4th Workshop on the
Use of Isentropic & other Quasi-Lagrangian Vertical Coordinates in Atmosphere & Ocean Modeling
NOAA/ESRL – DSRC, Boulder, CO – Room GC402

Tuesday 7 October 2008

8:30 am	Coffee, light breakfast
9:00 am	Introductory comments -- Sandy MacDonald– NOAA/ESRL, Louis Uccellini – NOAA/NWS/NCEP
9:30	Stan Benjamin - Performance comparison of hybrid isentropic-sigma vs. sigma configurations of the FIM global model
10:00	Todd Schaack – SSEC/U. Wisconsin – Daily Numerical Weather Prediction with the Global University of Wisconsin Hybrid Isentropic Coordinate Model
10:30	Break
10:45	Rainer Bleck – NOAA/ESRL, NASA/GISS - The hybrid-isentropic grid generator in FIM.
11:15	Hann-Ming Henry Juang – NCEP - The development and performance of NCEP GFS in sigma-theta coordinates.
11:45	Working lunch served
13:00	Don Johnson – U. Wisconsin - Entropy as a Property and Process in Understanding and Modeling Weather and Climate; Retrospection and Introspection
13:45	Ming Cai – Florida State - The linkage of tropical/extratropical coupling with the stratosphere-troposphere coupling: A global mass circulation view in the isentropic coordinate.
14:15	Ross Heikes – Colorado State University - Continuing Development of Models Based on the Generalized Vertical Coordinate.
14:45	Break
15:00	Tim Dowling – U. Louisville - Potential temperature as a diagnostic variable and retrofitting a finite-volume horizontal pressure-gradient force to the C-grid.

15:30   Brad Pierce – NESDIS, U. Wisconsin - RAQMS global chemical and aerosol assimilation and forecasting studies during the NOAA 2006 TEXAQS and 2008 ARCPAC field campaigns.

16:00   Ram Nair – NCAR - A High-Order Conservative Atmospheric Dynamical-Core Based on Vertical Lagrangian Coordinates

16:30   Discussion

18:30   Group dinner – location TBD

Wednesday 8 October 2008

8:30 am	Coffee, light breakfast
9:00	Jimy Dudhia (for Guenther Zaengl) - A Hybrid-Isentropic Vertical Coordinate for the WRF-ARW Model
9:30	Michael Toy – Colorado State University - A New Nonhydrostatic Atmospheric Model Based on a Hybrid Vertical Coordinate.
10:00	Peter Hjort Lauritzen – NCAR - A mass-conservative version of the semi-Lagrangian semi-implicit HIRLAM using Lagrangian vertical coordinates
10:30	Break
10:45	Rainer Bleck - Initialization of layer models for numerical weather prediction.
11:15	Chul-Su Shin and Ming Cai – Florida State - Verification of the NCEP Operational GFS Predictions for the Stratosphere Circulation Anomalies in an Isentropic Potential Vorticity Coordinate
11:45	Working lunch served
13:00	Allen Lenzen – SSEC/U. Wisconsin - Impacts of Physical Parameterizations in Global UW Hybrid Model Simulations
13:30	Chih-Chieh Chen – NCAR - Climate Simulations with an Isentropic Finite Volume Dynamical Core
14:00	John Brown and Ed Szoke – NOAA/ESRL - Qualitative Assessment of Differences In Performance Between the Flow-following Icosahedral Model and the Global Spectral Model
14:30	Rainer Bleck - Layer Modeling 50 years ago -- How it all started
15:00	Summary of issues and discussion
18:30	Group dinner for those available

Thursday 9 October 2008

8:30 am	Coffee, light breakfast
9:00	Further discussion as appropriate