Tentative AGENDA as of 03/17/03

IHOP_2002 Spring Science Workshop

National Center for Atmospheric Research
Foothills Laboratory
Boulder, CO

Monday, 24 March 2003

1:00 pm Welcome

1:10 pm Meeting goals and logistics (Weckwerth)

1:15 pm Data archive/surface and sounding composites (Williams)

1:45 pm Instrument Observations – 15 min each (Ehret)

- 1:45: Flamant (Overview of IHOP-FRA activities including Leandre II analyses)
- 2:00: Browell (LASE observations)
- 2:15: Ehret (DLR DIAL observations)
- 2:30: Hardesty (airborne Doppler lidar and flux data)
- 2:45: van Baelen (IWV results with French GPS system)
- 3:00: Feltz (AERI observations)
- 3:15: Whiteman (Scanning Raman Lidar observations)

3:30 pm Break

3:45 pm Instrument Observations Cont. – 15 min each (Ehret)

- 3:45: Schwemmer (HARLIE observations)
- 4:00: Miller (HARLIE boundary layer and cloud data over Homestead)
- 4:15: Gentry (GLOW observations)

Instrument Intercomparisons – 15 min each (Koch)

- 4:30: Anagnostou (S-Pol/X-Pol observations)
- 4:45: Weckwerth (refractivity intercomparisons)
- 5:00: Fabry (research progress and plans)
- 5:15: Smith and Zhou (Mesoscale Thermodynamics Observed with NAST-I)
- 5:30: Wang (reference radiosonde and cirrus cloud observations)
- 5:45: Behrendt (instrument intercomparisons)

6:00 pm Adjourn for the day

Tuesday, 25 March 2003

8:30 am Continental breakfast provided

9:00 am Open Discussion: Instrument intercomparison/data quality and data assimilation requirements (Parsons)

9:30 am Atmospheric Boundary Layer – 15 min each (LeMone)

- 9:30: LeMone (ABL)
- 9:45: Blanken (drought impacts on surface energy balance)

10:00 am Break

10:30 am Atmospheric Boundary Layer Cont. – 15 min each (LeMone)

- 10:30: Davis (ABL observations)
- 10:45: Reen (ABL modeling)
- 11:00: Chen (surface/vegetation/soil data and their application)

11:15 am Poster viewing (authors standing at posters)

12:00 pm Lunch on your own

1:00 pm Boundaries and Bores – 15 min each (Flamant)

- 1:00: Demoz (22 May dryline observations)
- 1:15: Weiss (radar observation of 22 May dryline)
- 1:30: Knupp (MIPS observations)
- 1:45: Geerts (24 May boundary structure and evolution)
- 2:00: Parsons (nocturnal convection, bores, overrunning and gravity waves)
- 2:15: Koch (observations of 4 June bore event)
- 2:30: Pagowski (simulations of 4 June bore event)

2:45 pm Break

3:15 pm Convection Initiation – 15 min each (Wakimoto)

- 3:15: Richardson (DOW CI analyses)
- 3:30: Ziegler (CI analyses)
- 3:45: Wakimoto (CI on 24 May, 19 June and "atomic bomb")
- 4:00: Cai (ELDORA observations of a null CI event)
- 4:15: Posselt (CI-GIFTS)
- 4:30: Markowski (CI analyses)

4:45 pm Informal discussions and poster viewing

6:00 pm Adjourn for the day

Wednesday, 26 March 2003

8:30 am Continental breakfast provided

9:00 am Model Verification – 15 min each (Brown)

- 9:00: Wilson (CI predictability with models)
- 9:15: Loughe (precipitation verification results)
- 9:30: Brown and Szoke (hi res model performance)
- 9:45: Xue (precipitation verification of CAPS hi res realtime forecasts)
- 10:00: Birkenheuer (LAPS moisture studies)
- 10:15: Schultz (diabatic initialization of MM5 and WRF)

10:30 am Break

10:45 am Wrap-up (Parsons)

11:30 am Informal discussions and poster viewing

12 noon Workshop adjourned

Poster Presentations

“Modeling studies with Meso-NH to investigate water vapor variability” by Fleur Couvreux

“GOES-11 Single Field of View (1x1) Derived Product Imagery Validation using IHOP Data Sets” by Wayne Feltz

“MIPS Measurements of boundaries during IHOP” by Kevin Knupp

"A Methodology for Real-time Quantitative Precipitation Verification During IHOP"
by Andrew F. Loughe, Linda S. Wharton, Jennifer Luppens Mahoney, Edward I. Tollerud

"Preliminary Measurements with CODI: an Automated Compact Water Vapor DIAL" by Janet Machol

“Inferring convectively-induced wave and roll structures in the boundary layer using profiling instruments: An application to convective initiation during IHOP_2002” by John Mecikalski

“The Atmospheric Land-EXchange Inverse (ALEXI) model: Regional scale flux validations, climatologies and available water as derived from remote sensing inputs” by John Mecikalski

"Study of the water vapor field heterogeneity by lidar, GPS and NWP: Preliminary results from the 29 may IHOP BLH case" by J. Tarniewicz, O. Bock, J. Pelon, C. Flamant

"A Multi-scale Analysis of Moisture Transport during the 9 June IHOP Low-Level Jet Case"
by Edward Tollerud, Fernando Caracena, Adrian Marroquin, Brian Jamison, Michael Hardesty, and Steve Koch