



COMBINE FINAL GENERAL ASSEMBLY
2-4 October 2013
Wageningen University and Research Centre - Atlas Building

2 October 2013 (Wednesday)

8:00 – 9:00 Registration

9:00 – 9:20 Opening

9:20 – 10:00 Clouds, Aerosol & Chemistry (WP2) – *Chair: Ganzeveld*

- **Lohmann:** Aerosols, clouds and climate: News from IPCC-AR5

10:00 – 10:30 coffee/tea

10:30 – 12:00 Aerosols, Climate & Radiative Feedbacks (WP2 & WP7)

– *Chair: Jones*

- 10:30 – 11:00 **Ganzeveld:** On the role of hydrological processes in assessing atmospheric chemistry-vegetation interactions
- 11:00 – 11:30 **Balkanski:** The introduction of aerosols and their effects in the IPSL Earth System Model
- 11:30 – 12:00 **Dufresne & Giorgetta:** Uncertainties in modeled climate sensitivity and feedbacks

12:00 – 13:00 lunch

13:00 – 14:00 Synthesis: Achievements, legacy and open questions

What's next: Discussion on the need for improvement of climate models for vulnerability and impact assessments – *Chair: Ludwig*

- Vision from the climate model community – **Chris Jones**

14:00 – 15:00 Scenarios & Impacts (WP8) – *Chair: Schaldach*

- 14:00 – 14:30 **van Vuuren:** New climate policy scenarios focusing on feedbacks
- 14:30 – 15:00 **Lange:** Investigating the effect of climatic extremes on wheat yield in the Mediterranean countries

15:00 – 15:30 coffee/tea

15:30 – 17:00 Work Blocks

- **Work block on WP8, on finishing deliverables D8.1 to D8.7**
- **Work block on WP1 to WP7 deliverables, Stream 2 runs [Table 1 of D7.4 and tables in M6.3&4] & Project Reporting.**

17:00 – 19:00 Posters and Reception

3 October 2013 (Thursday)

8:00 – 9:00 Registration

9:00 – 10:00 Cryosphere & Feedbacks (WP4, WP7) – *Chair: Yang*

- 9:00 – 9:30 **Massonnet**: Modelling recent and future sea ice changes: An assessment of CMIP5/COMBINE results
- 9:30 – 10:00 **Rodehacke**: Multi-model simulations of the Greenland ice sheet in COMBINE

10:00 – 10:20 *coffee/tea*

10:20 – 11:20 Stratosphere (WP3) – *Chair: Hardiman*

- 10:20 – 10:50 **Krismer**: The Quasi-Biennial Oscillation in CMIP5 models
- 10:50 – 11:20 **Cagnazzo**: Role of stratospheric dynamics in the ozone–carbon connection in the Southern Hemisphere

11:20 – 12:00 Climate Prediction & Initialization (WP6 & WP5) – *Chair: Smith*

- **Doblas-Reye**: Dynamical decadal prediction: From CMIP5 to CMI

12:00 – 13:00 *lunch*

13:00 – 14:30 Climate Prediction & Initialization (WP6 & WP5) – *Chair: Haarsma*

- 13:00 – 13:30 **Smith**: Initialization for decadal prediction
- 13:30 – 14:00 **Salas-y-Méllia**: Seaice initialization and predictability
- 14:00 – 14:30 **Van den Hurk**: Impact of dynamic vegetation on decadal prediction skill

14:30 – 14:50 *coffee/tea*

14:50 – 15:50 Regional Impacts (WP8) – *Chair: Lange*

- 14:50 – 15:20 **Sampaio**: Impacts of deforestation, global climate change and fire on the future biomes distribution and climate in Amazonia
- 15:20 – 15:50 **Koenigk**: Arctic climate change in an ensemble of future scenario simulations with the regional models RCA and RCO

16:00 – *Excursion to Blauwe Kamer and Diner at 't Veerhuis*

4 October 2013 (Friday)

8:00 – 9:00 Registration

9:00 – 10:40 Carbon, Nitrogen, Climate & Feedbacks (WP1 & WP7) – *Chair: Heinze*

- 9:00 – 9:40 **Zaehle**: Nitrogen constraints on terrestrial carbon cycle trajectories, and their likely effect on CMIP5 projections
- 9:40 – 10:10 **Schwinger**: Non-linearity of ocean carbon cycle feedbacks in CMIP5 models
- 10:10 – 10:40 **Kracher**: Feedbacks between climate, CO₂ and N₂O quantified by a fully coupled Earth system model

10:40 – 11:00 *coffee/tea*

- 11:00 – 12:00 Global Impacts (WP8) – *Chair: Schüngel*
- 11:00 – 11:30 **Schadlach**: Modeling the effects of climate change on global water availability and irrigation agriculture
 - 11:30 – 12:00 **Supit**: Climate change impacts on future meteorological and hydrological extremes
- 12:00 – 13:00 Synthesis: Achievements, legacy and open questions
 What's next: Discussion on the need for improvement of climate models for vulnerability and impact assessments – *Chair: Giorgetta*
- Vision from the Impact, Vulnerability and Assessment (IVA) community – **Fulco Ludwig**
- 13:30 Close

POSTERS

- Bergman, T., R. Makkonen, A. Asmi, S. Smolander: The Process Based Emission Model of Isoprene and Monoterpen within ECHAM6-HAM
- Burke, E., P. Good, N. Gedney, A. Harper, C. Jones, S. Liddicoat, F. O'Connor, E. Robertson, A. Wiltshire: The implications of additional Carbon Cycle processes in the HadGEM2-ES Earth System Model.
- Caian, M., K. Wyser, T. Koenigk: Improving the phase for the anomaly initialisation of decadal predictions
- Caian, M., K. Wyser, E. Kjellstroem: Regional skills of extremes at decadal range
- Christiansen, B.: On the Holton-Tan relationship in the CMIP5 and CCMVal2 models.
- Hardiman, M., N. Butchart, N. Calvo: The morphology of the Brewer-Dobson circulation and its response to climate change in CMIP5 simulations
- Koutroulis, A.G., I. K. Tsanis: From event scale to centennial climate model runs with focus to small scale impact applications. An example for the island of Crete, Greece.
- Lecomte, O., T. Fichet, M. Vancoppenolle, F. Massonnet: Interactions between snow and melt ponds in sea ice models
- Sanchez-Gomez, E., C. Cassou, E. Fernandez, L. Terray: Analysis of the drift of the CNRM-CERFACS ESM used in decadal predictions
- Séférian, R., L. Bopp, M. Gehlen, D. Swingedouw, J. Mignot, E. Guilyardi, J. Servonnat, D. Salas-y-Méla, M. Chevallier: On the use of Earth System Models as forecasting tools for marine ecosystems: Case study of Marine Productivity in the Tropical Pacific