AC-VC-13, Paris

Day 1, 28 June 2017

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| **Presentation** | **Speaker/Chair** | **Time (start)** | **Duration [min]** |
| AC-VC-13 Welcome and Logistics | Deniel, Clerbeaux, Veihelmann, Al-Saadi | 9h | 15 |
| AC-VC-13 Greenhouse Gas Session | Dave Crisp, NASA | 9h15 |  |
| GHG Session 1: Mission status updates |  |  |  |
| GOSAT and GOSAT-2 | Dave Crisp, NASA for A. Kuze |  | 15 |
| OCO-2 and OCO-3 | Dave Crisp, NASA |  | 15 |
| TanSat | Claus Zehner, ESA for Yi Liu |  | 15 |
| Sentinel 5P | Claus Zehner, ESA |  | 15 |
| MicroCarb | François-Marie Breon, IPSL/LSCE |  | 15 |
| Coffee break |  | 10h30 | 30 |
| MERLIN | Carole Deniel, CNES | 11h00 | 15 |
| GeoCarb | Dave Crisp, NASA for Berrien Moore |  | 15 |
| ESA/EC GHG Sentinels | Yasjka Meijer, RHEA for ESA |  | 15 |
| HEO Options | Ray Nassar, ECCC |  | 15 |
| TCCON/AirCore Validation Discussion | Yao Té, CNRS/UPMC |  | 15 |
| Lunch |  | 12h30 | 60 |
| GHG Session 2: GHG Constellation White Paper |  |  |  |
| Introduction | Dave Crisp, NASA | 13h30 | 5 |
| UNFCCC and IPCC Engagement Status | Yoshiaki Kinoshita, JAXA |  | 10 |
| GHG White paper overview and context | Dave Crisp, NASA |  | 15 |
| Calibration Discussion | Dave Crisp, NASA/ All |  | 15 |
| Measurement goals and requirements – by scale | All |  | 30 |
| Summary of Space-based capabilities and near-term plans | All |  | 15 |
| Gap analysis – role of future constellations | All |  | 15 |
| Coffee break |  | 15h | 30 |
| Infrastructure needs (cal/val/models) | All | 15h30 | 30 |
| The transition to operations | All |  | 30 |
| Actions and assignments | All |  | 30 |
| GHG Round-up Discussion | All | 17h00 | 30 |

AC-VC-13, Paris

Day 2, 29 June 2017

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| **Presentation** | **Speaker** | **Time (start)** | **Duration [min]** |
| AC-VC-13 AQ session: Intro | Ben & Jay | 9h | 5 |
| AQ Session 1: Mission status updates and product validation plans |  |  |  |
| GEMS | Jongmin Yoon, NIER/ Ara Cho, NIER/ Jhoon Kim, Yonsei Univ | 9h05 | 15 |
| Sentinel-4 | Ben Veihelmann, ESA |  | 15 |
| TEMPO | Kelly Chance, SAO |  | 15 |
| Sentinel-5 Precursor | Pepijn Veefkind, KNMI |  | 15 |
| Thermal IR | Cathy Clerbaux, LATMOS/IPSL |  | 15 |
| Cal/Val Plan for IASI-NG | Cyril Crevoisier, CNRS-LMD |  | 15 |
| Coffee break |  | 10h35 | 25 |
| AQ Session 2: Initial constellation validation activities |  |  |  |
| Status and future plans of the Fiducial Reference Measurements project (incl Pandonia, CINDI-2) | Michel Van Roozendael, BIRA | 11h | 20 |
| US network plans | Luke Valin, EPA / Barry Lefer, NASA |  | 20 |
| Asia network plans | Sang-Woo Kim, SNU |  | 20 |
| KORUS-AQ campaign results as a validation prototype | Ara Cho, NIER |  | 20 |
| Constellation validation needs and Inter-mission bias targets | All, discussion led by Ben |  | 30 |
| Trace Gas Round-up Discussion | all | 12h50 | 10 |
| Lunch |  | 13h | 90 |
| AQ Session 3: Satellite aerosol for AQ |  |  |  |
| Aerosol: a new topic in AC-VC | Ben Veihelmann, ESA | 14h30 | 10 |
| GEO-based aerosol sensing and the potential of combining TEMPO and ABI | Omar Torres, NASA |  | 20 |
| Joint retrieval of aerosol and surface reflectance from SEVIRI | Yves Govaerts, Rayference |  | 20 |
| Monitoring particulate pollution using GOCI COMS | Jhoon Kim, Yonsei University |  | 20 |
| Multiangle imaging spectroradiometry | Dave Diner, NASA JPL |  | 20 |
| Coffee break |  | 1600 | 30 |
| Polarimetric multiview imager (POLDER/3MI/DPC) | Oleg Dubovik, LOA | 1630 | 20 |
| Polar Multi-sensor Aerosol optical properties product | Ruediger Lang, EUMETSAT |  | 20 |
| Infusing aerosol information from satellite observations into air quality applications | Amy Huff, Penn State University |  | 20 |
| Assimilation of satellite data for air quality monitoring and forecasting | Angela Benedetti, ECMWF |  | 20 |
| Aerosol Round-up Discussion | all | 17h50 | 10 |

AC-VC-13, Paris

Day 3, 30 June 2017

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| **Presentation** | **Speaker** | **Time (start)** | **Duration [min]** |
| AC-VC-13 Ozone trends session | Gordon | 9h |  |
| Total Ozone |  |  |  |
| An update on CEOS goals, new versions of TOMS & OMI data, ISS SAGE III update | Gordon Labow, NASA | 9h | 20 |
| Ozone Profiles |  |  |  |
| An update on the LOTUS Project | Sophie Godin-Beekman, LATMOS | 9h20 | 20 |
| Long-term ozone trends in the stratosphere as observed by limb and occultation instruments | Viktoria Sofieva, FMI |  | 20 |
| Tropospheric Ozone |  |  |  |
| An update of the TOAR activities | Brice Barrett, CNRS | 10h | 20 |
| Retrieving Tropospheric Ozone with IASI | Cathy Clerbaux, LATMOS/IPSL |  | 20 |
| Tropospheric ozone from OMI and plans for Sentinel 4 | Richard Siddans, RAL |  | 20 |
| Coffee break |  | 11h | 30 |
| Contributed Talks and Other Business |  | 11h30 |  |
| Potential synergies of air quality and carbon constellation | Kevin Bowman, NASA JPL | 11h30 | 15 |
| Update on GEOS5-NR Chem and Radiance simulations for the GEO Constellation | Arlindo DaSilva, NASA |  | 15 |
| Update on mini-satellite for air quality observation with 1x1 horizontal resolution and NICT project for air pollution | Yasko Kasai, NICT |  | 15 |
| 17 years of MOPITT carbon monoxide data: results and prospects for future satellite CO observations | Helen Worden, NCAR |  | 15 |
| AC-VC-13 any other business, wrap-up, and closing | All | 12h30 |  |
| Plans for next meeting |  | 12h30 | 15 |
| Any other business and wrap-up |  |  | 15 |
| Adjourn |  | 13h |  |

**Posters – viewing during all coffee and lunch breaks**

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| AOD-PM2.5 relationships in various time and spatial scales: Implications for using AOD for air quality applications | Mian Chin, NASA |
| RT Intercomparison between GEO-CAPE and MAGEAQ | Vijay Natraj, NASA |
| GAIA-CLIM: Gap Analysis for Integrated Atmospheric ECV - Climate Monitoring | Jean-Christopher Lambert, BIRA-IASB |
| MAIAC aerosol-surface retrievals from AHI HIMAWARI-8 | Alexei Lyapustin, NASA |
| Innovative satellite observation of the 3D distribution of tropospheric ozone and aerosols | Juan Cuesta, LISA |
| Short-term trends of lower and upper tropospheric ozone over China from IASI observations | Gaëlle Dufour, LISA/CNRS |
| Validation of satellite atmospheric composition measurements using Environment Canada remote sensing network | Vitali Fioletov, ECCC |
| Decadal Record of Total Column Methane from SCIAMACHY and GOSAT | John Worden, NASA |
| New UV absorption cross section of ozone at 325 nm as a reference for atmospheric remote sensing | Christof Janssen, CNRS |
| UV-IR ozone line intensity study using ground-based FTIR | Christof Janssen, CNRS |
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