

Monday, 21 September		Tuesday, 22 September		Wednesday, 23 September		Thursday, 24 September	
8:30	InGOS Final Meeting	8:30	Measurement innovations and data harmonisation Walking in	8:30	From measurement to policy making Walking in	8:30	From local scale to European maps Walking in
9:00	Optional: Parallel WP sessions on demand	9:00	Parallel WP sessions  WP2 & WP3 WP4 & WP17  WP11 & WP16  WP5 & WP18	<b>Session 4: Halocarbon observations</b> 9:00 Reimann: Fourth generation anthropogenic halogenated greenhouse gases 9:15 Martin: InGOS Halocarbon round robin intercomparison (IHRR) Schoenenberger: Recently discovered halogenated greenhouse gases HCFC-31 and HCFC-133a in the atmosphere 9:30 Engel: Regular GC-TOF observations at Taunus Observatory and Mace Head 9:45 Bielewski: Changes in CFCs and SF <sub>6</sub> concentration in air of southern Poland 10:00 Laube: Atmospheric lifetime implications for SF <sub>6</sub> from stratospheric observations 10:15 Coffee break		<b>Session 8: Emissions on non-CO<sub>2</sub> greenhouse gases: oceanic process studies</b> <b>Keynote speaker: Rik Wanninkhof</b> 9:00 Oceanic sources and sinks of non-CO <sub>2</sub> greenhouse gases: Lessons learned from constraining sea-air CO <sub>2</sub> fluxes 9:30 Bange: The ocean as a source of nitrous oxide and methane 9:45 Arevalo-Martinez: Nitrous oxide emissions from eastern boundary ecosystems: Case studies from Peru and Benguela upwelling regions 10:00 Lavric: South African trace gas experiment (SATRE) – Coordinated continuous ocean-atmosphere measurements onboard the RV Meteor 10:15 Rehder: Automated trace gas monitoring on a ship of opportunity – Results from the Baltic Sea	
10:30	Coffee Break Parallel WP sessions	10:30	Coffee Break <b>Session 1: Observation platforms</b>	<b>Session 5: Novel tracers: Isotopes and Multi-tracer methods</b> 11:00 Eyer: Real-time analysis of δ <sup>13</sup> C- and δD-CH <sub>4</sub> in ambient air with laser spectroscopy: Method development and first intercomparison results 11:15 Röckmann: High temporal resolution measurements of the isotopic composition of methane in Europe 11:30 Monteil: Modelling the variability of atmospheric CH <sub>4</sub> and δ <sup>13</sup> C-CH <sub>4</sub> over Europe 11:45 Frank: Methane and its isotopologues simulated with a chemistry-climate model to evaluate the atmospheric burden and the uncertainty of emissions 12:00 Nisbet: The use of C-isotopes in understanding the growth in atmospheric methane 2007-2014 12:15 Kooijmans: Understanding COS fluxes in a boreal forest: towards COS-based GPP estimates. 12:30 Lunch		<b>Session 9: Remote sensing observations</b> 11:00 Boesch: Remote sensing of methane from the ground, air and space 11:15 Hu: Satellite remote sensing of methane from GOSAT to TROPOMI measurements 11:30 Chen: AirCore, aircraft, and FTS measurement campaign at Sodankylä 11:45 Warneke: Ground based remote sensing of greenhouse gases – recent developments and their use for satellite and model validation 12:00 Hase: A novel portable FTIR spectrometer for the observation of CH <sub>4</sub> and CO <sub>2</sub> sources 12:15 Bovensmann: Detection and quantification of methane and CO <sub>2</sub> hot spot emissions with MAMAP aircraft observations 12:30 Lunch	
11:00	WP6  WP13 WP14  WP15	11:00	<b>Keynote speaker: Toshinobu Machida</b> Observation of atmospheric CH <sub>4</sub> using aircraft platform  11:30 Helfter: Ship-borne observations of trace gas concentrations at the UK outflow 11:45 Holst: Airborne measurements of greenhouse gas fluxes in subarctic regions 12:00 Vermeulen: Improvements of the Spectronus FTIR instrument for application in static mode at tall towers 12:15 Zazzeri: The use of mobile measurements to track regional sources of Methane Emissions in the UK	<b>Session 6: Flux measurements, ecosystem-scale and process studies</b> <b>Keynote speaker: Torben Christensen:</b> Methane emissions from the Arctic in a global context 13:30 Halmeemäki: Revealing sources of CH <sub>4</sub> in a boreal upland forest 14:00 Sonderfeld: Methane emissions from a UK landfill site – Emission ratios and flux estimation 14:15 Kiese: 3 years of N <sub>2</sub> O and CH <sub>4</sub> exchange of intensive and extensive managed pre-alpine grassland ecosystems: current vs. climate change conditions 14:45 Bureau: Combining three different methodologies to quantify N <sub>2</sub> O emissions at the landscape scale on the OS2 INGOS site (Central France) 15:00 Cowan: Improved understanding of agricultural N <sub>2</sub> O emissions using a combination of chambers together with eddy covariance flux measurements 15:15 Loubet: Bottom-up and top-down approaches at the landscape scale, over a mixed landscape 15:30 Coffee break		<b>Session 10: Inverse modelling</b> 13:30 Ostler: The imprint of stratospheric transport on column-averaged methane 13:45 Bergamaschi: Inverse modelling of European CH <sub>4</sub> and N <sub>2</sub> O emissions 14:00 Karstens: Regional-scale atmospheric inversion estimates of European CH <sub>4</sub> and N <sub>2</sub> O emissions 14:15 Pandey: Using satellite derived CH <sub>4</sub> / CO <sub>2</sub> columns in CH <sub>4</sub> flux inversions 14:30 Brunner: Top-down estimation of European halocarbon emissions with four independent inversion systems 14:45 Hensen: The Cabauw emission indicator for the Netherlands  Final InGOS Coffee Break	
12:30	Lunch	12:30	Lunch	12:30		12:30	
13:30	Welcome	<b>Session 2: Long-time and large scale observations</b>		<b>Session 7: Climate change and its effect in a socio-economic context</b>		<b>Session 10: Inverse modelling</b>	
13:40	InGOS: success in 100 minutes!	13:30	<b>Keynote speaker: Ed Dlugokencky:</b> What have we learned from three decades of atmospheric CH <sub>4</sub> measurements?	16:00 Pihlatie: Seasonal and diurnal variation in CO fluxes from an agricultural bioenergy crop van 16:15 Asperen: The use of FTIR-spectrometry to measure (greenhouse) gas fluxes at ecosystem scale		16:00	
13:40	WP1 & WP7 & WP8 & WP9 & WP10	14:00	Paris: Integrated Carbon Observing System - greenhouse gas observations for GEO and Copernicus	16:30 <b>Keynote: Susan Buckingham</b>		16:30	
13:50	WP2 & WP3	14:15	Zhou: High accuracy measurement of non-CO <sub>2</sub> greenhouse gases and application in China	17:00 Blok: There are many roads to Paris		17:00	
14:00	WP12	14:30	Barlow: Observed changes in the amplitude and phase of the methane seasonal cycle at high northern latitudes	17:15 Velders: Future atmospheric abundances and climate forcings from scenarios of global and regional hydrofluorocarbon (HFCs) emissions		17:15	
14:10	WP4 & WP17	<b>Session 3: QA and data harmonization / storage</b>		17:30 <b>OPTION</b>		17:30	
14:20	WP11 & WP16	14:45	Hammer: "Data harmonization and quality management for atmospheric GHG measurements: what have we learned in the InGos project."	17:45 <b>OPTION</b>		17:45	
14:30	WP5 & WP18	15:00	Tarasova: Global framework for observations and analysis of greenhouse gases in the atmosphere: Global Atmosphere Watch Programme	18:00 <b>End</b>		18:00	
14:40	WP6	15:15	Nicolini: Experimental assessment of storage variability for different GHGs: implications for eddy covariance measurements	20:00 Conference Dinner		20:00	
14:50	WP13	15:30	Coffee break			20:00	
15:00	WP14	16:00	<b>Poster session</b>			20:00	
15:10	WP15	18:00	End			20:00	
15:30	Coffee break					20:00	
16:00	Constructors meeting, Finalizing InGOS					20:00	
18:00	End					20:00	
19:00	SAB meeting (1h)					20:00	
20:00	Ice-breaker					20:00	