



# CPASW 2006



## 4th Annual NOAA Climate Prediction Applications Science Workshop: Research and Applications on Use and Impacts

March 21-24, 2006  
Tucson, AZ



## Agenda

### Tuesday, March 21, 2006

7:30 – 8:30 am

**Continental Breakfast**

8:30 – 9:00 am

**Introduction**

Logistics

Introductory Remarks

*Robert Livezey, NOAA/NWS Climate Services*

9:00 – 10:00 am

**Stakeholder Engagement 1**

9:00 am

Environmental and Resource Availability Effects on Agricultural Use of Climate Forecasts in Eastern Nebraska

*Q. Steve Hu, University of Nebraska-Lincoln*

9:20 am

Assessment of Probabilistic Forecasts Using Field Surveys of Resource Management Professionals: Preliminary Results

*Holly Hartmann, University of Arizona*

*Niina Haas, University of Arizona*

9:40 am

The Current Climate in Fire and Land Management

*Tim Brown, Desert Research Institute*

10:00 – 10:30 am

**Break (snacks provided)**

10:30 – 11:50 am

**Stakeholder Engagement 2**

10:30 am

Lessons Learned: Integrating Climate and Forecast Information into Fire Management Planning in the Western United States

*Anthony Westerling, Scripps Institution of Oceanography*

10:50 am

Understanding Group Participation in Climate Forecast Use

*Nicole Peterson, Columbia University*

11:10 am

Understanding How Meanings Get Transformed in the

Dissemination of Climate Information - the Case of Northeast Brazil

*Renzo Taddei, Columbia University*

11:30 am	The Role of Scientists in Public Policy Decisions: The Case of Drought Planning <i>Mark Shafer, Oklahoma Climatological Survey</i>
<b>11:50 – 1:30 pm</b>	<b>Lunch (food provided)</b>
<b>1:30 – 3:30 pm</b>	<b>Climate Products</b>
1:30 pm	New Climate Divisions for Monitoring and Predicting Climate in the U.S. <i>Klaus Wolter, NOAA – ESRL</i>
1:50 pm	Daily Station Extremes of Temperature and Precipitation for U.S. Local Climatology Network Stations <i>Tim Owen, NOAA / National Climatic Data Center</i>
2:10 pm	A drought Monitoring and Early Warning System for the United States <i>Kingtse Mo, Climate Prediction Center / NCEP / NWS</i>
2:30 pm	The Climate Information Digest: A Monthly Web-Based Publication of Recent Climate <i>Michael A. Bell, International Research Institute for Climate and Society</i>
<b>2:50 – 3:10 pm</b>	<b>Break (snacks provided)</b>
3:10 pm	The Westmap Project <i>Kelly Redmond, Western Regional Climate Center</i>
<b>3:30 pm – 4:45 pm</b>	<b>PANEL: NOAA Climate Prediction Services Team</b>
<b>4:45pm – 7:00pm</b>	<b>Poster &amp; Icebreaker</b>
<b>7:00pm</b>	<b>Dinner (food provided)</b>

## Wednesday, March 22, 2006

<b>7:30 – 8:30 am</b>	<b>Continental Breakfast</b>
<b>8:30 – 9:50 am</b>	<b>Climate-Health/Air Quality 1</b>
8:30 am	Air Quality Extreme Events and Projected Trends for the Southwestern United States <i>Erika Wise, University of Arizona</i>
8:50 am	Regional Variability of Ozone in the Northeast United States and Associated Circulation Anomalies and Climate Teleconnections <i>David Brown, University of New Hampshire</i>
9:10 am	Air Quality and the Demand for Health Services in New Hampshire <i>Aichatou Hassane, University of New Hampshire</i>
<b>9:50 am – 10:20 am</b>	<b>Break (snacks provided)</b>
<b>10:20 – 12:00pm</b>	<b>Climate Science/Services</b>
10:20 am	Emergence of a Pacific Climate Information System (PaCIS) <i>Eileen Shea, East-West Center &amp; NOAA IDEA Center</i>
10:40 am	Climate Information, Data Logistics, and the Enhancement of Decision Systems <i>Chester Ropelewski, Columbia University</i>
11:00 am	Developing a National Agroclimate Information Service in Canada <i>Alan Howard, National Agroclimate Information Service</i>
11:20 AM	From Climate Variability to Climate Change: Challenges and Opportunities to Extension <i>Clyde Fraisse, University of Florida</i>
11:40 AM	Home on the Range: Exploring and Assessing Climate Science Needs within Range Management <i>Mike Crimmins, University of Arizona</i>
<b>12:00pm – 1:30pm</b>	<b>Lunch (food provided)</b>
<b>1:30 pm – 2:45pm</b>	<b>PANEL: Drought</b>
<b>2:45 – 3:15 pm</b>	<b>Break (snacks provided)</b>
<b>3:15 pm – 5:15pm</b>	<b>Climate Forecasts &amp; Applications</b>
3:15pm	Issues for Use of Climate Models to Inform Policymakers, Assess Impacts, and Develop Adaptive Strategies <i>Robert Livesey, NOAA</i>

3:35 pm	Exploring Changes in the Dependability of Seasonal Climate Forecasts Due to Spatial and Temporal Downscaling <i>Jeanne Schneider, USDA ARS Grazinglands Research Laboratory</i>
3:55 pm	Experimental monthly to seasonal ensemble fire danger forecasts <i>John Roads, University of California, San Diego</i>
4:15 pm	Quantifying Impact of Uncertainty in the Simulated Crop Yield and Climate Forecast on Prescribed Decision Making <i>Shrikant Jagtap, University of Florida</i>
4:35 pm	JMA ENSO Index and Thermal Time Accumulation <i>John Bellow, COAPS, Florida State University</i>
4:55 pm	Seasonal Climate and Crop-specific Outlooks Available on AgClimate.org <i>David Zierdan, COAPS, Florida State University</i>
<b>5:15 – 6:00pm</b>	<b>Break</b>
<b>6:00 – 9:00pm</b>	<b>Banquet Dinner</b>
<b>7:00pm</b>	<b>Banquet talk</b>

## **Thursday, March 23, 2006**

- 7:30 am – 8:30 am**                      **Continental Breakfast**
- 8:30 am – 9:50 am**                      **Water Management 1**
- 8:30 am                                      Emerging Water Management Challenges in the Lower Colorado River Basin: Climate, Modeling Assumptions, and Uncertainty  
*Dustin Garrick, University of Arizona*
- 8:50 am                                      Water Shortage Sharing Agreements: An Application for Climate Prediction  
*Bonnie Colby, University of Arizona*
- 9:10 am                                      Deciding on Drought Triggers in the FERC Dam Relicensing Process  
*Greg Carbone, University of South Carolina*
- 9:30 am                                      Assessment of the Utility of Climate Information for Large Front Range Water Providers in Colorado  
*Andrea Ray, NOAA Earth Systems Research Lab*
- 9:50 – 10:20 am**                      **Break (snacks provided)**
- 10:20 am – 12:00 pm**                      **Water Management 2**
- 10:20 am                                      Be Careful of What You Wish For... Climate-Responsive Water Management from the Ground Up Goes Big-Time?  
*John Wiener, University of Colorado*
- 10:40 am                                      Integrated Forecast and Reservoir Management in Northern California – The INFORM Project  
*Elyon Shamir, Hydrologic Research Center*
- 11:00 am                                      Incorporating climate variability uncertainty in water resources planning for the upper Santa Cruz River.  
*Elyon Shamir, Hydrologic Research Center*
- 11:20 am                                      An Operational Database For Low Flow Forecasting in the NWS  
*Doug Kluck, National Weather Service*
- 11:40 am                                      Update on West Wide Hydrologic Forecasting at the University of Washington  
*Alan Hamlet, University of Washington*
- 12:00 pm – 1:30 pm**                      **Lunch (food provided)**
- 1:30 pm – 3:00 pm**                      **PANEL: Water Resources Management & Climate Science**
- 3:00 pm – 3:30 pm**                      **Break (snacks provided)**

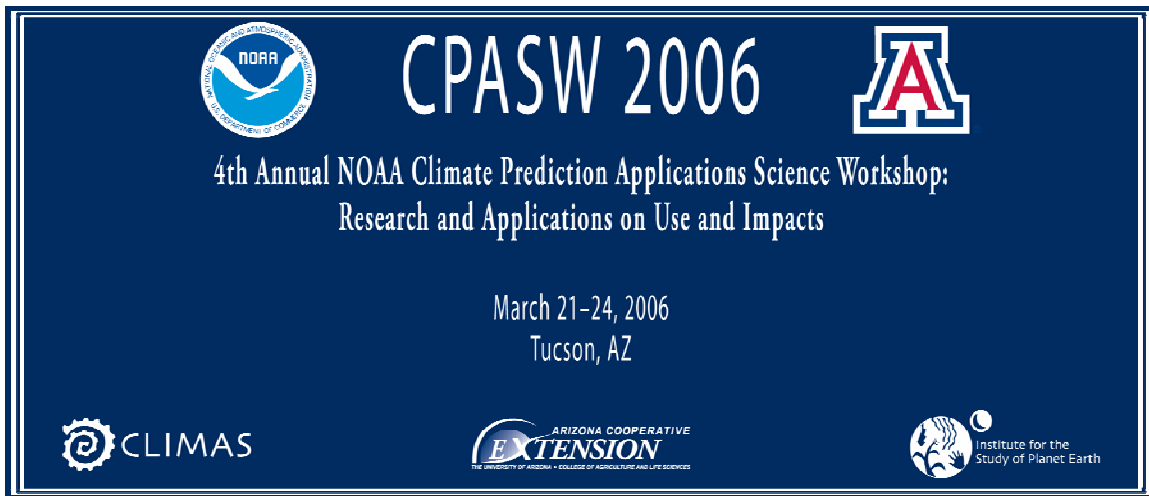
- 3:30 pm – 3:50 pm Long-Range Hydropower Forecasts for the Columbia River, Colorado River, and Sacramento/San Joaquin Systems  
*Alan Hamlet, University of Washington*
- 3:50 pm – 4:10 pm** ***Workshop Evaluation***
- 4:10 pm – 5:15 pm** **Climate-Health/Air Quality 2**
- 4:10 pm Climate and Health: Basic Science and Decision Support for Valley Fever  
*Andrew Comrie, University of Arizona*
- 4:30 pm Climate Information Resources for the Malaria Control Community  
*Emily Grover-Kopec, International Research Institute for Climate and Society*
- 4:50 pm Progress in Developing a Climate Based Malaria Early Warning System in Sri Lanka  
*Lareef Zubair, International Research Institute for Climate and Society*
- 5:15 pm** **Dinner (food provided)**

**Friday, March 24, 2006**

<b>7:30 am – 8:30 am</b>	<b>Continental Breakfast</b>
<b>8:30 am – 9:50 am</b>	<b>Economics/Forecast Value</b>
8:30 am	Estimating The Value of El Niño Forecasts for Panama Canal Operations <i>Nicholas Graham, Hydrologic Research Center / Scripps Institute Oceanography</i>
8:50 am	Industry Uses and the Economic Value of Air Quality Information and Forecasts: An Exploratory Inquiry Ross Gittell, University of New Hampshire
9:10 am	Snow Days: Using Climate Forecasts to Better Manage Climate Variability in the Ski Industry Rosalind Bark, University of Arizona
9:30 am	Crop Insurance and Climate Information: Synergies and Conflicts of Interest Between Farmer and Insurer Victor Cabrera, University of Miami
<b>9:50 am – 10:20 am</b>	<b>Break (snacks provided)</b>
<b>9:50 am – 11:45 am</b>	<b>PANEL: Decision Making, Partnerships, &amp; Stakeholders</b>
<b>11:45 – 12:00 pm</b>	<b>Concluding Remarks</b>
<b>12:00 pm</b>	<b>Adjourn</b>







## Poster Presentations

**ENSO, PNA and NAO Scenarios for Extreme Storminess, Rainfall, and Temperature Variability During the Florida Dry Season: Challenges of Communicating Uncertainty to Decision Makers**  
*Bart Hagemeyer, NOAA / NWS*

**Demonstrating a Methodology for Incorporating Climate Information in a Lower Colorado River Basin Operations Model**  
*Laura Lindenmayer, University of Arizona*

**Assessing Sand Dune Mobility Potential for the Coalmine Mesa Chapter area of the Navajo Nation**  
*Casey Thornbrugh, University of Arizona*

**GENFLOW: A Software System for Science-Based Water Resources Planning for the Upper Santa Cruz River**  
*Eylon Shamir*

**Western Water Assessment's Climate Affairs Program**  
*Jessica Lowrey, University of Colorado*

**Drought Triggers Methodology (Wyoming)**  
*Jan Curtis, NRCS / National Water and Climate Center*

**Spatial Inhomogeneities in Winter Precipitation Anomalies in the Southwestern**  
*James Tamerius, University of Arizona*

**Climate Information Delivery and Decision Support System**  
*Holly Hartmann, University of Arizona*

**Enhancing Climate Services in the National Weather Service**  
*Andrea Bair, National Weather Service*

**NOAA's Climate Test Bed; Engaging Applications and User Communities**  
*Mel Gelman, NOAA Climate Prediction Center*

**Southwest Climate Change Web Portal**  
*Ben Crawford, University of Arizona*

**Binational Cooperation on a Climate Product for the U.S.-Mexico Border Region**  
*Gregg Garfin, University of Arizona*

**Applications of Monsoon Research: Opportunities to Inform Decision-Making and Reduce Regional Vulnerability**

*Andrea J. Ray (1), Gregg M. Garfin (2), Margaret Wilder (3), Marcela Vásquez-León (4), Melanie Lenart (2), and Andrew C. Comrie (5), 1 – NOAA Earth Systems Research Lab, 2-5 – University of Arizona*