

## “DeepMIP”

### Deep-time Model Intercomparison Project

# Working groups

DeepMIP has a very strong bottom-up component, with individual researchers using the DeepMIP framework to leverage funds, and to guide the direction of the group. However, there is some coordination of efforts.

DeepMIP is organised into working groups, which will be overseen by the Steering Committee.

Working groups have initially been set up for palaeogeographies, marine data, terrestrial data, carbon cycle, and modelling. Other working groups may emerge over time. The working groups ensure, for example, that methodologies are consistent across proxies, and across models.

Each working group has two or more overall coordinators, who will liaise with the Steering Committee, plus perhaps individuals leading specific efforts (e.g. for each proxy within the marine data working group). All working groups will have at least one modeller and one data person involved.

All members of DeepMIP are encouraged to join the various working groups. Below are listed the coordinators of each working group, their ultimate goals, their initial membership (\*\* = coordinators), and initial questions which need to be addressed by each group.

#### **Steering Committee:**

**Lunt, Donnadieu, Hollis, Huber, Otto-Bliesner, Zachos**

#### **Working Groups [coordinators]**

**Modelling [Huber, Lunt]**

**Palaeogeography [von de Heydt, Markwick]**

**Carbon cycle [Donnadieu, Foster]**

**Marine data [Dunkley Jones, Hollis, Lear, Zachos]**

**Terrestrial data [Salzmann, Wing]**

### **Working groups**

#### **Marine Working Group**

*Main goal:*

**To produce 3 online open-access marine Eocene datasets, with quantitative and qualitative assessment of uncertainties, made up of existing and new data for the following time periods:**

**(a) EECO (~53 – 50 Ma)**

**(b) Pre-PETM (~0.5 Ma prior to onset of carbon isotope excursion, e.g. 56.4-55.9 Ma)**

**(c) Core CIE PETM (~0.05 Ma duration, e.g. 55.9-55.85 Ma)**

*Initial tasks:*

- *Review the text in the experimental design paper regarding proxy data (Section 6)*
- *Collation of main pre-existing marine records into an initial version 0.1 database*
- *Formally define start and end point of each period (in consultation with terrestrial group).*

Tom Dunkley Jones \*\*

Chris Hollis \*\*

Carrie Lear \*\*

Jim Zachos \*\*

Paul Pearson

Bridget Wade

Reinhard Kozdon

David Evans

James Super

Kate Littler

Aradhna Tripathi

Sandy Kirtland Turner

Jess Tierney

Appy Sluijs

Richard Zeebe

Gavin Foster

Steve Bohaty

Eleni Anagnostou

Kirsty Edgar

Richard Zeebe

Ellen Thomas

Rich Pancost

Dan Lunt

Nele Meckler

Petra Langebroek

### Terrestrial Working Group

*Main goal:*

**To produce an online open-access terrestrial Eocene dataset, with quantitative and qualitative assessment of uncertainties, made up of existing (and some new) data for the following time periods:**

**(a) EECO (~53 – 50 Ma)**

*Initial tasks:*

- *Review the text in the experimental design paper regarding proxy data (Section 6)*
- *Collation of main pre-existing terrestrial records into an initial version 0.1 database*
- *Formally define start and end point of each period (in consultation with marine group).*

Ulrich Salzmann \*\*

Scott Wing \*\*

Katie Snell

Gary Upchurch

Srinath Krishnan

James Super

Liz Kennedy  
Aradhna Tripathi  
Alexis Licht  
Rich Pancost  
David Naafs  
Dan Lunt

### Modelling Working Group

*Main goal:*

**To carry out the model simulations in DeepMIP.**

*Initial tasks:*

- *Review the experimental design paper*

All modellers

### Paleogeography Working group

*Main goal:*

**To advise on issues related to the paleogeographies in DeepMIP, and to encourage the development of new paleogeographies if appropriate.**

*Initial tasks:*

- *Review the text in the experimental design paper regarding paleogeographies (Section 4.2.1; Section 5.2)*

Anna von der Heydt \*\*

Paul Markwick \*\*

Nicky Wright

Michiel Baatsen

Matt Huber

Chris Hollis

Bette Otto-Bliesner

Alexis Licht

Dan Lunt

### Carbon Cycle

*Main goal:*

**To advise on issues related to the carbon cycle in DeepMIP, and to encourage the development of new greenhouse gas concentration data if appropriate.**

*Initial tasks:*

- *Review the text in the experimental design paper regarding CO<sub>2</sub> and CH<sub>4</sub> (Section 4.2.3; Section 5.1)*

Yannick Donnadieu \*\*

Gavin Foster \*\*

Richard Zeebe

Eleni Anagnostou

Richard Zeebe

Dan Lunt