5th International Workshop on CO₂/CH₄ DIAL remote sensing (Chikushi Campus, Kyushu University, March 6 and 7, 2012)

Agenda March 6, 2012 -	Day 1
9:20-9:25	Welcome note
1. Workshop ob	
9:25-9:30	Pierre H. Flamant (IPSL, France), Robert T. Menzies (NASA JPL, US)
-	mission program in Japan and GOSAT project
9:30-10:00	JAXA's future Earth Observation Mission
10:00-10:30	Masakatsu Nakajima (JAXA, Japan) Benefit of GOSAT observations to regional CO2 flux estimation Hiroshi Takagi (NIES, Japan)
10:30-11:00	COFEE BREAK
3. Earth observa	ation missions
11:00-11:30	MERLIN mission: Satellite aspect and issues
11:30-12:00	Pierre Flamant et. al, (IPSL, France) New results from MERLIN performance analysis Gerhard Ehret et. al, (DLR, Germany)
12:00-12:30	CHARM-F, the airborne pulsed direct detection IPDA for CO ₂ and CH ₄ measurement: current developments and future plans Andreas Fix et. al, (DLR, Germany)
12:30-13:30	LUNCH
13:30-14:00	Summary of progress with the ASCENDS OSSE David Crisp (NASA JPL, US)
14:00-14:30	ISS-JEM lidar observation of vegetation experiment Kazuhiro Asai et. al, (TIT, Japan)
14:30-15:00	GRAIL: Green and Blue Carbon Budget Investigation by Lidar on ISS Pierre H. Flamant (IPSL, France)
15:00-15:30	COFEE BREAK
4. Airborne me	asurement 1
15:30-16:00	JPL airborne Laser Absorption Spectrometer 2011 flight campaign highlights and data products Robert T. Menzies (NASA JPL, US)
16:00-16:30	Advancements in Airborne IM-CW Lidar Measurements of CO_2 in 1.57-um Region
	Edward V. Browell et al. (NASA LaRC, US; presented by Wallace Harrison)
5. Ground-base	d CO ₂ , CH ₄ , and other gas measurements 1
16:30-17:00	Recent results of ground-based CO ₂ experiment at NICT: atmospheric and hard target returns Shoken Ishii et al. (NICT, Japan)
17:00-19:00	Get Together at "Tea room Sonne" Adjourn

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Agenda March 7, 2012 - Day 2 6. Ground-based CO ₂ , CH ₄ , and other gas measurements 2		
9:00-9:30	Profiling tropospheric water vapor using the CO ₂ DIAL system developed in NICT: A sensitivity study Philippe Baron et. al, (NICT, Japan)	
9:30-10:00	Direct detection 1.6µm CO ₂ DIAL for measurements of concentration	
10:00-10:30	profiles in the troposphere Yasukuni Shibata et. al, (TMU, Japan) Recent progress towards the development of 2-micron pulsed direct detection lidar for integrated path differential absorption measurement of CO_2	
	U. N. Singh et. al, (NASA LaRC, US)	
10:30-11:00	COFEE BREAK	
11:30-12:00	COWI/g: CO2 and Wind ground-based Lidar, preliminary results Fabien Gibert et. al, (IPSL, France; Presented by Pierre H. Flamant)	
7. Airborne me 12:00-12:30	casurement 2 CO ₂ mixing ratio retrievals: measurement bias considerations and implications for payload and ancillary data requirements Robert T. Menzies (NASA JPL, US)	
12:30 - 13:30	LUNCH	
13:30-14:00	Analysis of FM-CW 1.57um-LAS system for separation of cloud/ground signals	
14:00-14:30 14:30-15:00	Disuke Sakaizawa et. al, (JAXA, Japan) Analysis of Pulsed Lidar Measurements of Atmospheric CO2 Column Absorption during the ASCENDS 2009-2011 Airborne Campaigns James Abshire et al. (NASA GSFC, US; Presented by Robert T. Menzies) Airborne Lidar Measurements of Atmospheric Pressure using the Oxygen-A	
	Band Haris Riris et al. (NASA GSFC, US; Presented by Wallace Harrison)	
15:00-15:30	COFEE BREAK	
8. Technology 15:30-16:00	2-micron laser developments for CO ₂ measurements	
16:00-16:30	Kohei Mizutani et. al, (NICT, Japan) GaSb-based laterally coupled distributed-feedback (DFB) diode lasers Jason Hyon et. al, (NASA JPL, US)	
16:30-17:00	APD detector concept jointly developed with Stanford for ASCENDS Jason Hyon et. al, (NASA JPL, US)	
17:00-18:00	Discussion and Adjourn Pierre H. Flamant (IPSL, France), Robert T. Menzies (NASA JPL, US)	

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Agenda

March 8, 2012 - Day 3

10:00-12:00 Discussion about future mission and partnership

All

Adjourn