



CEOP Reference Sites and Hyrdology Basins

1. Current Phase I archive status (critical review)
2. Phase I sites may not participate in Phase II
3. Additional parameters for Phase II
4. Additional sites for Phase II
5. Reconsider data delivery aspects



1. Current Phase I archive status (critical review)

- Set a final data deliver deadline (closing date by August 2006).
- Overall aim: to finally report on the CEOP Phase 1 reference site archive at the GEWEX Panel Meeting in October 06;
- Work with CSEs and Site Managers to develop a time schedule of milestones and deliverables to meet the above overall aim
- Complete the meta data archive of at least those sites which are most probably expected to have a final substantial data coverage.

Details on next page.....



Metadata Enhancements

- Need to quantify site heterogeneity (e.g. hi-res DEM, satellite)
- More complete metadata (site/data)
- Need to have information on data interpretation
- Need flux “footprint” for analysis/interpretation
- Accuracy of streamflow information for Basins
- Identify and update ancillary information such as clouds (describe site measurements)
- Need additional parameters such as aerosol, carbon, ...



2. Phase I sites that may not participate in Phase II

Discussion: What is the CEOP reference site strategy beyond Phase I ?

Some sites may not be able to continue due to funding constraints or no desire to participate beyond Phase I

Keep the data continuous between Phase I and II

A clear message is required for site managers !! NOW !!

CSEs to coordinate decision with Site Managers

Need to finalize Phase II Reference Site commitments by May 2006

Need to rank “Desired“ Sites of Interest



5. Additional parameters for Phase II

This discussion **MUST** be held with at least input from the new projects envisioned for CEOP Phase II, i.e.

1. Semi-arid study
2. Cold-region study
3. Watershed Hydrology Study
4. Others ? (e.g. aerosols)

Objective: Establish a catalogue of data required additionally (additionally compared to the present reference site data set), related details such as time resolution, accuracy etc.

Aim may be, to have such a catalogue ready again at the GEWEX meeting Oct 2006.

Also. Additional parameters (such as cloud information) may be added to the CEOP Phase II (based on several statements during this meeting)

Survey Site Managers as to availability of ancillary data (such as cloud observations) and other measurements as needed by Phase II



3. Additional Sites for Phase II

Issues:

1. Based on the review made under 2: Where are gaps in the future CEOP phase II coverage, just because stations may not continue. Are these gaps significant, or may CEOP survive even with these new gaps ?
2. A plan must be presented to GEWEX Meeting in October 2006.
3. See Recommendations on Phase II Reference Site selection.



Suggestions for Phase II Site Selection

- Sites should be stable and long-term (e.g. larger multidisciplinary “supersites”)
- Located in important climate regions for CEOP scientific objectives (analysis needed....)
- Reduce overlap of existing sites (e.g. similar types of sites)
- Combine Reference Sites and Hydrological Basins (well defined catchments) whenever possible
- Need to have limited/reliable sites



New CEOP Reference Sites and towards Global coverage

1. Additional continental sites

Exploring existing CSEs:

e.g. La Plata, AMMA (enhance current observations)

Exploring existing sites within GEWEX/WCRP

e.g. BSRN, FLUXnet,...

Exploring upcoming projects and programmes beyond GEWEX:

e.g. NEESPI, CliC,.....

Exploring other consortia beyond GEWEX:

e.g. European IP/NoE consortia on climate (Mediterranean !) and Super Sites

2. Ocean Reference Sites (*e.g.* buoy,...)



5. Reconsider Data Policy, specifically data delivery aspects?

Keep the current category 1 and 2 deadlines but Sites need to work harder to meet them....

CEOP Phase II – Reference sites



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