CIMS breakout session

1, Phase-I milestones, Phase II plan:

-Focus on diurnal, seasonal monsoon cycle, inter-monsoon characteristics, model-intercomparison studies,

- CIMS workshops thematic workshops e.g. Milan, 2003, Montevideo 2004, Rome, Italy, 2005, Lhasa (or TBD) in China, Aug. 2006

-Increased CEOP visibility through Joint sessions, AMS, AGU; invited overview talks at international symposium, IAMAP; averaged at least 2 events per year

-8 papers in Special Issues JMSJ

Continued above activities into Phase II

-Continue diurnal, seasonal cycle focus for model physic improvement, land-atmosphere interaction in conjunction with reference site validations, and CSE heritage

- Phase II new thrusts: aerosol-monsoon water cycle interaction, extreme event diagnostics

2. Current data collection, and new data set requirements:

Incomplete reference site data for EOP periods continued to be a source of frustration MOLTS data, not much used yet? May need to be used more

3. New data requirements

- Reference sites in northern India- Pakistan-Himalayas-Tibet-western China region, e.g. Kanpur, Pune reference site over India; Lhasa, Lanzhou (semi-arid region) reference stations in China,

- MOLTS, subset satellite data set

- West Africa AMMA region reference- need Project Office help to get AMMA data for data analysis and model validation

- South American monsoon region? Explore flux tower in Santa Fe, in Argentina?

- TRMM 3hr rainfall data available for diurnal studies

- Need to include AERONET network, as part of CEOP database, with links to existing web sites.

- UMDSRB (Pinker); Global 20 year at 2.5 degree 3 hourly (not exactly,), half degree for 10 years for N and S. America, include LBA (3 hourly), *Beija- Flor*, India Ocean + subcontinent 1 year (Sept 2002- Sept 2003), 1 hour.

4. Framework for accommodating new science focus

Model intercomparison, downscaling/telescoping, detailed model evaluation aimed at improvement of physics,

 focused on unique science priorities not covered in GEWEX/CLIVAR panel, but coordinate with existing panels

- dust transport from semi-arid region

- high altitude cold land processes impacts on monsoon processes, e.g. aerosols, snow cover, land hydrology

5. Connection, joint project, new opportunities

- International field campaign: Rajo-Megha dust cloud experiments over Indo-Gangetic Plain/Himalayas/Tibet/Western China to test aerosol "elevated heat pump" hypothesis
- West African Monsoon Model Evaluation (WAMME) project a white paper has been written and passed onto AMMA modelers
- Encourage specific group on aerosol-monsoon interaction for South American monsoon- link to VAMOS, CSE's (LBA, LPB)

6. Concrete objectives, deliverables, time frame, implementation steps

- CEOP co-sponsorship of joint internationalproject/workshop: Rajo-Megha in 2007-8
- Establish contact with AMMA at project level within next 2 months, WAMME workshop in late 2006
- CEOP co-sponsored aerosol-monsoon workshop in July-Aug, 2006, China

- Formation of the South American monsoon-aerosol group in a year. Yes or No?.

 keep up peered referred publications related to CEOP