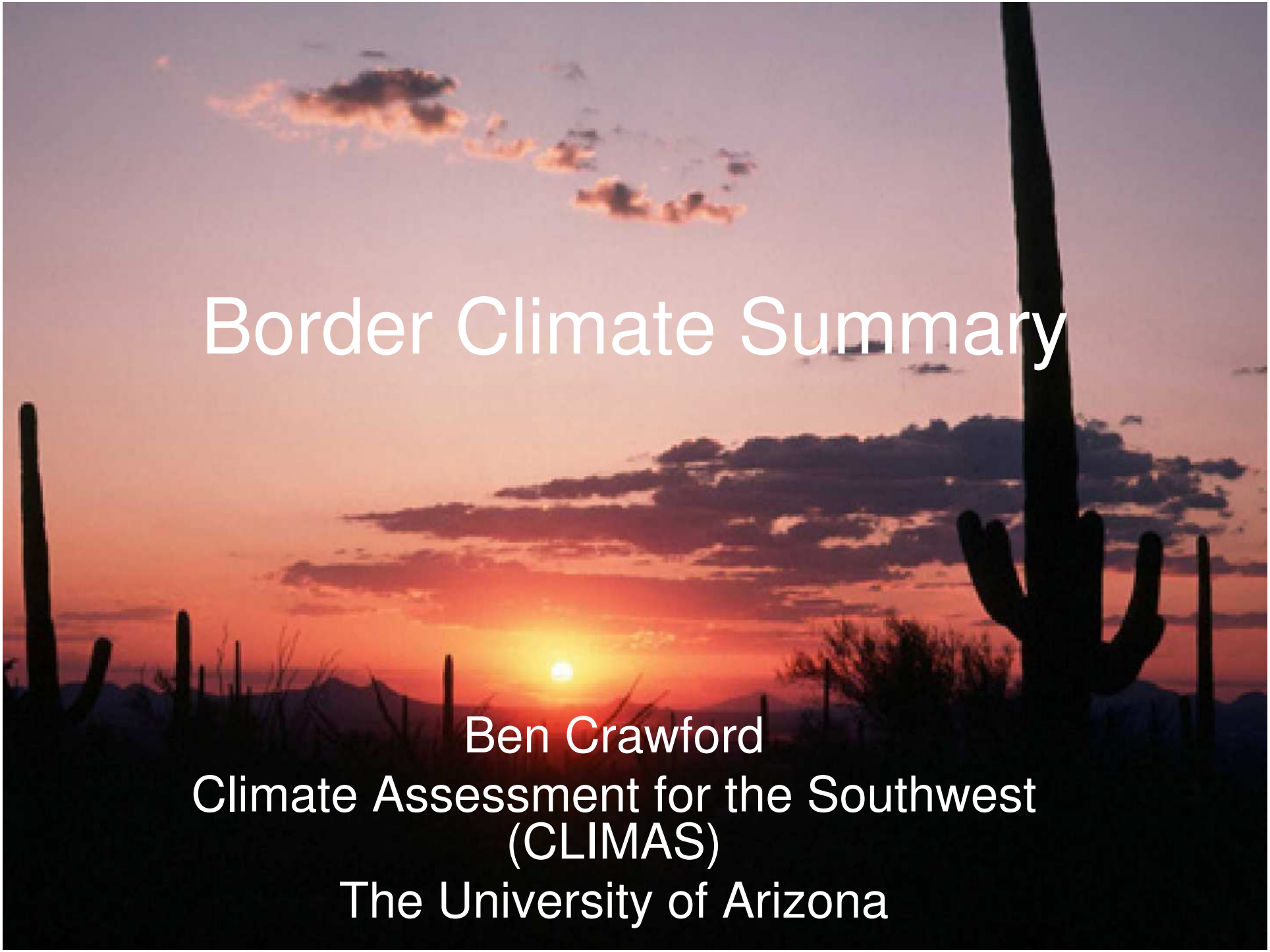
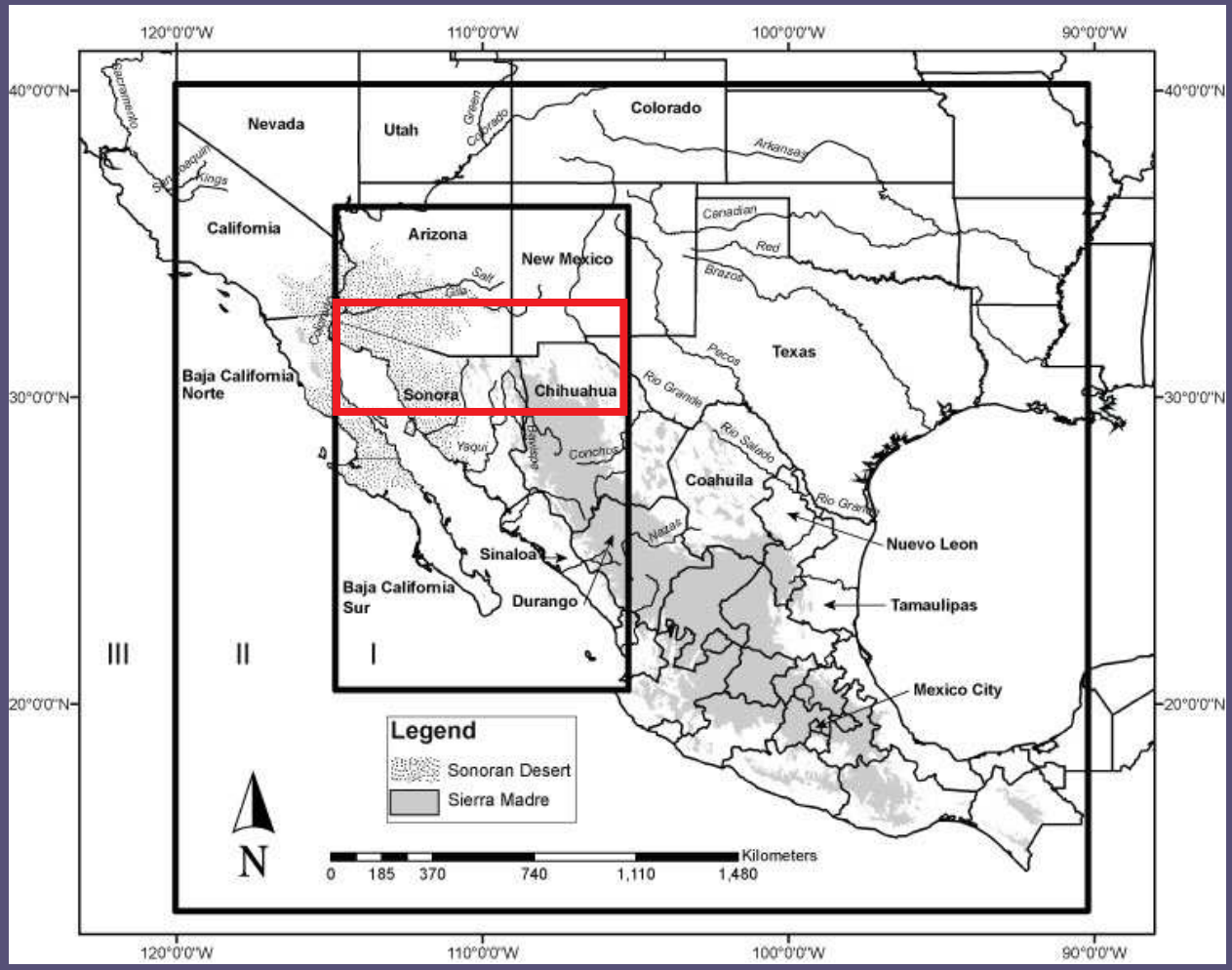


Border Climate Summary

Ben Crawford
Climate Assessment for the Southwest (CLIMAS)
The University of Arizona

Purpose of BCS

- Provide useful climate information to stakeholders and decision-makers along the U.S.-Mexico border



Rationale of BCS

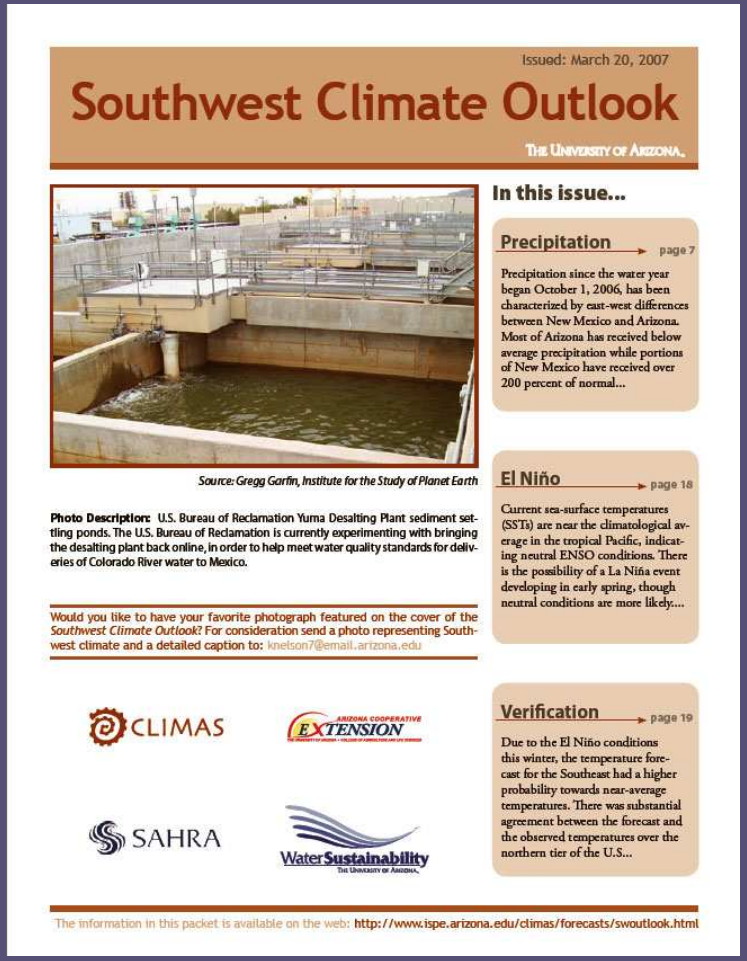
- Improve decision-making, reduce impacts
- Stakeholders in the region are faced with similar climate-related issues regarding:
  - Water supplies
  - Range management
  - Riparian protection
  - Agricultural production
  - Forest health and wildfire

Rationale of BCS

- Improve cross-border communication & cooperation
- Improved monitoring

Southwest Climate Outlook

- BCS based on CLIMAS Southwest Climate Outlook
- ~2,000 people in Arizona and New Mexico
- Region-specific climate information and interpretation
- Inform the press
- Lessons



Issued: March 20, 2007

Southwest Climate Outlook

The University of Arizona

In this issue...

Precipitation page 7

Precipitation since the water year began October 1, 2006, has been characterized by east-west differences between New Mexico and Arizona. Most of Arizona has received below average precipitation while portions of New Mexico have received over 200 percent of normal...

El Niño page 18

Current sea-surface temperatures (SSTs) are near the climatological average in the tropical Pacific, indicating neutral ENSO conditions. There is the possibility of a La Niña event developing in early spring, though neutral conditions are more likely....

Verification page 19

Due to the El Niño conditions this winter, the temperature forecast for the Southeast had a higher probability towards near-average temperatures. There was substantial agreement between the forecast and the observed temperatures over the northern tier of the U.S...

Source: Gregg Garfin, Institute for the Study of Planet Earth

Photo Description: U.S. Bureau of Reclamation Yuma Desalting Plant sediment settling ponds. The U.S. Bureau of Reclamation is currently experimenting with bringing the desalting plant back online, in order to help meet water quality standards for deliveries of Colorado River water to Mexico.

Would you like to have your favorite photograph featured on the cover of the *Southwest Climate Outlook*? For consideration send a photo representing Southwest climate and a detailed caption to: knelson7@email.arizona.edu

CLIMAS

Arizona Cooperative Extension

SAHRA

Water Sustainability The University of Arizona

The information in this packet is available on the web: http://www.ispe.arizona.edu/climas/forecasts/swoutlook.html

BCS Climate Highlights

- Current issue
  - Recent temperature conditions
  - Recent precipitation conditions
  - Temperature forecast
  - Precipitation forecast
  - ENSO conditions and outlook

Border Climate Summary

Resumen del Clima de la Frontera

Introduction

The region centered on the political border between the United States and Mexico is embedded within the larger climatic region of the North American Monsoon. Decisionmakers within this region are faced with similar issues regarding the effects of hydroclimatic variations on water supplies, range management, riparian protection, agricultural production, forest health and wildfire.

In order to make climate information useful and more easily accessible to border region stakeholders, and to help regional decisionmakers to make better informed decisions, a binational partnership of researchers and operational entities formed to create an experimental U.S.-Mexico Borderlands Climate Outlook product. The goals of the project were:

- Create a one-stop shopping product for U.S.-Mexico border region hydroclimate information
- Build capacity for land managers, water providers, agricultural producers, and other decisionmakers to use climate information in their operations
- Improve the flow of climate information and collaboration between institutions in the U.S. and Mexico
- To collect feedback on how we can improve the product

This is an experimental product and we hope to hear from you with feedback. Please email your comments or suggestions to Ben Crawford:

bercraw@email.arizona.edu

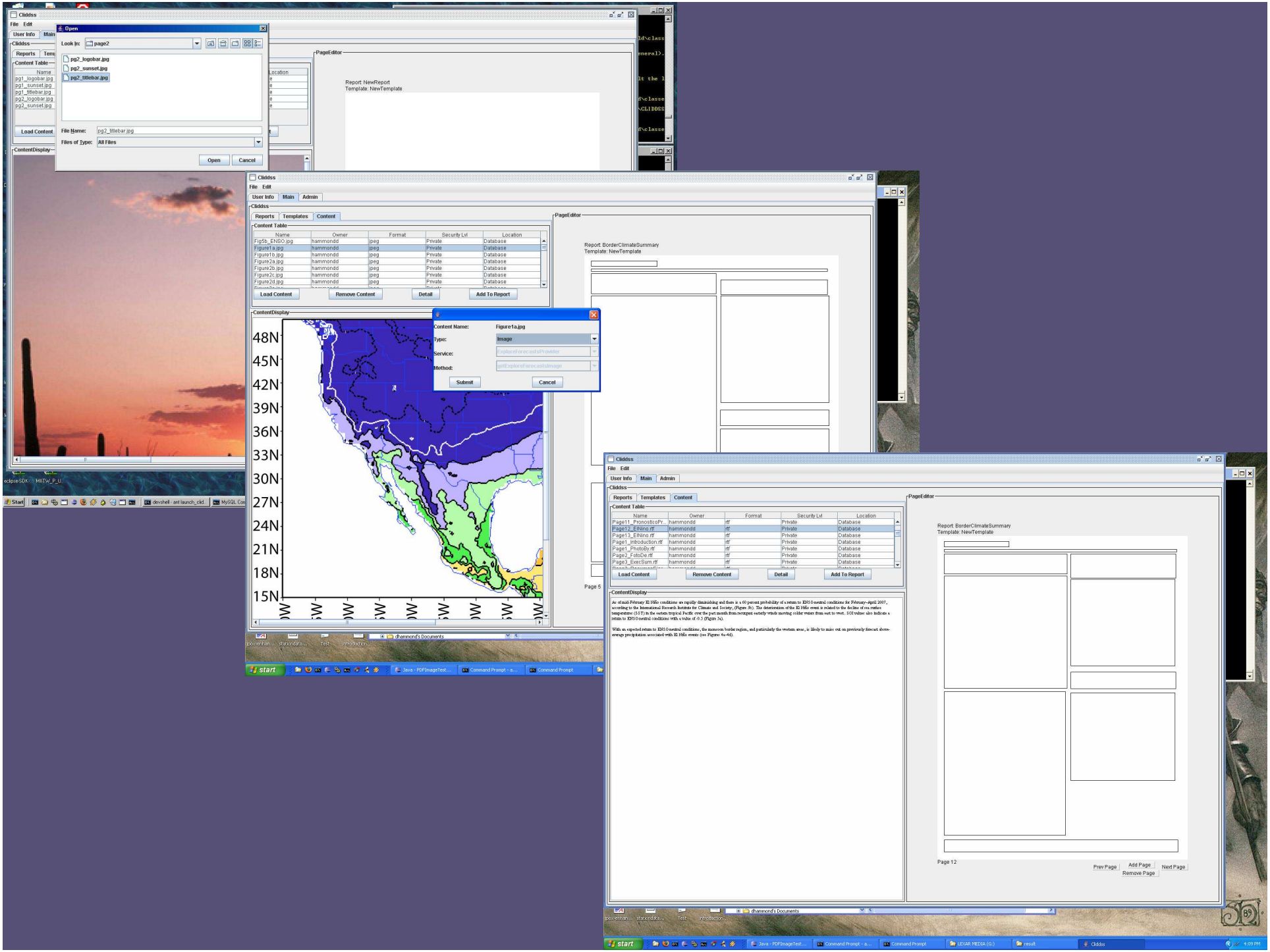
The information in this packet is available on the web: http://www.bpa.arizona.edu/climate/forecasts.html

Process

- NOAA & IRI images
- Input from Mexico's SMN, UNAM
- Combine and translate: U.S. comments + Mexico comments

CLIDDSS

- Climate Information Delivery and Decision Support System
  - Automatically generate .pdf reports
  - Automatically includes legends, data sourcing, contact information, caveats, explanations
  - Sections for user-customized (value-added) comments


Clriddss
File Edit
User Info
Main
Admin
Open
Look In: page2
pg2_logobar.jpg
pg2_sunset.jpg
pg2_titlebar.jpg
File Name: pg2_titlebar.jpg
Files of Type: All Files
Open
Cancel
PageEditor
Report: NewReport
Template: NewTemplate
Reports
Templates
Content
Content Table
Name
Owner
Format
Security Lvl
Location
Load Content
Remove Content
Detail
Add To Report
ContentDisplay
Content Name: Figure1a.jpg
Type: Image
Service:
Method:
Submit
Cancel
Report: BorderClimateSummary
Template: NewTemplate
48N
45N
42N
39N
36N
33N
30N
27N
24N
21N
18N
15N
Page 5
Page 12
Prev Page
Add Page
Remove Page
Next Page
start

Future of BCS

- Fully automate CLIDDSS
- Expand climate highlights:
  - Drought conditions
  - Reservoir levels
  - Streamflow
  - Vegetation
- Include more products, forecasts from Mexico
- Streamline U.S.-Mexico information flow
- Expand to include entire border region

Acknowledgements

- Kristen Nelson, ISPE
- Damian Hammond, CLIDDSS
- Gregg Garfin, ISPE, CLIMAS
- Miguel Cortez, UNAM