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## GDIS Agenda

### Wednesday, December 10 (Joint with GHP-limited Attendance)

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Opening Meeting Session (Wednesday December 10, 2014)

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0900-0920 Welcome Remarks and Meeting Logistics

(Graeme Stephens, Co-Chair, GEWEX Scientific Steering Group (SSG) and Director, NASA Jet Propulsion Laboratory Center for Climate Sciences, and Peter van Oevelen, Director, International GEWEX Project Office)

***0920-1700 Joint meeting (open session) with representatives of the Global Drought Information System (GDIS) and all GHP participants. Reports will be heard from representatives of the GHP RHPs and other GHP/GDIS scientists on drought-related research.***

0920-1000 Programmatic overviews of GHP and GDIS

(Jason Evans/Jan Polcher GHP Co-Chairs; Siegfried Schubert GDIS Workshop Science Organizing Committee – 20 mins GHP, 20 mins GDIS)

1000-1030 WCRP Grand Challenges on Extremes and Water Availability

Sonia Seneviratne – Extremes GC (15 minutes)  
Graeme Stephens – Water availability GC (15 minutes)

1030-1100 Coffee Break

1100-1240 Presentations on GEWEX RHPS - DROUGHT RELATED RESEARCH REPORTS

(RHP Representatives - 25 minutes total; 20 minute presentation plus questions)

Philippe Drobinski - Hydrological Cycle in the Mediterranean Basin Experiment (HyMeX)  
Howard Wheeler - Saskatchewan River Basin Study (SaskRB)  
Pavel Groisman - Northern Eurasia Earth Sciences Partnership (NEESPI)  
Ronald Stewart - Saskatchewan River Basin Study (SaskRB)  
Hugo Berbery - La Plata Basin (LPB)

1240-1400 Lunch break

1400-1530 - GDIS Representative Reports

European drought monitoring and prediction - Juergen Vogt (30 minutes including discussion)  
US Drought monitoring and prediction - Kingtse Mo (30 minutes including discussion)  
Drought monitoring and prediction in Latin America - Will Pozzi (30 minutes including discussion)

1530-1600 Coffee Break

Drought monitoring and prediction in Africa - Eric Wood (30 minutes including discussion)

1630-1700 - Joint Session Wrap-Up

(Evans/Polcher/Schubert/All)

Review topics including RHP process level studies; triggers and/or mechanisms of intensification (both large-scale teleconnections and local feedbacks) and interactions with operational agencies in terms of drought monitoring and how those intersect with GDIS efforts.

Summarize how the joint session discussions could lead to better interaction between GDIS and the drought related efforts in the RHPs and how this could be of importance to society and relevant to climate services.

1700 - Adjourn

## **Thursday Dec 11 (Start of GDIS workshop)**

8:00-8:45          Registration

### **Introduction**

08:45    Workshop goals - S. Schubert

09:00    Links to NIDIS and other efforts - Roger Pulwarty

(Including North American Drought Monitor, the European Drought Observatory - EDO, The African Drought Observatory – ADO, The Princeton African Drought Monitor, The South and Central American Drought Observatory – SCADO)

### **Droughts in different regions of the globe (a scientific assessment)**

*Chairs: Ron Stewart and Juergen Vogt (Rapporteurs)*

09:30    Marty Hoerling: North American Droughts

09:50    Wenju Cai: Australian Droughts

10:10    Pavel Groisman: Northern Eurasian Droughts and Heat Waves

10:30    Break

11:00    Matt Barlow: Droughts in the Middle East and Southwest Asia

11:20    Brad Lyon: Drought in East Africa

11:40    Hugo Berbery: Drought in South America

12:00 Lunch

01:00 Lixia Zhang/Tianjun Zhou: Drought in East Asia

01:20 Sonia Seneviratne: European Droughts

01:40 Krishna Kumar Kanikicharla: Monsoon Droughts in India

02:00 Roberto Mechoso/Belen Rodriguez : West African Droughts

02:20 Break

03:00 *Discussion with Short Talks: Chairs: Mike Hayes and Sonia Seneviratne (Rapporteur)*

**Special Topics (Research challenges/gaps):**

Land coupling: Randy Koster

Internal versus forced variability: Marty Hoerling

Current prediction skill and future prospects: Ben Kirtman

Current and future capabilities for monitoring drought: Justin Sheffield

05:30 *Synthesis and next steps for drought science: S. Schubert and Ron Stewart*

6:00 Adjourn

6:30 Dinner with GHP

**Friday Dec 12**

**Regional Needs and Capabilities: Possible contributions to and returns from GDIS**  
(this should be more focused on practical issues and monitoring & forecasting systems)

**Plenary:** Chairs - *Paulo Barbosa and Kerstin Stahl*

08:15 Robert Stefanski (WMO) (The Global Framework of Climate Services, Regional Climate Centers, Drought Climate Extremes, and drought monitoring and prediction)

08:30 International Context for the Global Drought Information System- Doug Cripe (GEO)

8:45 W. Pozzi & M. Hayes & E. Wood - Expectations and Outcomes for an Experimental Program: Regional Verification of Global Drought Coverage: Needs (tools, requirements) and Expectations

**South America:** Talks should focus on regional needs/capabilities and possible role as a GDIS pilot

09:00 Lisa Alexander/Rodney Martinez (CIIFEN & Regional Climate Center West South America): Regional drought monitoring over western South America: ETCRSCI tests of station homogeneity, regional drought predictive needs, and links to early warning communities in Western South America.

09:15 Julian Baez (CRC-SAS, Centro Regional Climatico para el Sur de America del Sur): Regional Drought Monitoring within the Southern South America Regional Climate Center

09:30 Natalia Herrera/Liliana Nunez (Argentina SMN) Stations used for drought monitoring in Southern South America, station homogeneity, the drought record over Southern South America, and regional drought monitoring needs

09:45 Luis Gustavo de Goncalves (CPTEC) – regional drought monitoring and predictive needs, and links to early warning communities in Brazil and surrounding regions

10:00-10:30 Break

**Africa:** Talks should focus on regional needs/capabilities and possible role as a GDIS pilot

10:30 Chris Funk and Gideon Galu. (An integrated drought prediction system for Eastern Africa to support food security)

10:50 Micha Werner and Gilbert Ouma (UNESCO-IHE, ICPAC) (DEWFORA - Drought Early Warning and Forecasting in Africa: experiences of networking with grassroots groups in Africa and expectations vs. outcomes of drought forecasting tests during the Horn of Africa drought)

**Other Strategic Partners:** Talks should focus on regional needs/capabilities and possible role as a GDIS pilot

11:10 Yaohui Li (Director, Institute of Arid Meteorology, CMA, China): drought operations in China and possible role in GDIS pilot

11:30 Albert van Dijk: Australia (lessons learned and possible role in GDIS)

11:50 Gregor Gregoric, Drought Management Centre for South-Eastern Europe (DMCSEE), Environmental agency of the Republic of Slovenia, Ljubljana, Slovenia (possible role in GDIS)

12:10 Luncheon

### **1:30-3:30 Afternoon Breakout Sessions**

- a) South America (Discussion leads: Will Pozzi and Hugo berbery)
- b) Africa: (Discussion leads Eric Wood and Brad Lyon)
- c) Other partnerships: (Discussion leads Juergen Vogt and Albert van Dijk)
  - include short talk by Trevor Hadwen on drought monitoring in Canada

3:30-6:30 Plenary to discuss outcome of breakout sessions (needs/capabilities) and global providers (Chairs: Roger Pulwarty and Siegfried Schubert)

*Possible short (5-10 minutes) talks on global capabilities*

Dennis Lettenmaier: real time multi-model GLDAS

Eric Wood: drought monitoring/ forecasting systems: experiences from Africa and globe

Emanuel Dutra: ECMWF Global Drought Forecasting skill (presented remotely?)

Henny van Lanen: Water and Climate Change (WATCH) Multimodel ensemble

Mike Ek: GLDAS

Jin Huang – North American Multi-Model Ensemble

Jinyoung Rhee – APCC multi-model predictions

Anna Maidens– Met Office monthly/seasonal forecast products

Annarita Mariotti – the NOAA DTF, lessons learned and future participation in GDIS

6:30pm Adjourn

7:00-8:00pm - Howard Wheeler will be giving a talk at Pasadena City College (open to public)

## **Saturday Dec 13**

### **GDIS Regional Pilots: The Way Forward**

8:30 Kingtse Mo: Outline of proposal for a GDIS pilot or pilots (real time)

The presentation will be followed by discussion period

9:30 Users and expectations (Discussion leads: Kerstin Stahl and Mike Hayes)

- Who are the users of the information generated?
- What is the added value of contributing to GDIS? (important for long-term acceptance)

*Some examples*

Wassila Thiaw: International Desk experience at CPC

Mark Svoboda: NDMC experience  
Nate Engle: An e-course on weather and climate services  
Rogier Westerhoff: GLOWASIS ID-Lab: water scarcity and drought forecasting in a collaborative open data online interface

10:30 Break

11:00 Review datasets available in real time (Discussion lead: Dennis Lettenmaier)

Short talks on data:

GLDAS: Mike Ek/Dennis Lettenmaier

Satellite data: Bailing Li/Martha Anderson/Amir Aghakouchak

Station or other blended data – PingPing Xie

1981-now 0.05 global daily CHIRPS data satellite-gauge data set- Chris Funk

Forecasts—NMME, ECMWF, UK Metoffice, APCC

12:00 Richard Heim/Michael Brewer: How to link datasets (Drought Portal)

12:30 Lunch

1:30 **Discussion – Institutional commitments and roles** (All)

- Host institutions and best early candidates for regional pilots

- Who will be the regional contact points?

- How do we interchange information internationally? (Bob Stefanski – lead)

- How to obtain financial support for running the pilot? This requires that at least

one participant per pilot can engage in this.

3:00 Break

3:30 Wrapup

Do we have any gaps?

Did we overlook anything?

Present a plan for pilot(s)

5:00pm Adjourn