

Coordinated Energy and Water Cycle Observation Project (CEOP)

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# The Proposed CEOP-HE Implementation Strategy

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# CEOP – High Elevations Science Plan (SP)

## Structure

1. **Motivation:** Why focus on the HE/mountain areas ?  
Why we need CEOP-HE ?

2. **Reviewing:** Key processes to reveal  
Regional issues

3. **Strategy:** Observation  
Data archive and management  
Modeling and data assimilation

4. Tentative implementation/action plan  
Organization and time line  
Meeting/workshop  
Establishment of study group  
Data center? Technical exchanges?

5. Contribution to GEWEX/CEOP and expected deliverables



# CEOP – High Elevations Science Plan (SP)

## Contents

1. Introduction
2. Science rationale
3. Key elements of process studies
4. Regional issues
5. Outline of CEOP-HE objectives
6. Observation techniques and networking
7. Numerical modelling
8. Data archive, assimilation and management
9. Implementation plan (including Timelines & Deliverables)
10. Contribution to the GEWEX/CEOP objectives and roadmap and to GEOSS

References

CEOP-HE Organization

Appendices

# Main activities related to the implementation strategy



## HE-Science Plan

Awaiting comments and corrections from the SC members within October 2008, then final revision for scientific evaluation and subsequent approval by CEOP.

### Action A: Network

Ev-K2-CNR plans to identify representative **high-elevation stations** around the world (less than 50), which are already operational and can contribute qualitative data to CEOP-HE archive.

From this group, criteria such as monitoring plans, data availability, QC/QA procedures, etc. will be evaluated. **20-30 stations** will be selected. Finally, **reference stations** will be identified and their insertion as new CEOP Reference Stations will be promoted.

### Action B: HE-SP review publication

Publication on an international journal of a review of the comprehensive work compiled for the SP.

# Main activities related to the implementation strategy



## Action C

Plan next SC meeting as **open science workshop**, with the following objectives:

- focalize the main scientific issues
- make plans for HE stations network

**Possible venues:** [Kirghizstan](#), [Lhasa](#), ...

Publish workshop proceedings in a refereed book.

## Action D

After starting CEOP-HE science activity, propose a special session on CEOPHE in AGU, EGU, or other international conferences to:

- present our activity to the **international scientific community**.
- create group of **young scientists**, emphasizing the need for educational exchanges to build the capacity of the research group and sustain our long-term activity.
- involve **other experts**, especially in modelling and satellite measurements.

## Action E

Establish **research groups** focused on **specific areas** where reference sites already exist, like Himalaya/Tibet/Karakorum mountain ranges.