

**25.01.2011 (afternoon)**

|       |       |   |                                    |           |  |  |                      |
|-------|-------|---|------------------------------------|-----------|--|--|----------------------|
| 14:00 | 14:20 | Welcome   |                                    |           |  |  | convener             |
| 14:20 | 14:40 | 1 EMAC activities in the SATCHMO group at MPIC  | Lawrence, Mark                     | Overviews |  |  | Patrick Jöckel       |
| 14:40 | 15:00 | 2 EMAC at SimLab Climate and Environment  | Kirner, Ole                        |           |  |  |                      |
| 15:00 | 15:20 | 3 EMAC activities at FU-Berlin  | Meul, Stefanie                     |           |  |  |                      |
| 15:20 | 16:20 | coffee break  |                                    |           |  |  |                      |
| 16:20 | 16:40 | 4 EMAC - latest updates from the Aerosol Task Force at MPIC   | Tost, Holger                       | Aerosols  |  |  | Andreas Baumgaertner |
| 16:40 | 17:00 | 5 New ways to represent particle sedimentation in 3-D global model  | Benduhn, Francois                  |           |  |  |                      |
| 17:00 | 17:20 | 6 Direct aerosol radiative fluxes and heating rates. A sensitivity study using the EMAC chemistry-climate model | Giannadaki, Despina                |           |  |  |                      |
| 17:20 | 17:40 | 7 The EMAC aerosol submodel MADE: applications and further developments   | Hendricks, Johannes                |           |  |  |                      |
| 17:40 | 18:00 | 8 Development of a new dust module in the EMAC model – preliminary results                                      | Astitha, Marina / (Lelieveld, Jos) |           |  |  |                      |
| 18:30 |       | Departure to Hotel  |                                    |           |  |  |                      |
| 19:30 |       | Dinner  |                                    |           |  |  |                      |

**26.01.2011 (morning)**

|       |       |   |                 |                  |           |  |                   |
|-------|-------|---|-----------------|------------------|-----------|--|-------------------|
| 08:00 |       | Bus transfer to DLR   |                 |                  |           |  |                   |
| 09:00 | 09:20 | 9 Development Cycle 2 of the Modular Earth Submodel System      | Jöckel, Patrick | new developments |           |  | Hella Riede       |
| 09:20 | 09:40 | 10 Coupling MPIOM/HAMOCC to EMAC                                | Kern, Bastian   |                  |           |  |                   |
| 09:40 | 10:00 | 11 MESSy goes regional  | Kerkweg, Astrid |                  |           |  |                   |
| 10:00 | 10:20 | 12 Development of a Lagrangian Dynamical Core                   | Brinkop, Sabine |                  |           |  |                   |
| 10:20 | 11:20 | coffee break  |                 |                  |           |  |                   |
| 11:20 | 11:40 | 13 New features of the MECCA chemistry code                     | Sander, Rolf    | tropo            | diagr met |  | Simone Dietmüller |
| 11:40 | 12:00 | 14 -- cancelled --  | -- cancelled -- |                  |           |  |                   |
| 12:00 | 12:20 | 15 Simulating CO isotope chemistry in EMAC: updates and results | Gromov, Sergey  |                  |           |  |                   |
| 12:20 | 12:40 | 16 How to quantify contributions from emissions to species      | Grewe, Volker   |                  |           |  |                   |
| 12:40 | 14:00 | lunch break   |                 |                  |           |  |                   |

| 26.01.2011 |                     | (afternoon)     |  |                         |                            |                    |
|------------|---------------------|-----------------|--|-------------------------|----------------------------|--------------------|
| 14:00      | 14:20               | 17              | The Asian UTLS - observations and modelling of chemistry, transport, and mixing                                      | Riede, Hella            | tropospheric chemistry     | Volker Grewe       |
| 14:20      | 14:40               | 18              | Chemical Weather Forecast with EMAC  | Pankatz, Klaus          |                            |                    |
| 14:40      | 15:00               | 19              | Evaluation of tropospheric chemistry in a QCTM model simulation including plume studies                              | Righi, Mattia           |                            |                    |
| 15:00      | 15:20               | 20              | Mainz Isoprene Mechanism 3 (MIM3): development and impacts on the atmospheric composition of EMAC                    | Taraborrelli, Domenico  |                            |                    |
| 15:20      | 16:20               | coffee break    |  |                         |                            |                    |
| 16:20      | 16:40               | 21              | The thermosphere/ionosphere model CMAT2 in MESSy   | Baumgaertner, Andreas   | stratosphere and above     | Ole Kirner         |
| 16:40      | 17:00               | 22              | Energetic particle precipitation onto the middle and upper atmosphere, atmospheric temperature and dynamics          | Sinnhuber, Miriam       |                            |                    |
| 17:00      | 17:20               | 23              | EMAC simulations of the impact of oceanic/biogenic very short lived brominated substances on stratospheric chemistry | Sinnhuber, Björn-Martin |                            |                    |
| 17:20      | 17:40               | 24              | Stratospheric background and volcanic aerosol  | Brühl, Christoph        |                            |                    |
| 18:30      | Departure to Hotel  |                 |  |                         |                            |                    |
| 19:30      | Dinner              |                 |  |                         |                            |                    |
| 27.01.2011 |                     | (morning)       |  |                         |                            |                    |
| 08:00      | Bus transfer to DLR |                 |  |                         |                            |                    |
| 09:00      | 09:20               | 25              | Intercontinental Tracer Transport  | Christoudias, Theo      | towards longer time scales | Christine Frömming |
| 09:20      | 09:40               | 26              | Sensitivity of the Dust-Cycle in different Climate Epochs  | Gläser, Gregor          |                            |                    |
| 09:40      | 10:00               | 27              | Chemical feedbacks in climate sensitivity studies  | Dietmüller, Simone      |                            |                    |
| 10:00      | 10:20               | 28              | The effect of spectrally resolved irradiances at 2.5 Ga in the EMAC model with mixed layer ocean                     | Kunze, Markus           |                            |                    |
| 10:20      | 11:20               | coffee break    |  |                         |                            |                    |
| 11:20      | 11:40               | 29              | Obliquity studies related to the early Earth with EMAC-FUB   | Hamann-Reinus, Anke     | extra-terrestrial          | Christine Frömming |
| 11:40      | 12:00               | 30              | Stratospheric circulation patterns of an Earth-like extrasolar planet influenced by radiation of a K-type star       | Godolt, Mareike         |                            |                    |
| 12:00      | 12:40               | Closing remarks |  |                         |                            |                    |
| 12:40      | lunch break         |                 |  |                         |                            |                    |