

CONCORDIASI WORKSHOP

Toulouse – CIC- 29-31 March 2010

MONDAY 29 MARCH

08:30-09:30: REGISTRATION

INTRODUCTION TO THE CONCORDIASI PROJECT (Chair: Vincent Guidard)

09:30 – 09:40 Philippe Bougeault (CNRM-GAME): Introduction and welcome

09:40 – 09:50 Marie-Anne Clair (CNES): Introduction

09:50 – 09:55 Sophie Godin-Beekmann (INSU): Introduction

09:55 – 10:00 Christine David (IPEV): Introduction

10:00 – 10:15 Jim Caughey (WMO): The THORPEX-IPY cluster and the THORPEX Polar programme.

10:15 – 10:30 Florence Rabier (CNRM-GAME): An overview of the Concordiasi project.

THE BALLOON CAMPAIGN (Chair: Albert Hertzog)

10:30 – 10:50 Philippe Cocquerez (CNES): Super-Pressure Balloons during Pre-Concordiasi

10:50 – 11:20 COFFEE BREAK

11:20 – 11:40 Terry Deshler (U. Wyoming): Particle measurements from a Lagrangian platform near the tropical tropopause: Results from the February 2010 pre-Concordiasi campaign.

11:40 – 12:00 Linnea Avallone (U of Colorado): In situ measurements of stratospheric ozone on long-duration balloons during Concordiasi

12:00 – 14:00 LUNCH

14:00 – 14:20 Terry Hock (NCAR): Status and Results of the recent Driftsonde Seychelles tests flights.

14:25 – 14:45 Alex Doerenbecher (CNRM-GAME): Adaptive deployment of dropsonding above Antarctica.

IASI ASSIMILATION (Chair: James Cameron)

14:50 – 15:10 Thierry Phulpin (CNES): An overview of scientific applications with the IASI instrument.

15:15 – 15:35 Vincent Guidard (CNRM-GAME): Status of IASI assimilation and IASI retrievals compared with dropsondes from the pre-Concordiasi campaign.

15:40 – 16:00 Nadia Fourrié (CNRM-GAME): Use of cloudy IASI radiances, an intercomparison over the Southern polar region.

16:05 – 16:30 COFFEE BREAK

16:30 – 16:50 Chawn Harlow (Met Office): IASI 1DVAR retrievals of temperature and emissivity over sea ice and snow covered land validated by dropsondes.

16:55 – 17:15 Aurélie Bouchard (CNRM-GAME): IASI retrievals at Concordia using data from Concordiasi.

17:20 – 18:15 General discussion

18:15 Cocktail

TUESDAY 30 MARCH

THE POLAR VORTEX (Chair: Terry Deshler)

08:45 – 09:05 Howard K. Roscoe (British Antarctic Survey): Importance of and evidence for the existence of the edge region of the Antarctic stratospheric vortex.

09:10 – 09:30 C. Roberto Mechoso (UCLA): Dynamical studies of the stratosphere with VORCORE SPBs

09:35 – 09:55 Albert Hertzog (LMD): What can we learn about gravity-waves with Concordiasi?

10:00 – 10:20 Vincent Noël (LMD): An optically thick PSC generated by gravity wave activity observed over Antarctica from spaceborne lidar, and its potential for NAT belt seeding.

10:25 – 10:55 COFFEE BREAK

DATA ASSIMILATION (Chair: Tony McNally)

11:00 – 11:20 Louis-François Meunier (Météo-France and GMAO): Lagrangian assimilation of VORCORE Antarctic Balloons in the GEOS-5 Assimilation System.

11:25 – 11:45 Yann Michel (CNRM-GAME and NCAR): Background Error Statistics with a Mesoscale Model over Antarctica

11:50 – 12:10 James Cameron (Met Office): The status of satellite data assimilation in polar regions at the Met Office.

12:15 – 12:35 Chawn Harlow (Met Office): Lambertian snow emissivities: summary of recent work and application to Antarctica

12:40 – 14:00 LUNCH

14:00 – 14:20 Stéphanie Guedj (CNRM-GAME): AMSU emissivities over Antarctica.

14:25 – 14:45 Fatima Karbou (CNRM-GAME): Impact study of AMSU-A/B data over sea-ice in the Météo-France global assimilation system.

MEASUREMENTS AND MODELLING OVER ANTARCTICA (Chair: Eric Brun)

14:50 – 15:10 Frédérique Rémy (LEGOS): Observation of the Antarctica ice sheet by radar altimetry.

15:15 – 15:35 Christophe Genthon (LGGE): Studies of Antarctic Precipitation Statistics.

15:40 – 16:00 Gianpaolo Balsamo (ECMWF): Impact of Antarctica albedo changes in the ECMWF model.

16:05 – 16:30 COFFEE BREAK

16:35 – 16:55 Eric Brun (CNRM-GAME): Snow modelling over Antarctica.

17:00 – 17:20 Christophe Genthon (LGGE): Extremely stable boundary layer and fast-warming events on the Antarctic plateau.

17:25 – 17:55 General discussion

19:30/20:00 SOCIAL EVENT

Restaurant **La Cendrée**

11-15 rue des Tourneurs - 31000 Toulouse

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WEDNESDAY 31 MARCH

MEASUREMENTS AND MODELLING AT CONCORDIA (Chair: Christophe Genthon)

09:00 – 09:20 Maurizio Busetto (ISAC, CNR): BSRN measurements at Concordia

09:25 – 09:45 Philippe Ricaud (LA): The 183-GHz radiometer HAMSTRAD: Validation over the Pyrenees mountains (France) and first measurements at Dome C (Antarctica).

09:50 – 10:10 Delphine Six (LGGE): The 2009-2010 Concordiasi field campaign at Dome C

10:15 – 10:45 COFFEE BREAK

STRATOSPHERIC OZONE (Chair: Linnea Avallone)

10:50 – 11:10 Slimane Bekki (LATMOS): Stratospheric Ozone: concepts and interaction with climate.

11:15 – 11:35 William Lahoz (NILU): Chemical data assimilation: adding value to observations and model.

11:40 – 12:00 Benjamin Pajot (CERFACS): Assimilations of IASI ozone data with a CTM at high resolution.

12:05 – 12:20 Albert Herzog (LMD): A brief overview of in-situ ozone measurements with the LMD B-Bop instrument during the Seychelles campaign.

12:20 – 14:00 LUNCH

14:00 – 14:20 Laaziz El Amraoui (CNRM-GAME): Total ozone from Metop/IASI and Aura/MLS over Antarctica during the 2008 and 2009 austral winters.

14:25 – 14:45 Tony McNally (ECMWF): The assimilation of IASI ozone sensitive radiances over Antarctica.

14:50 – 15:15 General discussion

15:15 COFFEE BREAK

END OF THE WORKSHOP