



## Climate and Rangelands Workshop:

### ***Beyond Boxes and Arrows – Assessing Climate Change/Variability and Ecosystem Impacts/Responses in Southwestern Rangelands***

Apache Gold Casino, San Carlos, Arizona  
Jan. 25-26, 2006

*What does everyone need to know about climate change & variability  
and the impact on Southwestern rangelands?*

#### **Wednesday Jan. 25<sup>th</sup>:**

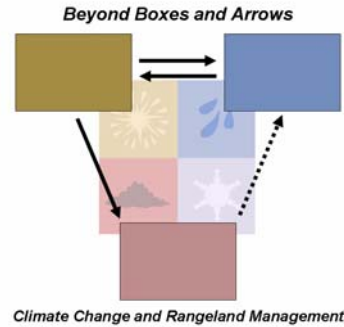
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|-------------------|---|
| 9:00am–1:00pm     | Registration/Check-in   |
| 10:00am – 12:00pm | <b>General Membership Meeting</b><br>– <b>Society of Range Management – Arizona Section</b>   |
|                   | <b>Lunch on your own</b>  |
| 1:00 – 1:05       | Welcome – Mike Crimmins/Chris Jones/Dean Fish (Moderators)  |
| 1:10 – 1:30       | <b>A Range Manager's Perspective on Recent Climate Trends</b><br>– <b>Dennis Moroney, SRM-AZ</b><br>– Comments and observations from a range manager's perspective concerning recent climate trends, what are the management concerns, what they wish the climatologists and ecologists could provide, and set tone for discussion.   |
| 1:40 – 2:00       | <b>Climate Change and Southwest Rangelands: Past, Present and Future</b><br>– <b>Dr Gregg Garfin, UA</b><br>– An overview of our understanding of climate processes affecting Southwestern rangeland ecosystems, inferred by paleorecords, historic events, instrumental records, oceanic oscillations, climate and vegetation change modeling, crucial factors and variables.  |
| 2:00 – 2:30       | <b>Climate-induced Threshold Responses in Rangelands</b><br>– <b>Dr. David D. Breshears, UA</b><br>– Overview of key ecological and hydrological response factors in relation to present and projected climate change; factors and variables for discussion on climate, erosion and vegetation dynamics modeling, and extrapolation of ecological responses probable and/or projected for rangelands in the arid Southwest. |
| 2:30 – 2:45pm     | <b>Break</b>  |



10:15 – 10:45

**Climate Change and Rangeland Mgmt: Game of States and Transitions**  
– Michael Crimmins and George Zaines, UA

– Introduction to breakout activities to use state and transition models to illustrate and consider ecological interactions between climate variability/change and range management.



10:45 – 12:00

Team Breakouts  
**Climate Scenarios and State & Transition Game Playing**

12:00 – 1:15pm

**Lunch**

1:15 – 1:25

Mid-game Discussion – **Michael Crimmins**

1:25 – 3:00

Resume Team Breakouts  
**Climate Scenarios and State & Transition Game Playing**

3:00 – 3:15

Post-game survey – **Niina Haas**

3:15 – 3:30

Break

3:30 – 4:20

Team Scenario Presentations/Summary

4:20 – 4:40

Workshop Commentary by **Susan Moran, ARS**

4:40 – 5:00

Workshop Wrap-up by **Michael Crimmins**

5:00

**End Day/Workshop**

**Friday Jan. 27<sup>th</sup>**

7:00 – 8:30am

**Board of Directors Meeting**

– **SRM–Arizona Section**

9:30am – 12pm

Golf Tournament

(Call **1-800-272-2438** ext. **3664** for tee time – 9:30am at the earliest. \$45 per person, includes 2-person cart.)