

CEOS Atmospheric Composition Virtual Constellation AC-VC-15			June 10 - 12 (Monday-Wednesday), 2019			
Monday, June 10						
9:00-9:30		Registration				
	ID #		Chair/speaker	time (min)	status	
9:30		Welcome				
9:30	1.1	Welcome by host	Teruyuki Nakajima (JAXA)	10	confirmed	
9:40	1.2	Opening, meeting goals	Jay Al-Saadi (NASA) & Ben Veihelmann (ESA)	10	confirmed	
9:50		Greenhouse Gas Session	Dave Crisp (JPL)			
		Mission Status Reports				
9:50	1.3	GOSAT and GOSAT-2	Kei Shiomi/Akihiko Kuze (JAXA) - TBD	15	confirmed	
10:05	1.4	OCO-2 and OCO-3	David Crisp (NASA/JPL)	15	confirmed	
10:20	1.5	TanSat	Yi Liu (CAS), David Crisp (NASA)	10	Presented by Dave Crisp	
10:30	1.6	Sentinel 5p TROPOMI Mission Status	Claus Zehner (ESA)	10	confirmed	
10:40	1.7	Sentinel 5p TROPOMI CH4 results	Jochen Landgraf (SRON)	10	confirmed	
10:50	1.8	MicroCarb	Claude Camy-Peyret (IPSL)	15	confirmed	
11:05		Coffee Break		25		
11:30	1.9	GeoCarb	Sean Crowell (OU)	15	confirmed	
11:45	1.10	AIM-North mission overview	Dylan Jones (Toronto), Ray Nassar (CSA)	15	confirmed	
12:00	1.11	Sentinel CO2 Mission	Valerie Fernandez (ESA)	15	confirmed	
12:15	1.12	Cross Calibration of GHG Missions	Ahkihiko Kuze (JAXA, CEOS WGCV), Rose Munro (EUMETSAT, GSICS)	30	confirmed	
12:45	1.13	Validation with TCCON	Isamu Morino (NIES)	15	confirmed	
13:00	1.14	Validation with Aircraft - CONTRAIL	Toshinobu Machida (NIES)	15	confirmed	
13:15		Lunch 75 minutes		75		
		Afternoon Session - Preparing for the 2023 and 2028 Global Stocktakes				
14:30	1.15	The CEOS AC-VC GHG Initiative	David Crisp (NASA/JPL)	20	confirmed	
14:50	1.16	Estimating methane emission trends with GOSAT	Aki Tsuruta (FMI)	20	remote presentation	
15:10	1.17	Implications for bias in flux inversions	Takashi Maki (MRI/JMA)	20	confirmed	
15:30	1.18	Regional scale trends from OCO-2 and GOSAT	Prabir Patra (JAMSTEC)	20	confirmed	
15:50	1.19	The CO2 Human Emissions Initiative	Richard Engelen (ECMWF)	20	confirmed	
16:10		Coffee Break		30		
16:40	1.20	NASA Carbon Monitoring System Flux (CMS-Flux) update	Kevin Bowman (NASA/JPL)	20	confirmed	
17:00	1.21	The OCO-2 Flux MIP	Sean Crowell (OU)	20	confirmed	
17:20	1.22	CEOS SIT Chair update on 'Carbon and Biomass'	Stephen Ward (JAXA)	10	confirmed	
17:30	1.23	Discussion: Integrating Results into a Flux Product	David Crisp (NASA/JPL)	30	discussion	
18:00		Adjourn				

Tuesday, June 11						
9:00		AQ/GHG co-benefits	Kevin Bowman (JPL) and Hiroshi Tanimoto (CGER-NIES)			
		Multi-constituent data assimilation and OSSEs				
9:00	2.1	Carbon cycle and satellite data contribution to the global stocktake	Nobuko Saigusa, Hiroshi Tanimoto (CGER-NIES)	15	confirmed	
9:15	2.2	Copernicus and the Global Effort for Monitoring of Anthropogenic GHG Emissions	Hugo Zunker (EC)	15	confirmed	
9:30	2.3	ODIAC fossil fuel emission inventory effort and challenges of CO2 emission inventories for future monitoring support activities	Tomohiro Oda (USRA)	15	confirmed	
9:45	2.4	Development of a historical emission inventory in Asia and its evaluation using inverse modeling with satellite observation	Jun-ichi Kurokawa (ACAP)	15	confirmed	
10:00	2.5	NASA's Carbon Cycle OSSE Initiative	Lesley Ott (NASA)	15	confirmed	
10:15	2.6	Nature runs for GHG and AQ within CHE and CAMS	Richard Engelen (ECMWF)	15	confirmed	
10:30		Group Photo and Coffee Break		30		
11:00	2.7	Greenhouse Gases and Air Quality from AIM-North	Dylan Jones (U Toronto)	15	confirmed	
11:15	2.8	Evaluation of relationships between urban CO2 and AQ from ground to space	Hayoung Park/Sujong Jeong (SNU)	15	confirmed	
11:30	2.9	Predicting FF CO2 fluxes using top-down NOx and CO emissions estimated from multi-constituent chemical data assimilation	Kazu Miyazaki (NASA)	15	confirmed	
11:45	2.10	Investigating the Utility of CO2 and CO Analysis in Tracking Fossil Fuel CO2	Ave Arellano (U Arizona)	15	confirmed	
12:00	2.11	Contribution of high spatial resolution NO2 data (1km) to local CO2 flux estimation	Yugo Kanaya (JAMSTEC)	15	confirmed	
12:15	2.12	Mortality from particulate matter in cities worldwide: a challenge and an opportunity for co-benefits from low carbon development	Daven Henze (U Colorado)	15	confirmed	
12:30	2.13	Session wrap-up and recommendations	all	15	discussion	
12:45		Lunch 75 minutes		75		
14:00		CEOS news and Interdisciplinary topics				
14:00	2.14	Discussion of AC-VC leadership rotation, next meeting, any other business	Jay Al-Saadi (NASA), Ben Veihelmann (ESA)	15	confirmed	
14:15	2.15	IGAC and opportunities for collaboration with CEOS AC-VC	Hiroshi Tanimoto (NIES), Crawford, Melamed	15	confirmed	
14:30	2.16	GSICS cal/val activities for atmospheric composition reflective measurements	Rose Munro (EUMETSAT)	15	confirmed	
14:45		AQ trace gas session		3h		
		Mission status and plans of air quality missions.				
14:45	2.17	Status of GEMS	Jhoon Kim (Yonsei University)	15	confirmed	
15:00	2.18	Status of TEMPO and using airborne data to simulate TEMPO spatial representativeness	Kelly Chance (SAO), Jay Al-Saadi (NASA)	15	Presented by Jay Al-Saadi (NASA)	
15:15	2.19	Status of Sentinel-4	Ben Veihelmann (ESA)	15	confirmed	
15:30		Coffee Break		30		
16:00	2.20	Status of the S-5P Mission - Cal/Val lessons learned	Claus Zehner (ESA)	15	Presented by Jean-Christopher Lambert (BIRA)	
16:15	2.21	S-5P Research Products	Diego Loyola (DLR)	15	confirmed	
16:30	2.22	EMI data quality and in-orbit test results	Liangfu Chen (CAS)	15	Presented by Jay Al-Saadi (NASA)	
16:45	2.23	EUMETSAT Contribution to Sentinels	Rose Munro (EUMETSAT)	15	confirmed	
17:00	2.24	Status of IR missions for air quality	David Edwards (NCAR)	15	confirmed	
17:15	2.25	Status of the GEMS mission and air quality data analysis	Ara Cho (NIER)	15	confirmed	
17:30	2.26	Japanese activity of satellite missions for the air quality	Yasuko Kasai (NICT)	15	confirmed	
17:45		Adjourn				
19:00	2.27	Meeting Dinner (5 minutes walk)				

Wednesday, June 12						
9:00		AQ trace gas session (continued)	Ben Veihelmann (ESA) and Jay Al-Saadi (NASA)			
		Validation Activities				
9:00	3.1	S-5p operational validation status, lessons and perspectives for GEO-AQ and S5	Jean-Christopher Lambert (BIRA)	15	confirmed	
9:15	3.2	Status and plans for FRM activities in NDACC/MAX-DOAS context	Michel Van Roozendael (BIRA)	15	confirmed	
9:30	3.3	Pandora Global Network (PGN) status and plans	Michel Van Roozendael (BIRA)	15	confirmed	
9:45	3.4	Recent developments in ground-based networks in East Asia and strategies for GEMS validation	Sang-Woo Kim (Seoul National U)	15	confirmed	
10:00	3.5	AC-VC discussion of validation needs document and possible concurrence; Next steps	Ben Veihelmann (ESA)	30	discussion	
10:30		Coffee Break		30		
11:00		AQ aerosol	Shobha Kondragunda (NOAA), Ben Veihelmann (ESA)			
		How to make the most from satellite observations of aerosol for air quality? What do we recommend?				
11:00	3.6	Goals for the meeting and anticipated outcome including summary of 2018 meeting	Co-chairs	5	confirmed	
11:05	3.7	First results from radiance assimilation for aerosols	Ben Veihelmann (ESA)	15	confirmed	
11:20	3.8	Aerosol property retrievals from AHI and GOCI : Implications for AMI	Jhoon Kim (Yonsei University)	15	confirmed	
11:35	3.9	The Impact of Geostationary Aerosol Observations on the GEOS Aerosol Forecasting System	Arlindo Da Silva (NASA)	15	confirmed	
11:50	3.10	MAIAC algorithm for Himawari	Alexie Lyapustin (NASA)	15	confirmed	
12:05	3.11	NOAA GOES-16 AOD and new approaches to scaling it to PM2.5	Shobha Kondragunta (NOAA)	15	confirmed	
12:20	3.12	AOD vs. PM2.5 Compare and Contrast between USA and Asia	Amy Huff (Pennsylvania State U.)	15	confirmed	
12:35		Lunch 75 minutes		75		
13:50	3.13	Status of the 1st KORUS-AQ and introduction of the 2nd KORUS-AQ	Dong-Won Lee (NIER)	15	confirmed	
14:05	3.14	Aerosol observations from current and future EUMETSAT and Copernicus Missions	Rose Munro (EUMETSAT)	15	confirmed	
14:20	3.15	withdrawn		15	withdrawn	
14:35	3.16	GEO-LEO aerosol from Himawari and SGLI onboard GCOM-C	Mayumi Yoshida (JAXA)	15	confirmed	
14:50	3.17	An Overview of the Aerosol and Clouds-Convection Precipitation Study and its Relationship to the Geostationary Atmospheric Composition Virtual Constellation	Arlindo Da Silva (NASA)	15	confirmed	
15:05	3.18	Session wrap-up and recommendations	all	15	discussion	
15:20		Coffee Break		25		
15:45		Tropospheric Ozone	Gordon Labow (NASA) and Diego Loyola (DLR)			
		Status and plans of tropospheric ozone products. Consistent long-term data sets.				
15:45	3.19	Total Ozone CEOS wrap-up	Diego Loyola (DLR)	15	confirmed	
16:00	3.20	Tropospheric Ozone from OMPS and MLS	Gordon Labow (NASA)	15	confirmed	
16:15	3.21	Tropospheric ozone profiles from the synergism of AIRS and OMI	Dejian Fu (NASA)	15	confirmed	
16:30	3.22	Tropospheric ozone retrievals from TropOMI	Diego Loyola (DLR)	15	confirmed	
16:45	3.23	Tropospheric Ozone from GOME-2	Richard Siddans (RAL)	15	confirmed	
17:00	3.24	Tropospheric Ozone from IASI	Anne Boynard (LATMOS)	15	remote presentation	
17:15	3.25	Tropospheric Ozone from IASI + GOME-2	Juan Cuesta (LISA)	15	remote presentation	
17:30	3.26	The Great Tropospheric Ozone CookOff	Gordon Labow (NASA)	15	confirmed	
17:45	3.27	Session wrap-up and recommendations	all	15	discussion	
18:00		Meeting End				