

# Past2Future: insights from a constantly varying past workshop

**University College London (13-17th May 2019)**

*A small workshop organised on behalf of PMIP4, which we've imaginatively decided to also call "Past2Future: insights from a constantly varying past". It will be focused on analysing the PMIP4/CMIP6 simulations and providing some preliminary multi-model, multi-period results on IPCC timescales. It will be Hosted in London with Chris Brierley as the local organiser.*

## Background

PMIP4/CMIP6 is using the same models to simulate several past climates, as well as the future. This gives us the possibility of using the past climate responses to provide quantitative insights into the projections: either through exploration and testing of the mechanisms, or as observational constraints. With the availability of the new iteration of past and future simulations, there is a need to focus on the application and expansion of these methods.

## Objectives

- Accelerate efforts to perform multi-model, multi-period research on CMIP6/PMIP4
- Update PMIP3 analyses
- Provide a collaborative space for writing timely outputs (esp. given upcoming IPCC deadlines)

## Outline of Workshop

### Schedule

|              | Monday                   | Tuesday                                    | Wednesday                        | Thursday                         | Friday           |
|--------------|--------------------------|--|----------------------------------|----------------------------------|------------------|
| 9 am         |                          | Logistics for analyses                     | Group work                       | Group analyses                   | Overall thoughts |
| 10 am        | Welcome                  | Potential issues                           | Devise initial tests             | Group analyses                   | Discussion       |
|              | Coffee                   | Coffee                                     | Coffee                           | Coffee                           | Coffee           |
| 11 am        | Wider context            | Poster Session                             | Tackle proof of concept analysis | Finish off analyses              | Future actions   |
|              | Lunch                    | Lunch                                      | Lunch                            | Lunch                            | Lunch            |
| 2 pm         | Assets and tools         | Sharing of ideas for potential analyses    | Time off                         | Creation of group presentations  | Say goodbyes     |
|              | Coffee                   | Coffee                                     | Time off                         | Coffee                           |                  |
| 3:30-5:30 pm | Possible research topics | Coalesce into groups for targeted analyses | Time off                         | Presentations of initial results |                  |

## Sessions with presentations

### Wider Context

- PMIP4 and its current status
- IPCC AR6, and other palaeoclimate initiatives (Darrell Kaufman)

### Assets and tools

- Available data (Sandy Harrison)
- Statistical approaches (James Annan)
- Long transient runs (Pascale Braconnot)

### Possible research topics

- Climate Sensitivity (Jules Hargreaves)
- Monsoons (Pedro Dias)
- Variability (Kira Rehfeld)
- AMOC (David Thornalley)
- ENSO (?)

### Logistics of analyses

- Outstanding methodological issues (e.g. seasonality)
- Introduction to UCL cluster
- porting of non-CMIP6/CMORized data onto it

## Logistics

### Workshop dates/time

10am Monday 13th May 2019 - 2pm Friday 17th May 2019

### Accommodation

London has a silly quantity of hotels. The [Wesley hotel](#) is probably the one which is the shortest walk from the workshop venue. The public transport system in London is pretty effective, and you will find cheaper accommodation slightly further out (say through AirBnB). London travel is cheapest through an "Oyster Card", which you can buy in advance from [this link](#). You probably want to stay in Zones 1-2: the closest tube stops to UCL are Warren St and Euston Square.

## Costs

There is no registration fee and lunches during the workshop will be provided. Travel and accommodation to London is expensive enough.

## Abstract/Proposal submission

This is a small workshop, with at most 30 attendees, so we would like you to apply to attend. The workshop will have poster presentations combined with group-working. This application will therefore have two parts to it (a) an abstract of the research you'd like to present on your poster and (b) a couple of sentences about the questions you'd like to address during an initial analysis of the PMIP4 ensemble. These abstracts and proposals should be submitted by 1st February via an email to [Chris Brierley](#).

## Queries

Please email [Chris Brierley](#) for further details

## Probable Attendees

|                                | <b>Institution</b>        | <b>Country</b> |
|--------------------------------|---------------------------|----------------|
| <a href="#">Chris Brierley</a> | University College London | UK             |
| <b>Jules Hargreaves</b>        | BlueSkiesResearch         | Yorkshire      |
| <b>Pascale Braconnot</b>       | LSCE                      | France         |
| <b>Sandy Harrison</b>          | Reading                   | UK             |
| <b>Pearse Buchanan</b>         | Liverpool                 | UK             |
| <b>Julien Cretat</b>           | LSCE                      | FR             |
| <b>Nav Sagoo</b>               | Stockholm                 | SE             |
| <b>Martin Renoult</b>          | Stockholm                 | SE             |
| <b>Xiaoxu Shi</b>              | AWI                       | DE             |
| <b>James Annan</b>             | BlueSkiesResearch         | Yorkshire      |
| <b>Juan Lora</b>               | Yale                      | US             |
| <b>Johann Jungclaus</b>        | MPI                       | DE             |
| <b>Darrell Kaufman</b>         | N. Arizona Uni.           | US             |
| <b>Roberta D'Agostina</b>      | MPI                       | DE             |
| <b>Stergios Misios</b>         | Oxford                    | UK             |
| <b>Kira Rehfeld</b>            | Heidelberg                | DE             |
| <b>Charlie Williams</b>        | Reading                   | UK             |
| <b>Raphael Hebert</b>          | AWI                       | DE             |
| <b>Pedro Dias</b>              | Sao Paulo                 | BR             |
| <b>Bruno Turcq</b>             | IRD                       | FR             |
| <b>Marcus Lofverstrom</b>      | U. Arizona                | US             |

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