	CEOS Atmospheric Composition Virtual Constellation AC-VC-15	June 10 - 12 (Monday-Wednesday), 2019		
	Monday, June 10			
9:00-9:30	Registration			
		Chair/speaker	time (min)	status
9:30	Welcome			
9:30	Welcome by host	Teruyuki Nakajima (JAXA)	10	confirmed
9:40	Opening, meeting goals	Jay Al-Saadi (NASA) & Ben Veihelmann (ESA)	10	confirmed
			20	
9:50	Greenhouse Gas Session	Dave Crisp (JPL)		
	Mission Status Reports			
9:50	GOSAT and GOSAT-2	Kei Shiomi/Akihiko Kuze (JAXA) - TBD	15	confirmed
10:05	OCO-2 and OCO-3	David Crisp (NASA/JPL)	15	confirmed
10:20	TanSat	Yi Liu (CAS), David Crisp (NASA)	15	Presented by Dave Cr
10:35	Sentinel 5p TROPOMI	Jochen Landgraf (SRON)	15	confirmed
10:50	MicroCarb and MERLIN	TBD	15	
11:05	Coffee Break		25	
11:30	GeoCarb	Sean Crowell (OU)	15	confirmed
11:45	AIM-North mission overview	Dylan Jones (Toronto), Ray Nassar (CSA)	15	confirmed
12:00	Sentinel CO2 Mission	Yasjka Meijer (ESA)	15	
12:15	Cross Calibration of GHG Missions	Ahkihiko Kuze (JAXA, CEOS WGCV), Rose Munro (EUMETSAT, GSICS)	30	
12:45	Validation with TCCON	Isamu Morino (NIES) TBD	15	
13:00	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	The CEOS AC-VC GHG Initiative	David Crisp (NASA/JPL)	20	confirmed
14:50	GOSAT CO2 Intecomparison (TBD)	Saito/Niwa/Saeki/Takgi (NIES) - TBD	20	
15:10	Implications for bias in flux inversions (TBD)	Takashi Maki (MRI/JMA)	20	confirmed
15:30	Regional scale trends from OCO-2 and GOSAT (TBD)	Prabir Patra (JAMSTEC)	20	confirmed
15:50	The CO2 Human Emissions Initiative (TBD)	Richard Engelen (ECMWF)	20	confirmed
			340	
16:10	Coffee Break 30 minutes		30	
16:40	Carbon Manigement System, CMS (TBD)	Kevin Bowman (NASA/JPL)	20	confirmed
17:00	The OCO-2 Flux MIP (TBD)	Sean Crowell	20	confirmed
17:20	Discussion: Integrating Results into a Flux Product	David Crisp (NASA/JPL)	40	confirmed
18:00	Adjourn			

	Tuesday, June 11			
9:00	**AQ/GHG co-benefits**	**Kevin Bowman (JPL)**		
	Multi-constituent data assimilation and OSSEs			
9:00	Carbon cycle and satellite data contribution to the global stocktake	Nobuko Saigusa, Hiroshi Tanimoto (CGER-NIES)	15	
9:15	Copernicus and the Global Effort for Monitoring of Anthropogenic GHG Emissions	Hugo Zunker	15	confirmed
9:30	ODIAC fossil fuel emission inventory effort and challenges of CO2 emission inventories for future monitoring support activities	Tomohiro Oda (NASA USRA)	15	confirmed
9:45	Development of a historical emission inventory in Asia and its evaluation using inverse modeling with satellite observation	Jun-ichi Kurokawa	15	confirmed
10:00	NASA's Carbon Cycle OSSE Initiative	Lesley Ott	15	
10:15	Nature runs for GHG and AQ within CHE and CAMS	Richard Engelen	15	confirmed
10:30	Coffee Break 30 minutes		30	
11:00	Greenhouse Gases and Air Quality from AIM-North	Dylan Jones (Toronto)	15	confirmed
11:15	Evaluation of relationships between urban CO2 and AQ from ground to space	Hayoung Park/Sujong Jeong	15	confirmed
11:30	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	Investigating the Utility of CO2 and CO Analysis in Tracking Fossil Fuel CO2	Ave Arellano	15	confirmed
12:00	Contribution of high spatial resolution NO2 data (1km) to local CO2 flux estimation	Yugo Kanaya (JAMSTEC)	15	confirmed
12:15	Mortality from particulate matter in cities worldwide: a challenge and an opportunity for co-benefits from low carbon development	Daven Henze	15	confirmed
12:30	Session wrap-up and recommendations	all	15	discussion
			225	
12:45	Lunch 75 minutes		75	
14:00	**CEOS news and Interdisciplinary topics**	**Ben Veihelmann (ESA) and Jay Al-Saadi (NASA)**	**3h**	
14:00	Discussion of AC-VC leadership rotation, next meeting, any other business	Jay Al-Saadi (NASA), Ben Veihelmann (ESA)	15	confirmed
14:15	IGAC and opportunities for collaboration with CEOS AC-VC	Hiroshi Tanimoto (NIES), Crawford, Melamed	15	confirmed
14:30	GSICS cal/val activities for atmospheric composition reflective measurements	Rose Munro (EUMETSAT)	15	
14:45	**AQ trace gas session**	**Ben Veihelmann (ESA) and Jay Al-Saadi (NASA)**	**3h**	
	Mission status and plans of air quality missions.			
14:45	GEMS	Jhoon Kim (Yonsei University)	15	confirmed
15:00	TEMPO	Kelly Chance (SAO), Jay Al-Saadi (NASA)	15	Presented by Jay Al-S
15:15	Sentinel-4	Ben Veihelmann (ESA)	15	confirmed
15:30	Coffee Break 30 minutes		30	
16:00	S-5P Mission status, status/plans on the S-5P uncertainty requirements, and planned improved reporting for S-5P	Claus Zehner (ESA)	15	confirmed
16:15	S-5P Research Products	Diego Loyola (DLR)	15	confirmed
16:30	EMI data quality and in-orbit test results	Liangfu Chen (CAS)	15	confirmed

16:45	EUMETSAT Contribution to Sentinels	Rose Munro (EUMETSAT)	15	confirmed
17:00	Status of IR missions for air quality	David Edwards (NCAR)	15	confirmed
17:15	Status of the GEMS mission and air quality data analysis	Ara Cho (NIER)	15	confirmed
17:30	Japanese activity of satellite missions for the air quality	Yasuko Kasai (NICT)	15	confirmed
17:45	Adjourn		**180**	
19:00	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	S-5p operational validation status, lessons and perspectives for GEO-AQ and S5	Jean-Christopher Lambert (BIRA)	15	confirmed
9:15	Status and plans for FRM activities in NDACC/MAX-DOAS context	Michel Van Roozendael (BIRA)	15	confirmed
9:30	Pandora Global Network (PGN) status and plans	Cede, Swap, Valin	15	TBC
9:45	Recent developments in ground-based networks in East Asia and strategies for GEMS validation	Sang-Woo Kim (Seoul National U)	15	confirmed
10:00	AC-VC discussion of validation needs document and possible concurrence; Next steps	Ben Veihelmann (ESA)	30	confirmed
10:30	Coffee Break 30 minutes		30	
11:00	**AQ aerosol**	**Shobha Kondragunda (NOAA), Ben Veihelmann (ESA), Jongmin Yoon (NIER)**		
	How to make the most from satellite observations of aerosol for air quality? What do we recommend?			
11:00	Goals for the meeting and anticipated outcome including summary of 2018 meeting	Co-chairs	5	confirmed
11:05	First results from radiance assimilation for aerosols	Ben Veihelmann (ESA)	15	confirmed
11:20	Himawari or GeoKOMPSAt-2A AMI Aerosols	Jhoon Kim (Yonsei University)	15	confirmed
11:35	The Impact of Geostationary Aerosol Observations on the GEOS Aerosol Forecasting System	Arlindo Da Silva (NASA)	15	confirmed
11:50	MAIAC algorithm for Himawari	Alexie Lyapustin (NASA)	15	confirmed
12:05	NOAA GOES-16 AOD and new approaches to scaling it to PM2.5	Shobha Kondragunta (NOAA)	15	confirmed
12:20	AOD vs. PM2.5 Compare and Contrast between USA and Asia	Amy Huff (Pennsylvania State U.)	15	confirmed
			200	
12:35	Lunch 75 minutes		75	
13:50	TBD	Jongmin Yoon (NIER)	15	confirmed
14:05	TBD	Rose Munro (EUMETSAT)	15	confirmed
14:20	GaoFen results	Liangfu Chen (CAS)	15	confirmed
14:35	GEO-LEO aerosol from Himawari and SGLI onboard GCOM-C	Mayumi Yoshida (JAXA)	15	confirmed
14:50	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	Session wrap-up and recommendations	all	15	confirmed
15:20	Coffee Break 25 minutes		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	Total Ozone CEOS wrap-up	Diego Loyola (DLR)	15	confirmed
16:00	Tropospheric Ozone from OMPS and MLS	Gordon Labow (NASA)	15	confirmed
16:15	Tropospheric ozone profiles from the synergism of AIRS and OMI	Dejian Fu (NASA)	15	confirmed
16:30	Tropospheric ozone retrievals from TropOMI	Diego Loyola (DLR)	15	confirmed
16:45	Tropospheric Ozone from GOME-2	Richard Siddans (RAL)	15	confirmed
17:00	Tropospheric Ozone from IASI	Anne Boynard (LATMOS)	15	confirmed
17:15	Tropospheric Ozone from IASI + GOME-2	Juan Cuesta (LISA)	15	confirmed
17:30	The Great Tropospheric Ozone CookOff	Gordon Labow (NASA)	15	confirmed
17:45	Session wrap-up and recommendations	all	15	
18:00	Meeting End			