

**2<sup>nd</sup> Pan-GEWEX Science Meeting  
Seattle, Washington, 23-27 August 2010**

**AGENDA**

**Monday, 23 August**

		<b>ALL</b>	<b>Room: Johnson 102</b>
07.30	08:30	Registration and Badge Pick-up	
<b>08.30</b>	<b>12.30</b>	<b>PLENARY SESSION</b>	<b>CONVENER: H. Wheater</b>
08.30	08.40	Welcome	D. Lettenmaier/P. van Oevelen
08.40	09.00	WCRP JSC Welcoming Comments	G. Asrar/T. Busalacchi
09.00	09.45	Introduction	K. Trenberth
		General outline of meeting, imperatives, and the future of GEWEX	
09.45	10.15	GRP Directives <sup>1</sup>	C. Kummerow
10.15	10.45	<b>BREAK</b>	
10.45	11.15	GMPP Directives <sup>1</sup>	C. Jakob
11.15	11.45	CEOP Directives <sup>1</sup>	D. Lettenmaier/T. Koike
11.45	12.15	WCRP Open Science Conference: discussion on the role of GEWEX as a convener of oral and poster sessions	K. Trenberth
12.15	12.30	Discussion	
12.30	14.00	<b>LUNCH</b> <b>SSG Lunch Meeting</b>	<b>Room: Johnson 22</b>
<b>14.00</b>	<b>18.00</b>	<b>PLENARY SESSION Cont'd</b>	<b>CONVENER: P. van Oevelen</b>
		Sponsor Presentations and Discussion	
		Discussion of what agencies expect from WCRP and GEWEX, and how to better align national and international programs. Advice from agencies to GEWEX and participants, as well as input from participants to agencies, is welcomed.	
14.00	14.25	NASA	J. Kaye/J. Entin
14.25	14.50	NOAA	C. Koblinsky/R. Rosen/J. Huang
14.50	15.15	ESA	E. Herland
15.15	15.30	EUMETSAT	J. Schulz
15.30	16.00	<b>BREAK</b>	
16.00	16.20	JAXA	K. Umezawa
16.20	16.30	DOE	J. Mather
16.30	16.50	GEO	D. Cripe
16.50	17.15	Discussion	K. Trenberth
17:15	17:30	CLIVAR	J. Hurrell
17:30	17:45	CliC	D. Yang/T. Prowse
17:45	18:00	SPARC	N. McFarlane
<b>18.30</b>	<b>20.30</b>	<b>ICE BREAKER AND VIEWING OF YOUNG SCIENTISTS POSTERS</b>	<b>Room: UW Tower</b>

<sup>1</sup>The three GEWEX Panel presentations on directives are to set the stage for the Meeting. What are the panels going to discuss with respect to their future and that of GEWEX? Which questions and issues will be addressed that are also relevant for the other panels or the agencies/program managers? By having all three panels present a short outline beforehand, we can discuss whether or not there are any omissions, missed links, etc.

## Tuesday, 24 August

### GEWEX PANELS SESSIONS

#### GMPP

Room: EEB 403

08.30	10.00	General Introduction Review of GEWEX imperatives
10.00	10.30	BREAK
<b>10.30</b>	<b>18.00</b>	<b>GCSS-GABLS AND GLASS BREAKOUT SESSIONS (See Below)</b>
10.30	12.30	GCSS-GABLS and GLASS Breakout Sessions
12.30	14.00	LUNCH
14.00	15.45	GCSS-GABLS AND GLASS BREAKOUT SESSIONS Cont'd
15.45	16.15	COFFEE BREAK
16.15	18.00	GCSS-GABLS AND GLASS BREAKOUT SESSIONS Cont'd

#### GCSS and GABLS

Room: Wallace 120

10.30	12.30	GCSS Atmosphere Discussion GCSS Atmosphere Implementation
12.30	14.00	LUNCH
14.00	15.45	GEWEX-MJO Summary
15.45	16.15	COFFEE BREAK
16.15	17.30	GCSS Presentation to SSG 2009 GCSS Presentation to SSG 2010

#### GLASS

Room: EEB 403

10.30	11.30	Position of GLASS within GEWEX Agenda Imperatives Table	B. van den Hurk
11.30	12.30	PILDAS Experimental Plan	R. Reichle
12.30	14.00	LUNCH	
14.00	14.30	PALS Website	
14.30	15.00	GLACE2	B. van den Hurk
15.00	15.30	ALMIP	A. Boone
15.30	15.45	GSWP3/LandFLUX/CHEESE	H. Kim and M. Best
15.45	16.15	COFFEE BREAK	
16.15	17.30	GSWP3/LandFLUX/CHEESE Cont'd	H. Kim and M. Best

#### CEOP

Room: Johnson 102

<b>08.30</b>	<b>10.00</b>	<b>CEOP ELEMENT REPORTS/DISCUSSION</b> Regional Hydroclimate Projects (RHPs) HyMeX: A Candidate for GEWEX/CEOP RHP CPPA LPB AMMA MAHASRI MDB NEESPI LBA
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CONVENER

D. Lettenmaier

## Tuesday, 24 August (Cont'd)

### CEOP ELEMENT REPORTS/DISCUSSION (Cont'd)

Regional Climate Foci Session  
 Regional Hydroclimate Project Criteria and Expectations  
 Monsoons (AMY, VAMOS)  
 West African Monsoon Model Evaluation (WAMME) Project  
 High Elevations Initiative  
 Semi-Arid Regions  
 Cold Regions

T. Koike

10.00 10.30 BREAK

### 10.30 12.00 CEOP ELEMENT REPORTS/DISCUSSION Cont'd

Crosscutting Science Studies Session  
 Update on Extremes within CEOP  
 Flooding in Pakistan  
 Aerosols  
 WEBS  
 Isotopes

T. Koike/D. Lettenmaier

#### CEOP Modelling Session

M. Bosilovich

Global  
 Regional  
 Land  
 HAP

#### GEWEX/GLASS-QUEST

#### CEOP Data Management

T. Koike/S. Williams

Satellite Overview: JAXA, NASA, ESA, NOAA  
 CEOS Climate Coordination  
 Reference Site/River Basins  
 Model Data  
 Global Data Centers  
 Data Integration

12.30 14.00 LUNCH

### 14.00 18.00 CEOP DIRECTED DISCUSSION/BREAKOUT SESSIONS

**Rooms: Johnson 102**

14.00 14.30 Plenary to form groups

**CEOP-B Johnson 111**

Potential Topics: CEOP imperatives, prototype CEOP "Regional Crosscutting Science Initiative," CEOP "Land-Surface Modelling, Hydrological Applications, and Climate Services Initiative," and CEOP/Landflux/Fluxnet 10-Year Dataset in support of CEOP LSM and ISCCP/CMIP regional model activities

**CEOP-C Wilcox 264**

14.30 15.45 Group Meetings  
 CEOP's Contribution to the Imperatives  
 GWSP  
 10-Year Dataset Discussion

**Rooms:  
 Johnson 102  
 Johnson 22  
 Wilcox 264**

15.45 16.15 BREAK

16.15 17.00 Group Meetings Cont'd

17.00 18.00 Plenary: Discussion of Group Meeting Results

**Room: Johnson 102**

### GRP

**Room: EEB 303**

08.30 08.35 Welcome and Introduction

C. Kummerow

Agenda  
 GRP Summary

08.35 08.50 Report from the SSG

C. Kummerow

08.50 09.10 CERES Calibration Issues and Next Generation Requirements

J. Bates

## Tuesday, 24 August (Cont'd)

<b>GRP (Cont'd)</b>			
09.10	09.30	GPCP Update	R. Adler
		GPCC Update	U. Schneider
09.30	10.00	New Member Science Presentation	H. Masunaga
10.00	10.30	<b>BREAK</b>	
10.30	11.00	New Member Science Presentation	C. Jimenez
11.00	11.20	SeaFlux Update	C.A. Clayson
11.20	11.40	LandFlux Update	M. McCabe
11.40	12.15	SRB, BSRN, and Radiation Assessment	P. Stackhouse
12.15	12.30	CERES Status	N. Loeb
12.30	14.00	<b>LUNCH</b>	
14.00	14.15	ISCCP Update and Transition to Operations	W. Rossow
14.15	14.45	WGDMA – Progress Towards the Common Product	W. Rossow
14.45	15.45	Discussion on Common Products	All
15.45	16.15	<b>BREAK</b>	
16.15	16.45	New Member Science Presentation	M. Ringer
16.45	17.00	WOAP Reprocessing Workshop	C. Kummerow
17.00	17.20	Cloud Assessment	C. Stubenrauch/S. Kinne
17.20	17.40	Aerosol Assessment	J. Reid/S. Christopher
17.40	18.00	Water Vapor Assessment Plans	J. Schulz
<b>19.00</b>	<b>21.00</b>	<b>GWSP Dinner</b> (attendance by invitation only)	<b>Ivar's Salmon House</b>

## Wednesday, 25 August

		<b>GEWEX PANELS SESSIONS Cont'd</b>	
		<b>CEOP</b>	<b>Rooms: EEB 303</b>
<b>08.30</b>	<b>18.00</b>	<b>PANEL MEETING DAY with AFTERNOON BREAKOUT SESSIONS</b>	<b>CEOP-B Johnson 111</b>
		Focus on panel issues	<b>CEOP-C Wilcox 264</b>
		Afternoon breakout sessions with other panels to address crosscutting issues, frontiers, "hot topics," and science interactions with other WCRP programs, as well as an outreach strategy for GEWEX	
08.30	10.00	Final CEOP Strategic Planning Discussions Post 2013 CEOP Goals and Objectives Climate Change Effects on Water Quality	
10.00	10.30	BREAK	
10.30	12.30	Final CEOP Strategic Planning Discussions cont'd	
12.30	14.00	LUNCH	
12.45	13.45	<b>Special Luncheon for Young Scientists</b>	<b>Room: UW Tower</b>
14.00	15.45	Discussion with GRP GRP-CEOP Imperatives	<b>Room: Johnson 102</b>
15.45	16.15	COFFEE BREAK	
16.15	18.00	Discussion with GMPP GMPP-CEOP Imperatives	<b>Room: Johnson 102</b>
		<b>GRP</b>	<b>Room: See time slots</b>
<b>08.30</b>	<b>18.00</b>	<b>PANEL MEETING DAY with AFTERNOON BREAKOUT SESSIONS</b>	
		Focus on panel issues	
		Afternoon breakout sessions with other panels to address crosscutting issues, frontiers, "hot topics," and science interactions with other WCRP programs, as well as an outreach strategy for GEWEX	
08.30	10.00	Joint meeting with GMPP: Advanced Diagnostics of Common Interest GEWEX-MJO Summary ISCCP Update and Transition to Operations YOTC	<b>Room: Johnson 102</b>
10.00	10.30	BREAK	
10:30	10:50	Cloud/Aerosols/Precipitation	<b>Room: Wallace 120</b>
10:50	11:10	ARM Facilities Update	S. Van den Heever/All
11:10	11:40	Short Term Goals and Priorities	J. Mather
11:40	12:10	Polar Priorities	C. Kummerow/All
12.10	12.30	Discussion on GMPP and CEOP Coordination	A. Schweiger/All
12.30	14.00	LUNCH	L. Oreopoulos/All
12.45	13.45	<b>Special Luncheon for Young Scientists</b>	<b>Room: UW Tower</b>
14.00	15.45	Joint Meeting with CEOP	<b>Room: Johnson 102</b>
15.45	16.15	COFFEE BREAK	
16.15	18.00	GRP's Role in GEWEX Imperatives	<b>Room: EEB 303</b>
		<b>GMPP</b>	
<b>08.30</b>	<b>18.00</b>	<b>PANEL MEETING DAY with AFTERNOON BREAKOUT SESSIONS</b>	
08.30	10.00	Joint meeting with GRP: Advanced Diagnostics of Common Interest	<b>Room: EEB 303</b>

## Wednesday, 25 August (Cont'd)

### GEWEX PANELS SESSIONS Cont'd GMPP (Cont'd)

10.00	10.30	BREAK	
10.30	11.00	YOTC	M. Moncrief/ D. Waliser
11.00	12.30	GCSS and GLASS Breakout Sessions	<b>Room: EEB 403</b>
		GABLS will join GCSS and GLASS	
		General introduction and review of GEWEX imperatives – see Appendix	
12.30	14.00	LUNCH	
12.45	13.45	<b>Special Luncheon for Young Scientists</b>	<b>Room: UW Tower</b>
14.00	15.45	GCSS/GABLS and GLASS Breakout Sessions Cont'd	
15.45	16.15	COFFEE BREAK	
16.15	18.00	Discussion with CEOP	<b>Room: Johnson 102</b>
		<b>GCSS</b>	<b>Room: Wallace 120</b>
10.30	12.30	Breakout Session	
12.30	14.00	LUNCH	
12.45	13.45	<b>Special Luncheon for Young Scientists</b>	<b>Room: UW Tower</b>
14.00	15.45	Breakout Session	<b>Room: Wallace 120</b>
15.45	16.15	COFFEE BREAK	
16.15	18.00	Reconvene with rest of GMPP groups	
		Discussion with CEOP	
		<b>GLASS</b>	<b>Room: EEB 403</b>
10.30	15.45	LIS/LoCo (Discuss experimental design of local coupling experiment using LIS plus an update on coupling diagnostics)	J. Santanello/M. Ek,
		Selection of New GLASS Co-Chair	B. van den Hurk/M. Best
		Wrap-Up: Where will we be in 3-5 Years?	
		Activities in Our Environment	
		Review existing initiatives and upcoming meetings (e.g. iLEAPS, CEOP, LandFlux, FLUX-net, WATCH, CliC)	
12.30	14.00	LUNCH	
12.45	13.45	<b>Special Luncheon for Young Scientists</b>	<b>Room: UW Tower</b>
14.00	15.45	GLASS (cont'd)	
15.45	16.15	COFFEE BREAK	
16.15	18.00	Reconvene with rest of GMPP groups	
		Discussion with CEOP	
		<b>GABLS</b>	<b>Room: Wallace 120</b>
08.30	12.30	Join GCSS Breakout Session	

## Thursday, 26 August

		<b>GRP/GMPP/CEOP</b>	<b>Rooms</b>
08.30	10.00	<b>GEWEX PANELS WRAP-UP</b> End previous discussions and prepare for one-hour presentation of outcomes, future plans, and interactions within the panels going forward	<b>GRP: EEB303</b> <b>GMPP: EEB403</b> <b>CEOP: Johnson 102</b>
10.00	10.30	<b>BREAK</b>	
		<b>ALL</b>	<b>Room: Johnson 102</b>
<b>10.30</b>	<b>18.00</b>	<b>PLENARY</b>	
10.30	11.15	GMPP – Outcome/conclusions	
11.15	12.00	GRP – Outcome/conclusions	
12.00	12.45	CEOP – Outcome/conclusions	
12.45	14.15	<b>LUNCH</b>	
14.15	15.45	Round Table discussion with co-chairs of all panels on outcome/conclusions	H. Wheeler
15.45	16.15	<b>COFFEE BREAK</b>	
16.15	17.15	Invited Talk	S. Riser
17.15	18.00	Summary Discussion Materials on fleshed-out imperatives CEOP GLASS Imperatives and Panel Actions	K. Trenberth
18.30	20.00	CEOP Special Evening Session	<b>Room: Johnson 102</b>

## Friday, 27 August

		<b>ALL</b>	<b>Room: Johnson 102</b>
08.30	12.30	PLENARY	
08.30	10.00	SSG Round Table Discussion	K. Trenberth
10.00	10.30	Meeting wrap-up. Assessment of status of Imperatives	
10.00	10.30	<b>BREAK</b>	
10.30	12.30	Meeting wrap-up cont'd Writing assignments, tiger teams, WCRP OSC Conference, status of GMPP, and other issues GRP Status Report	
12.30		<b>Pan-GEWEX Meeting Adjourns</b>	

## Rooms Overview

		Johnson 102	EEB 303	EEB 403	Wallace 120	Johnson 22/111	Wilcox 264
<b>Monday 23</b>							
7:30	8:30	Registration					
8:30	10:15	Plenary					
10:15	10:45	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
10:45	12:30	Plenary				JHN 22	
12:30	14:00	LUNCH	LUNCH	LUNCH	LUNCH	SSG LUNCH	LUNCH
14:00	15:30	Plenary					
15:30	16:00	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
16:00	18:00	Plenary					
18:30	20:30	ICE BREAKER/POSTERS – UW Tower Dining Room, Mezzanine Level					
<b>Tuesday 24</b>							
8:30	10:00	CEOP	GRP	GMPP		JHN 22	
10:00	10:30	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
10:30	12:30	CEOP	GRP	GLASS	GCSS/GABLS	CEOP-B	CEOP-C
12:30	14:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14:00	15:45	CEOP	GRP	GLASS	GCSS/GABLS	CEOP-B	CEOP-C
15:45	16:15	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
16:15	18:00	CEOP	GRP	GLASS	GCSS/GABLS	CEOP-B	CEOP-C
<b>Wednesday 25</b>							
8:30	10:00	CEOP	GRP/GMPP		GABLS	CEOP-B	CEOP-C
10:00	10:30	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
10:30	12:30	CEOP	GRP	GLASS	GCSS	CEOP-B	CEOP-C
12:45	14:00	YOUNG SCIENTISTS LUNCH – Magnolia Room, UW Tower, 22 <sup>nd</sup> Floor					
12:30	14:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14:00	15:45	CEOP/GRP		GLASS	GCSS		
15:45	16:15	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
16:15	18:00	CEOP/GMPP	GRP	GLASS	GCSS		
<b>Thursday 26</b>							
8:30	10:00	CEOP	GRP	GMPP			
10:00	10:30	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
10:30	12:30	Plenary					
12:30	14:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14:00	15:45	Plenary					
15:45	16:15	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
16:15	18:00	Plenary					
18:30	20:00	CEOP					
<b>Friday 27</b>							
8:30	10:00	Plenary					
10:00	10:30	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
10:30	12:30	Plenary				JHN 22	
12:30	14:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14:00	15:45					SSG	
15:45	16:15	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
16:15	18:00					SSG	
<b>Saturday 28</b>							
8:30	10:00					JHN 22	
10:00	10:30	BREAK	BREAK	BREAK	BREAK	SSG	
10:30	12:30					BREAK	BREAK
						SSG	

## 2<sup>nd</sup> Pan-GEWEX Science Meeting Seattle, Washington, USA, 23-27

### **Suggestion to the GEWEX Panels:**

Tuesday morning's agenda should be devoted to the imperatives and strategic view, while Tuesday afternoon and Wednesday can be more of a regular panel meeting along with the joint panel meetings (see rooms overview).

Each Panel must address the following items:

- What are its plans for the next 3 years under the current structure and goals?
- What changes should be made to the panel and working group structure to go with the new imperatives and plans for post 2013?
- What would the Panel most like to be able to obtain from another GEWEX Panel or WCRP? What are the dependencies and what can you offer?
- Try to flesh out what each panel can/should do with respect to the new imperatives.

Each of the Coordinated Energy and Water Cycle Observations Project (CEOP) RHPs should provide a statement summarizing their key science deliverables, what they have learned about integrated monitoring that is transferable, and a list of their strategic goals and the required timescale to achieve these. [This will depend in part on whether a review can take place and how it evolves as a result.]

### **To the SSG:**

There will be a brief meeting of the SSG over lunch on Monday in which assignments will be given to ensure that SSG members are distributed among panels, where you will be expected to provide advice, to keep some attention to issues we need dealt with and foster debate, and to report back at the SSG meeting later in the week (i.e., take some notes).

## APPENDIX A

### Discussion questions with respect to the GEWEX Imperatives

The discussions in Seattle related to [the GEWEX imperatives](#) will set the stage for the next phase of GEWEX beginning in the 2013 timeframe.

It is a given that GEWEX is moving toward “seamless prediction.” Improving cloud, convection, surface fluxes, boundary layers, and diabatic processes are not only important for climate but also for weather – or is it the other way round? We know that model errors in precipitation in the first few hours of a forecast mean there are errors in diabatic heating that affect forecasts on a timeframe of several days and beyond. How widely accepted is this? How can the efforts become less fragmented?

For example, the following questions should be addressed.

1. Should GEWEX modelling be more closely linked to the observations and field programs, and if so, how? Consider especially all aspects of land-surface modelling and monsoons.
2. How should GCSS revamp its groups to foster those where activity is happening and progress is being made while eliminating groups where interest lags?
3. Is GMPP needed? How should GEWEX modelling (currently GMPP) interact with other parts of WCRP? Is one person sufficient or should both chairs of the new GCSS and GLASS play the role of head of GMPP and interact with WGNE and represent the other group?
4. How should atmospheric processes important for climate be dealt with in the new WCRP? A proposal is for this to keep it in the new GEWEX. If so, the case needs to be made.
5. Land-atmosphere modelling is currently in GLASS. How should it interact with the atmosphere-oriented group? How can GLASS become more closely linked to CEOP?
6. Should GABLS become linked to GCSS as the essence of the atmospheric processes?
7. Should we lobby for the representation of both GLASS and GCSS on the modelling council, thereby doing away with the need for a single GEWEX modelling focus?
8. How can we increase the importance of GEWEX modelling activities with sponsors? Should we promote fields programs, focused workshops, intercomparisons, and numerical experiments?
9. What role should GEWEX be playing in making progress on these problems as an international umbrella organization?
10. How does GCSS benefit from being in GEWEX, and what role should GEWEX play in steering GCSS activities and vice versa; is there a critical need for stronger coordination of GCSS activities with the rest of GEWEX's multifaceted portfolio? Should the modelling be elsewhere (e.g. WGNE)?
11. Previously, GEWEX modelling has been closely linked to NWP centers rather than climate modelling centers. As seamless prediction develops, the differences may be reduced, but why is this the case? WGNE and THORPEX serve weather purposes. WGCM now has Sandrine Bony as a co-chair, and cloud-climate modelling is a key concern. What does this mean for GEWEX modelling?
12. How do we interact with other parts of WCRP where there is strong overlap (such as VACS, and the MJO task group in AAMP)?
13. YOTC has been active and involved with clouds and convection, topics very much of interest to GCSS. How are they related and how should this develop?
14. The group of regional modelers is looking for a home; cf CORDEX. A WG on regional modelling is being considered. How does this relate to the RHPs and GLASS?
  - a. Process modelling may relate better to regional modeling
  - b. RCMs are needed by RHPs
  - c. CORDEX's experience should be useful for RHPs