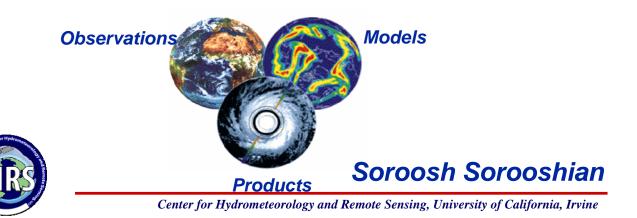
# **Expected Role of the CEOP** (new!) in GEWEX and WCRP

CEOP Planning meeting, Wash DC, Mar. 12-14 2007

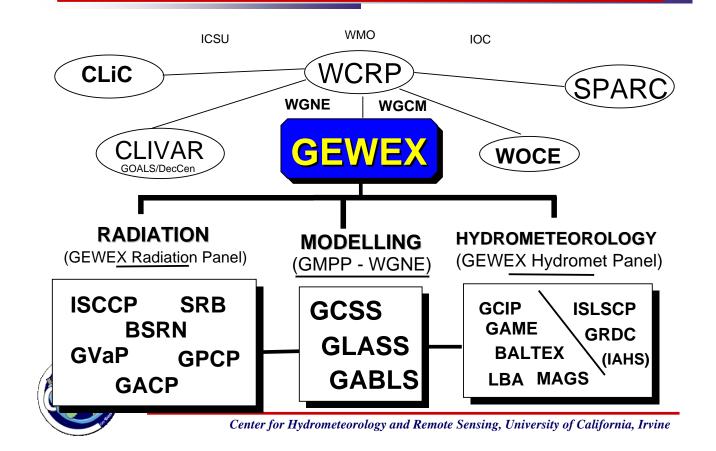


# **CEOP:** up to now!

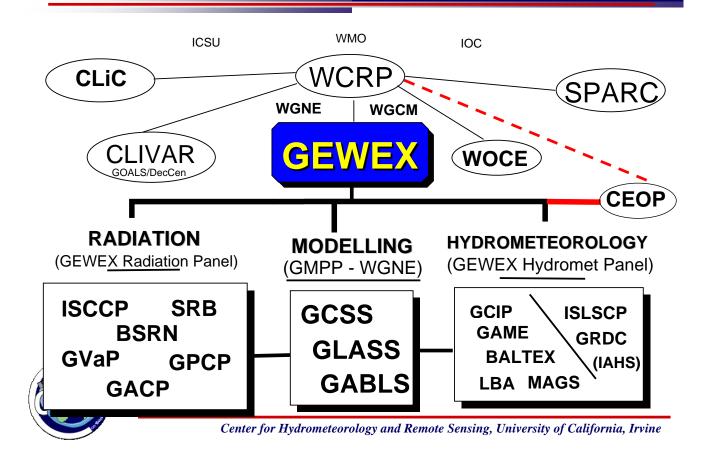
A big congratulations for all the accomplishments CEOP Phase I has been able to make up to this point in time!



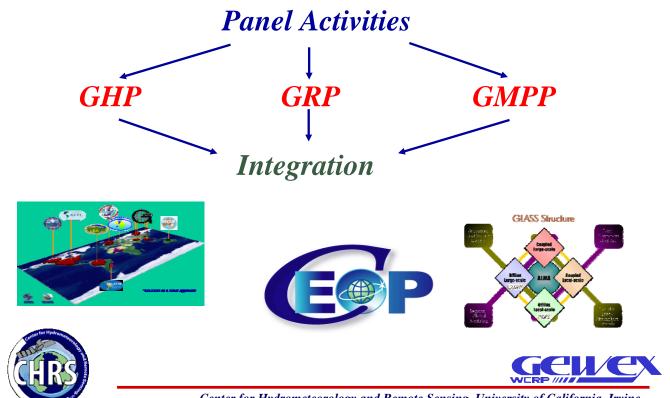
## WCRP ORGANIZATION



## WCRP ORGANIZATION

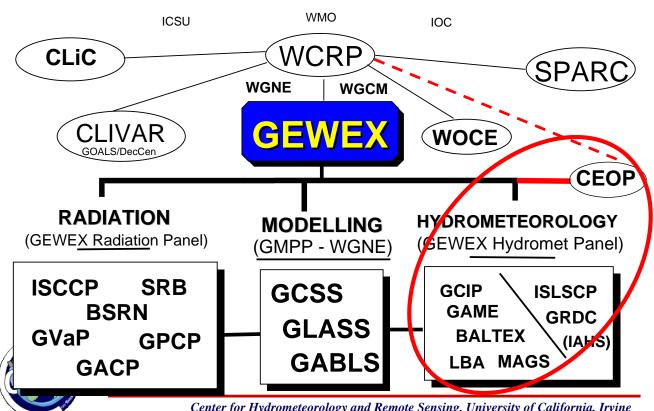


# **GEWEX Phase II**



#### Center for Hydrometeorology and Remote Sensing, University of California, Irvine

## WCRP ORGANIZATION



Center for Hydrometeorology and Remote Sensing, University of California, Irvine

## Pan-GEWEX meeting in Frascati Italy Oct. 9-13, 2006

- First time to had all GEWEX panels and WGs meet together.
  - Report of the meeting is available and IGPO office will be happy to provide you with the link (or a copy)



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### **GEWEX ORGANIZATION**

#### Radiation Panel (W. Rossow, Chair)

BSRN	Baseline Surface Radiation Network (E. Dutton)	• GABLS	GEWEX Atmospheric Boundary Layer Study (B. Holtslag)
CIRC	Continuous Intercomparison of Radiation Codes (L. Oreopoulus)		
• GACP	Global Aerosol Climatology Project (M. Mishchenko)	<ul> <li>GCSS</li> </ul>	GEWEX Cloud System Study (P. Siebesma)
GPCP	Global Precipitation Climatology Project (R. Adler)		- Boundary Layer Clouds (P. Siebesma)
• GVaP	Global Water Vapor Project (TBD)		<ul> <li>Cirrus Cloud Systems (S. Dobbie)</li> <li>Precipitating Convective Cloud Systems (J. Petch)</li> </ul>
• I3RC	Intercompariosn of 3-D Radiation Codes (R. Cahalan)		- Precipitating Convective Cloud Systems (J. Petch) - Polar Clouds (J. Pinto)
• ICRCCM	InterComparison of Radiation Codes in Climate Models		- GPCI - GCSS Pacific Cross-section Intercomparison (J. Teixeira)
	- Shortwave (H. Barker) - Longwave (R. Ellingson)		- Grei-Gess Facilie cross-section intercomparison (). Telkena)
ISCCP	International Satellite Cloud Climatology Project (W. Rossow)	GLASS	GEWEX Global Land/Atmosphere System Study (A. Pitman; B. van den l
• LandFlux	Land Surface Fluxes (TBD)		- ALMA Assistance for Land-surface Modelling Activities (T.O.
SRB	Surface Radiation Budget Project (P. Stackhouse)		- GLACE-2 Global Land/Atmospheric Coupling Experiment (R. Ko
<ul> <li>SeaFlux</li> </ul>	Sea Surface Fluxes (C. Clayson)		<ul> <li>GSWP-2 Global Soil Wetness Project (P. Dirmeyer)</li> </ul>
<ul> <li>WGCAP</li> </ul>	Working Group for Cloud and Aerosol Profiling (T. Ackerman)		<ul> <li>LoCo Local land-atmospheric Coupling (B. van den Hurk)</li> </ul>
<ul> <li>WGDMA</li> </ul>	Working Group on Data Management and Analysis (W. Rossow)		- PILPS Project for Intercomparison of Land Surface
WGPRN	Working Group for Precipitation Radar Networks (V. Levizzani)		Parameterization Schemes (A. Pitman)

### Coordinated Energy and water-cycle Observations Project (T. Koike, J. Roads, Co-Chairs)

**Regional Hydroclimate Projects (RHPs)** 

- African Monsoon Multidisciplinary Analysis Project (A. Gaye) - AMMA
- BALTEX Baltic Sea Experiment (H.J. Isemer)
- CPPA Climate Prediction Program for the Americas (J. Huang)
- . LBA Large-Scale Biosphere-Atmosphere Experiment in Amazonia (J. Maia)
- LPB La Plata Basin Project (H. Berbery)
   MAHASRI Monsoon Asian Hydro-Atmospheric Science Research and
   prediction Initiative (J. Matsumoto)
- Murray-Darling Basin Water Budget Project (A. Seed) MDB
- NEESPI Northern Eurasia Earth Science Partnership Initiative (P. Groisman)
- Data Infrastructure

#### **Regional Studies**

- High Altitude (G. Tartari)
   Monsoon (J. Matsumoto) • In Situ, River Basins (S. Williams)
  - Model Output (M. Lautenschlager)
     Satellite (J. Bates)
- Polar (T. Ohata)
- Data Integration and Dissemination (K.McDonald)
- Semi-arid (C.Fu)



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- **Cross-cutting Studies**
- Water and Energy Budget Studies (J. Roads)
- Extremes (R. Stewart)
- Stable Water Isotope Working Group (D. Noone) Aerosols (W. Lau)
- · Global Models (M. Bosilovich)
- Regional Climate Models
- Inter-Continental Transferability Study (B. Rockel) - Regional Modelling for Variability and Extremes (R. Arritt)
   - GEWEX Modelling and Prediction Panel (C. Jones)
   Land Surface Models (M. Rodell)

Modelling and Prediction Panel (C. Jakob, Chair)

System Study (A. Pitman; B. van den Hurk) surface Modelling Activities (T.Oki) oheric Coupling Experiment (R. Koster)

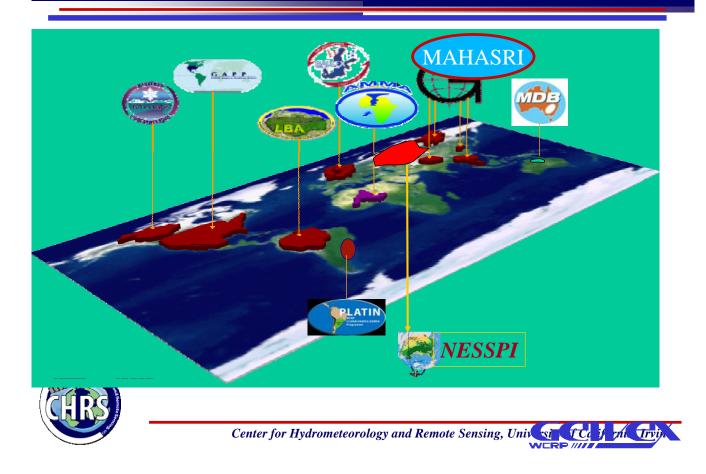
- Hydrologic Applications Project (E. Wood)
- **Affiliated Global Organizations**
- IAHS International Association of Hydrological Sciences (A. Hall)
- GPCC Global Precipitation Climatology Centre (T. Fuchs)
   GRDC Global Runoff Data Centre (T. Maurer)

	Radiation Panel (W. Rossow, Chair)	Modelling and Prediction Panel (C. Jakob, Chair)	
<ul> <li>BSRN</li> <li>CIRC</li> <li>GACP</li> <li>GVaP</li> <li>ISRC</li> <li>ICRCCM</li> <li>ISCCP</li> <li>LandFlux</li> <li>SRB</li> <li>SeaFlux</li> <li>WGCAP</li> <li>WGDMA</li> <li>WGPRN</li> </ul>	Continuous Intercomparison of Radiation Codes (L. Oreopoulus) Global Aerosol Climatology Project (M. Mishchenko) Global Precipitation Climatology Project (R. Adler) Global Water Vapor Project (TBD) Intercomparison of 3-D Radiation Codes (R. Cahalan) InterComparison of Radiation Codes in Climate Models - Shortwave (H. Barker) - Longwave (R. Ellingson)	GABLS       GEWEX Atmospheric Boundary Layer Study (B. Holtslag)         GCSS       GEWEX Cloud System Study (P. Siebesma)         - Boundary Layer Clouds (P. Siebesma)         - Cirrus Cloud Systems (S. Dobbie)         - Precipitating Convective Cloud Systems (J.Petch)         - Polar Clouds (J. Pinto)         - GFCI - GCSS Pacific Cross-section Intercomparison (J. Teixeira)         GEWEX Global Land/Atmosphere System Study (A. Pitman; B. van den Hurk)         - ALMA       Assistance for Land-surface Modelling Activities (T. Oki)         - GLACE-2 Global Soil Wetness Project (P. Dirmeyer)         - Local land-atmospheric Coupling (B. van den Hurk)         - PILPS       Project for Intercomparison of Land Surface Parameterization Schemes (A. Pitman)	
	Coordinated Energy and water-cycle Obse	rvations Project (T. Koike, J. Roads, Co-Chairs)	
<ul> <li>AMMA</li> <li>BALTEX</li> <li>CPPA</li> <li>LBA</li> <li>LPB</li> </ul>	I Hydroclimate Projects (RHPs) African Monsoon Multidisciplinary Analysis Project (A. Gaye) Baltic Sea Experiment (H.J. Isemer) Climate Prediction Program for the Americas (J. Huang) Large-Scale Biosphere-Atmosphere Experiment in Amazonia (J. Mai La Plata Basin Project (H. Berbery) RI Monsoon Asian Hydro-Atmospheric Science Research and prediction Initiative (J. Matsumoto) Murray-Darling Basin Water Budget Project (A. Seed) Northern Eurasia Earth Science Partnership Initiative (P. Groisman)	Cross-cutting Studies • Water and Energy Budget Studies (J. Roads) • Extremes (R. Stewart) • Stable Water Isotope Working Group (D. Noone) • Aerosols (W. Lau) • Global Models (M. Bosilovich) • Regional Climate Models - Inter-Continental Transferability Study (B. Rockel) - Regional Modelling for Variability and Extremes (R. Arritt) - GEWEX Modelling and Prediction Panel (C. Jones) • Land Surface Models (M. Rodell)	
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# **GEWEX Continental Scale Exp.**

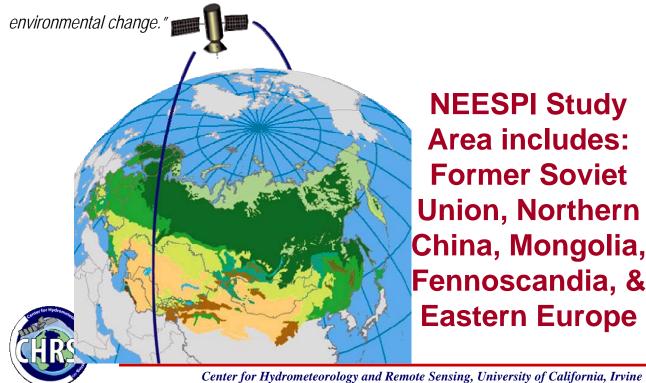


## GEWEX Regional Hydroclimate Projects (RHPs)



## **NEESPI**

*"NEESPI is an interdisciplinary program of internationally-supported Earth systems and science research that addresses large-scale and long-term manifestations of climate and* 



# JSC Recommended Action Items for GEWEX

- "JSC approved the plan for CEOP phase II, subject to a technical review of the science plan by experts from each WCRP project, in order to propose ways to maximize synergies and to prevent potential overlaps with existing WCRP activities."
- "GEWEX should propose to next JSC a plan to reorganize its structure in order to better integrate CEOP agenda in its panels."





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## WCRP Crosscut Priorities

Anthropogenic Climate Change (ACC)

• "JSC noted that a great deal of effort is going on in various ACC activities of WCRP but that WCRP needs to raise its ACC visibility to a higher profile."

## **Extreme Events**

• "JSC recommended that WCRP set up a framework for studying the extreme events to address data, modeling, simulation and predictability needs of extremes."

## Sea level Rise, IPY, Aerosols, Decadal Prediction





# WCRP Crosscut Priorities

### **Monsoons**

• "The JSC expressed the view that the CLIVAR and GEWEX monsoon panels should work more closely together.

• CLIVAR and GEWEX (with SPARC and CLIC) should establish focal points (with a JSC Rep) to define how to bring the monsoon studies into a more coordinated program for discussion at next JSC.

• WMP should coordinate the modelling parts of the two projects (i.e, GEWEX and CLIVAR) together with SPARC and CEOP.





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# My Expectation from this meeting

• A solid plan and roadmap for the implementation of the priorities ( for both; Science and Data) of the new CEOP.

## Have a great meeting and a nice time in Washington D.C.

