

Transcom 2008 workshop program Utrecht, June 2-5

Monday, June 2

- 9:45-10:00 Arrival / Coffee & Tea
10:00-10:15 Welcome

Session: Transcom experiments

- 10:15-10:45 Shoichi Taguchi: "TransCom continuous experiment: Comparisons of radon concentrations at inland stations"
10:45-11:15 Christopher Pickett-Heaps: "Upper-Air Inter-comparison Project: Preliminary Results"
11:15-11:45 Shamil Maksyutov: "Satellite experiment progress report (including GOSAT research announcement)"
11:45-12:15 Discussion [GOSAT research announcement]

12:15-13:15 *Lunch*

13:15-13:45 Nicholas Parazoo: "A look at synoptic CO₂ in the midlatitudes and tropics using continuous CO₂ observations and Transcom continuous results"

Session: Inversion methodology / results

- 13:45-14:15 Anna Michalak: "Bridging across Spatial and Temporal Scales in Carbon Dioxide Flux Estimation through Geostatistical Analysis of Scale-Dependent Relationships Between Carbon Flux and Auxiliary Environmental Data"
14:15-14:45 Philippe Ciais: "Is the Transcom model ensemble representative of the uncertainty in CO₂ synoptic variability simulation?"

15:45-15:00 *Coffee/tea*

15:00-15:30 Peter Rayner: "On the analysis of residuals in CO₂ inversions"
15:30-16:00 Ravindra Lokupitiya: "Estimation of Carbon Fluxes by MLEF-PCTM Model for Years 2003 and 2004"
16:00-16:30 Andy Jacobson: "North American CO₂ Fluxes from CarbonTracker compared with a new synthesis of inverse models"
16:30-17:00 Discussion

Tuesday, June 3

Session: Meso scale transport

- 9:00-9:30 Christoph Gerbig: "The sub-grid scale: high resolution forward modelling with WRF-VPRM"
- 9:30-10:00 Dhanyalekshmi K Pillai: "Mesoscale transport of CO₂: comparison of WRF-VPRM with its Lagrangian counterpart STILT-VPRM"
- 10:00-10:30 Yuji Koyama: "High resolution simulation of the atmospheric greenhouse gases variability with a coupled Eulerian-Lagrangian transport model"
- 10:30-10:45 *Coffee/Tea*
- 10:45-11:15 Kristina Trusilova: "A coupled TM3-STILT atmospheric transport model for a high-resolution inversion of carbon fluxes over Europe"
- 11:15-11:45 Ravan Ahmadov: "Comparing high-resolution WRF-VPRM simulations with continuous observations from the CarboEurope Regional Experiment"
- 11:45-12:15 Alex Vermeulen: "Rn222 vertical gradient measurements and its use for transport model calibration"
- 12:15-13:45 *Lunch*
- 13:45-14:15 Jordi Vila: "What control the diurnal variability of carbon dioxide?"

Session: Combined Atmosphere - Ecosystem modelling

- 14:15-14:45 Ute Karstens: "Evaluation of terrestrial ecosystem models through a comparison of atmospheric CO₂"
- 14:45-15:15 Bakr Badawy: "Estimating CO₂ fluxes by coupling a simple diagnostic biosphere model into a global atmospheric inverse model"
- 15:15-15:30 *Coffee/Tea*
- 15:30-16:00 Feng Deng: "Atmospheric Carbon Dioxide Concentrations Simulated With a Terrestrial Ecosystem Model (BEPS) and an Atmospheric Transport Model (TM5)"
- 16:00-16:30 Wouter Peters: "CarbonTracker Europe results and the non steady-state biosphere"
- 16:30-17:00 Discussion

Evening program: canoeing to 'Pannekoekenhuis'

Wednesday, June 4

- 9:00-9:30 Y. Nakatsuka/Shamil Maksyutov: "Optimization of the terrestrial biospheric flux seasonality vs airborne profile data"
- 9:30-10:00 Frederick Chevallier: "Variational inversion of CO₂ surface fluxes: application to in situ data"
- 10:00-10:30 Discussion [Transcom inversion intercomparison, P. Peylin]
- 10:30-10:45 *Coffee/Tea*

Session: 'Other' trace gases

- 10:45-11:15 Lori Bruhwiler: "Carbontracker methane"
- 11:15-11:45 Jocelyn Turnbull: "¹⁴CO₂ as a diagnostic for vertical transport in atmospheric transport models"
- 11:45-12:15 Christian Roedenbeck: "Estimated interannual variability of O₂ and CO₂ fluxes"
- 12:15-13:45 *Lunch*
- 13:45-14:15 Zoe Loh: "Testing Lagrangian atmospheric dispersion modelling to monitor CO₂ and CH₄ leakages from geosequestration"

Session: Remote sensing

- 14:15-14:45 Anna Michalak: "NASA Active Sensing of CO₂ Emissions over Nights, Days, and Seasons (ASCENDS) Mission"
- 14:45-15:15 Hartmut Boesch: "Assessing the Capability to Constrain CO₂ Surface Fluxes from CO₂ Columns Observed by OCO (Orbiting Carbon Observatory) Instrument"
- 15:15-15:30 *Coffee/Tea*
- 15:30-16:00 Maarten Krol/Sander Houweling: "Inverse modelling of SCIAMACHY observed CH₄"
- 16:00-16:30 Richard Engelen: "Flux inversion of CO₂ using satellite data in a 2-step 4D-Var set-up: first results using AIRS data"
- 16:30-17:00 Discussion

Evening program: Climbing the Dom tower; workshop diner

Thursday, June 5

Excursion Cabauw Tower

8:30 Departure bus (location to be announced)
9:00-12:00 Cabauw Tower
12:30 Arrival Utrecht

12:30-13:30 Lunch

Session: Long range transport modelling

13:30-14:00 Frank Dentener: "Modelling of long-range transport of air pollution within the frame of the Task Force Hemispheric Air Pollution"
14:00-14:15 Arlene Fiore/Frank Dentener: "Constraining uncertainties in observed methane inter-annual variability: A proposal for multi-model decadal hindcast simulations"
14:15-14:45 Yosuke Niwa: "Tracer transport simulation by using NICAM"
14:45-15:15 Sara Mikaloff-Fletcher: "Latitudinal Gradients of Atmospheric Radiocarbon: A New Window onto Dynamical Controls of the Southern Ocean"

15:15-15:30 Coffee/Tea

15:30-16:00 Prabir Patra: "Global, regional and local scale transport of SF6 and CO2 in the troposphere"
16:00-16:30 Takashi Maki: "Greenhouse Gas Analysis Information by Japan Meteorological Agency"
16:30-17:00 Wrap up / Closing discussion