

# Extremes and CEOP:

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# Background

Some of CEOP's key features include:

- Focus on a particular period
- 'Ready' access to a variety of information

CEOP's scientific effort is concerned with the water cycle:

- Fluxes and reservoirs over land
- Monsoon circulations

Excellent opportunity to consider extremes:

- A critical issue
- Some work is already being conducted

# OVERALL OBJECTIVE

## Overall objective

*To advance our understanding of extremes including their occurrence, characteristics, evolution and inter-connections.*

The focus is initially on:

- Drought
- Extended period of precipitation  
(of order 1 - few days at least)
- ...

# SUB-OBJECTIVES

During the CEOP period ...

- What extremes occurred?
- What are the characteristics of these extremes?
- How did the cycling of water and energy occur within these extremes?
- To what degree were the extremes inter-connected?

# STEPS

## **Pragmatic summary:**

- **Summarize the occurrence of extremes around the world and some of their characteristics mainly by using readily-available information**
- **Identify a number of regional in-depth studies that are already focusing on particular extremes during CEOP**
- **Ensure that appropriate global scale studies are carried out to fully achieve the Extremes objectives**

# OUTCOMES

Some of the outcomes for the CEOP period are:

- Inventory of extremes
- Documentation and interpretations of inter-connections
- Detailed water and energy studies of a small number of extreme events
- Foundation for further research
  - conducted internal or external to CEOP
  - one example - studies aimed at the improved prediction of extreme events.

# FOLLOWING PRESENTATIONS

- Global Extremes  
Ben Burford
- Detailed Studies of Extremes  
Hugo Berbery  
Jose Marengo  
Ron Stewart
- Prediction of Drought  
Eric Wood