

## Second International IHOP\_2002 Science Workshop

### Program

Monday 14 June 2004

**9:30 AM-9:45 AM**

Welcome to participants

Météo France / CNRM

**9:45 AM-10:00 AM**

Opening remarks

Cyrille Flamant and Joël Van Baelen

**10:00 AM-10:30 AM**

Introductory talk

Dave Parsons and Tammy Weckwerth

**10:30 AM-11:00 AM**

Coffee break

**11:00 AM-12:30 PM** Session 1: CONVECTION INITIATION

Chairperson: Yvette Richardson, PSU

11:00 AM

Summary of Convection Initiation and Evolution during IHOP

**Jim WILSON and Rita ROBERTS**

11:30 AM

Summary of Convection Initiation and Evolution During IHOP. Part II: Assessment of environmental stability and RUC10 forecasts of storm initiation

**Rita ROBERTS and Jim WILSON**

12:00 PM

Multi-scale Analysis and Prediction of Convective Initiation Along a Dryline

**Ming XUE et al.**

**12:30 PM-2:00 PM**

Lunch break

**2:00 PM-4:00 PM** Session 1: CONVECTION INITIATION (Cont'd)

Chairperson: Roger Wakimoto, UCLA

2:00 PM

Observations of convection initiation "failure" from 12 June 2002 IHOP Deployment

**Paul MARKOWSKI et al.**

2:30 PM

Along-frontal moisture and kinematic variability and their impact on 12 June CI

**Tammy WECKWERTH and Crystalne PETTET**

3:00 PM

Observations of the 11 June 2002 Dryline during IHOP - A Null Case for Convection Initiation

**Huaqing CAI et al.**

3:30 PM

LASE observations of convective events during IHOP

**Syed ISMAIL et al.**

**4:00 PM–4:30 PM**

Coffee break

**4:30 PM–6:30 PM**

Session 1: CONVECTION INITIATION (Cont'd)

Chairperson: Tammy Weckwerth, NCAR

4:30 PM

Dryline on 19 June 2002 during IHOP. Part I: Airborne Doppler and LEANDRE II Analysis of the fine line structure and convection initiation  
**Hanne MURPHEY et al.**

5:00 PM

Convective Initiation Studies on 10 June and 19 June 2002  
**Yvette RICHARDSON et al.**

5:30 PM

The "Triple Point" on 24 May 2002 during IHOP. Airborne Doppler and LASE Analyses of the Frontal Boundaries and Convection Initiation  
**Roger WAKIMOTO et al.**

6:00 PM

Examination of the Performance of Several Mesoscale Models for Convective Forecasting During IHOP  
**Ed SZOKE et al.**

Tuesday 15 June 2004

**9:00 AM–10:30 AM**

Session 2: ATMOSPHERIC BOUNDARY LAYER

Chairperson: Françoise Guichard, CNRM

9:00 AM

The effects of surface heterogeneity on boundary layer structure and fluxes  
**Margaret LEMONE et al.**

9:30 AM

Observations of ABL and land Surface Heterogeneity in IHOP  
**Ken DAVIS et al.**

10:00 AM

Highlights of Refractivity Observations  
**Frederic FABRY and ShinJu PARK**

**10:30 AM–11:00 AM**

Coffee break

**11:00 AM–12:30 PM**

Session 2: ATMOSPHERIC BOUNDARY LAYER (Cont'd)

Chairperson: Peggy LeMone, NCAR

11:00 AM

Large eddy simulation of water vapour variability within a convective boundary layer: evaluation against observations  
**Fleur COUVREUX et al.**

11:30 AM

Simulation of the 29 May BLH case  
**Sophie BASTIN et al.**

12:00 AM

MM5 Numerical Simulations of IHOP ABL Days  
**Brian REEN et al.**

**12:30 PM–2:00 PM**

Lunch break

**2:00 PM-4:00 PM**      Session 2: ATMOSPHERIC BOUNDARY LAYER (Cont'd)

Chairperson: Ken Davis, PSU

2:00 PM                      Airborne co-located DIAL and HRDL measurements of water vapour and latent heat flux on June 6 and 7, 2002

**Christoph KIEMLE et al.**

2:30 PM                      Measurements of Boundary Layer Turbulence and Moisture Transport With Combined DIAL/Doppler Lidar

**Mike HARDESTY et al.**

3:00 PM                      The vertical structure of continental convective boundary layer: echo plumes; vertical velocity, buoyancy, and insect flight behavior

**Bart GEERTS et al.**

3:30 PM                      Study of the water vapor heterogeneity by lidar, GPS and NWP: Preliminary results from the 29 May IHOP\_2002 BLH case

**Jerome TARNIEWICZ et al.**

**4:00 PM-4:30 PM**

Coffee break

**4:30 PM-6:00 PM**      Session 3: QUANTITATIVE PRECIPITATION FORECASTING

Chairperson: Dave Parsons, NCAR

4:30 PM                      Diurnal cycle studies using IHOP and other data

**June WANG and Dave PARSONS**

5:00 PM                      Evaluation of the ability of numerical weather prediction models run in support of IHOP to predict the evolution of mesoscale convective systems

**Steve KOCH et al.**

5:30 PM                      Moisture fluxes during the June 9 IHOP low-level jet: Dropsonde observations and comparisons with WRF forecasts

**Edward TOLLERUD et al.**

**6:00 PM-8:00 PM**

Ice Breaker Reception with a Formal Poster viewing

Wednesday 16 June 2004

**9:00 AM-10:30 AM**    Session 4: COMPARISONS

Chairperson: Joel Van Baelen, CNRM

9:00 AM                      Long-Term Refractivity Comparisons between Radar Measurements and Surface Data

**ShinJu PARK**

9:30 AM                      Radar refractivity: validation and application to forecasting

**Crystalyne PETTET et al.**

10:00 AM                      Comparison of dropsonde and radiosonde data during IHOP

**June WANG**

**10:30 AM-11:00 AM**

Coffee break

**11:00 AM-12:00 PM** Session 4: COMPARISONS (cont'd)

Chairperson: Joel Van Baelen, CNRM

11:00 AM Intercomparison of high sample rate GPS integrated water vapor with other IHOP instrumentation

**Jennifer HAASE**

11:30 AM Intercomparisons of water vapor active remote sensing systems during IHOP

**Volker WULFMEYER et al.**

**12:00 PM-12:30 PM** DATA MANAGEMENT

12:00 PM The IHOP Data management

**Steve WILLIAMS**

**12:30 PM-2:00 PM**

Lunch break

**2:00 PM-4:00 PM** Session 5: BORES

Chairperson: Steve Koch, NOAA

2:00 PM The structure and dynamics of solitons and bores

**Steve KOCH et al.**

2:30 PM Modeling of a bore on June 04, 2002

**Mariusz PAGOWSKI and Steve KOCH**

3:00 PM The life cycle of a bore event

**Cyrille FLAMANT et al.**

3:30 PM Bore climatology and speculation on maintenance of nocturnal convection

**Dave PARSONS et al.**

**4:00 PM-4:30 PM**

Coffee break

**4:30 PM-6:30 PM**

Topical discussions

Parallel working groups: CI, ABL, QPF, Bores, Comparison

**8:00 PM**

Workshop dinner downtown Toulouse

Thursday 17 June 2004

**9:00 AM-9:45 AM**

Session summaries

**9:45 AM–10:30 AM**

Topical discussion summaries

**10:30 AM–11:00 AM**

Coffee break

**11:00 AM–12:30 AM**

Final panel discussion

**12:30 PM–2:00 PM**

Lunch break

**2:00 PM–3:30 PM**

ONGOING AND FUTURE CONVECTION-RELATED PROJECTS

Chairperson: Cyrille Flamant, IPSL

2:00 PM

The CMOS Project

**Christoph KOTTMEIER et al.**

2:30 PM

The VAPIC Project

**Martial HAEFFELIN et al.**

3:00 PM

The Convective Storm Initiation Project (CSIP), UK

**Alan BLYTH and Keith BROWNING**

**3:30 PM–4:00 PM**

Coffee break

**4:00 PM–5:30 PM**

ONGOING AND FUTURE CONVECTION-RELATED PROJECTS (cont'd)

Chairperson: Cyrille Flamant, IPSL

4:00 PM

The German QPF Program and corresponding field activities

**Volker WULFMEYER et al.**

4:30 PM

The African Monsoon Multidisciplinary Analysis Project

**Jean-Luc REDELSPERGER et al.**

5:00 PM

The REFRACTT experiment/demonstration

**Rita ROBERTS et al.**

**5:30 PM**

Meeting adjourns