

Agenda CEOS AC-VC Meeting #20

National Center for Weather and Climate Prediction, 5830 University Research Court College Park MD 20740

Website has links to hotel websites and directions: <https://www.arl.noaa.gov/about/arl-divisions/directions-ncwcp/>

		Tuesday, October 15, 2024 Session AQ Trace Gases	Chairs: Ben Veihelmann (ESA), Barry Lefer (NASA), Hiroshi Tanimoto (NIES)
Time (EST)	ID	Title	Presenter
9:00 - 9:05	2.01	Introduction / goals / Welcome	Shobha, Ben, Barry, Hiroshi
Brief Status of Missions in Orbit			
09:10 - 09:20	2.02	S5P/TROPOMI status	Pepijn Veefkind (KNMI)
09:20 - 09:30	2.03	GEMS status	Jhoon Kim (Yonsei Uni)
09:30 - 09:40	2.04	TEMPO	Caroline Nowlan (Harvard)
09:40 - 09:50	2.05	IASI&CrIS	Cathy Clerbaux (LATMOS/CNRS), Helen Worden (UCAR)
Brief Update on Future Missions			
09:50 - 10:00	2.06	Sentinel-4 & Sentinel-5	Ben Veihelmann (ESA), Rasmus Lindstrot (EUMETSAT)
10:00 - 10:10	2.07	IASI-NG	Cathy Clerbaux (LATMOS/CNRS), Cyril Crevoisier (LMD)
10:10 - 10:20	2.08	GeoXO	Joanna Joiner (NASA), Shobha Kondragunta (NOAA)
10:20 - 10:30	2.09a	Middle East & North Africa GEO Project	Omar Emam (Intospass)
10:30 - 10:40	2.09b	Related South Africa GEO Project	Pieter Levelt (NCAR)
COFFEE (PROVIDED)			
Comparisons/Consistency			
11:00 - 11:15	2.10	PEGASOS: comparisons between GEMS L2 data and various other satellite and ground-based data	Ronny Lutz (DLR)
Validation			

11:15 - 11:30	2.11	CINDI-III	Michel van Roozendael (BIRA)
11:30 - 11:45	2.12	STAQS field campaign	Laura Judd (NASA/LARC)
11:45 - 12:00	2.13	TEMPO products evaluation	Barron Henderson (EPA)
12:00 - 12:15	2.14	Pandora/PGN status	Thomas Hanisco (NASA, GSFC)
12:15 - 12:30	2.15	S5P/TROPOMI validation status	Tijl Verhoelst (BIRA)
12:30 - 12:45	2.16	GEMS	Limseok Chang (NIER)
Data use			
12:45 - 13:00	2.17	CAMS	Antje Inness (CAMS)
LUNCH (PROVIDED)			
14:00 - 14:15	2.18	MOMO-Chem: trop O3 trends, LEO+GEO, TOAR-2 reanalysis	Miyazaki Kazuyuki (JPL)
14:15 - 14:30	2.19	Data assimilation at GEOS-CF	Emma Knowland (Morgan State Uni)
14:30 - 14:45	2.20	Error characterisation and super-observations	Henk Eskes (KNMI)
14:45 - 15:00	2.21	Assimilating TEMPO and TropOMI trace gas observations with JEDI	Jerome Barré (UCAR)
Discussion			
15:00 - 16:00	2.22	Questions for all presenters, Review progress following the GeoAQ WP, what works well / what not in data assimilation? Status? .. recommendations, capacity building, Middle East & Africa, super sites?	All
16:00 - 17:30	2.23	Poster Session: 1.5h	All
Happy Hour at Denizens Brewing Company River Dale Park 4550 Van Buren St, Riverdale, MD 20737			

		Wednesday, October 16, 2024	
		Session Aerosols and Air Quality	Chairs: Shobha Kondragunta (NOAA) and Ben Veihelmann (ESA)
Time (EST)	ID	Title	Presenter
9:00 - 9:05	3.01	Introduction / goals	Co-chairs
Updates on Current/Future Missions			
09:05 - 09:15	3.02	JPSS Aerosol Update	Hongqing Liu (NOAA)
09:15 - 09:30	3.03	TEMPO Aerosol Update	Shobha Kondragunta (NOAA)
09:30 - 09:45	3.04	GEMS Aerosol Update	Yeseul Cho (NOAA/UMD)
09:45 - 10:00	3.05	PACE Aerosol Update	Meng Gao (NASA)
10:00 - 10:15	3.06	MAIA Aerosol Update	Dave Diner (NASA)
10:15 - 10:30	3.07	NASA Aerosol Update	Rob Levy (NASA)
10:30 - 10:45	3.08	CALIGOLA Aerosol Update	Chip Trepte (NASA)
10:45 - 11:00	3.09	CO2M Aerosols	Yasjka Meijer (ESA)
COFFEE (PROVIDED)			
Applications Part I			
11:15 - 11:30	3.09	Aerosol DA for PM2.5 (ECMWF)	Johannes Flemming (ECMWF)
11:30 - 11:45	3.10	Aerosol DA for PM2.5 (JCSDA)	Jerome Barre (JCSDA)
11:45 - 12:00	3.11	Aerosol DA for PM2.5 (NASA)	Virginie Buchard (NASA)
12:00 - 12:15	3.12	Aerosol DA for PM2.5 (NOAA NWS)	Cory Martin (NOAA)
LUNCH (PROVIDED)			
White Paper Roadmap			
13:15 - 13:30	3.13	Discussion	Kondragunta (NOAA) and Veihelmann (ESA)
Aerosol Layer Height			
13:30 - 14:30	3.14	ALH paper discussion	Vijay Natraj (NASA JPL) - Lead Panel: Jun Wang (UIowa), Jhoon Kim (Yonsei University), Shobha Kondragunta (NOAA), Hiren Jethva (NASA)

14:30 - 14:45	3.15	ALH Validation (1)	Jim Szykman (EPA)
14:45 - 15:00	3.16	ALH Validation (2)	Siyuan Wang (NOAA)
COFFEE (PROVIDED)			
Applications (Part 2)			
15:15 - 15:30	3.17	AirFuse	Barron Henderson (EPA)
15:30 - 15:45	3.18	Satellite perspectives to changing federal standards for PM2.5	Michael Cheeseman (NOAA)
15:45 - 16:00	3.19	TEMPO PM2.5	Hai Zhang (NOAA)
16:00 - 17:00	3.20	Discussion	All
END OF DAY 2			

		Thursday, October 17, 2024 Session Greenhouse Gas	Chairs: John Worden and Barry Lefer (NASA)
Time (EST)	ID	Title	Presenter
8:30 start	4.01	Introduction	John Worden (NASA / JPL)
	4.02	CEOS GHG Roadmap	Yasjka Meijer (ESA)
	4.03	Satellite Observations for Balancing the Global Carbon Budget	Junjie Liu (JPL)
The Mission Session: Please discuss any mission updates, validation or algorithm needs, and / or stakeholder requirements			
09:30 start	4.04	GOSAT	Hiroshi Suto (JAXA)
	4.05	OCO-2/-3	Vivienne Payne (NASA)
	4.06	TROPOMI	Jochen Landgraf (SRON)
	4.07	CO2M	Yasjka Meijer (NASA)
	4.08	GOSAT-GW	Hiroshi Tanimoto (NIES)
	4.09	MERLIN and MicroCarb	Carole Daniel
	4.10	GEOCarb	Sean Crowell (LumenUS)
		Discussion	
COFFEE (PROVIDED)			
Facility Scale Missions			
11:10 start	4.11	EMIT	Andrew Thorpe (JPL)
	4.12	GHGSat	Jason McKeever (GHGSat)
	4.13	CarbonMapper	Dan Cusworth (Carbon Mapper)
	4.14	MEDUSA	Matthieu Dogniaux (SRON Netherlands)
	4.15	TANGO	Jochen Landgraf (SRON)
		Discussion	All
LUNCH (PROVIDED)			
		Session on VVUQ of Facility Scale Observations	

01:30 start	4.16	Validation of Facility Scale Measurements	Evan Sherwin (LBNL)
	4.17	GHG Center Facility Scale Validation Efforts	Annmarie Eldering (NIST) and Argie Kavvada (NASA)
	4.18	Facility scale emissions intercomparison	Annmarie Eldering (NIST)
	4.19	Discussion on Characterizing POD for Facility Scale Emissions Estimates	Itziar Loitxate (IMEO)
	4.20	Best practices for facility scale methane measurements	John Worden (NASA)
		Discussion	
COFFEE (PROVIDED)			
03:15 start	4.21	Validation Supersite Discussion	Abhishek Chatterjee (NASA)
	4.22	Level 2 Intercomparison Discussion	David Crisp (Crisp Spectra) and Chris O'Dell (CSU)
	4.23	Stakeholder engagement activities	Leslie Ott (NASA)
End around 5pm		Overflow, summary and wrap-up	John Worden (NASA)
END OF DAY 3			

Friday AM, October 18, 2024			
Session Ozone			
Time (EST)	ID	Title	Presenter
09:00 - 09:05	5.01	Introduction	Diego Loyola (DLR)
09:05 - 09:20	5.02	Upcoming reduction in space-based observations of ozone at high vertical resolution: implications for data products and long-term studies	Daan Hubert (BIRA)
Tropospheric Ozone			
09:20 - 09:35	5.03	An update on long-term global tropospheric ozone trends, in support of the second phase of the Tropospheric Ozone Assessment Report	Owen R. Cooper (NOAA CSL)
09:35 - 09:50	5.04	Tropospheric ozone: Satellite data harmonization and TOAR assessment	Arno Keppens (BIRA)
09:50 - 10:05	5.05	Trends (2000-2022) from TOAR-II/HEGIFTOM Global Ground-based Tropospheric Ozone Measurements: A Reference Dataset for Satellite Products & Models	Anne Thompson (NASA)
10:05 - 10:20	5.06	GOP_ECV: a new profile/tropospheric ozone data record	Melanie Coldewey-Egbers (DLR)
10:20 - 10:35	5.07	SHADOZ Ozonesonde Network – Overview and Updates	Debra Kollonige (NASA)
Geostationary Missions			
10:35 - 10:50	5.08	Introduction to the upcoming version 3 of the GEMS Ozone Profile Product: calibration strategy and preliminary validation	Juseon (Sunny) Bak (PNU)
10:50 - 11:05	5.09	TEMPO total ozone and ozone profile products	Junsung Park (SAO)

COFFEE (PROVIDED)			
11:35 - 11:50	5.10	Diurnal Cycle of Total Ozone Column Observed from the Geostationary Interferometric Infrared Sounder (GIIRS) over East Asia	Zhao-Cheng Zeng (Peking University)
Discussion			
11:50 - 12:00	5.11	Discussion	All
LUNCH (PROVIDED)			
		Friday PM, October 18, 2024 Session Special Topics	Chairs: Barry Lefer (NASA) and Shobha Kondragunta (NOAA)
13:00 - 13:15	5.12	NOAA GOES-19 methane blowdown experiment	Shobha Kondragunta (NOAA) and Daniel Varon (MIT)
13:15 - 13:30	5.13	Land products from TEMPO	Joanna Joiner (NASA)
13:30 - 13:45	5.14	Global Stocktake Lessons Learned	Wenyeng Su (NASA)
13:45 - 14:00	5.15	Studying Atmospheric Composition on the Global South with Geostationary Satellites: South American Perspective	Arlindo da Silva (NASA)
14:00 - 14:15	5.16	AiRMAPS 2025 Baltimore	Steve Brown (NOAA)
COFFEE (PROVIDED)			
14:45 - 15:15	5.17	GHG Modelling and Path Forward with AFOLU and Blue Carbon - Panel Discussion	Ben Poulter (OSTP) et al.
15:15 - 15:45	5.18	Observational Needs for Greenhouse Gases - Panel Discussion	Colm Sweeney (NOAA), Lesley Ott (NASA), Junjie Liu (NASA / JPL)
15:45 - 16:15	5.19	Multi-agency coordinated efforts of controlled release experiments - Panel Discussion	US GHG Center
16:15 - 16:30	5.20	FINAL Remarks	Shobha, Hiroshi, and Barry
END OF THE MEETING			