Modeling Breakout

Sept 17, 2008

Discussion Points

- Activities and Issues regarding the CEOP Phase 1 data
  - GLDAS, ICTS, Global NWP
  - Publications would be a major metric assessing the success of CEOP 1
  - Feedback from RHPs and Focus Topics
- Direction and objectives 2009-2013 (near term – long term)
  - Data contributions, common structures
  - RHP Focus topic needs

CEOP Phase 1 Activities

- Native vertical coordinate data may also be useful, if centers provided routines to convert to various vertical coordinates
- Generally, tool to make the data more broadly useful.
  - Subsetting tools – levels, variables, timing and space
  - Also Monthly Diurnal for MAC and CEOP models
  - OpenDAP Access for CEOP data (Check!)
- Ideally 1 hourly, practically 3 hours for diurnal cycle of monsoons from the Phase 1 model contributions (Action MB & DM to look at MAC v2 reprocessing)
- Better Documentation on the models (e.g. updates, JMA NCEP)
- Sfc winds missing from GLDAS data?
- MOLTS would be useful from regional models
- GLDAS very useful

Future Directions

- Near Term
- Regional model plans? What is the future of ITCS? Encompassing High Elevation area?
- Updated data would be needed for many CEOP Focus studies (Reprocessing for the Greater CEOP time period, Oct 2002 – Present)
- Spatial resolution, need interactions between model groups and focus studies
- Interactions between modelers and Focus Studies on a monitoring network (e.g. HE)
- Near term develop Basin Mask(s) for models (many exist, should be doable, MAC and general use)

- Long Term
- CAPT – Climate model prediction (very short) to look at model errors (relative to CEOP/GEWEX priorities and objectives)
- Better use of satellite to improve analyses (data Assimilation) Hydrologic conditions – Sensitivity (e.g data from varios NWP/DA centers)
- Challenge of time variation in the observing systems – esp satellites
- 2013: Based on MAC, develop a data repository for NWP operational analyses and forecasts – IPCC like, uniform formats and structures, open to the research community a source of legacy data for the centers