

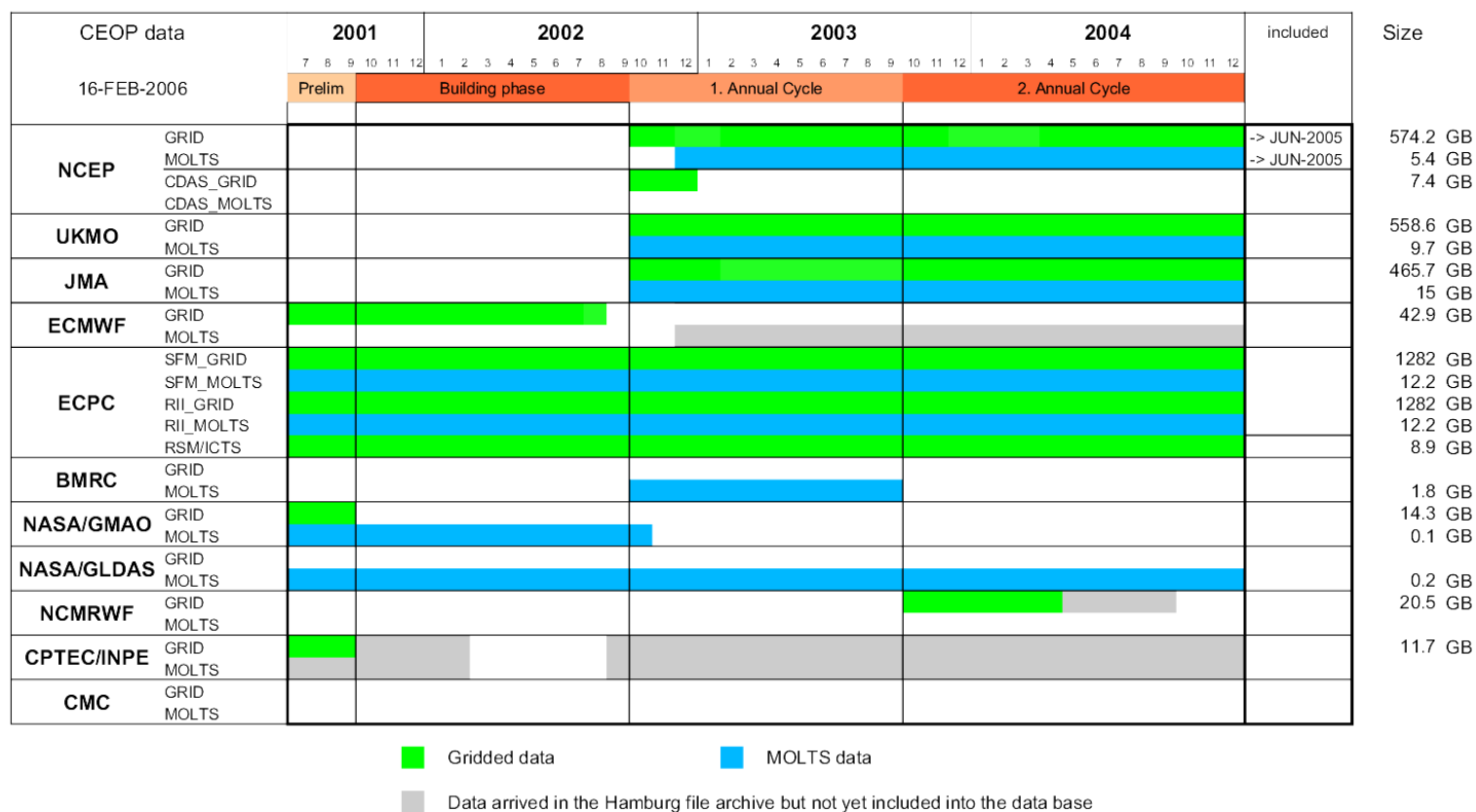
# CEOP Model Phase 1 Summary

Mike Bosilovich

Representing the  
Model Output working  
group



# MPI: Model and Data



Hans Luthardt M&D/MPI-M

4324.8 GB

- Total Storage for CEOP – 1.3 TB (as of 10/5/04)



# Model Papers Submitted

1. Modeling of surface flux in TongYu using the Simple Biosphere Model 2 (SiB2)
2. Simulation of CO<sub>2</sub> and Sensible/Latent Heat Fluxes Exchange between Land Surface and Atmosphere over Cropland and Grassland in Semi-Arid Region
3. Skin Temp Analysis and Bias Correction in a Coupled Land-Atmosphere Data Assimilation System
4. Modification and Application of the Satellite Based Land Data Assimilation Scheme for Very Dry Soil Region Using AMSR-E Images: Model Validation at Mongolia - A CEOP Data Platform
5. The Diurnal Cycle of Water and Energy over the Continental United States from Three Reanalyses
6. Development and Validation of a New Land Surface Model for the JMA's Operational Global Model Using the CEOP Observation Dataset
7. Global Evaluation of the RSM Simulated Precipitation through Transferability Studies during CEOP
8. CPTEC GCM and Eta Model Verifications against Rondonia Reference Site in Brazil
9. Sensitivity of Land Sfc Simulations to Model Physics, Parameters, and Forcings, at 4 CEOP Sites
10. Evaluation of Sfc Water and Energy Cycles in the Met Office Global NWP Model using CEOP Data
11. A comparison of some surface variables in the BMRC MOLTS with CEOP in-situ data for EOP3
12. CEOP-based Diagnosis of Prediction Skill of Four Operational GCMs and One LDAS
13. Simulation of the Land-Atmosphere Interactions on the Tibetan Plateau: II. Evaluation of Penn State/NCAR Mesoscale Model, MM5



# Some Accomplishments

- Regular telecons
  - Data and Project Updates
  - Data sharing dissemination (e.g. WTF)
  - Walk through data facilities
  - Data storage issues (model requirements, versus data system needs)
  - Formats and variables
  - Science issues and projects
- AGU Session on Integrated Data
  - Water and Energy budget studies and data handling
  - “outside” presenters



## Ongoing Projects with Phase 1 data

- Many MOLTS comparisons with in-house developments (JMA, UKMO, GMAO, others)
- Cloud study (Martin Koelher ECMWF, Rachel Pinker, U MD)
- Surface Heterogeneity study (Houser CREW, Peters Lidard GSFC)
- Wavelet analysis of the surface meteorology (Rikus BMRC)
- Analysis system uncertainty (Bosilovich)