

Lab-class with the Monash Simple Climate Model

Aim:

Gain understanding in how the climate system responds to increased greenhouse gasses. To achieve this, we first gain some insights in how the climate system works and what are the main elements of the climate. We focus here only on mean surface temperature.

Source: monash.edu/research/simple-climate-model

Task 1: Mean Climate

- **Source:** “Deconstruct the Mean Climate” interface
- Play around and get familiar with the processes controlling the climate.
- Start with the **basic version** and then go to the **standard**.

Task 2: Test your knowledge about the Mean Climate

- **Source:** “Puzzles” interface
- Solve the puzzle “climate elements”. Both on beginner and intermediate level.
- Solve the puzzles “Lost in space” and “Terraforming”.

Task 3: Climate Change Response

- **Source:** “Deconstruct the response to 2cCO₂” interface
- Play around and get familiar with the processes controlling the climate change response.
- Start with the **basic version** and then go to the **standard**.

Task 4: Test your knowledge about the Climate Change response

- **Source:** “Puzzles” interface
- Solve the puzzle “Climate change processes”.

After each task we will come together and discuss results and questions.