

2nd Pan-GEWEX Science Meeting Seattle, Washington, 23-27 August 2010

The main goal of the 2nd Pan-GEWEX Meeting is to develop a strategic plan for GEWEX that includes activities in the near-term and those that conform to the new WCRP structure in the post 2013 period.

Key objectives of the Pan-GEWEX Meeting:

- (1) Provide a forum to encourage the exchange of ideas and collaboration among the three GEWEX Panels and their projects and working groups.
- (2) Review and refine GEWEX plans for the near-term (present to 2013), including membership of the three Panels.
- (3) Develop a post-2013 strategy for GEWEX activities that are within the scope of the new WCRP structure.
- (4) Convene a GEWEX Scientific Steering Group (SSG) meeting to encourage the interaction and exchange of ideas between SSG members and GEWEX projects and working groups.
- (5) Plan for GEWEX participation in the WCRP Open Science Conference (OSC) to be held in October 2011.

The future direction of GEWEX will be based on the draft imperatives developed at the January meeting of the GEWEX SSG and later presented at the JSC meeting. An outline of the imperatives and a brief discussion of each is given in the May GEWEX Newsletter. Each imperative will be fleshed out to include the necessary actions and the partners and projects within GEWEX to be involved. It will likely take 2-3 pages to fully describe each imperative and how it will be accomplished, including the enabling infrastructure. Both US and international planning will be taken into account, and there will be opportunities at the meeting for agency program managers to provide comments and suggestions.

The organizational structure of GEWEX and its relationship to other parts of WCRP are other considerations. In developing the strategic plan, there are many scientific and programmatic issues that must be addressed. Please see the appendix on the last page for a listing of questions for discussion. The following are two examples:

- (1) How should atmospheric processes that are important for climate studies be dealt with by WCRP, and should related activities remain in the GEWEX Modelling and Prediction Panel (GMPP)?
- (2) How can we encourage improved interactions within GEWEX between observations (e.g., Regional Hydroclimate Projects) and modelling projects?

How each GEWEX panel and its projects will contribute to the various imperatives will be identified. Therefore, it is critical that all GEWEX panels and their members discuss and develop this as part of their meeting assignment, which is to be completed in draft form on Thursday, August 26th.

**2nd Pan-GEWEX Science Meeting
Seattle, Washington, 23-27 August 2010**

AGENDA

Monday, 23 August

		ALL	Room: Johnson 102
07.30	08:30	Registration and Badge Pick-up	
08.30	12.30	PLENARY SESSION	CONVENER: H. Wheeler
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 ¹	C. Kummerow
10.15	10.45	BREAK	
10.45	11.15	GMPP Directives ¹	C. Jakob
11.15	11.45	CEOP Directives ¹	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	LUNCH SSG Lunch Meeting	Room: Johnson 22
14.00	18.00	PLENARY SESSION Cont'd	CONVENER: P. van Oevelen
		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. Koblinksy/R. Rosen/J. Huang
14.50	15.15	ESA	E. Herland
15.15	15.30	EUMETSAT	J. Schulz
15.30	16.00	BREAK	
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
18.30	20.30	ICE BREAKER AND VIEWING OF YOUNG SCIENTISTS POSTERS	Room: UW Tower

¹The 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	
10.30	18.00	GCSS AND GLASS BREAKOUT SESSIONS	
10.30	12.30	GCSS and GLASS Breakout Session GCSS and GABLS members GLASS members GABLS members	Room: Wallace 120 Room: EEB 403 Room: Wallace 120
12.30	14.00	LUNCH	
14.00	15.45	GCSS AND GLASS BREAKOUT SESSIONS Cont'd	
15.45	16.15	COFFEE BREAK	
16.15	18.00	GCSS AND GLASS BREAKOUT SESSIONS Cont'd	
		GLASS	Room: EEB 403
10.30	11.30	Position of GLASS within GEWEX	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
08.30	10.00	CEOP ELEMENT REPORTS/DISCUSSION	CONVENER
		Regional Hydroclimate Projects (RHPs) Regional Climate Foci Session	D. Lettenmaier T. Koike
10.00	10.30	BREAK	
10.30	12.00	CEOP ELEMENT REPORTS/DISCUSSION Cont'd	
		Crosscutting Science Studies Session CEOP Modelling Session CEOP Data Management	T. Koike/D. Lettenmaier M. Bosilovich T. Koike/S. Williams
12.30	14.00	LUNCH	

Tuesday agenda continued on next page

Tuesday, 24 August (Cont'd)

GEWEX PANELS SESSIONS cont'd

CEOP Cont'd

14.00 18.00 CEOP DIRECTED DISCUSSION/BREAKOUT SESSIONS

14.00 14.30 Plenary to form groups **Rooms: Johnson 102
CEOP-B Johnson 111
CEOP-C Wilcox 264**

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

14.30 15.45 Group Meetings **Rooms:
Johnson 102/22,
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

08.30 08.35 Welcome and Introduction **Room: EEB 303**
C. Kummerow
08.35 08.50 Report from the SSG
C. Kummerow
08.50 09.10 CERES Calibration Issues and Next Generation Requirements
J. Bates
09.10 09.30 GPCP/GPCC Update
R. Adler
09.30 10.00 New Member Science Presentation
H. Masunaga

10.00 10.30 BREAK

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 LUNCH

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 BREAK

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

19.00 21.00 **GWSP Dinner** (attendance by invitation only) **Ivar's Salmon House**

Wednesday, 25 August

		GEWEX PANELS SESSIONS cont'd	
		CEOP	
08.30	18.00	PANEL MEETING DAY with AFTERNOON BREAKOUT SESSIONS	Rooms: Johnson 102 CEOP-B Johnson 111 CEOP-C Wilcox 264
		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	Final CEOP Strategic Planning Discussions Preparation for discussion of science interactions with other WCRP programs, crosscutting issues, "hot topics," frontiers, and GEWEX outreach issues. See Appendix.	
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	Special Luncheon for Young Scientists	Room: UW Tower
14.00	15.45	Discussion with GRP	Room: Johnson 102
15.45	16.15	COFFEE BREAK	
16.15	18.00	Discussion with GMPP	Room: Johnson 102
		GRP	Room: See time slots
08.30	18.00	PANEL MEETING DAY with AFTERNOON BREAKOUT SESSIONS	
		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	Room: EEB 303
10.00	10.30	BREAK	
10:30	10:50	Cloud/Aerosols/Precipitation	S. Van den Heever/All
10:50	11:10	ARM Facilities Update	J. Mather
11:10	11:40	Short Term Goals and Priorities	C. Kummerow/All
11:40	12:10	Polar Priorities	A. Schweiger/All
12.10	12.30	Discussion on GMPP and CEOP Coordination	L. Oreopoulos/All
12.30	14.00	LUNCH	
12.45	13.45	Special Luncheon for Young Scientists	Room: UW Tower
14.00	15.45	Joint Meeting with CEOP	Room: Johnson 102
15.45	16.15	COFFEE BREAK	
16.15	18.00	GRP's Role in GEWEX Imperatives	Room: EEB 303
		GMPP	
08.30	18.00	PANEL MEETING DAY with AFTERNOON BREAKOUT SESSIONS	
08.30	10.00	Joint meeting with GRP: Advanced Diagnostics of Common Interest	Room: EEB 303
10.00	10.30	BREAK	

Wednesday, 25 August (Cont'd)

GEWEX PANELS SESSIONS cont'd

GMPP (cont'd)

10.30	11.00	YOTC	M. Moncrief/ D. Waliser
11.00	12.30	GCSS and GLASS Breakout Sessions	Room: EEB 403
		GABLS will join GCSS and GLASS	
		General introduction and review of GEWEX imperatives – see Appendix	
12.30	14.00	LUNCH	
12.45	13.45	Special Luncheon for Young Scientists	Room: UW Tower
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	Room: Johnson 102

GCSS

Room: Wallace 120

10.30	12.30	Breakout Session	
12.30	14.00	LUNCH	
12.45	13.45	Special Luncheon for Young Scientists	Room: UW Tower
14.00	15.45	Breakout Session	Room: Wallace 120
15.45	16.15	COFFEE BREAK	
16.15	18.00	Reconvene with rest of GMPP groups	
		Discussion with CEOP	

GLASS

Room: EEB 403

10.30	15.45	LIS/LoCo (Discuss experimental design of local coupling experiment using LIS plus an update on coupling diagnostics) Selection of New GLASS Co-Chair 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)	J. Santanello/M. Ek, B. van den Hurk/M. Best
12.30	14.00	LUNCH	
12.45	13.45	Special Luncheon for Young Scientists	Room: UW Tower
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	

GABLS

Room: Wallace 120

08.30	12.30	Join GCSS Breakout Session	
-------	-------	----------------------------	--

Thursday, 26 August

		GRP/GMPP/CEOP	Rooms
08.30	10.00	GEWEX PANELS WRAP-UP End previous discussions and prepare for one-hour presentation of outcomes, future plans, and interactions within the panels going forward.	GRP: EEB303 GMPP: EEB403 CEOP: Johnson 102
10.00	10.30	BREAK	
		ALL	Room: Johnson 102
10.30	18.00	PLENARY	
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	LUNCH	
14.15	15.45	Round Table discussion with co-chairs of all panels on outcome/conclusions	H. Wheeler
15.45	16.15	COFFEE BREAK	
16.15	17.15	Invited Talk	S. Riser
17.15	18.00	Summary Discussion All materials on fleshed out imperatives due by 20:00	K. Trenberth
18.30	20.00	CEOP Special Evening Session	Room: Johnson 102

Friday, 27 August

		ALL	Room: Johnson 102
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	BREAK	
10.30	12.30	Meeting wrap-up cont'd Writing assignments, tiger teams, WCRP OSC Conference, status of GMPP, and other issues	
12.30		Pan-GEWEX Meeting Adjourns	

Rooms Overview

		Johnson 102	EEB 303	EEB 403	Wallace 120	Johnson 22/111	Wilcox 264
Monday 23							
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	
						SSG	
12:30	14:00	LUNCH	LUNCH	LUNCH	LUNCH	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					
Tuesday 24							
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
Wednesday 25							
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 nd 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		
Thursday 26							
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					
Friday 27							
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	
Saturday 28							
8:30	10:00					SSG	
10:00	10:30	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
10:30	12:30					SSG	

2nd 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