

Workshop program

Start 2 pm Day 1: Wednesday 4 June

End 1 pm Day 3: Friday 6 June

Day 1:

2 pm - 4.30 pm Chairperson Bruno Carli

2 pm Welcome: Pier Luigi Emiliani (Head of CNR-IFAC, Florence)

Theme: OVERVIEW TALKS

2.10 pm *The ASSET project:* William Lahoz and Alan Geer (DARC)

2.30 pm *Title TBC:* Tobias Wehr (ESA/ESTEC)

3.00 pm *SPARC scientific priorities and role of data assimilation:* Alan O'Neill (DARC)

3.30 Tea break

4.00 pm *Meteorological datasets for SPARC:* Gloria Manney (JPL), Ivanka Stajner (DAO) and William Lahoz (DARC): To be given by William Lahoz (TBC)

4.30 pm - 6.00 pm Chairperson Alan Geer

Theme: DATA ASSIMILATION AND RETRIEVAL THEORY

4.30 pm *Some aspects of a posteriori validation of assimilation algorithms:* Oliver Talagrand (LMD) and P. Goswami (Madras)

5.00 pm *Comparison of measurements made with two instruments:* Simone Ceccherini (CNR-IFAC)

5.30 pm *Assimilation of MIPAS retrievals: "optimal approach":* Stefano Migliorini (DARC), and Chiara Piccolo and Clive Rodgers (Oxford)

6.00 pm End of Day 1

Day 2:

9.30 am -1.00 pm Chairperson Stefano Migliorini

Theme: OVERVIEW TALKS

9.30 am *GRID and Earth Observation:* Luigi Fusco (ESA/ESRIN)

Theme: ASSIMILATION OF CONSTITUENT OBSERVATIONS FROM RESEARCH AND OPERATIONAL SATELLITES

10.00 am *Title TBC:* Kris Wargan (DAO)

10.30 am *Inverse modelling of trace gas sources using space measurements:* Boris Khattatov (NCAR)

11.00 am Coffee break

11.30 am *Stratospheric polar chemistry results from BASCOE assimilation of MIPAS:*

Frank Daerden (BIRA-IASB)

12.00 pm *Assimilation of SBUV and HIRS ozone in the Met Office 3D-var system:* David Jackson (Met Office)

12.30 pm *Assimilation of MIPAS data into the Met Office NWP system:* Alan Geer (DARC)

1.00 pm: Lunch

2.00 pm - 3.30 pm Chairperson Piera Raspollini

2.00 pm *Assimilation of NO2 data:* Henk Eskes (KNMI)

2.30 pm *Assimilation of ozone data:* Arjo Segers and Gijs van Soest (KNMI)

3.00 pm *Title TBC:* Slimane Bekki (UPMC)

3.30 pm Tea break

Theme: EO, RADIANCE TRANSFER AND RADIANCE ASSIMILATION

4.00 pm - 5.45 pm Chairperson Piera Raspollini

4.00 pm *Radiance assimilation at ECMWF:* Niels Bormann (ECMWF)

4.30 pm *Comparison of GOME slant columns with collocated BASCOE assimilation of MIPAS:* Simon Chabrillat (BIRA-IASB)

5.00 pm *Radiance error correlations and radiance assimilation:* Thomas von Clarmann (IMK)

5.30 pm *Ozone soundings at the NADIR datacentre - NRT processing for ECMWF:* Aasmund Vik (NILU)

5.45 pm End of Day 2

8.00 pm Workshop dinner

Day 3:

9.00 am - 9.30 am Chairperson David Jackson

Theme: PROPERTIES OF THE ASSIMILATED METEOROLOGICAL DATA THAT INFLUENCE CONSTITUENT TRANSPORT, E.G., REPRESENTATION OF PROCESSES SUCH AS STRATOSPHERIC WARMINGS, THE QBO, AND PHENOMENA SUCH AS THE SUB-TROPICAL BARRIER

9.00 am *Process-based diagnostics for SPARC:* Gloria Manney (JPL), Ivanka Stajner (DAO) and William Lahoz (DARC): To be given by Kris Wargan (DAO) (TBC)

9.30 am *Stratospheric ozone transport using assimilated GOME data and recent Envisat observations:* Yvank Orsolini (NILU)

Theme: COUPLING OF CHEMICAL AND METEOROLOGICAL DATA ASSIMILATION SYSTEMS

10.00 am - 1.00 pm Chairperson David Jackson

10.00 am *On the development of a Canadian stratospheric data assimilation system using the General Multiscale Model (GEM) of the MRB-CMC:* Sandrine Edouard (RPN Canada)

10.30 am Coffee break

11.00 am *Ozone analyses from the Canadian Middle Atmosphere Model's 3d-var assimilation system:* Saroja Polavarapu, Shuzhan Ren, Yves Rochon, David Sankey and Yan Yang (Met Service Canada)

11.30 am *Chemical data assimilation and tropospheric pollution forecasts:* Nadège Blond (CNRS)

12.00 pm *Ozone profile reconstruction by column and PV information:* Hendrik Elbern (U. Koeln)

12.30 pm *Title TBC:* Vince-Henri Peuch (Météo-France)

1.00 pm End of Day 3 and Workshop