

List of posters presented during the conference "Towards a Global Carbon Observing System: Progresses and Challenges" (alphabetical order)

Global Numerical Analysis and Prediction of CO₂ and CH₄ at ECMWF within the MACC-II project

A. Agusti-Panareda, S. Massart, F. Chevallier, P. Bergamaschi, R. Engelen, S. Boussetta, G. Balsamo, A. Beljaars, I. Aben, C. Crevoisier, O. Hasekamp, C. Frankenberg, R. Scheepmaker, J. Heymann, M. Reuter, M. Buchwitz

Global datasets on land carbon stocks and changes related to land use, fire, harvest, forest age and biomass

V. Avitabile, M. Herold, S. Begne, M. Kalomenopoulos, S. Lewis, E. Lindquist, D. McInerney, O. Phillips, B. Poulter, M. Santoro, B. Sonke, N. Tsendbazar, G. van der Werf, M. Williams

Improving tropical forest biomass mapping using a fusion approach

V. Avitabile, M. Herold, S. Lewis, O. Phillips, N. Aguilar-Amuchastegui, G. Asner, B. DeVries, R. Cazzolla Gatti, C. Girardin, B. de Jong, E. Klop, J. Lindsell, R. Lucas, Y. Malhi, A. Morel, E. Mitchard, X. Lin, D. Pandey, C. Ryan, M. Sales, M. Santoro, G. Vaglio Laurin, R. Valentini, S. Willcock, S. Piao, A. Wijaya

Carbon emissions from forest fires: monitoring, modelling, and inventory development

V. Bacciu, D. Spano, M. Salis

A first in-situ data based annually and seasonally resolved Methane Budget for the Amazon basin

L. Basso, L. Gatti, J. Miller, M. Gloor, C. Wilson, A. Martinewski, L. Domingues, C. Correia, V. Borges, A. Pretto, J. Izidoro, M. Chipperfield

Towards disentangling natural and anthropogenic GHG fluxes from space

H. Bovensmann, Team CarbonSat

The NASA Carbon Monitoring Flux Pilot Project as an Integrated Carbon Cycle Observational and Analysis System

K. Bowman, J. Liu, M. Lee, C. Frankenberg, D. Menemenlis, K. Gurney, H. Brix, C. Hill, S. Denning, K. Haynes, I. Baker, D. Henze, N. Bousseres, G. Marland, C. Badurek, E. Marland

The potential of current and future CO₂ atmospheric measurement networks for the estimation of CO₂ natural fluxes

G. Broquet, P. Peylin, B. Cedric, N. Kadygrov, F-M. Bréon, F. Chevallier, P. Ciais

Carbon Dynamics in the Sustainable Productivity and Environmental Rehabilitation on the Post Open Mining of Coal in Tropical Region .

K. Cahyono Agus, W. Dewi, Saridi, H. Doddy

Validation of TCCON observations of CO₂/CH₄/CO at Sodankylä using AirCore

Chen, B. Kers, W. Peters, J. Hatakka, T. Laurila, S. Houweling, R. Kivi

The evolving space-based CO₂ constellation: The CEOS Carbon Task Force Strategy

D. Crisp

Carbon budget for a newly flooded subtropical hydroelectric reservoir: Nam Theun 2, Lao PDR

C. Deshmukh, D. Serça, F. Guérin, V. Chanudet, S. Descloux, P. Guédant, A. Godon, S. Pighini, S. Audry, P. Oliva, J. Martinet

The Megacities Carbon Project

R. Duren, C. Miller, E. Kort, K. Gurney, R. Keeling, R. Weiss, M. Fischer, J. Whetstone

Recent decadal trends of land carbon sources and sinks at the regional scale from a joint ocean-atmosphere inversion

N. Gruber, K. Steinkamp

The AMIGO Instrument

W. Heaps

Estimating methane emissions from tropical wetlands using new tools for combining process understanding with atmospheric measurements

S. Houweling, B. Ringeval, A. Basu, L. Van Beek, P. Van Bodegom, R. Spahni, L. Gatti, M. Gloor, J. Miller, T. Roeckmann

Summary of the discussion on "CL-02 task in Japan" at JpGU session

H. Kondo

SPRUCE (Spruce and Peatland Responses Under Climatic and Environmental Change) experiment data infrastructure

M. Krassovski, T. Boden, P. Hanson, J. Riggs, W. R. Nettles, L. Hook

AIRS retrieved CO₂ and its association with climatic parameters over India during 2004-2011

R. Ravi Kumar, J. V. Revadekar, Y. K. Tiwari

The Integrated Carbon Observation System in Germany

W. L. Kutsch and ICOS-D team

Spatial and seasonal variability of CO₂ outgassing from rivers at the global scale

R. Lauerwald, G. Laruelle, J. Hartmann, P. Regnier

Impact of transport model errors on the global and regional methane emissions estimated by inverse modeling

R. Locatelli, P. Bousquet

Using satellite data to constrain plant phenology of the terrestrial biosphere model

ORCHIDEE

N. MacBean, F. Maignan, P. Peylin, C. Bacour

Soil Carbon Dioxide Efflux and The Impact of Logging in a 30 Years *Dipterocarpus Baudu* and *Verrucosus* Recovering Lowland Tropical Forest, Peninsular Malaysia

H. K. Mande, A. M. Ahmad, Z. A. Ahmad, A. N. Ahmad

Using a SVAT Model to Simulate Carbon Fluxes at Different Scales

S. Marras, R. D. Pyles, M. Falk, K. T. Paw U, R. L. Snyder, C. Sirca, D. Spano

Observing the Carbon Cycle from Geostationary Orbit

C. E. Miller, S. P. Sander, A. Eldering, D. Schimel, J. B. Fisher, M. Lee, R. M. Duren, A. Michalak, M. Hoffman, J. Orphal, A. Butz

Field results from three campaigns to validate the performance of the Miniaturized Laser Heterodyne Radiometer (mini-LHR) for measuring carbon dioxide and methane in the atmospheric column

J. H. Miller, G. Clarke, H. Melroy, L. Ott, E. Wilson

Long-term measurements of carbon budget in a cool-temperate deciduous forest ecosystem at Takayama in central Japan and their data analyses

S. Murayama, H. Kondo, N. Saigusa, S. Ishidoya, T. Maeda, T. Watanabe, S. Yamamoto, K. Kato, T. Shimosaka, N. Aoki, M. Ando

FLUXNET: challenges and activities for a global coordinated network of ecosystem fluxes measurements

D. Papale

20 years land carbon fluxes and stocks reanalysis from a Carbon Cycle Multi-Data Assimilation System using in-situ FluxNet, satellite NDVI, and atmospheric CO₂ observations to optimize a process-based

P. Peylin, N. MacBean, C. Bacour, S. Leonard, F. Maignan, S. Kuppel, F. Chevallier, P. Ciais, P. Cadule, P. Prunet, A. Klonecki

Optimizing the large-scale transport of a carbon cycle data assimilation model using sulfur hexafluoride

W. Peters, E. van der Veen, I. van der Laan-Luijkx, M. Krol, S. Basu, S. Houweling

Data management and global data products from ocean carbon observations: a community approach *B. Pfeil*

Monitoring of greenhouse gases using various earth observation platforms: Impacts of disturbance in tropical ecosystems in Asia

N. Saigusa, H. Mukai, Y. Nojiri, T. Machida, H. Tanimoto, T. Hirano

Constraining the land-surface scheme of the MPI Earth System Model with observations of net ecosystem exchange and CO₂ mixing ratios

G. Schürmann, C. Koestler, T. Kaminski, R. Giering, M. Scholze, N. Carvalhais, J. Kattge, M. Reichstein, D. Papale, C. Roedenbeck, R. Schnur, C. Reick, S. Zaehle

GOSAT-2 mission requirements and concepts

K. Shiomi, M. Nakajima, H. Suto, A. Kuze

Improving estimates of gross primary productivity by integrating in situ reflectance measurements

J. M. N. Silva, S. Cerasoli, N. Carvalhais, A. Correia, F. Costa e Silva, J. Santos Pereira

Carbon and Energy Monitoring in Typical Mediterranean Ecosystems

C. Sirca, S. Marras, P. Duce, A. Arca, P. Zara, D. Spano

Carbon observing systems in India

Y. K. Tiwari

CarbonTracker South America: comparison of model results to Amazonian CO₂ observations and initial carbon flux estimates

I. van der Laan-Luijkx, I. van der Velde, W. Peters, E. Gloor, L. Gatti, A. Martinewski, L. Domingues, J. Miller, T. van Leeuwen, G. van der Werf

Coupling of ecosystem-atmosphere fluxes and hydrometeorology under normal and extreme climate conditions: A novel extreme event detection framework.

J. von Buttlar, M. Mahecha, A. Rammig, J. Zscheischler, M. Reichstein, D. Papale

CASA modeling of CO₂ budgets across Russia with 1 km resolution

Y-R. Wang, G. Van der Werf, A. J. H. Dolman

Constrained terrestrial ecosystem carbon fluxes of North America with eddy flux and satellite data from 2001 to 2005

Q. Zhuang