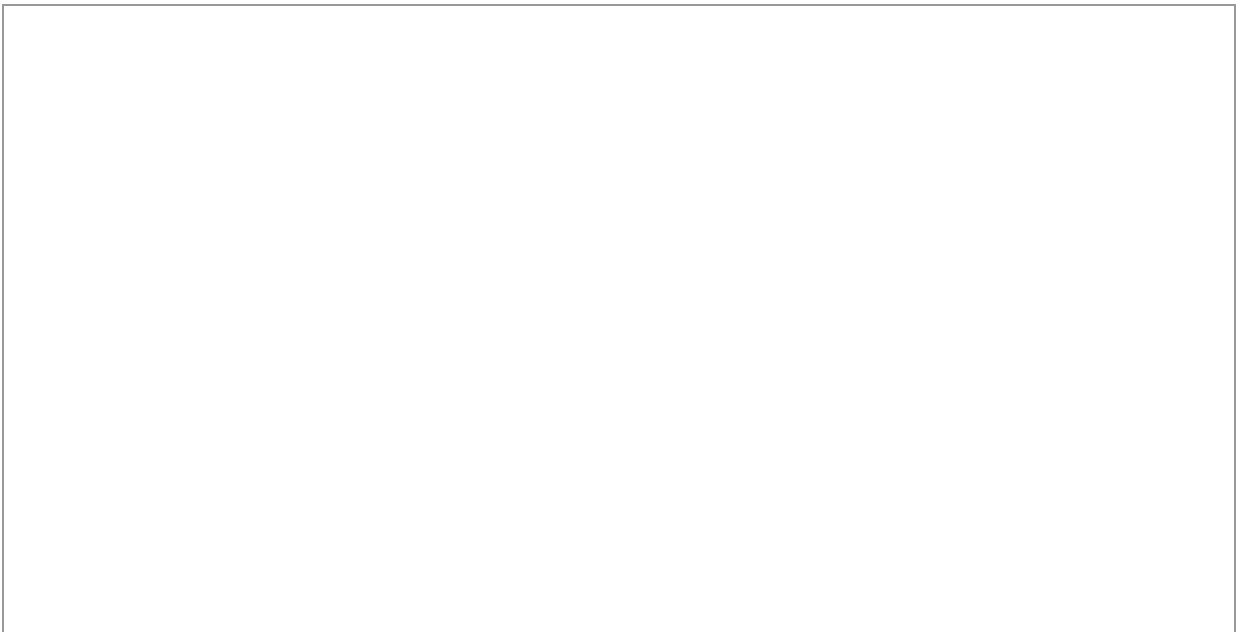
Which of the following (if any), did you use to access data?

- apcc21.org
- bcc.cma.cn
- camscma.cn
- CEDA/JASMIN ceda.ac.uk
- cinceca.it
- cmcc.it
- csc.fi
- diasjp.net
- DRKZ CMIP Data Pool drkz.de
- ec.gc.ca
- fio.org.cn
- gfdl.noaa.gov
- PANGEO (GFDL/Amazon cloud)
- ichec.ie
- IPSL ciclad
- lasg.ac.cn
- nccs.nasa.gov
- NCI nci.org.au
- nird.sigma2.no
- nsc.lui.se
- pknu.ac.kr
- rcec.sinica.edu.tw
- snu.ac.kr
- tropmet.res.in
- ucar.edu GLADE
- umr-cnrm.fr
- Other (please specify)

Please give a brief overview of any community tools or analysis platforms used, and their interface (if any) to CMIP. How central were they to your analysis? Could there be derived benefit from closer collaboration?



Data distribution and access. Please describe: What went well, what went not-so-well, and indicate suggestions for improvement.



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5. Documentation and Data Standards

Documentation includes but is not limited to: Experiment and model design and set up, data standards, MIP documentation, both in the published literature, and via online tools such as ES-DOC.

Data standards: Please include comments on any aspects of data conventions and compliance. This includes but is by no means limited to overall conformance to CMIP6 Global Attributes, filenames, directory structure etc. Within files, variable definitions, adherence to naming conventions, land/sea masks, timestamps etc.

Please indicate if you were involved in either production or use of experiment documentation, with a brief overview of context (specific models, etc.)

Were you able to find supporting information on any aspect of CMIP, when you needed it?

- Not at all
- Rarely
- Sometimes
- Often
- Always

What supporting information did you access, and via what platform or medium (e.g. published literature, online documentation such as ES-DOC)?

Were your needs met by the documentation? Did it tell you what you needed to know?

- Not at all
- Rarely
- Sometimes
- Often
- Always

Documentation. Please describe: What went well, what went not-so-well, and indicate suggestions for improvement.

Data Standards and compliance to data conventions


	Strongly disagree	Disagree	Neutral	Agree	Strongly agree	N/A
Were data standards clearly defined?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Was compliance to data standards sufficient?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Data standards. Please describe: What went well, what went not-so-well, and indicate suggestions for improvement.

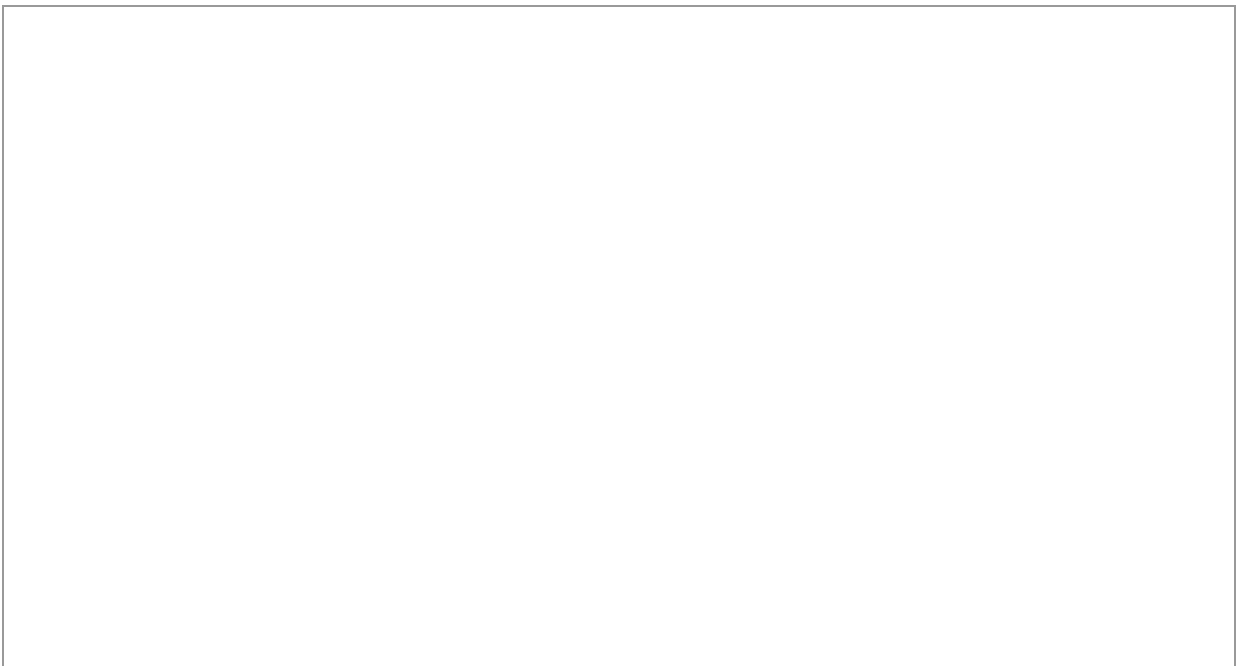
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6. Looking forward: Next steps

How critical to your institution's mission, funding and/or internal or external priorities is participation in CMIP?



How important is it for each phase of CMIP to be aligned with the IPCC (or other assessment schedule)?



Are there aspects of CMIP - technical, infrastructure, data, organisational aspects - that might be useful to your research outside of the application to CMIP?

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7. Looking forward : Experimental design

If a new MIP were to be included, what theme(s) should be considered?

How would you decide on participation in new or ongoing MIPs in a new phase of CMIP? Should the number of MIPs be centrally managed / administered, or should CMIP focus on core questions and providing support for groups to organize their own MIPs?

How frequently should CMIP request to update?

	More frequent than annually	Annually	2 years	5 years	10 years	Other
Historical forcing data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Historical simulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scenario forcing data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scenario simulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

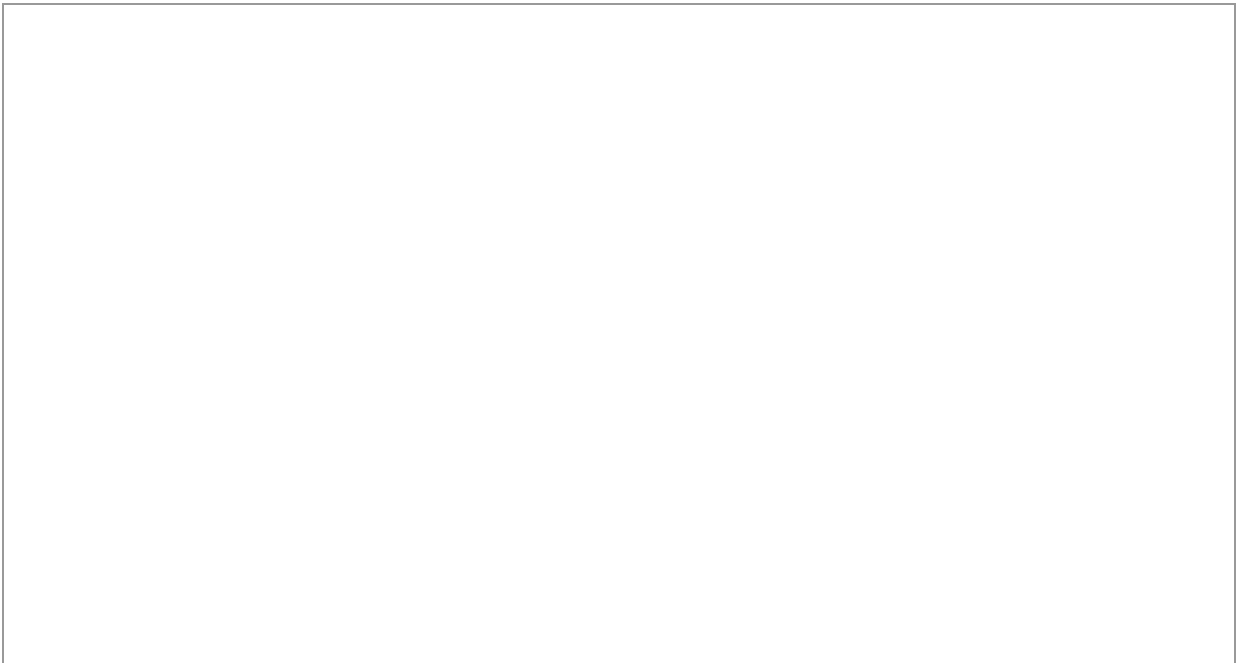
Other (please specify)

8. Looking forward: Wishlist

What would you take forward from CMIP6, 5 etc., and what would you leave behind?



What, to you, could be the purposes of CMIP? How can they be effectively realised? (special interest experiments, model intercomparison, IPCC, etc.)



What would you prioritise for CMIP7?

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9. Additional thoughts and comments welcome

Please add any comments that you may have