

## Programme - EO Summer School 1 – 2003

<b>Alan O'Neill (DARC)</b>
DA theory (introduction)
Data Assimilation overview
Meteorology
SPARC
<b>Bruno Carli (CNR-IFAC)</b>
Emission limb sounders (MIPAS)
Radiative transfer theory (pure-gas atmosphere)
Retrieval for emission limb sounders
<b>Boris Khattatov (NCAR)</b>
DA & chemistry theory
Chemical assimilation
Assimilation in the Earth's ionosphere
<b>Claus Zehner (ESA)</b>
ERS-2/Envisat atmospheric data quality
<b>Dominique Fonteyn (BIRA-IASB)</b>
Chemical forecasts
Data evaluation
<b>Erkki Kyrölä (FMI)</b>
Occultation limb sounders (GOMOS)
Radiative transfer theory (refractive atmosphere)
Retrieval for occultation limb sounders
<b>François Bouttier (Meteo France)</b>
DA techniques (variational)
DA & observation error
Confronting models with data prepared
<b>Gilles Sommeria (WCRP)</b>
Use of satellite data for climate research in WCRP projects

<b>Hendrik Elbern (University of Koeln)</b>
DA & tropospheric chemistry
Pollution studies
<b>Henk Eskes (KNMI)</b>
DA techniques (Kalman filter)
Ozone assimilation and ozone forecasts
<b>Hennie Kelder (KNMI)</b>
Atmospheric models (CTMs)
Chemistry-climate coupling
<b>Henri Laur (ESA)</b>
Envisat overview
<b>John Burrows (University of Bremen)</b>
Nadir sounders (GOME/SCIAMACHY)
Radiative transfer theory (scattering effects)
Retrieval for nadir sounders
<b>Tony McNally (ECMWF)</b>
Operational satellites & NWP
Radiance assimilation
Reanalyses
<b>William Lahoz (DARC)</b>
Atmospheric models (GCMs)
Assessment of future missions
Synergy of Envisat data
DA challenges
<b>Mark Doherty (ESA)</b>
Closing speech