The Northern Hemispheric Carbon Sink
- Facts and Fiction -

Symposium program

Monday, May 29th

12:00-14:00	*Registration & sandwiches*
14:00-14:15	*Welcome & logistics*
14:15-15:00	**Martin Heimann** "On the history of the Northern Hemisphere sink"
15:00-15:30	**Peter Rayner** "Assessing the evidence for negative climate/carbon-cycle feedbacks in the Northern Hemisphere"
15:30-16:00	**Scott Denning** "The Northern Hemisphere carbon sink in the 21st century: Diagnosis and Prediction"
16:00-16:30	*Coffee break*
16:30-17:00	**Philippe Ciais** "A 50 years long NH sink analysis"
17:00-17:30	**Roger Francey** "The imprint of equatorial turbulence variations on background CO2 levels"
17:30-18:00	**Ralph Keeling** "Atmospheric evidence for increasing 13C discrimination of land photosynthesis"
18:00-18:15	Discussion I
18:15-19:30	*Buffet dinner*
19:30-20:30	Milestones in NH sink research
	Get-together - chat & relax

Tuesday, May 30th

09:00-09:30	**Dave Schimel** "The Northern Hemisphere and tropical sinks and carbon-climate feedbacks through the lens of OCO-2"
09:30-10:00	**Christian Rödenbeck** "Climatic control of interannual variations in the NH carbon sink quantified from atmospheric CO2 data"
10:00-10:30	**Andrew Watson** "Constraints from the ocean"
10:30-11:00	*Coffee break*
11:00-11:30	**Niki Gruber** "Recent variations and trends in theocean carbon sink: Implications for the land carbon sink"
11:30-12:00	**Laure Resplandy** "Redistribution of global carbon fluxes based on ocean heat constraints"
12:00-12:30	**Jorge Sarmiento** "The Southern Ocean carbon fluxes inferred from robotic floats, and how this may influence our understanding of NH carbon sinks"
12:30-13:30	*Lunch & Group photo*
13:30-14:00	**Douglas Wallace** "The breathing of the ocean in the Labrador Sea: Early results from a 'Deep Tower Observatory'"
14:00-14:30	**Fortunat Joos** "Carbon sinks: Insights from glacial-interglacial changes in N2O emissions and from observational constraints"
14:30-15:00	**Sue Trumbore** "Constraints on the NH carbon sink from 14C data"
15:00-15:30	Discussion II
15:30-16:00	*Coffee break + Posters*
16:00-16:30	**Heather Graven** "Exploring models of the global radiocarbon inventory in the terrestrial biosphere"
16:30-17:00	**Victor Brovkin** "Slow carbon sink processes in the northern high latitudes"
17:00-17:30	**Graham Farquhar** "A plant physiologist's view of the Dole Effect" or "The role of vegetation in the atmospheric sink for carbon dioxide"

Individual dinner (see e-mail by Martin)

Wednesday, May 31th

09:00-09:30	**Markus Reichstein** "Trends and variability in NH C-cycle: A bottom-up view"
09:30-10:00	**Peter Cox** "Emergent constraints on the sensitivity of the NH carbon sink to CO_2 and climate"
10:00-10:30	**David McGuire** "Progress towards understanding the magnitude of the permafrost carbon feedback"
10:30-11:00	*Coffee break*
11:00-11:30	**Steven Sitch** "Modelling northern hemispheric carbon sink using DGVMs: Lessons learnt from the Carbon Cycle Model Linkage Project and beyond"
11:30-12:00	Pierre Friedlingstein "History and future of the NH land sink"
12:00-12:30	Discussion: Future directions in NH sink research
12:30-13:15	*Lunch*
13:15-15:00	Guided tour through the institute (optional)
15:00	End of symposium

Max Planck Institute
for Biogeochemistry