

Climate-carbon cycle interactions

09.00 – 09.15

Committed ecosystem change due to climate change

Chris Jones, Jason Lowe, Spencer Liddicoat, Richard Betts (Exeter/UK)

09.15 – 09.30

Impacts of terrestrial N dynamics on the evolution of atmospheric CO₂ concentrations in the 21st century

Sönke Zaehle (Jena/DE), Peter. E. Thornton (Oak Ridge/US)

09.30 – 09.45

Benchmarking coupled climate-carbon models against long-term atmospheric CO₂ measurements

Patricia Cadule (Gif-sur-Yvette, Paris/F), Pierre Friedlingstein (Gif-sur-Yvette/F, Bristol/UK), Laurent Bopp (Gif-sur-Yvette/F), Stephen Sitch (Leeds, Wallingford/UK), Chris Jones (Exeter/UK), Philippe Ciais (Gif-sur-Yvette/F), Shilong Piao (Beijing/CN), Philippe Peylin (Thiverval-Grignon/F)

09.45 – 10.00

Climate-methane feedback from wetlands and permafrost and its interaction with the climate-carbon cycle feedback

Bruno Ringeval, Pierre Friedlingstein, Charles Koven (Gif-Sur-Yvette/F), Patricia Cadule (Gif-Sur-Yvette, Paris/F), Philippe Ciais, Nathalie De Noblet (Gif-Sur-Yvette/F)

11.30 – 11.45

When is the Permafrost Carbon Tipping Point?

Kevin Schaefer, Tingjun Zhang, Lori Bruhwiler (Boulder/US)

11.45 – 12.00

Quantifying and ranking vulnerabilities in the carbon-climate-human system

Mike Raupach (Black Mountain/US), Philippe Ciais, Pierre Friedlingstein, Peter Rayner (Gif Sur Yvette/F), Pep Canadell (Black Mountain/US)

12.00 – 12.15

A model intercomparison of the climate-carbon cycle feedback from the global ocean: Regional feedback analyses and mechanisms.

Tilla Roy, Laurent Bopp, Patricia Cadule (Gif sur Yvette/F), Thomas Froelicher (Bern/CH), Marion Gehlen (Gif sur Yvette/F), Christoph Heinze (Bergen/NO), Fortunat Joos, (Bern/CH), Birgit Schneider (Kiel/DE), Joachim Segschneider (Hamburg/DE), Jerry Tjiputra (Bergen, NO)

12.15 – 12.30

The impact of stratospheric ozone depletion and recovery on oceanic carbon uptake

Andrew Lenton, Francis Codron (Paris/F), Laurent Bopp (Gif-sur-Yvette/F), Alessandro Tagliabue, Nicolas Metzl (Paris/F)