



Regional Crosscutting: Regional Climate Foci

Monsoons (J. Matsumoto/H. Berbery)

Semi-arid Regions (W. Guo)

Cold Regions (T. Ohata)

High Elevations Initiative (G. Tartari)

Invited Talk: CEOP-AEGIS (Massimo Menenti)

Invited Talk: CEOP Contribution to GEO Water Tasks (R. Lawford)

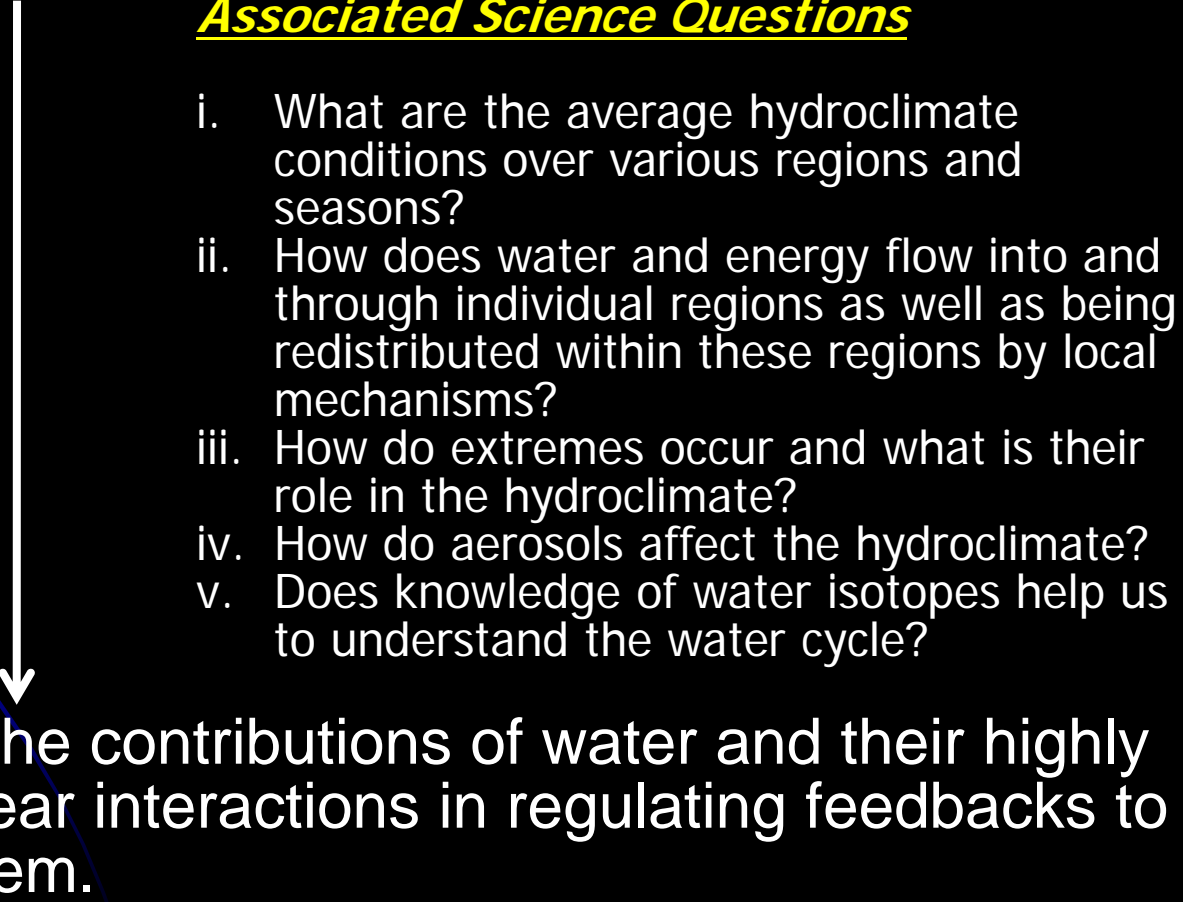
CEOP Objective #2:

GEWEX Objective #2

Enhance the understanding of and quantify how energy and water cycle processes contribute to climate feedbacks.

Associated Science Questions

- i. What are the average hydroclimate conditions over various regions and seasons?
- ii. How does water and energy flow into and through individual regions as well as being redistributed within these regions by local mechanisms?
- iii. How do extremes occur and what is their role in the hydroclimate?
- iv. How do aerosols affect the hydroclimate?
- v. Does knowledge of water isotopes help us to understand the water cycle?



Understanding the contributions of water and their highly coupled non-linear interactions in regulating feedbacks to the climate system.

CEOP Objective #3:

GEWEX Objective #3


Improve the predictive capability for key water and energy cycle variables and feedbacks through improved parameterizations to better represent hydrometeorological processes, and determine the geographical and seasonal characteristics of their predictability over land areas.

Associated Science Questions

- vi. Can we simulate and predict the hydroclimate cycle?

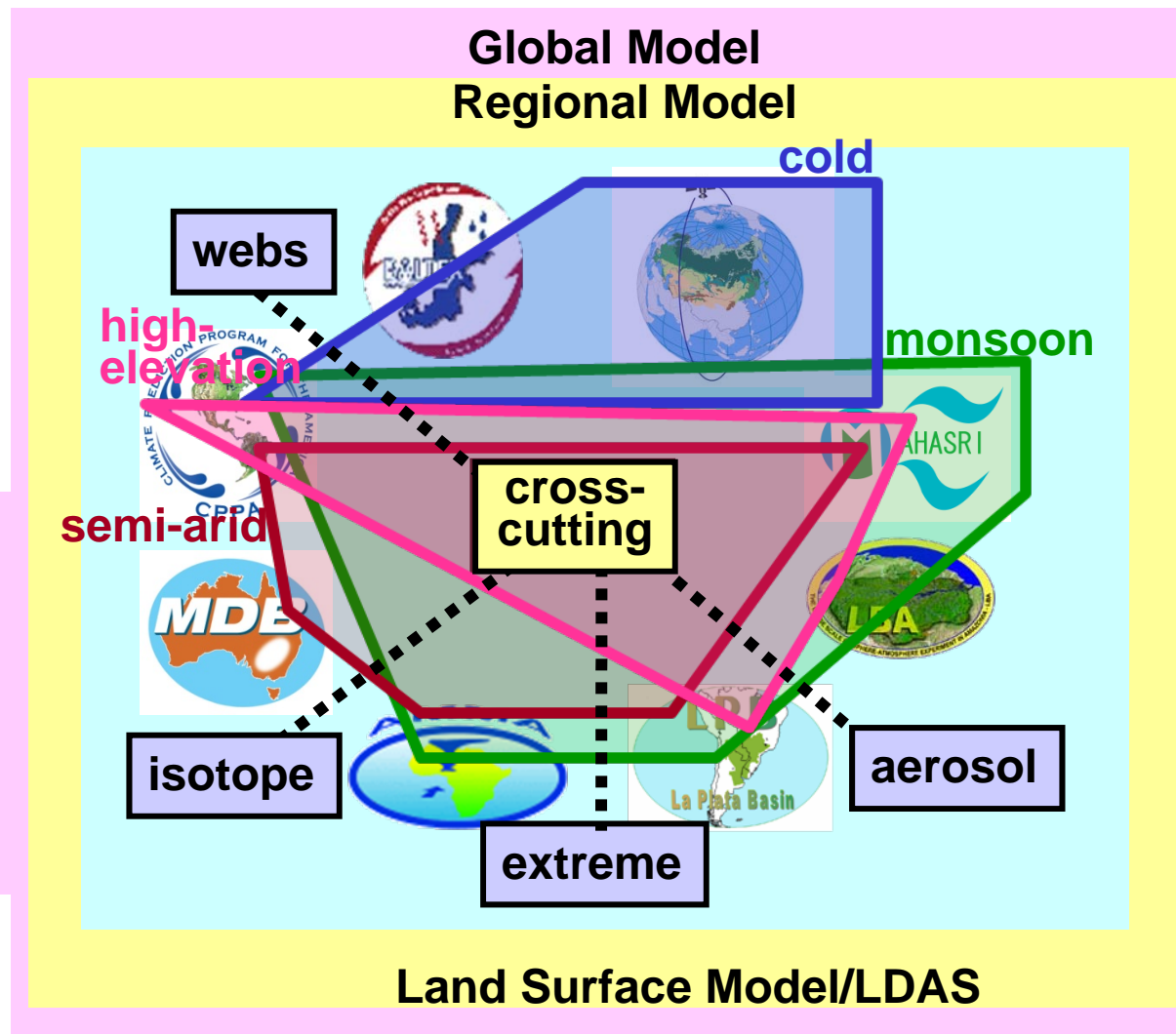
Specific Technical Issues

4. Assimilating and integrating the data with newly developed models.



Provide a final review of the success of GEWEX in improving parameterization at operational Numerical Weather Prediction (NWP) and climate modeling centers and its impact on the predictive capabilities for key energy and water cycle variables, including hydrological prediction

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- NWPCs/ACs**
- NCEP, JMA
 - ECPC, BoM
 - UKMO, CMC
 - ECMWF
 - CPTEC
 - NCMWF
 - EPSON MET
 - GMAO GLDAS