

## ICDC10 Poster Presentations (sorted by session, 14 August 2017)

<b>Poster Session 1</b>	Monday, 10:00-11:30	<b>Theme 1.1 (part 1):</b> The Contemporary Carbon Cycle - Trends, Variability and Time of Emergence of Human Impacts
<b>Poster Session 2</b>	Monday, 15:30-17:00	<b>Theme 1.1 (part 2):</b> The Contemporary Carbon Cycle - Trends, Variability and Time of Emergence of Human Impacts
<b>Poster Session 3</b>	Tuesday, 10:00-11:30	<b>Theme 1.2 (part 1):</b> The Contemporary Carbon Cycle - Emerging Approaches and Novel Observation Techniques
<b>Poster Session 4</b>	Tuesday, 15:30-17:00	<b>Theme 1.2 (part 2):</b> The Contemporary Carbon Cycle - Emerging Approaches and Novel Observation Techniques
<b>Poster Session 5</b>	Thursday, 9:50-11:10	<b>Theme 2:</b> The Paleo Perspective: Patterns, Processes and Planetary Boundaries / <b>Theme 4:</b> Scenarios of the Future Earth and Steps toward Long-term Earth System Stability
<b>Poster Session 6</b>	Thursday, 15:20-16:40	<b>Theme 3.1 (part 1):</b> Biogeochemical Processes - Processes Understanding and Human Impacts
<b>Poster Session 7</b>	Friday, 10:00-11:30	<b>Theme 3.1 (part 2):</b> Biogeochemical Processes - Processes Understanding and Human Impacts / <b>Theme 3.2:</b> 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
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
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
Biraud, Sebastien*		The AmeriFlux Network Management Project	Poster Session 1	Theme 1.1	13	Concert Hall
Bousquet, Philippe	Saunois, Marielle*	The global methane budget 2000-2012. What's next?	Poster Session 1	Theme 1.1	17	Concert Hall
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.*	δO2/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
Buermann, Wolfgang*		Mechanisms of Increased Terrestrial Carbon Uptake since the Turn of the Century	Poster Session 1	Theme 1.1	33	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
Chen, Jing M.*		CO2 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 CO2 uptake using shipboard measurements and surface sites	Poster Session 1	Theme 1.1	49	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 CO2, CH4, N2O, CO seasonal and diurnal cycles	Poster Session 1	Theme 1.1	57	Concert Hall
El Yazidi, Abdelhadi*		Evaluation of a high resolution atmospheric modelling system against observed data from a dense network of continuous CO2 and CH4 measurement stations across France	Poster Session 1	Theme 1.1	61	Concert Hall
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*		CO2 temporal variations in a rural area of northern Spain described by harmonic and kernel functions	Poster Session 1	Theme 1.1	69	Concert Hall
Friedrich, Ronny*		How much 'bio' is in fuel?	Poster Session 1	Theme 1.1	73	Concert Hall
Fröb, Friederike*		Impact of North Atlantic freshening on sea surface fCO2	Poster Session 1	Theme 1.1	77	Concert Hall
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
Gemayel, Elissar*		Estimation of the carbonate system parameters in the Mediterranean Sea	Poster Session 1	Theme 1.1	85	Concert Hall
Giemsa, Esther Maria*		Application of trajectory clustering and source attribution methods for investigating regional CO2 concentrations at Germany's highest mountain site	Poster Session 1	Theme 1.1	89	Concert Hall
Goto, Daisuke*		Temporal variations of atmospheric O2 and CO2 at a coastal site in the northeastern part of the main island of Japan	Poster Session 1	Theme 1.1	93	Concert Hall
Gregor, Luke*		Seasonal - Interannual - Decadal variability of the CO2 sink in the Southern Ocean: wind stress is still the dominant driver	Poster Session 1	Theme 1.1	97	Concert Hall
Hassoun, Abed El Rahman*		Acidification and carbonate system trends in the Eastern Mediterranean Sea	Poster Session 1	Theme 1.1	101	Concert Hall
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

First Author (* if also presenting author)	Presenting Author (if other than first author)	Title	Poster Session	Theme	Poster board	Location
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
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
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
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
Kim, Jiwon*		Satellite-based analyses of the Arctic sea ice by using Artificial Intelligence	Poster Session 1	Theme 1.1	157	Concert Hall
Kozlova, Elena*		Climatology of continuous greenhouse gas measurements at Kjølnes, Northern Norway	Poster Session 1	Theme 1.1	162	Concert Hall
Krumhardt, Kristen Marie*		Coccolithophore growth and calcification in a changing ocean	Poster Session 1	Theme 1.1	167	Concert Hall
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
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
Le Quéré, Corinne*		Limits to emissions verification from unaccounted semi-decadal carbon variability	Poster Session 1	Theme 1.1	193	Concert Hall
Lebehot, Alice*		Understanding and predicting trends in North Atlantic CO2 uptake	Poster Session 1	Theme 1.1	199	Concert Hall
Leuenberger, Markus C.*		10-years of combined CO2 and O2 measurements at two remote sites of Jungfraujoch, Switzerland and Puy de Dôme, France	Poster Session 1	Theme 1.1	206	Concert Hall
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
Lo Monaco, Claire*		CO2 monitoring in the South-West Indian Ocean over the last three decades	Poster Session 2	Theme 1.1	14	Concert Hall
Manizza, Manfredi*		Modeling the response of CO2 uptake of the Arctic Ocean to recent climate change	Poster Session 2	Theme 1.1	18	Concert Hall
Monteil, Guillaume*		Development of a regional CO2 inverse modeling system	Poster Session 2	Theme 1.1	22	Concert Hall
Murayama, Shohei*		Measurements of atmospheric CO2 and its $\delta^{13}C$ and $\delta^{18}O$ at Minamitorishima Island in the western North Pacific	Poster Session 2	Theme 1.1	26	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
Naudts, Kim*		Impact of age-dependent harvest in land-surface models	Poster Session 2	Theme 1.1	34	Concert Hall
Nevison, Cynthia*		Understanding changes in ocean biogeochemistry and carbon export production using atmospheric gas observations and remote sensing data	Poster Session 2	Theme 1.1	38	Concert Hall
Nomura, Shohei*		Regional characteristics on greenhouse gaseous concentrations for thirteen years at Guiyang, China, in comparison with the data of Hateruma Island	Poster Session 2	Theme 1.1	42	Concert Hall
Notholt, Justus*		The Total Carbon Column Observing Network (TCCON)	Poster Session 2	Theme 1.1	46	Concert Hall
Olsen, Are*		Global Trends in Ocean Dissolved Inorganic Carbon	Poster Session 2	Theme 1.1	50	Concert Hall
Omar, Abdurahman M.	Johannessen, Truls*	Ocean Thematic Centre (OTC) one of the central facilities of the ICOS RI	Poster Session 2	Theme 1.1	54	Concert Hall
Park, Geun-Ha*		Recent increase in summer surface fCO2 in the western subtropical North Pacific	Poster Session 2	Theme 1.1	58	Concert Hall
Patara, Lavinia	Böning, Claus W.*	Decadal fluctuations of the ocean ventilation affect the Southern Ocean carbon sink	Poster Session 2	Theme 1.1	62	Concert Hall
Peng, Shushi*		Detection and Attribution of the Recent Abrupt Increase in the Net Land Carbon Sink	Poster Session 2	Theme 1.1	66	Concert Hall
Raimondi, Lorenza*		Variability of Anthropogenic Carbon in the Labrador Sea from 1992 to 2016	Poster Session 2	Theme 1.1	70	Concert Hall
Saeki, Tazu*		Joint analysis of CO2 and CH4 inversion fluxes: Significantly lower increase in anthropogenic emissions and land sink over East Asia during 2002-2012	Poster Session 2	Theme 1.1	74	Concert Hall
Sanleon-Bartolome, Henar	Álvarez, Marta*	The CARIMED (CARbon IN the MEDiterranean Sea) data synthesis initiative: overview and quality control procedures	Poster Session 2	Theme 1.1	78	Concert Hall
Sasakawa, Motoki*		Continuous measurement of CO2 and CH4 concentration from a tower network (JR-STATION) over Siberia	Poster Session 2	Theme 1.1	82	Concert Hall
Sasano, Daisuke*		Decline and bi-decadal oscillation of dissolved oxygen in the Oyashio region and their propagation to the western North Pacific	Poster Session 2	Theme 1.1	86	Concert Hall

First Author (* if also presenting author)	Presenting Author (if other than first author)	Title	Poster Session	Theme	Poster board	Location
Sawa, Yousuke*		Sensitivity analysis of CO2 growth rates estimation with sub-sampling method for occasional observation opportunities by commercial airliner	Poster Session 2	Theme 1.1	90	Concert Hall
Scheel Monteiro, Pedro*		How do storms influence seasonal, interannual to decadal trends of air-sea CO2 fluxes in the Southern Ocean? – What have we learned from 5 years of SOSCEX observations and modelling?	Poster Session 2	Theme 1.1	94	Concert Hall
Schlunegger, Sarah*		Emergence of Anthropogenic Signals in the Ocean: Putting Carbon in Context	Poster Session 2	Theme 1.1	98	Concert Hall
Schuster, Ute*		Northern hemisphere CO2 sources and sinks – variability and trends	Poster Session 2	Theme 1.1	102	Concert Hall
Shim, Changsub*		Identifying local anthropogenic CO2 emissions with satellite retrievals: a case study in South Korea	Poster Session 2	Theme 1.1	106	Concert Hall
Steinhoff, Tobias*		A 12-year CO2 flux record in the subpolar North Atlantic Ocean	Poster Session 2	Theme 1.1	110	Concert Hall
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
Sugawara, Satoshi*		Twenty-three year record of the mid-stratospheric 13CO2 over Japan	Poster Session 2	Theme 1.1	118	Concert Hall
Suntharalingam, Parvatha*		Estimates of North Atlantic CO2 Flux Variability from Atmospheric Observations	Poster Session 2	Theme 1.1	122	Concert Hall
Tanhua, Toste	Hoppema, Mario*	Changes during a 40 years period in storage of anthropogenic carbon and ventilation in the Atlantic sector of the Southern Ocean	Poster Session 2	Theme 1.1	126	Concert Hall
Tohjima, Yasunori*		Atmospheric O2/N2 and CO2 observation in the Pacific region and its application to the global carbon budget estimation	Poster Session 2	Theme 1.1	130	Concert Hall
Toyama, Katsuya*		Re-emergence of anthropogenic carbon through the ocean's shallow overturning circulation	Poster Session 2	Theme 1.1	134	Concert Hall
Trudinger, Cathy*		Interannual variability in Australia's terrestrial carbon cycle	Poster Session 2	Theme 1.1	138	Concert Hall
van der Laan-Luijckx, Ingrid Theodora*		Global carbon budget from three atmospheric inversions	Poster Session 2	Theme 1.1	142	Concert Hall
Vermeulen, Alex*		Data Services for Carbon Cycle Science at the ICOS Carbon Portal	Poster Session 2	Theme 1.1	146	Concert Hall
Wang, Jiaoyue*		The spatiotemporal features of Greenhouse Gas Emissions from Biomass Burning in China from 2000-2012	Poster Session 2	Theme 1.1	150	Concert Hall
Wang, Jun*		Interannual variability of the atmospheric CO2 growth rate: roles of precipitation and temperature	Poster Session 2	Theme 1.1	154	Concert Hall
Wilson, Christopher James*		Quantifying changes to the seasonal cycle of carbon dioxide surface fluxes from terrestrial and oceanic sources using inverse modelling methods	Poster Session 2	Theme 1.1	158	Concert Hall
Winkler, Alexander*		Constrained projections of high northern latitudinal photosynthesis increase by satellite observations of vegetation greenness	Poster Session 2	Theme 1.1	163	Concert Hall
Woodard, Dawn*		Human and natural carbon feedbacks to global warming may be of similar magnitude	Poster Session 2	Theme 1.1	168	Concert Hall
Xi, Fengming*		Substantial global carbon uptake by cement carbonation	Poster Session 2	Theme 1.1	173	Concert Hall
Xu, Yongfu*		The trend of the air-sea exchange flux of natural carbon dioxide over the last 150 years	Poster Session 2	Theme 1.1	178	Concert Hall
Yin, Yi*		Tracking fossil fuel emission changes in the presence of natural carbon cycle variability	Poster Session 2	Theme 1.1	183	Concert Hall
Yu, Zhitong*		Sedimentary carbon burial in Bosten Lake over the past century	Poster Session 2	Theme 1.1	188	Concert Hall
Zeng, Ning*		The 2015-16 El Nino as depicted by a near real time (NRT) carbon cycle monitoring and analysis system	Poster Session 2	Theme 1.1	194	Concert Hall
Zhou, Lingxi*		Source/sink signature of atmospheric CO2 inferred from stable carbon isotopes at SDZ and LAN regional sites in China	Poster Session 2	Theme 1.1	200	Concert Hall
Zscheischler, Jakob*		An empirical spatiotemporal description of the global surface-atmosphere carbon fluxes: opportunities and data limitations	Poster Session 2	Theme 1.1	207	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
Basu, Sourish*		Quantifying Trends in Fossil Fuel CO2 Emissions Using Radiocarbon Measurements	Poster Session 3	Theme 1.2	7	Concert Hall
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
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
Borges, Viviane Francisca*		Amazon Atlantic outflow region carbon cycling constrained by atmospheric greenhouse gas data	Poster Session 3	Theme 1.2	23	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
Bozhinova, Denica*		14C in annual plants and the anthropogenic CO2 in the atmosphere	Poster Session 3	Theme 1.2	35	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
Brunner, Dominik*		Measurements and modelling of carbon dioxide in Switzerland: The CarboCount-CH project	Poster Session 3	Theme 1.2	43	Concert Hall
Buchanan, David*		Southern Ocean Uptake of Atmospheric CO2: Where should we measure it?	Poster Session 3	Theme 1.2	47	Concert Hall
Bukosa, Beata*		GEOS-Chem simulations of simultaneous greenhouse gas measurements (CO2, CH4 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 CO2 Concentrations, Co-spectra and Flux Measurements between Latest Standardized Automated CO2/H2O 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 CO2 Flux Data: Coupling Flux Towers and Networks with Proximal and Remote Sensing Data	Poster Session 3	Theme 1.2	59	Concert Hall

First Author (* if also presenting author)	Presenting Author (if other than first author)	Title	Poster Session	Theme	Poster board	Location
Campbell, Joel F.*		Column CO2 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 CO2, CH4 and O2 sensor package for underway measurement across the full river-ocean mixing regime	Poster Session 3	Theme 1.2	67	Concert Hall
Castro-Morales, Karel*		Three decades of carbon cycle reanalysis with the MPI-CCDAS	Poster Session 3	Theme 1.2	71	Concert Hall
Chen, Huilin*		AirCore observations of CO2/CH4/CO profiles and 14CO2 in the stratosphere	Poster Session 3	Theme 1.2	75	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 CO2 in the Ocean	Poster Session 3	Theme 1.2	83	Concert Hall
Crowell, Sean*		Simulation Experiments in Support of GeoCarb	Poster Session 3	Theme 1.2	87	Concert Hall
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 CO2 fluxes using space-based and in situ surface observations of atmospheric CO2	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 CO2 and CH4 in the Baltimore/Washington Area: A Guide to Local GHG Control	Poster Session 3	Theme 1.2	103	Concert Hall
Dobler, Jeremy T.*		Continuous monitoring and mapping of CO2 and CH4 concentrations on scales from 0.4 – 25 km2 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, Simon*		The Global Climate Observing System (GCOS) and the carbon cycle	Poster Session 3	Theme 1.2	115	Concert Hall
Eldering, Annmarie*		The OCO-3 Mission : Updated Overview of Science Objectives and Status	Poster Session 3	Theme 1.2	119	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 CO2 field in the atmosphere using lidar : current status and potential for carbon cycle studies.	Poster Session 3	Theme 1.2	131	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
Griffith, David*		Radon tracer flux measurements of CO2, N2O and CH4 in an agricultural environment	Poster Session 3	Theme 1.2	139	Concert Hall
Hoshina, Yu*		Separating short-term CO2 variation into biotic and fossil fuel components based on the atmospheric O2 and CO2 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 XCO2 record	Poster Session 3	Theme 1.2	147	Concert Hall
Huang, Yuanyuan*		Matrix approach to land carbon modeling: a case study with CLM4.5	Poster Session 3	Theme 1.2	151	Concert Hall
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
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, Ziqiang*		Exploiting error correlations between CO and CO2 in a carbon assimilation system	Poster Session 3	Theme 1.2	164	Concert Hall
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
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
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, Hyunjung*		Effect of assimilating aircraft CO2 observations in CarbonTracker	Poster Session 3	Theme 1.2	184	Concert Hall
Kirschbaum, Miko*		Plant-growth responses to elevated CO2 – a reanalysis of prior observations	Poster Session 3	Theme 1.2	190	Concert Hall
Kriest, Iris*		Insights into marine biogeochemical model uncertainty from systematic parameter calibration	Poster Session 3	Theme 1.2	196	Concert Hall
Krol, Maarten*		Carbonyl Sulphide: new ways of Observing the Climate System	Poster Session 3	Theme 1.2	203	Concert Hall
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
Lees, Kirsten Jennifer*		Measuring peatland carbon sequestration and emission by remote sensing	Poster Session 3	Theme 1.2	213	Concert Hall
Lindroth, Anders*		Atmospheric GHG measurements in ICOS Sweden	Poster Session 3	Theme 1.2	216	Concert Hall
Loh, Zoe M	Krummel, Paul B*	The Australian Greenhouse Gas Observation Network – current status and vision for the future	Poster Session 3	Theme 1.2	219	Concert Hall
Machida, Toshinobu*		Present activities and future plan for CONTRAIL project	Poster Session 4	Theme 1.2	4	Concert Hall
Mäkelä, Jarmo	Aalto, Tuula*	Multimodel parameter optimization of JSBACH canopy conductance, GPP and ET formulations against micrometeorological flux data at boreal sites	Poster Session 4	Theme 1.2	8	Concert Hall
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
Matsunaga, Tsuneo*		GOSAT and GOSAT-2 : Data Products, Science Achievements, and Future	Poster Session 4	Theme 1.2	16	Concert Hall
McKain, Kathryn*		Global observed CO2 distributions from the Atmospheric Tomography (ATom) Mission and comparison to the NOAA surface reference network, remote sensing observations from OCO-2, and a global inversion system	Poster Session 4	Theme 1.2	20	Concert Hall
Meijer, Yasjka*		State of play for a European operational monitoring system for fossil CO2 emissions	Poster Session 4	Theme 1.2	24	Concert Hall
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
Morgui, Josep-Anton*		Using the CLIMADAT atmospheric CO2 and CH4 dataset to evaluate the performance of a transport model over the Iberian Peninsula	Poster Session 4	Theme 1.2	36	Concert Hall

First Author (* if also presenting author)	Presenting Author (if other than first author)	Title	Poster Session	Theme	Poster board	Location
Mueller, Kim*		The challenge with background in urban GHG estimation: assessing the capability of quantifying background air mass using three different methods in the Washington DC and Baltimore area	Poster Session 4	Theme 1.2	40	Concert Hall
Müller, Michael*		In-situ long-term record of CO <sub>2</sub> 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 pCO <sub>2</sub> sensor in the Pacific Ocean	Poster Session 4	Theme 1.2	48	Concert Hall
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 CO <sub>2</sub> Distributions from a New JMA Inversion Analysis	Poster Session 4	Theme 1.2	56	Concert Hall
Nechita-Banda, Narcisa*		The effect of drought on the carbon cycle using a joint CO-CO <sub>2</sub> inversion system	Poster Session 4	Theme 1.2	60	Concert Hall
Neigh, Christopher S.R.*		Progress toward satellite estimates of temperate/boreal forest site-index for DGVMs	Poster Session 4	Theme 1.2	64	Concert Hall
Niwa, Yosuke*		Spatiotemporal variation of CO <sub>2</sub> flux in Southeast Asia estimated from CONTRAIL	Poster Session 4	Theme 1.2	68	Concert Hall
Oda, Tomohiro*		Mapping Fossil-Fuel Carbon Dioxide Emissions using Observations from Space	Poster Session 4	Theme 1.2	72	Concert Hall
Oh, Young-Suk*		Aircraft observations of XCO <sub>2</sub> and XCH <sub>4</sub> for evaluation of g-b FTS, GOSAT, and OCO-2 through comparison over TCCON site.	Poster Session 4	Theme 1.2	76	Concert Hall
Ott, Lesley*		Closing the budget on uncertainty in atmospheric CO <sub>2</sub> simulations using NASA's GEOS modeling system	Poster Session 4	Theme 1.2	80	Concert Hall
Patra, Prabir*		Anomalies in terrestrial carbon fluxes as derived from the Orbiting Carbon Observatory (OCO-2) in near-real time	Poster Session 4	Theme 1.2	84	Concert Hall
Peters, Wouter*		One year of airborne measurements of $\delta^{13}C$ in CO <sub>2</sub> over the Amazon	Poster Session 4	Theme 1.2	88	Concert Hall
Peylin, Philippe*		Multiple data stream assimilation in a Land Surface Model to improve regional to global simulated carbon budgets: synthesis and prospective with the ORCHIDEE model	Poster Session 4	Theme 1.2	92	Concert Hall
Phillips, Morgan C.*		Effects of Implementing Multiple Scales in a Global Climate Model on the Partitioning of Water in the Vegetation Canopy and Simulated Photosynthesis	Poster Session 4	Theme 1.2	96	Concert Hall
Pisso, Ignacio*		The URban Greenhouse gas Emissions assessment through inverse modeling (URGE) project: a pilot study in the Oslo area	Poster Session 4	Theme 1.2	100	Concert Hall
Plattner, Gian-Kasper*		Advancing Environmental Science Through Data Sharing	Poster Session 4	Theme 1.2	104	Concert Hall
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
Poulter, Ben*		Enabling teleconnection-based seasonal forecasts of global terrestrial carbon cycle dynamics	Poster Session 4	Theme 1.2	112	Concert Hall
Prasad, Kuldeep*		Coupling of Large Eddy Simulations with Mesoscale Meteorological Models to simulate the Aliso Canyon Natural Gas Leak Incident	Poster Session 4	Theme 1.2	116	Concert Hall
Ramonet, Michel*		Multi-instrument campaign to improve the characterization of the vertical distribution of greenhouse gases at Trainou site in central France	Poster Session 4	Theme 1.2	124	Concert Hall
Saito, Makoto*		GOSAT observations in global carbon cycle	Poster Session 4	Theme 1.2	128	Concert Hall
Saitoh, Naoko*		CO <sub>2</sub> vertical profiles in the troposphere observed by GOSAT/TANSO-FTS thermal infrared (TIR)	Poster Session 4	Theme 1.2	132	Concert Hall
Santoro, Maurizio*		A global dataset of forest biomass for the year 2010 obtained from multiple remote sensing observations: evidences, strengths and limitations	Poster Session 4	Theme 1.2	136	Concert Hall
Satar, Ece*		Four years of continuous CO <sub>2</sub> /CH <sub>4</sub> /CO measurements (2012-2016) at the Beromünster tall tower station in Switzerland	Poster Session 4	Theme 1.2	140	Concert Hall
Scholze, Marko*		Constraining terrestrial carbon fluxes by simultaneously assimilating observations of surface soil moisture and atmospheric CO <sub>2</sub> concentration into a model of the global terrestrial biosphere	Poster Session 4	Theme 1.2	144	Concert Hall
Sha, Mahesh Kumar	Deutscher, Nicholas*	Measurement of greenhouse gases from novel ground-based remote sensing instrumentations during the FRM4GHG campaign at the Sodankylä TCCON site	Poster Session 4	Theme 1.2	148	Concert Hall
Shvidenko, Anatoly*		Carbon budget of Russian forests in 21st century	Poster Session 4	Theme 1.2	152	Concert Hall
Singh, Upendra Nath*		A novel 2-micron IPDA lidar for ground, air and space-borne measurement of carbon dioxide	Poster Session 4	Theme 1.2	156	Concert Hall
Stocker, Benjamin David*		Soil moisture effects are underestimated by global GPP datasets	Poster Session 4	Theme 1.2	160	Concert Hall
Super, Ingrid*		A multi-tracer constraint on CO <sub>2</sub> emissions from an urban-industrial complex	Poster Session 4	Theme 1.2	165	Concert Hall
Sutton, Adrienne June*		Moored autonomous observing of air-sea CO <sub>2</sub> flux and ocean acidification: A growing global network	Poster Session 4	Theme 1.2	170	Concert Hall
Terao, Yukio*		Observations of atmospheric radiocarbon in carbon dioxide at Hateruma Island and Cape Ochi-ishi, Japan	Poster Session 4	Theme 1.2	175	Concert Hall
Turner, Sabrina B	Turner, David P*	Forest Biomass Change over a Coniferous Forest Landscape Based on Tree-level Analysis from Repeated Lidar Surveys	Poster Session 4	Theme 1.2	180	Concert Hall
Umezawa, Taku*		Variations of tropospheric CO <sub>2</sub> over the Asia-Pacific region observed by the CONTRAIL commercial airliner measurements	Poster Session 4	Theme 1.2	185	Concert Hall
V. Gatti, Luciana	S. C. Correia, Caio*	A New Approach to estimate GHG content of air entering the Amazon basin for purpose of GHG fluxes using air column budgets	Poster Session 4	Theme 1.2	191	Concert Hall
Vogel, Felix*		Advances in urban GHG emission estimates over Paris and Recife (Brazil) based on atmospheric inversion	Poster Session 4	Theme 1.2	197	Concert Hall
Wang, Hengmao*		Regional Carbon Flux Estimates Using OCO-2 XCO <sub>2</sub> Observations	Poster Session 4	Theme 1.2	204	Concert Hall
Wang, James Shih*		An Inversion Analysis of Recent Variability in CO <sub>2</sub> Fluxes Using GOSAT and In Situ Observations	Poster Session 4	Theme 1.2	211	Concert Hall
Whetstone, James Robert*		The NIST Urban Greenhouse Gas Testbed Project: A Platform for Harmonization and Standardization	Poster Session 4	Theme 1.2	214	Concert Hall
White, Emily*		Top-down carbon dioxide flux estimates for the UK using a high-density tall tower network and a hierarchical Bayesian inversion scheme	Poster Session 4	Theme 1.2	217	Concert Hall
Worden, John*		A Decadal Scale Record of Total Column and Lower-Tropospheric Methane	Poster Session 4	Theme 1.2	220	Concert Hall

First Author (* if also presenting author)	Presenting Author (if other than first author)	Title	Poster Session	Theme	Poster board	Location
Yan, Hao*		Improved global simulations of gross primary product based on a new definition of water stress factor and a separate treatment of C3 and C4 plants from 2000 to 2014	Poster Session 4	Theme 1.2	201	Concert Hall
Yoshida, Yukio*		Overview of the GOSAT and GOSAT-2 SWIR products	Poster Session 4	Theme 1.2	208	Concert Hall
Adloff, Markus*		Different carbon cycle sensitivities in transient simulations initialized from glacial and preindustrial conditions	Poster Session 5	Theme 2	161	Concert Hall
Bereiter, Bernhard*		Mean ocean temperature change during the last glacial transition	Poster Session 5	Theme 2	166	Concert Hall
Butzin, Martin*		Exploring glacial-interglacial variations of the marine carbon isotope record with RECOM-ciso	Poster Session 5	Theme 2	171	Concert Hall
Eggleston, Sarah*		Comparison of the atmospheric CO2 sink due to the marine soft tissue pump during the LGM and MIS 4	Poster Session 5	Theme 2	192	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
Gottschalk, Julia*		Ventilation changes and carbon cycle dynamics in the deep South Indian Ocean: an important component of atmospheric CO2 changes during the last deglaciation?	Poster Session 5	Theme 2	181	Concert Hall
Heinemann, Malte*		Particle ballasting in the Hamburg Ocean Carbon Cycle model HAMOCC: uncertainties and effect on glacial-interglacial pCO2	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 pCO2 estimates	Poster Session 5	Theme 2	198	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
Mächler, Lars*		Towards a novel continuous sublimation extraction/laser spectroscopy method to unlock the greenhouse gas record in deepest ice	Poster Session 5	Theme 2	202	Concert Hall
Mouchet, Anne*		How well do benthic-planktonic radiocarbon ages approximate ocean ventilation?	Poster Session 5	Theme 2	205	Concert Hall
Nehrbass-Ahles, Christoph*		A high-resolution record of millennial scale atmospheric CO2 variations during Marine Isotope Stage 9-11	Poster Session 5	Theme 2	209	Concert Hall
Shin, Jinhwa*		Atmospheric CO2 variations on millennial-scale during MIS 6	Poster Session 5	Theme 2	212	Concert Hall
Stoll, Heather*		Reconceiving the phytoplankton proxy for reconstruction of atmospheric CO2 beyond the ice cores	Poster Session 5	Theme 2	215	Concert Hall
Winterfeld, Maria	Meyer, Vera*	Mobilization of old terrestrial carbon in the North Pacific realm caused by permafrost thawing, sea-level rise and ice-sheet melting during the last deglaciation	Poster Session 5	Theme 2	218	Concert Hall
Yu, Zicheng*		Peat Formation and Dynamics in Arctic Tundra: Implications for Regional Carbon Balance	Poster Session 5	Theme 2	221	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
Bopp, Laurent*		The future ocean carbon sink: any role for a more complex biogeochemistry?	Poster Session 5	Theme 4	357	Auditorium
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
Davies-Barnard, Taraka*		Effects of 'natural' to 'geoengineered' nitrogen deposition on the carbon cycle	Poster Session 5	Theme 4	363	Auditorium
Ferrer Gonzalez, Miriam*		Impacts of Different Climate Engineering Scenarios on Rates of Environmental Change and Seasonal Variability	Poster Session 5	Theme 4	366	Auditorium
Gasser, Thomas*		Budgets of allowable anthropogenic CO2 emissions strongly reduced by permafrost thawing	Poster Session 5	Theme 4	369	Auditorium
Hauck, Judith*		The fate of carbon and nutrients exported out of the Southern Ocean	Poster Session 5	Theme 4	372	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
Kim, Yoon Soo*		Changes in Forest Vegetation by GHG and Limited Carbon Sink by Forests in Korea	Poster Session 5	Theme 4	378	Auditorium
Köhler, Peter*		Using the Suess effect on the stable carbon isotope to distinguish the future from the past in radiocarbon	Poster Session 5	Theme 4	381	Auditorium
Krause, Andreas	Arnth, Almut*	Synergies and trade-offs between ecosystem service indicators in afforestation and bioenergy land-use scenarios	Poster Session 5	Theme 4	384	Auditorium
Kurz, Werner A.*		How can the forest sector contribute to achieving net negative emission goals?	Poster Session 5	Theme 4	387	Auditorium
Kysely, Jan*		Heat waves and cold spells in Central Europe under different climate change scenarios	Poster Session 5	Theme 4	390	Auditorium
Lovenduski, Nicole*		Ocean and land carbon uptake: Can we predict the future?	Poster Session 5	Theme 4	393	Auditorium
Mayer, Dorothea George*		Climatic consequences of large-scale herbaceous biomass plantations as climate engineering tools	Poster Session 5	Theme 4	396	Auditorium
Muri, Helene*		The 1.5C target: potential and implications of large scale BECCS deployment	Poster Session 5	Theme 4	399	Auditorium
Navarro, Andres*		Precise modeling of anthropogenic CO2 emissions in climate models. Past and future emission estimates using the POPEM model.	Poster Session 5	Theme 4	402	Auditorium
Orr, James C.*		Seasonal amplitude increase in acidity and decrease in CaCO3 saturation states in future scenarios with CMIP5 models	Poster Session 5	Theme 4	405	Auditorium
Oschlies, Andreas*		An elevated marine oxygen inventory in a warmer future ocean?	Poster Session 5	Theme 4	408	Auditorium
Parazoo, Nicholas C*		Emerging cold season emissions in Arctic-Boreal ecosystems and vulnerability to climate change	Poster Session 5	Theme 4	411	Auditorium
Paulsen, Hanna*		Impacts of phytoplankton light absorption on the response of tropical climate to increasing CO2	Poster Session 5	Theme 4	414	Auditorium
Plazzotta, Maxime*		Carbon cycle recovery to Solar Radiation Management: what can be learned from GeoMIP simulations?	Poster Session 5	Theme 4	417	Auditorium
Powell, Tom*		The role of forest recovery and afforestation in achieving the 2°C warming threshold	Poster Session 5	Theme 4	420	Auditorium
Ridge, Sean*		Arctic Freshwater Export Drives Reduction of Subpolar North Atlantic Air-Sea Fluxes of Anthropogenic Carbon (1990-2100)	Poster Session 5	Theme 4	423	Auditorium
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
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
Schwinger, Jörg*		Carbon-concentration and carbon-climate feedbacks under negative emissions	Poster Session 5	Theme 4	432	Auditorium
Shi, Xueli*		Numerical simulations of the climate responses to various scenarios with the Beijing Climate Center Climate System Model	Poster Session 5	Theme 4	435	Auditorium

First Author (* if also presenting author)	Presenting Author (if other than first author)	Title	Poster Session	Theme	Poster board	Location
Sitch, Stephen*		What are the carbon and water costs of different land-based climate mitigation options?	Poster Session 5	Theme 4	438	Auditorium
Syktus, Jozef*		Biophysical climate benefits of restored savanna woodlands under global warming scenario	Poster Session 5	Theme 4	441	Auditorium
Tachiiri, Kaoru*		ESM-IAM linkage in the Program for Risk Information on Climate Change and a following project	Poster Session 5	Theme 4	444	Auditorium
Tanaka, Katsumasa*		Is the zero emission requirement aligned with 2°C and 1.5°C stabilization targets?	Poster Session 5	Theme 4	447	Auditorium
Tjiputra, Jerry Fong*		Land and ocean carbon cycle responses to three radiation management geoengineering methods	Poster Session 5	Theme 4	449	Auditorium
Zhang, Qian*		Responses of terrestrial carbon cycle and its interannual sensitivities to climate geo-engineering during the 21st century	Poster Session 5	Theme 4	451	Auditorium
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
Androulakis, 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
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
Battle, Mark Owen*		Measurements of the O <sub>2</sub> /CO <sub>2</sub> exchange ratio at Harvard Forest	Poster Session 6	Theme 3.1	307	Auditorium
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
Brady, Riley Xavier*		Carbon Uptake and Ocean Acidification in Eastern Boundary Upwelling Systems	Poster Session 6	Theme 3.1	311	Auditorium
Broullón Durán, Daniel*		Annual and monthly climatologies of seawater CO <sub>2</sub> chemistry variables: A neural network approach.	Poster Session 6	Theme 3.1	313	Auditorium
Buchmann, Nina*		Biospheric-atmospheric gas exchange, carbon sequestration and climate sensitivity of two mountain forests	Poster Session 6	Theme 3.1	315	Auditorium
Burton, Chantelle Amanda*		Modelling climate change impacts on fire and feedbacks on the carbon cycle	Poster Session 6	Theme 3.1	317	Auditorium
C. Pardo, Paula*		Carbon uptake and Biogeochemical changes in the Southern Ocean, South of Tasmania	Poster Session 6	Theme 3.1	319	Auditorium
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
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
Disa, Deniz*		Modeling the Biogeochemistry of Coral Ecosystems under Ocean Acidification and Global Warming	Poster Session 6	Theme 3.1	325	Auditorium
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
Franco, Ana C.*		Interannual variability versus anthropogenic trends in ocean acidification in the Humboldt Current System	Poster Session 6	Theme 3.1	329	Auditorium
Frischknecht, Martin*		Interannual variability of air-sea CO <sub>2</sub> exchange, biological production and carbon export in the California Current System from 1979 to 2016	Poster Session 6	Theme 3.1	331	Auditorium
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
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
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
Goll, Daniel	Raddatz, Thomas*	Climate-carbon-nitrogen interactions in an Earth System model framework	Poster Session 6	Theme 3.1	339	Auditorium
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
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
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
Hilman, Boaz*		Comparison of CO <sub>2</sub> and O <sub>2</sub> fluxes demonstrate retention of respired CO <sub>2</sub> 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
Huang, Mengtian*		Seasonal responses of terrestrial ecosystem water-use efficiency to climate change	Poster Session 6	Theme 3.1	353	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
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
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, Liqing*		pH distributions and controlling mechanisms in the global ocean	Poster Session 6	Theme 3.1	364	Auditorium
Jiao, Nianzhi*		Biological Carbon Sequestration in the Ocean: Current Understanding and Future Research Trends	Poster Session 6	Theme 3.1	367	Auditorium
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
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, Yongwon*		Effect of crustose lichen on soil CO <sub>2</sub> efflux in sphagnum moss regime of tundra, west Alaska	Poster Session 6	Theme 3.1	376	Auditorium
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
Koren, Gerbrand*		A global 3D model for the triple oxygen isotopic ratios in atmospheric CO <sub>2</sub>	Poster Session 6	Theme 3.1	385	Auditorium
Kosugi, Naohiro*		Concurrent underway measurements of surface pCO <sub>2</sub> and total alkalinity in Kuroshio-Oyashio transition region	Poster Session 6	Theme 3.1	388	Auditorium

First Author (* if also presenting author)	Presenting Author (if other than first author)	Title	Poster Session	Theme	Poster board	Location
Kubota, Kaoru*		Rapid decline in pH of coral calcification fluid due to ocean acidification	Poster Session 6	Theme 3.1	391	Auditorium
Kwon, Bong-Oh*		Acute effects of high CO2 on marine medaka, <i>Oryzias melastigma</i>	Poster Session 6	Theme 3.1	394	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
Langlais, Clothilde*		Stationary Rossby waves dominate subduction of anthropogenic carbon in the Southern Ocean	Poster Session 6	Theme 3.1	400	Auditorium
Lauerwald, Ronny*		Simulating C transfers through the terrestrial-aquatic continuum of the Amazon	Poster Session 6	Theme 3.1	403	Auditorium
Lefevre, Nathalie*		Air-sea CO2 flux on the continental shelves of the western tropical Atlantic	Poster Session 6	Theme 3.1	406	Auditorium
Li, Yue*		Disentangling biotic and climatic effects on interannual variability in water use efficiency across terrestrial ecosystems in China	Poster Session 6	Theme 3.1	409	Auditorium
Linkhorst, Annika*		Variability of methane ebullition across timescales in a tropical reservoir	Poster Session 6	Theme 3.1	412	Auditorium
Liu, Huizhi*		Biophysical effects on the interannual variation in carbon dioxide exchange of an alpine meadow on the Tibetan Plateau	Poster Session 6	Theme 3.1	415	Auditorium
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
Louchard, Domitille*		The impact of the Amazon River plume on the CO2 sea-air exchange in the Tropical Atlantic Ocean	Poster Session 6	Theme 3.1	424	Auditorium
Machado-Silva, Fausto	Gouveia, Celia Marina Pedroso*	Droughts trigger reduction of net primary production in the Amazon	Poster Session 6	Theme 3.1	427	Auditorium
Maerz, Joeran*		Evaluating the relevance of microscale processes for carbon fluxes with a global ocean carbon cycle model	Poster Session 6	Theme 3.1	430	Auditorium
Maier, Marie-Sophie*		Spatial and temporal variations of CO2 and CH4 fluxes in the Danube Delta	Poster Session 6	Theme 3.1	433	Auditorium
Mandic, Magda*		Measuring the CO2 isotopic composition in terrestrial ecosystems Studies in natural and controlled environments	Poster Session 6	Theme 3.1	436	Auditorium
Marquez Lencina Avila, Jannine*		Evolution of the carbonate properties in the Gerlache Strait, Northern Antarctic Peninsula	Poster Session 6	Theme 3.1	439	Auditorium
Mendonça, Raquel*		Organic Carbon Burial in Global Lakes and Reservoirs	Poster Session 6	Theme 3.1	442	Auditorium
Moreau, Sebastien*		Transfrontal carbon transport by an Antarctic Circumpolar Current eddy	Poster Session 6	Theme 3.1	445	Auditorium
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
Murdiyoso, Daniel*		Carbon burial and land building in low-laying tropical coastal wetlands: a new way to integrate climate change mitigation and adaptation	Poster Session 7	Theme 3.1	306	Auditorium
Nakhavali, Mahdi*		Testing Dissolved Organic Carbon representation in the JULES-DOCM and ORCHIDEE-SOM	Poster Session 7	Theme 3.1	308	Auditorium
Nydahl, Anna C*		Moderate effect of allochthonous organic carbon input on CO2 production in a well-buffered mesotrophic lake	Poster Session 7	Theme 3.1	310	Auditorium
Pandey, Sudhanshu*		What caused the abrupt increase in the methane growth rate during 2014?	Poster Session 7	Theme 3.1	312	Auditorium
Pika, Philip*		Exploring The Influence Of Organic Matter Reactivity On Benthic-Pelagic Coupling On The Global Coastal And Open Ocean	Poster Session 7	Theme 3.1	316	Auditorium
Pilcher, Darren J.*		Simulated impact of glacial runoff on CO2 uptake and aragonite saturation state in the Coastal Gulf of Alaska	Poster Session 7	Theme 3.1	318	Auditorium
Popa, Maria Elena*		Correlations between diurnal variations of atmospheric oxygen and carbon dioxide	Poster Session 7	Theme 3.1	320	Auditorium
Puglini, Matteo*		Sub-sea permafrost modelling: 1D vertical extent, sediment reaction-transport scheme and in situ GHG formation	Poster Session 7	Theme 3.1	322	Auditorium
Rödenbeck, Christian*		Contrasting the temperature responses of terrestrial Net Ecosystem Exchange in different seasons as inferred from a global interannual atmospheric CO2 inversion	Poster Session 7	Theme 3.1	324	Auditorium
Shrestha, Gyami*		Recent U.S. Efforts to Advance Integrated Carbon Cycle Research and to Assess the State of North American Carbon Cycle	Poster Session 7	Theme 3.1	326	Auditorium
Six, Katharina Dorothea*		Insights into the carbon cycle of the Benguela upwelling system: a global ocean model approach	Poster Session 7	Theme 3.1	328	Auditorium
Snöålv, Jo Tara Caroline*		The importance of terrestrial and in-stream derived POC for limnic carbon storage in a tropical reservoir	Poster Session 7	Theme 3.1	330	Auditorium
Spring, Aaron*		Internal variability of the Southern Ocean carbon sink in MPI-ESM large ensemble simulations: assessment of westerly wind changes	Poster Session 7	Theme 3.1	332	Auditorium
Steinhoff, Tobias	Marandino, Christa A.*	Eddy covariance direct CO2 flux measurements and carbon cycling in the western Indian Ocean	Poster Session 7	Theme 3.1	334	Auditorium
Takano, Yohei*		Impact of decadal climate variability on Pacific oxygen changes in MPI-ESM's large ensemble simulations	Poster Session 7	Theme 3.1	336	Auditorium
Telszewski, Maciej*		Fit-for-purpose Global Ocean Observing System – built on Requirements, promoting Alignment, delivering Relevant Information	Poster Session 7	Theme 3.1	338	Auditorium
Terhaar, Jens*		Lateral input dominates anthropogenic carbon budget in high-resolution simulations of the Arctic Ocean	Poster Session 7	Theme 3.1	340	Auditorium
Thomas, Helmuth*		Sediments, eutrophication and ocean acidification in the North Sea	Poster Session 7	Theme 3.1	342	Auditorium
Thomas, Rebecca T.*		Using ecosystem light-use efficiency to analyse recent changes in vegetation at high northern latitudes	Poster Session 7	Theme 3.1	344	Auditorium
Unger, Nadine*		Air pollution effects on the carbon cycle	Poster Session 7	Theme 3.1	346	Auditorium
van Eck, Christel Melissa*		Can Dynamic Global Vegetation Models Reproduce Extreme Browning Events in Vegetation Productivity?	Poster Session 7	Theme 3.1	348	Auditorium
van Schaik, Erik*		Simultaneous assimilation of stable carbon isotopes in CO2 and sun-induced fluorescence within a terrestrial biosphere model	Poster Session 7	Theme 3.1	350	Auditorium
Wang, Miaomiao*		An analysis of the change of growing season length and its effects on gross primary productivity in Northeast China	Poster Session 7	Theme 3.1	352	Auditorium
Wang, Shaoqiang*		Spatio-temporal patterns of GPP simulation based on BEPS and LUE models in China from 1982 to 2012	Poster Session 7	Theme 3.1	356	Auditorium
Williams, Christopher A.*		Evidence and attribution of enhanced terrestrial carbon uptake at two scales: Global lands and North American forests	Poster Session 7	Theme 3.1	359	Auditorium

First Author (* if also presenting author)	Presenting Author (if other than first author)	Title	Poster Session	Theme	Poster board	Location
Wu, Mousong*		Multi-site evaluation of ecosystem carbon cycles: A comparison of a carbon cycle data assimilation system (CCDAS) with process-based model (LPJ-GUESS)	Poster Session 7	Theme 3.1	362	Auditorium
Xue, Liang*		Sea surface carbon dioxide at the Georgia time series site (2006-2007): air-sea flux and controlling processes	Poster Session 7	Theme 3.1	365	Auditorium
Xueref-Remy, Irène*		Assessing the atmospheric forcing of CO2 emissions issued by the Aix-Marseille metropolis region from a top-down approach : towards verifying bottom-up regional inventories and estimating the anthropogenic impacts on regional ecosystems.	Poster Session 7	Theme 3.1	368	Auditorium
Yin, Kedong*		Influence of human activity on riverine organic C:N ratio along the Pearl River Estuary in south China	Poster Session 7	Theme 3.1	371	Auditorium
Zhang, Xia*		Development of A Microbial-based Soil Organic Carbon Decomposition Model and Test against Field Measurements	Poster Session 7	Theme 3.1	374	Auditorium
Zhou, WenYan*		Sensitivity test of simulated surface albedo with different radiation schemes on vegetation in a land surface model	Poster Session 7	Theme 3.1	377	Auditorium
Berthet, Sarah*		Biogeochemical coarsening in a global 1/4° NEMO-PISCES numerical solution	Poster Session 7	Theme 3.2	380	Auditorium
Calle, Leonardo*		Process attribution of observation-model error via time-series segmentation analysis	Poster Session 7	Theme 3.2	383	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
Gloege, Luke*		Constraining the Potential Influence of the Ocean Biological Pump on Atmospheric pCO2	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
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
Hajima, Tomohiro*		Strength of CO2 fertilization effect in a new ESM with explicit terrestrial carbon-nitrogen interactions	Poster Session 7	Theme 3.2	401	Auditorium
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
Hu, Pin hsin*		Does lower troposphere turbulent CO2-exchange determine plant growth?	Poster Session 7	Theme 3.2	407	Auditorium
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
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
Ji, Duoying*		Improving the terrestrial carbon cycle simulated by BNU-ESM	Poster Session 7	Theme 3.2	419	Auditorium
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
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
Laufkötter, Charlotte*		Temperature-dependent remineralization - impact on the marine carbon cycle	Poster Session 7	Theme 3.2	431	Auditorium
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
Morée, Anne Lien*		Southern Ocean controls of marine $\Delta\delta^{13}C$ – a modelling study	Poster Session 7	Theme 3.2	437	Auditorium
Mystakidis, Stefanos	Davin, Edouard L.*	Hydrological and biogeochemical constraints on terrestrial carbon cycle feedbacks	Poster Session 7	Theme 3.2	440	Auditorium
Reick, Christian H.*		On the emerging constraint for temperature sensitivity of tropical land carbon	Poster Session 7	Theme 3.2	443	Auditorium
Stemmler, Irene*		The HAMBURG Ocean Carbon Cycle model in the icosahedral general ocean circulation model ICON-O	Poster Session 7	Theme 3.2	446	Auditorium
Still, Christopher*		Global modeling of C4 grass distribution and carbon cycling: expanding the range of grass functional diversity represented in models with lineage-based functional types	Poster Session 7	Theme 3.2	448	Auditorium
Wang, XiuJun*		Process Modeling for the Carbon Cycle of the Tropical Pacific Ocean: A Basin Scale Model Evaluation and Analyses	Poster Session 7	Theme 3.2	450	Auditorium
Zhu, Zhiliang*		Carbon Balance of Boreal and Arctic Alaska and Tropical Hawaii Ecosystems	Poster Session 7	Theme 3.2	452	Auditorium
Zhuang, Qianlai*		Impacts of elevated atmospheric CO2 on global plant productivity through fertilization effects and radiative forcing and physiology-mediated climate feedback	Poster Session 7	Theme 3.2	453	Auditorium