

ICDC10 Poster Presentations (sorted by first author, 14 August 2017)

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|-------------------------|-----------------------|---|
| Poster Session 1 | Monday, 10:00-11:30 | Theme 1.1 (part 1): The Contemporary Carbon Cycle - Trends, Variability and Time of Emergence of Human Impacts |
| Poster Session 2 | Monday, 15:30-17:00 | Theme 1.1 (part 2): The Contemporary Carbon Cycle - Trends, Variability and Time of Emergence of Human Impacts |
| Poster Session 3 | Tuesday, 10:00-11:30 | Theme 1.2 (part 1): The Contemporary Carbon Cycle - Emerging Approaches and Novel Observation Techniques |
| Poster Session 4 | Tuesday, 15:30-17:00 | Theme 1.2 (part 2): The Contemporary Carbon Cycle - Emerging Approaches and Novel Observation Techniques |
| Poster Session 5 | Thursday, 9:50-11:10 | Theme 2: The Paleo Perspective: Patterns, Processes and Planetary Boundaries / Theme 4: Scenarios of the Future Earth and Steps toward Long-term Earth System Stability |
| Poster Session 6 | Thursday, 15:20-16:40 | Theme 3.1 (part 1): Biogeochemical Processes - Processes Understanding and Human Impacts |
| Poster Session 7 | Friday, 10:00-11:30 | Theme 3.1 (part 2): Biogeochemical Processes - Processes Understanding and Human Impacts / Theme 3.2: Biogeochemical Processes - Coping with Complexity |

| First Author (* if also presenting author) | Presenting Author (if other than first author) | Title | Poster Session | Theme | Poster board | Location |
|--|--|---|------------------|-----------|--------------|--------------|
| Adloff, Markus* | | Different carbon cycle sensitivities in transient simulations initialized from glacial and preindustrial conditions | Poster Session 5 | Theme 2 | 161 | Concert Hall |
| Adnew, Getachew Agmuas* | | Development of an automated system for high-precision determination of $\Delta 17O$ of carbon dioxide | Poster Session 6 | Theme 3.1 | 301 | Auditorium |
| Affolter, Stéphane* | | High altitude CO2 measurements at the Jungfrauoch (Switzerland): Comparison between the Sphinx (3570 m a.s.l.) and East Ridge (3690 m a.s.l.) | Poster Session 1 | Theme 1.1 | 1 | Concert Hall |
| Agusti-Panareda, Anna* | | On the benefits of using high resolution transport and fluxes to simulate atmospheric CO2 variability | Poster Session 1 | Theme 1.1 | 5 | Concert Hall |
| Andrews, Arlyn Elizabeth* | | Top-down constraints on the North American carbon cycle from the first ten years of the North American Carbon Program | Poster Session 3 | Theme 1.2 | 3 | Concert Hall |
| Androulakakis, Andreas* | | Sediment erosion as a component of the global Carbon cycle; assessing the sediment erosion fluxes at the European scale | Poster Session 6 | Theme 3.1 | 303 | Auditorium |
| Barningham, S. Thomas | Manning, Andrew C.* | Evidence for climate driven variability in the seasonal cycles of atmospheric O2 and CO2 from Weybourne Atmospheric Observatory, United Kingdom | Poster Session 1 | Theme 1.1 | 9 | Concert Hall |
| Basso, Luana | Gloor, Emanuel* | Amazon CH4 budget and its controls inferred from regular vertical profile sampling of the lower troposphere | Poster Session 6 | Theme 3.1 | 305 | Auditorium |
| Basu, Sourish* | | Quantifying Trends in Fossil Fuel CO2 Emissions Using Radiocarbon Measurements | Poster Session 3 | Theme 1.2 | 7 | Concert Hall |
| Battaglia, Gianna* | | Probabilistic assessment of the future marine carbon cycle, ocean deoxygenation and related feedbacks from marine N2O emissions | Poster Session 5 | Theme 4 | 354 | Auditorium |
| Battle, Mark Owen* | | Measurements of the O2/CO2 exchange ratio at Harvard Forest | Poster Session 6 | Theme 3.1 | 307 | Auditorium |
| Becker, Meike* | | Surface ocean fCO2 maps along the Norwegian coast | Poster Session 3 | Theme 1.2 | 11 | Concert Hall |
| Bent, Jonathan* | | The AirCore Sampler: data and software releases, and a new UAV-based sampling technique for quantifying CO2, CH4 and CO point sources | Poster Session 3 | Theme 1.2 | 15 | Concert Hall |
| Bereiter, Bernhard* | | Mean ocean temperature change during the last glacial transition | Poster Session 5 | Theme 2 | 166 | Concert Hall |
| Berthet, Sarah* | | Biogeochemical coarsening in a global 1/4° NEMO-PISCES numerical solution | Poster Session 7 | Theme 3.2 | 380 | Auditorium |
| Biraud, Sebastien* | | The AmeriFlux Network Management Project | Poster Session 1 | Theme 1.1 | 13 | Concert Hall |
| Bombelli, Antonio | Heiskanen, Jouni* | Towards policy-relevant global carbon cycle observation and analysis: The GEO Carbon and GHG Initiative | Poster Session 3 | Theme 1.2 | 19 | Concert Hall |
| Bopp, Laurent* | | The future ocean carbon sink: any role for a more complex biogeochemistry? | Poster Session 5 | Theme 4 | 357 | Auditorium |
| Borges, Viviane Francisca* | | Amazon Atlantic outflow region carbon cycling constrained by atmospheric greenhouse gas data | Poster Session 3 | Theme 1.2 | 23 | Concert Hall |
| Bousquet, Philippe | Saunois, Marielle* | The global methane budget 2000-2012. What's next? | Poster Session 1 | Theme 1.1 | 17 | Concert Hall |
| Bovensmann, Heinrich* | | Can passive remote sensing of atmospheric CO2 contribute to anthropogenic CO2 emission monitoring? | Poster Session 3 | Theme 1.2 | 27 | Concert Hall |
| Bowman, Kevin* | | Impact of the 2015 El Niño on the Indonesian carbon balance: implications for carbon mitigation | Poster Session 3 | Theme 1.2 | 31 | Concert Hall |
| Bowring, Simon P.K.* | | Pan-Arctic modeling of permafrost DOC and its lateral transport and evasion in a global land surface model | Poster Session 6 | Theme 3.1 | 309 | Auditorium |
| Bozhinova, Denica* | | 14C in annual plants and the anthropogenic CO2 in the atmosphere | Poster Session 3 | Theme 1.2 | 35 | Concert Hall |
| Brady, Riley Xavier* | | Carbon Uptake and Ocean Acidification in Eastern Boundary Upwelling Systems | Poster Session 6 | Theme 3.1 | 311 | Auditorium |
| Brix, Holger* | | Coastal Carbon Budgets: A (Model) View from the Open Ocean | Poster Session 1 | Theme 1.1 | 21 | Concert Hall |
| Broekema, Elise R. | Meijer, Harro A.J.* | $\delta O2/N2$ and CO2 flask observations at measurement stations in the Netherlands, Ireland and Antarctica | Poster Session 1 | Theme 1.1 | 25 | Concert Hall |
| Broekema, Elise R.* | | Measuring oxygen to unravel the forest carbon balance | Poster Session 1 | Theme 1.1 | 29 | Concert Hall |
| Brophy, Kieran* | | Characterizing uncertainties in atmospheric inversions of fossil fuel CO2 emissions in California | Poster Session 3 | Theme 1.2 | 39 | Concert Hall |
| Broullón Durán, Daniel* | | Annual and monthly climatologies of seawater CO2 chemistry variables: A neural network approach. | Poster Session 6 | Theme 3.1 | 313 | Auditorium |
| Brunner, Dominik* | | Measurements and modelling of carbon dioxide in Switzerland: The CarboCount-CH project | Poster Session 3 | Theme 1.2 | 43 | Concert Hall |

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|--|--|--|------------------|-----------|--------------|--------------|
| Buchanan, David* | | Southern Ocean Uptake of Atmospheric CO ₂ : Where should we measure it? | Poster Session 3 | Theme 1.2 | 47 | Concert Hall |
| Buchmann, Nina* | | Biospheric-atmospheric gas exchange, carbon sequestration and climate sensitivity of two mountain forests | Poster Session 6 | Theme 3.1 | 315 | Auditorium |
| Buermann, Wolfgang* | | Mechanisms of Increased Terrestrial Carbon Uptake since the Turn of the Century | Poster Session 1 | Theme 1.1 | 33 | Concert Hall |
| Bukosa, Beata* | | GEOS-Chem simulations of simultaneous greenhouse gas measurements (CO ₂ , CH ₄ and CO) from fixed and moving platforms in and around Australia | Poster Session 3 | Theme 1.2 | 51 | Concert Hall |
| Burba, George | Miller, William* | Comparison of CO ₂ Concentrations, Co-spectra and Flux Measurements between Latest Standardized Automated CO ₂ /H ₂ O Flux Systems and Older Gas Analyzers | Poster Session 3 | Theme 1.2 | 55 | Concert Hall |
| Burba, George* | | New Tools to Collect and Share Time-Synchronized Hourly CO ₂ Flux Data: Coupling Flux Towers and Networks with Proximal and Remote Sensing Data | Poster Session 3 | Theme 1.2 | 59 | Concert Hall |
| Burton, Chantelle Amanda* | | Modelling climate change impacts on fire and feedbacks on the carbon cycle | Poster Session 6 | Theme 3.1 | 317 | Auditorium |
| Butzin, Martin* | | Exploring glacial-interglacial variations of the marine carbon isotope record with RECOM-ciso | Poster Session 5 | Theme 2 | 171 | Concert Hall |
| C. Pardo, Paula* | | Carbon uptake and Biogeochemical changes in the Southern Ocean, South of Tasmania | Poster Session 6 | Theme 3.1 | 319 | Auditorium |
| Calle, Leonardo* | | Process attribution of observation-model error via time-series segmentation analysis | Poster Session 7 | Theme 3.2 | 383 | Auditorium |
| Campbell, Joel F.* | | Column CO ₂ Measurements using Advanced Intensity-Modulation Continuous-Wave Lidar for NASA ACT-America and ASCENDS Missions | Poster Session 3 | Theme 1.2 | 63 | Concert Hall |
| Canning, Anna Rose* | | Field deployment of a CO ₂ , CH ₄ and O ₂ sensor package for underway measurement across the full river-ocean mixing regime | Poster Session 3 | Theme 1.2 | 67 | Concert Hall |
| Cao, Long* | | Importance of temperature-dependent metabolic rates in simulated ocean carbon cycle response to global warming | Poster Session 6 | Theme 3.1 | 321 | Auditorium |
| Castro-Morales, Karel* | | Three decades of carbon cycle reanalysis with the MPI-CCDAS | Poster Session 3 | Theme 1.2 | 71 | Concert Hall |
| Cescatti, Alessandro* | | The atmosphere reveals faster than expected changes in magnitude and seasonality of the land carbon uptake | Poster Session 1 | Theme 1.1 | 37 | Concert Hall |
| Chae, Namyi* | | Carbon dioxide exchange over the Arctic tundra in Council, Alaska: Controlling factors and contribution of vegetation | Poster Session 6 | Theme 3.1 | 323 | Auditorium |
| Chen, Huilin* | | AirCore observations of CO ₂ /CH ₄ /CO profiles and 14CO ₂ in the stratosphere | Poster Session 3 | Theme 1.2 | 75 | Concert Hall |
| Chen, Jing M.* | | CO ₂ fertilization is the major cause for the global carbon sink in 1981-2012 | Poster Session 1 | Theme 1.1 | 41 | Concert Hall |
| Chen, Jinghua* | | Spatial pattern analysis on soil carbon sequestration potential of crop-residue return in China based on model simulation | Poster Session 1 | Theme 1.1 | 45 | Concert Hall |
| Chen, Zhaohui* | | Inverse estimates of North Atlantic CO ₂ uptake using shipboard measurements and surface sites | Poster Session 1 | Theme 1.1 | 49 | Concert Hall |
| Chen, Zhuoqi* | | A global carbon assimilation system using an ensemble Kalman filter | Poster Session 3 | Theme 1.2 | 79 | Concert Hall |
| Clement, Dominic* | | A C*-based Extended Multiple Linear Regression Method to Determine Decadal Changes in Anthropogenic CO ₂ in the Ocean | Poster Session 3 | Theme 1.2 | 83 | Concert Hall |
| Cong, Richao* | | The comparison analysis for various global Greenhouse emissions inventories datasets | Poster Session 1 | Theme 1.1 | 53 | Concert Hall |
| Conil, Sébastien* | | 5 years of ICOS compliant in situ GHG measurements at OPE: major results on CO ₂ , CH ₄ , N ₂ O, CO seasonal and diurnal cycles | Poster Session 1 | Theme 1.1 | 57 | Concert Hall |
| Córdova-Rodríguez, Kathy* | | Effect of low pH on growth and mechanical properties of valves of Peruvian scallop <i>Argopecten purpuratus</i> (Lamarck, 1819) | Poster Session 5 | Theme 4 | 360 | Auditorium |
| Crowell, Sean* | | Simulation Experiments in Support of GeoCarb | Poster Session 3 | Theme 1.2 | 87 | Concert Hall |
| Davies-Barnard, Taraka* | | Effects of 'natural' to 'geoengineered' nitrogen deposition on the carbon cycle | Poster Session 5 | Theme 4 | 363 | Auditorium |
| Davis, Kenneth J.* | | A sustained airborne campaign to improve inverse flux estimates of greenhouse gas sources and sinks: Results from the Atmospheric Carbon and Transport (ACT) – America mission | Poster Session 3 | Theme 1.2 | 91 | Concert Hall |
| Deng, Feng* | | Inferring Oceanic CO ₂ fluxes using space-based and in situ surface observations of atmospheric CO ₂ | Poster Session 3 | Theme 1.2 | 95 | Concert Hall |
| Deniel, Carole | Bousquet, Philippe* | Greenhouse gases from space: a French perspective | Poster Session 3 | Theme 1.2 | 99 | Concert Hall |
| Dickerson, Russell R.* | | Measurements of CO ₂ and CH ₄ in the Baltimore/Washington Area: A Guide to Local GHG Control | Poster Session 3 | Theme 1.2 | 103 | Concert Hall |
| Disa, Deniz* | | Modeling the Biogeochemistry of Coral Ecosystems under Ocean Acidification and Global Warming | Poster Session 6 | Theme 3.1 | 325 | Auditorium |
| Dobler, Jeremy T.* | | Continuous monitoring and mapping of CO ₂ and CH ₄ concentrations on scales from 0.4 – 25 km ² with GreenLITE™ | Poster Session 3 | Theme 1.2 | 107 | Concert Hall |
| Domingues, Lucas G.* | | Amazon Basin biomass burning emission and its correlation with climatology and deforestation | Poster Session 3 | Theme 1.2 | 111 | Concert Hall |
| Eggleston, Sarah* | | Comparison of the atmospheric CO ₂ sink due to the marine soft tissue pump during the LGM and MIS 4 | Poster Session 5 | Theme 2 | 192 | Concert Hall |
| Eggleston, Simon* | | The Global Climate Observing System (GCOS) and the carbon cycle | Poster Session 3 | Theme 1.2 | 115 | Concert Hall |
| El Yazidi, Abdelhadi* | | Evaluation of a high resolution atmospheric modelling system against observed data from a dense network of continuous CO ₂ and CH ₄ measurement stations across France | Poster Session 1 | Theme 1.1 | 61 | Concert Hall |
| Eldering, Annmarie* | | The OCO-3 Mission : Updated Overview of Science Objectives and Status | Poster Session 3 | Theme 1.2 | 119 | Concert Hall |
| Eugster, Werner | Revill, Andrew* | Impacts of diffuse radiation on crop canopy photosynthesis: a model evaluation at a Swiss crop rotation site | Poster Session 6 | Theme 3.1 | 327 | Auditorium |
| Fajar, Noelia Maria* | | Is the Mediterranean Sea Outflow conditioning cold water corals in the North Atlantic | Poster Session 7 | Theme 3.2 | 386 | Auditorium |
| Fay, Amanda R.* | | Large-scale variability and changes in Southern Ocean carbon: The Drake Passage bellwether | Poster Session 1 | Theme 1.1 | 65 | Concert Hall |
| Fernández-Duque, Beatriz* | | CO ₂ temporal variations in a rural area of northern Spain described by harmonic and kernel functions | Poster Session 1 | Theme 1.1 | 69 | Concert Hall |
| Ferrer Gonzalez, Miriam* | | Impacts of Different Climate Engineering Scenarios on Rates of Environmental Change and Seasonal Variability | Poster Session 5 | Theme 4 | 366 | Auditorium |
| Franco, Ana C.* | | Interannual variability versus anthropogenic trends in ocean acidification in the Humboldt Current System | Poster Session 6 | Theme 3.1 | 329 | Auditorium |
| Friedrich, Ronny* | | How much 'bio' is in fuel? | Poster Session 1 | Theme 1.1 | 73 | Concert Hall |

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|--|--|---|------------------|-----------|--------------|--------------|
| Frischknecht, Martin* | | Interannual variability of air-sea CO ₂ exchange, biological production and carbon export in the California Current System from 1979 to 2016 | Poster Session 6 | Theme 3.1 | 331 | Auditorium |
| Fröb, Friederike* | | Impact of North Atlantic freshening on sea surface fCO ₂ | Poster Session 1 | Theme 1.1 | 77 | Concert Hall |
| Frolking, Steve* | | Long-Term Atmospheric Carbon Dioxide and Radiative Forcing Implications of Persistent Loss of Tropical Peat Carbon Following Land-Use Conversion | Poster Session 6 | Theme 3.1 | 333 | Auditorium |
| Fujita, Ryo* | | Variations of atmospheric methane and its carbon and hydrogen isotopic ratios in the upper troposphere/lowermost stratosphere over the Eurasian Continent observed by commercial aircraft | Poster Session 1 | Theme 1.1 | 81 | Concert Hall |
| Gao, Shuang | Völker, Christoph* | Simulating the silicon stable isotopic distribution in the Last Glacial Maximum | Poster Session 5 | Theme 2 | 176 | Concert Hall |
| Gaspar, Felipe | Flores Montes, Manuel de Jesus* | Spatial and seasonal carbonate parameters variation in the northeastern Brazilian continental shelf | Poster Session 6 | Theme 3.1 | 335 | Auditorium |
| Gasser, Thomas* | | Budgets of allowable anthropogenic CO ₂ emissions strongly reduced by permafrost thawing | Poster Session 5 | Theme 4 | 369 | Auditorium |
| Gehlot, Swati* | | Coupling between the carbon cycle and the lateral hydrology: First implementation of riverine organic carbon transport within MPI-ESM | Poster Session 6 | Theme 3.1 | 337 | Auditorium |
| Gemayel, Elissar* | | Estimation of the carbonate system parameters in the Mediterranean Sea | Poster Session 1 | Theme 1.1 | 85 | Concert Hall |
| Gerbig, Christoph* | | Potential of the upcoming IAGOS GHG data stream from passenger aircraft measurements | Poster Session 3 | Theme 1.2 | 123 | Concert Hall |
| Geyer, Nicholas* | | Long-lived and Robust Carbon Dioxide Flux Bias Estimation via SIF and NEE | Poster Session 3 | Theme 1.2 | 127 | Concert Hall |
| Gibert, Fabien* | | Mapping the CO ₂ field in the atmosphere using lidar : current status and potential for carbon cycle studies. | Poster Session 3 | Theme 1.2 | 131 | Concert Hall |
| Giemsas, Esther Maria* | | Application of trajectory clustering and source attribution methods for investigating regional CO ₂ concentrations at Germany's highest mountain site | Poster Session 1 | Theme 1.1 | 89 | Concert Hall |
| Gloege, Luke* | | Constraining the Potential Influence of the Ocean Biological Pump on Atmospheric pCO ₂ | Poster Session 7 | Theme 3.2 | 392 | Auditorium |
| Goeckede, Mathias* | | Model-data-fusion to improve the representation of permafrost ecosystems at the regional scale in a land-surface scheme | Poster Session 7 | Theme 3.2 | 395 | Auditorium |
| Goll, Daniel | Raddatz, Thomas* | Climate-carbon-nitrogen interactions in an Earth System model framework | Poster Session 6 | Theme 3.1 | 339 | Auditorium |
| Goris, Nadine* | | The subpolar gyre region as benchmark for the future anthropogenic carbon budget of the North Atlantic | Poster Session 7 | Theme 3.2 | 398 | Auditorium |
| Goto, Daisuke* | | Temporal variations of atmospheric O ₂ and CO ₂ at a coastal site in the northeastern part of the main island of Japan | Poster Session 1 | Theme 1.1 | 93 | Concert Hall |
| Gottschalk, Julia* | | Ventilation changes and carbon cycle dynamics in the deep South Indian Ocean: an important component of atmospheric CO ₂ changes during the last deglaciation? | Poster Session 5 | Theme 2 | 181 | Concert Hall |
| Grassi, Giacomo* | | Forests key to mitigation in Paris, but science needed to underpin efforts | Poster Session 3 | Theme 1.2 | 135 | Concert Hall |
| Gregor, Luke* | | Seasonal - Interannual - Decadal variability of the CO ₂ sink in the Southern Ocean: wind stress is still the dominant driver | Poster Session 1 | Theme 1.1 | 97 | Concert Hall |
| Griffith, David* | | Radon tracer flux measurements of CO ₂ , N ₂ O and CH ₄ in an agricultural environment | Poster Session 3 | Theme 1.2 | 139 | Concert Hall |
| Hagens, Mathilde* | | Elucidating the mechanisms of sedimentary alkalinity release and its impact on the Baltic Sea carbonate system | Poster Session 6 | Theme 3.1 | 341 | Auditorium |
| Hajima, Tomohiro* | | Strength of CO ₂ fertilization effect in a new ESM with explicit terrestrial carbon-nitrogen interactions | Poster Session 7 | Theme 3.2 | 401 | Auditorium |
| Hameau, Angélique* | | Natural and anthropogenic-forced variability in oceanic oxygen and oxygen minimum zones: results from an Earth System Model simulation over the last millennium and the 21st century. | Poster Session 6 | Theme 3.1 | 343 | Auditorium |
| Han, Pengfei* | | Modeling net primary production across global croplands from 1961 to 2010 | Poster Session 6 | Theme 3.1 | 345 | Auditorium |
| Hassoun, Abed El Rahman* | | Acidification and carbonate system trends in the Eastern Mediterranean Sea | Poster Session 1 | Theme 1.1 | 101 | Concert Hall |
| Hastie, Adam* | | Carbon dioxide evasion from boreal lakes: revised estimate, drivers of spatial variability, and future projections | Poster Session 6 | Theme 3.1 | 347 | Auditorium |
| Hauck, Judith* | | The fate of carbon and nutrients exported out of the Southern Ocean | Poster Session 5 | Theme 4 | 372 | Auditorium |
| Haumann, F. Alexander* | | Strengthening of Southern Ocean carbon uptake through increasing stratification | Poster Session 1 | Theme 1.1 | 105 | Concert Hall |
| Haverd, Vanessa* | | Concurrent large-scale drought recovery dominates low-latitude contributions to decadal trends of the land carbon sink | Poster Session 1 | Theme 1.1 | 109 | Concert Hall |
| Haynes, Katherine D.* | | Grassland Productivity Response to the U.S. 2012 Drought: Analysis of Leaf Area Index in MODIS and the Simple Biosphere Model | Poster Session 7 | Theme 3.2 | 404 | Auditorium |
| Heinemann, Malte* | | Particle ballasting in the Hamburg Ocean Carbon Cycle model HAMOCC: uncertainties and effect on glacial-interglacial pCO ₂ | Poster Session 5 | Theme 2 | 186 | Concert Hall |
| Hernández Almeida, Iván* | | Core-top calibration of sediment proxy indicators to phytoplankton growth rate for improving past pCO ₂ estimates | Poster Session 5 | Theme 2 | 198 | Concert Hall |
| Hilman, Boaz* | | Comparison of CO ₂ and O ₂ fluxes demonstrate retention of respired CO ₂ in tree stems from a range of tree species | Poster Session 6 | Theme 3.1 | 349 | Auditorium |
| Hirata, Ryuichi* | | The effects of forest loss on regional carbon balance of tropical peat forests in Borneo island | Poster Session 6 | Theme 3.1 | 351 | Auditorium |
| Hoffman, Forrest M.* | | Nonlinear Interactions between Climate and Atmospheric Carbon Dioxide Drivers of Terrestrial and Marine Carbon Cycle Changes from 1850 to 2300 | Poster Session 5 | Theme 4 | 375 | Auditorium |
| Hoshina, Yu* | | Separating short-term CO ₂ variation into biotic and fossil fuel components based on the atmospheric O ₂ and CO ₂ continuous measurements | Poster Session 3 | Theme 1.2 | 143 | Concert Hall |
| Houweling, Sander* | | The ESA GHG-CCI multi-model analysis of the combined SCIAMACHY and GOSAT satellite XCO ₂ record | Poster Session 3 | Theme 1.2 | 147 | Concert Hall |
| Hu, Pin hsin* | | Does lower troposphere turbulent CO ₂ -exchange determine plant growth? | Poster Session 7 | Theme 3.2 | 407 | Auditorium |
| Huang, Mengtian* | | Seasonal responses of terrestrial ecosystem water-use efficiency to climate change | Poster Session 6 | Theme 3.1 | 353 | Auditorium |

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|--|--|--|------------------|-----------|--------------|--------------|
| Huang, Yuanyuan* | | Matrix approach to land carbon modeling: a case study with CLM4.5 | Poster Session 3 | Theme 1.2 | 151 | Concert Hall |
| Hugelius, Gustaf* | | Non-equilibrium soil types in ecosystem models and their impact on simulating global-scale soil carbon distributions | Poster Session 7 | Theme 3.2 | 410 | Auditorium |
| Hutley, Lindsay B.* | | Towards a more complete carbon balance: Quantifying fluvial carbon fluxes in a wet-dry tropical catchment in north Australia | Poster Session 6 | Theme 3.1 | 355 | Auditorium |
| Ichii, Kazuhito* | | A new data-driven estimation of terrestrial CO2 fluxes in Asia using a standardized database of eddy covariance measurements, remote sensing data, and support vector regression | Poster Session 1 | Theme 1.1 | 113 | Concert Hall |
| Iida, Yosuke* | | A synthetic reconstruction of global surface ocean CO2 system parameters and sea-air CO2 flux | Poster Session 1 | Theme 1.1 | 117 | Concert Hall |
| Ilomo, Ophery* | | Sediment carbonate profile as a proxy of global CO2 increase and geochemical variations in Zanzibar channel, Tanzania, western Indian Ocean. | Poster Session 1 | Theme 1.1 | 121 | Concert Hall |
| Ishidoya, Shigeyuki* | | Seasonal and interannual variations in the atmospheric Ar/N2 ratio observed by air monitoring networks of Japanese research institutes | Poster Session 1 | Theme 1.1 | 125 | Concert Hall |
| Isidorova, Anastasija* | | Strong effect of depositional environment on the preservation of organic carbon in sediment or its degradation to carbon dioxide or methane | Poster Session 6 | Theme 3.1 | 358 | Auditorium |
| Ito, Akihiko* | | Atmosphere-ecosystem CO2 exchange simulated by a global terrestrial carbon model with high spatial and temporal resolution | Poster Session 7 | Theme 3.2 | 413 | Auditorium |
| Jain, Atul K.* | | Estimated Contributions of Cold-Region Biophysical and Biogeochemical Processes to Permafrost Soil Organic Carbon | Poster Session 7 | Theme 3.2 | 416 | Auditorium |
| Janardanan, Rajesh* | | On monitoring CO2 emissions from anthropogenic sources by GOSAT observations of localized CO2 enhancements | Poster Session 3 | Theme 1.2 | 155 | Concert Hall |
| Jeltsch-Thömmes, Aurich* | | Modeling carbon and $\delta^{13}C$ in the coupled atmosphere-ocean-land-sediment system on glacial/interglacial timescales | Poster Session 5 | Theme 2 | 195 | Concert Hall |
| Ji, Duoying* | | Improving the terrestrial carbon cycle simulated by BNU-ESM | Poster Session 7 | Theme 3.2 | 419 | Auditorium |
| Jia, Binghao* | | Responses of the terrestrial carbon cycle to drought: modeling sensitivities of the interactive nitrogen and dynamic vegetation | Poster Session 6 | Theme 3.1 | 361 | Auditorium |
| Jiang, Fei* | | A comprehensive estimate of recent carbon sinks in China using both top-down and bottom-up approaches | Poster Session 3 | Theme 1.2 | 159 | Concert Hall |
| Jiang, Liqing* | | pH distributions and controlling mechanisms in the global ocean | Poster Session 6 | Theme 3.1 | 364 | Auditorium |
| Jiang, Ziqiang* | | Exploiting error correlations between CO and CO2 in a carbon assimilation system | Poster Session 3 | Theme 1.2 | 164 | Concert Hall |
| Jiao, Nianzhi* | | Biological Carbon Sequestration in the Ocean: Current Understanding and Future Research Trends | Poster Session 6 | Theme 3.1 | 367 | Auditorium |
| Jones, Steve D* | | QuinCe: An online tool for processing and quality control of surface ocean CO2 measurements | Poster Session 3 | Theme 1.2 | 169 | Concert Hall |
| Ju, Weimin* | | Effects of precipitation anomalies on global terrestrial carbon fluxes from 1981 to 2012 | Poster Session 1 | Theme 1.1 | 129 | Concert Hall |
| Kaplan, Jed O.* | | Intensification of land use and its impact on the preindustrial global carbon cycle | Poster Session 1 | Theme 1.1 | 133 | Concert Hall |
| Karstens, Ute* | | ICOS Carbon Portal: Elaborated products and services to support European carbon budget estimates | Poster Session 1 | Theme 1.1 | 137 | Concert Hall |
| Kauppi, Pekka Eero* | | Forest transition and the time scale of global terrestrial C sink | Poster Session 1 | Theme 1.1 | 141 | Concert Hall |
| Keel, Sonja G.* | | Developing of a model-based soil organic carbon inventory for agricultural soils in Switzerland | Poster Session 3 | Theme 1.2 | 174 | Concert Hall |
| Keller, Elizabeth Diane* | | An urban carbon budget for Auckland, New Zealand | Poster Session 1 | Theme 1.1 | 145 | Concert Hall |
| Keller, Kathrin | Raible, Christoph C.* | Detecting changes in ENSO characteristics 850-2100 CE: Insights from the ocean carbon cycle | Poster Session 1 | Theme 1.1 | 149 | Concert Hall |
| Keller, Kathrin | Joos, Fortunat* | 20th century changes in carbon isotopes and water-use efficiency: tree-ring-based evaluation of the CLM4.5 and LPX-Bern models | Poster Session 6 | Theme 3.1 | 370 | Auditorium |
| Kenea, Samuel Takele* | | Comparison and temporal variability of column-averaged dry-air mole fraction of CO2 over selected TCCON sites based on g-b FTS and Satellite observations | Poster Session 1 | Theme 1.1 | 153 | Concert Hall |
| Keppel-Aleks, Gretchen* | | Separating temperature- and moisture-driven variations in terrestrial carbon uptake using multiple remote sensing constraints | Poster Session 6 | Theme 3.1 | 373 | Auditorium |
| Kim-Hak, David | Winkler, Renato* | Methane Fingerprinting: Isotopic Methane and Ethane-to-Methane Ratio Analysis Using a Cavity Ringdown Spectrometer | Poster Session 3 | Theme 1.2 | 179 | Concert Hall |
| Kim, Dongmin* | | Model Intercomparison of Terrestrial Carbon Fluxes Simulated by CMIP5 Earth System Models and the Sensitivity to the Parameterized Carbon-Nitrogen Cycle | Poster Session 7 | Theme 3.2 | 422 | Auditorium |
| Kim, Hyunjung* | | Effect of assimilating aircraft CO2 observations in CarbonTracker | Poster Session 3 | Theme 1.2 | 184 | Concert Hall |
| Kim, Jiwon* | | Satellite-based analyses of the Arctic sea ice by using Artificial Intelligence | Poster Session 1 | Theme 1.1 | 157 | Concert Hall |
| Kim, Yongwon* | | Effect of crustose lichen on soil CO2 efflux in sphagnum moss regime of tundra, west Alaska | Poster Session 6 | Theme 3.1 | 376 | Auditorium |
| Kim, Yoon Soo* | | Changes in Forest Vegetation by GHG and Limited Carbon Sink by Forests in Korea | Poster Session 5 | Theme 4 | 378 | Auditorium |
| Kirschbaum, Miko* | | Plant-growth responses to elevated CO2 – a reanalysis of prior observations | Poster Session 3 | Theme 1.2 | 190 | Concert Hall |
| Kleinen, Thomas* | | Modelling carbon in permafrost soils from preindustrial to the future | Poster Session 6 | Theme 3.1 | 379 | Auditorium |
| Knohl, Alexander* | | Oxygen flux measurements as a new tracer for the carbon and nitrogen cycles in terrestrial ecosystems | Poster Session 6 | Theme 3.1 | 382 | Auditorium |
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| Koren, Gerbrand* | | A global 3D model for the triple oxygen isotopic ratios in atmospheric CO2 | Poster Session 6 | Theme 3.1 | 385 | Auditorium |
| Kosugi, Naohiro* | | Concurrent underway measurements of surface pCO2 and total alkalinity in Kuroshio-Oyashio transition region | Poster Session 6 | Theme 3.1 | 388 | Auditorium |
| Kozlova, Elena* | | Climatology of continuous greenhouse gas measurements at Kjølnes, Northern Norway | Poster Session 1 | Theme 1.1 | 162 | Concert Hall |
| Krause, Andreas | Arneth, Almut* | Synergies and trade-offs between ecosystem service indicators in afforestation and bioenergy land-use scenarios | Poster Session 5 | Theme 4 | 384 | Auditorium |
| Kriest, Iris* | | Insights into marine biogeochemical model uncertainty from systematic parameter calibration | Poster Session 3 | Theme 1.2 | 196 | Concert Hall |
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| Kurz, Werner A.* | | How can the forest sector contribute to achieving net negative emission goals? | Poster Session 5 | Theme 4 | 387 | Auditorium |
| Kwon, Bong-Oh* | | Acute effects of high CO2 on marine medaka, <i>Oryzias melastigma</i> | Poster Session 6 | Theme 3.1 | 394 | Auditorium |
| Kysely, Jan* | | Heat waves and cold spells in Central Europe under different climate change scenarios | Poster Session 5 | Theme 4 | 390 | Auditorium |
| Lacroix, Fabrice* | | Implications of riverine nutrient and carbon fluxes derived from a weathering model on the ocean biogeochemistry | Poster Session 6 | Theme 3.1 | 397 | Auditorium |
| Landschützer, Peter* | | Observation-based evidence for a changing seasonal cycle in ocean pCO2 in response to rising atmospheric CO2 | Poster Session 1 | Theme 1.1 | 172 | Concert Hall |
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| Lansø, Anne Sofie* | | Nutrient enrichment and forest management experiments in Sweden to constrain the process-based land surface model ORCHIDEE | Poster Session 7 | Theme 3.2 | 425 | Auditorium |
| Larjavaara, Markku* | | Impact of increasing temperature on old-growth forest biomass | Poster Session 7 | Theme 3.2 | 428 | Auditorium |
| Lauerwald, Ronny* | | Simulating C transfers through the terrestrial-aquatic continuum of the Amazon | Poster Session 6 | Theme 3.1 | 403 | Auditorium |
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| Lauvaux, Thomas* | | Catching butterflies with fishing nets: Are atmospheric greenhouse gas models adapted to current and future observing systems? | Poster Session 3 | Theme 1.2 | 210 | Concert Hall |
| Lauvset, Siv Kari* | | Global indicators of ocean carbon uptake: a pilot study | Poster Session 1 | Theme 1.1 | 177 | Concert Hall |
| Lavric, Jost Valentin* | | Five years of CO2/CH4/CO measurements at the Amazon Tall Tower Observatory (ATTO, Brazil) - site and source area characterisation | Poster Session 1 | Theme 1.1 | 182 | Concert Hall |
| Law, Rachel M.* | | The contribution of aerosol cooling to historical land carbon uptake | Poster Session 1 | Theme 1.1 | 187 | Concert Hall |
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| Lebehot, Alice* | | Understanding and predicting trends in North Atlantic CO2 uptake | Poster Session 1 | Theme 1.1 | 199 | Concert Hall |
| Lees, Kirsten Jennifer* | | Measuring peatland carbon sequestration and emission by remote sensing | Poster Session 3 | Theme 1.2 | 213 | Concert Hall |
| Lefevre, Nathalie* | | Air-sea CO2 flux on the continental shelves of the western tropical Atlantic | Poster Session 6 | Theme 3.1 | 406 | Auditorium |
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| Levin, Ingeborg* | | Long-term changes of D14CO2 in the global atmosphere | Poster Session 2 | Theme 1.1 | 2 | Concert Hall |
| Li, Hongmei* | | Decadal predictions of the oceanic carbon sink: skills and challenges | Poster Session 2 | Theme 1.1 | 6 | Concert Hall |
| Li, Yangchun* | | Entrainment velocity and tropical Pacific air-sea CO2 flux during ENSO events simulated in CMIP5 | Poster Session 2 | Theme 1.1 | 10 | Concert Hall |
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| Lienert, Sebastian* | | A Monte Carlo data assimilation to constrain model parameters, terrestrial carbon uptake, and carbon emissions from land use | Poster Session 7 | Theme 3.2 | 434 | Auditorium |
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| Liu, Junjie* | | Responses of tropical terrestrial biosphere carbon cycle to the 2015-2016 El Niño | Poster Session 6 | Theme 3.1 | 418 | Auditorium |
| Liu, Yu* | | CarbonTracker Switzerland: Quantifying the net terrestrial biospheric carbon fluxes in central Europe and Switzerland for 2013 | Poster Session 6 | Theme 3.1 | 421 | Auditorium |
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| Lovenduski, Nicole* | | Ocean and land carbon uptake: Can we predict the future? | Poster Session 5 | Theme 4 | 393 | Auditorium |
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| Machida, Toshinobu* | | Present activities and future plan for CONTRAIL project | Poster Session 4 | Theme 1.2 | 4 | Concert Hall |
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| Maki, Takashi* | | Observing System Experiments with Multiple Satellites for Carbon Cycle Analysis using the Local Ensemble Transform Kalman Filter | Poster Session 4 | Theme 1.2 | 12 | Concert Hall |
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| Marquez Lencina Avila, Jannine* | | Evolution of the carbonate properties in the Gerlache Strait, Northern Antarctic Peninsula | Poster Session 6 | Theme 3.1 | 439 | Auditorium |
| Matsunaga, Tsuneo* | | GOSAT and GOSAT-2 : Data Products, Science Achievements, and Future | Poster Session 4 | Theme 1.2 | 16 | Concert Hall |
| Mayer, Dorothea George* | | Climatic consequences of large-scale herbaceous biomass plantations as climate engineering tools | Poster Session 5 | Theme 4 | 396 | Auditorium |

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| Meijer, Yasjka* | | State of play for a European operational monitoring system for fossil CO2 emissions | Poster Session 4 | Theme 1.2 | 24 | Concert Hall |
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| Mikaloff Fletcher, Sara* | | National scale CO2 inverse modelling: a New Zealand case study | Poster Session 4 | Theme 1.2 | 28 | Concert Hall |
| Miller, John B.* | | Unexpected and significant biospheric CO2 fluxes in the Los Angeles Megacity indicated by atmospheric radiocarbon | Poster Session 4 | Theme 1.2 | 32 | Concert Hall |
| Monteil, Guillaume* | | Development of a regional CO2 inverse modeling system | Poster Session 2 | Theme 1.1 | 22 | Concert Hall |
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| Morfopoulos, Catherine* | | Pathogens, plant productivity and climate change: what is our current knowledge? | Poster Session 7 | Theme 3.1 | 302 | Auditorium |
| Morgan, Eric* | | Tropospheric Gradients of CO2 and O2 Over the Southern Ocean | Poster Session 7 | Theme 3.1 | 304 | Auditorium |
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| Müller, Michael* | | In-situ long-term record of CO2 isotopic signatures using high-precision laser spectroscopy | Poster Session 4 | Theme 1.2 | 44 | Concert Hall |
| Murata, Akihiko | Nakano, Yoshiyuki* | Deployment of drifting buoys with pCO2 sensor in the Pacific Ocean | Poster Session 4 | Theme 1.2 | 48 | Concert Hall |
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| Muri, Helene* | | The 1.5C target: potential and implications of large scale BECCS deployment | Poster Session 5 | Theme 4 | 399 | Auditorium |
| Mystakidis, Stefanos | Davin, Edouard L.* | Hydrological and biogeochemical constraints on terrestrial carbon cycle feedbacks | Poster Session 7 | Theme 3.2 | 440 | Auditorium |
| Nakajima, Masakatsu* | | Current Status of the GOSAT-2 Mission Instruments | Poster Session 4 | Theme 1.2 | 52 | Concert Hall |
| Nakamura, Takashi* | | Improvement of the Upper-Tropospheric CO2 Distributions from a New JMA Inversion Analysis | Poster Session 4 | Theme 1.2 | 56 | Concert Hall |
| Nakaoka, Shin-ichiro* | | Distribution of fCO2 trend due to the anthropogenic CO2 uptake and bio-geophysical variability in the Pacific Ocean | Poster Session 2 | Theme 1.1 | 30 | Concert Hall |
| Nakhavali, Mahdi* | | Testing Dissolved Organic Carbon representation in the JULES-DOCM and ORCHIDEE-SOM | Poster Session 7 | Theme 3.1 | 308 | Auditorium |
| Naudts, Kim* | | Impact of age-dependent harvest in land-surface models | Poster Session 2 | Theme 1.1 | 34 | Concert Hall |
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| Notholt, Justus* | | The Total Carbon Column Observing Network (TCCON) | Poster Session 2 | Theme 1.1 | 46 | Concert Hall |
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| Oda, Tomohiro* | | Mapping Fossil-Fuel Carbon Dioxide Emissions using Observations from Space | Poster Session 4 | Theme 1.2 | 72 | Concert Hall |
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| Oschlies, Andreas* | | An elevated marine oxygen inventory in a warmer future ocean? | Poster Session 5 | Theme 4 | 408 | Auditorium |
| Ott, Lesley* | | Closing the budget on uncertainty in atmospheric CO2 simulations using NASA's GEOS modeling system | Poster Session 4 | Theme 1.2 | 80 | Concert Hall |
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| Peters, Wouter* | | One year of airborne measurements of $\delta^{13}C$ in CO_2 over the Amazon | Poster Session 4 | Theme 1.2 | 88 | Concert Hall |
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| Polavarapu, Saroja* | | Complementarity of the information provided by in situ and column measurements of carbon dioxide in flux inversion analyses | Poster Session 4 | Theme 1.2 | 108 | Concert Hall |
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| Rocher, Matthias* | | Investigating risks and trade-off in pathways with high short-term emissions and fast decarbonization post-2030 | Poster Session 5 | Theme 4 | 426 | Auditorium |
| Rödenbeck, Christian* | | Contrasting the temperature responses of terrestrial Net Ecosystem Exchange in different seasons as inferred from a global interannual atmospheric CO_2 inversion | Poster Session 7 | Theme 3.1 | 324 | Auditorium |
| Rodgers, Keith Bradley* | | A First-Order Role for the Low Latitudes in Sustaining Global Ocean Carbon-Climate Feedbacks | Poster Session 5 | Theme 4 | 429 | Auditorium |
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| Steinkamp, Kay* | | Impact of the diurnal cycle on a national scale CO2 inverse model in New Zealand | Poster Session 2 | Theme 1.1 | 114 | Concert Hall |
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| Stoll, Heather* | | Reconceiving the phytoplankton proxy for reconstruction of atmospheric CO2 beyond the ice cores | Poster Session 5 | Theme 2 | 215 | Concert Hall |
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| Sutton, Adrienne June* | | Moored autonomous observing of air-sea CO2 flux and ocean acidification: A growing global network | Poster Session 4 | Theme 1.2 | 170 | Concert Hall |
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