# *Overview of Water Research at University of California, Davis*

Iranian Water Scholars Visit, UC Davis, August 14, 2008.

# University of California Davis

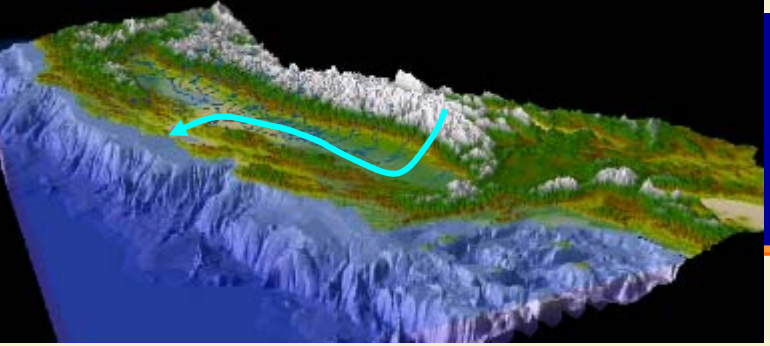
- **Four Colleges and Five Professional Schools**
- **30,000 students (6000 graduate students**
- **103 undergraduate majors and 86 graduate programs**
- **5000 acres, largest UC campus**

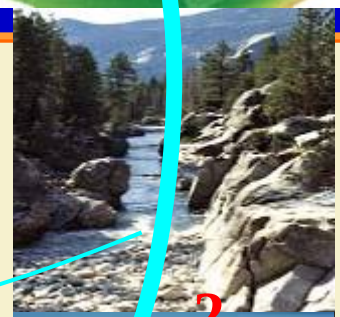
- **College of Agricultural and Environmental Sciences**

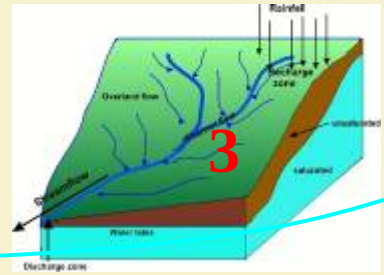
  **4500 undergraduate students and about 350 faculty**

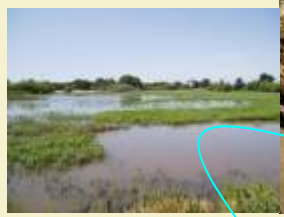
# California – geography and water ways

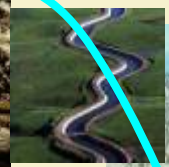
# California Water: From the Sierra to the Sea

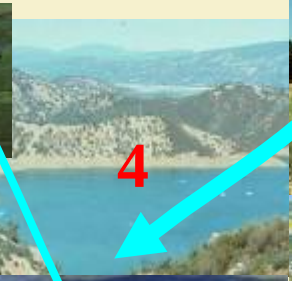


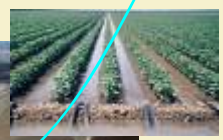


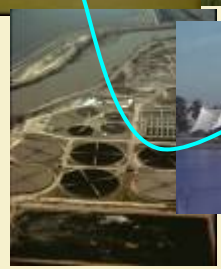



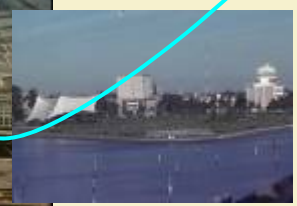












# Water Programs at UC Davis

UCDAVIS
CENTER FOR WATERSHED SCIENCES

College of Agricultural & Environmental Sciences

Department of
LAND, AIR AND WATER RESOURCES
University of California, Davis
Climate Change • Sustainable Agriculture
Environmental Quality • Landscape Processes

GEOLOGY

Hydrologic Sciences
Graduate Group >>> UCDAVIS

# Water Centers at UC Davis

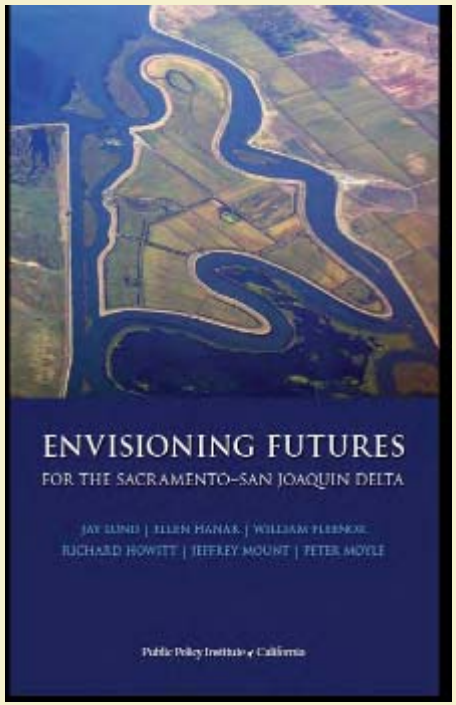
UCDAVIS
CENTER FOR AQUATIC BIOLOGY & AQUACULTURE

UCDAVIS
TAHOE ENVIRONMENTAL
RESEARCH CENTER

UCDAVIS
BODEGA MARINE LABORATORY

UCDAVIS
CENTER FOR WATERSHED SCIENCES

# The Center for Watershed Sciences conducts problem-solving research in restoration and water resource management in California



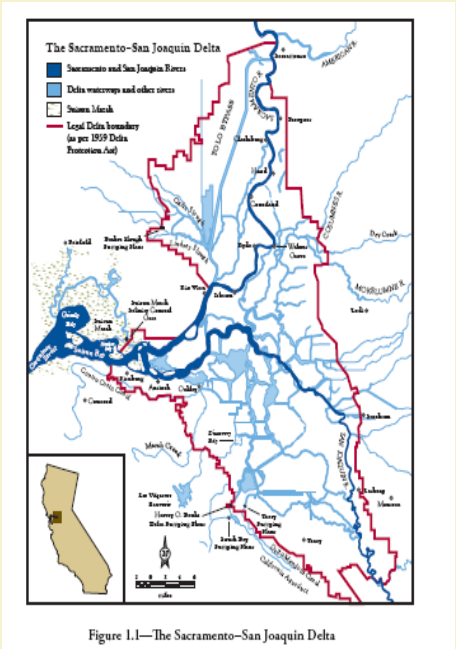
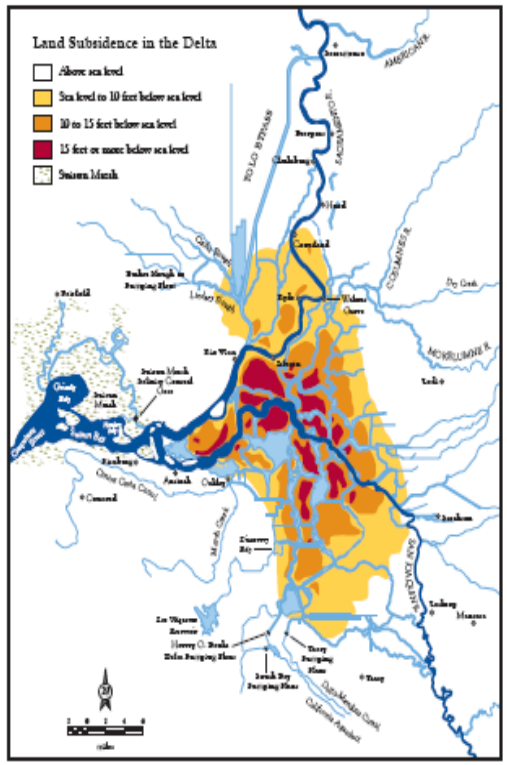



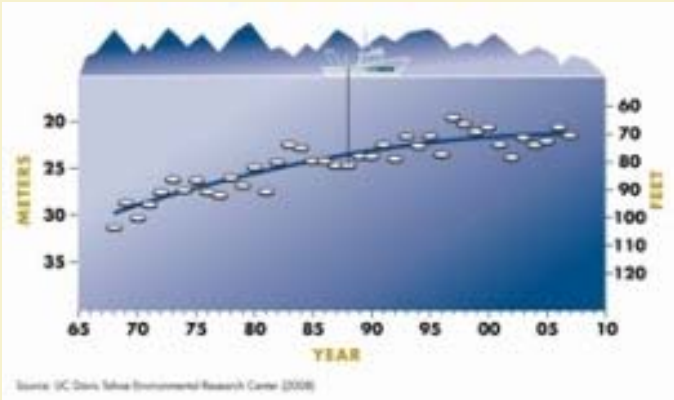

Figure 1.1—The Sacramento–San Joaquin Delta




SOURCE: Department of Water Resources (1995).

Figure 2.4—Land Subsidence in the Delta

# Tahoe Environmental Research Center



# LAWR 2007-2012 Strategic Plan

Dept Land, Air and Water Resources

**LAWR STRATEGIC PLAN 2007-2012**

**CLIMATE CHANGE**

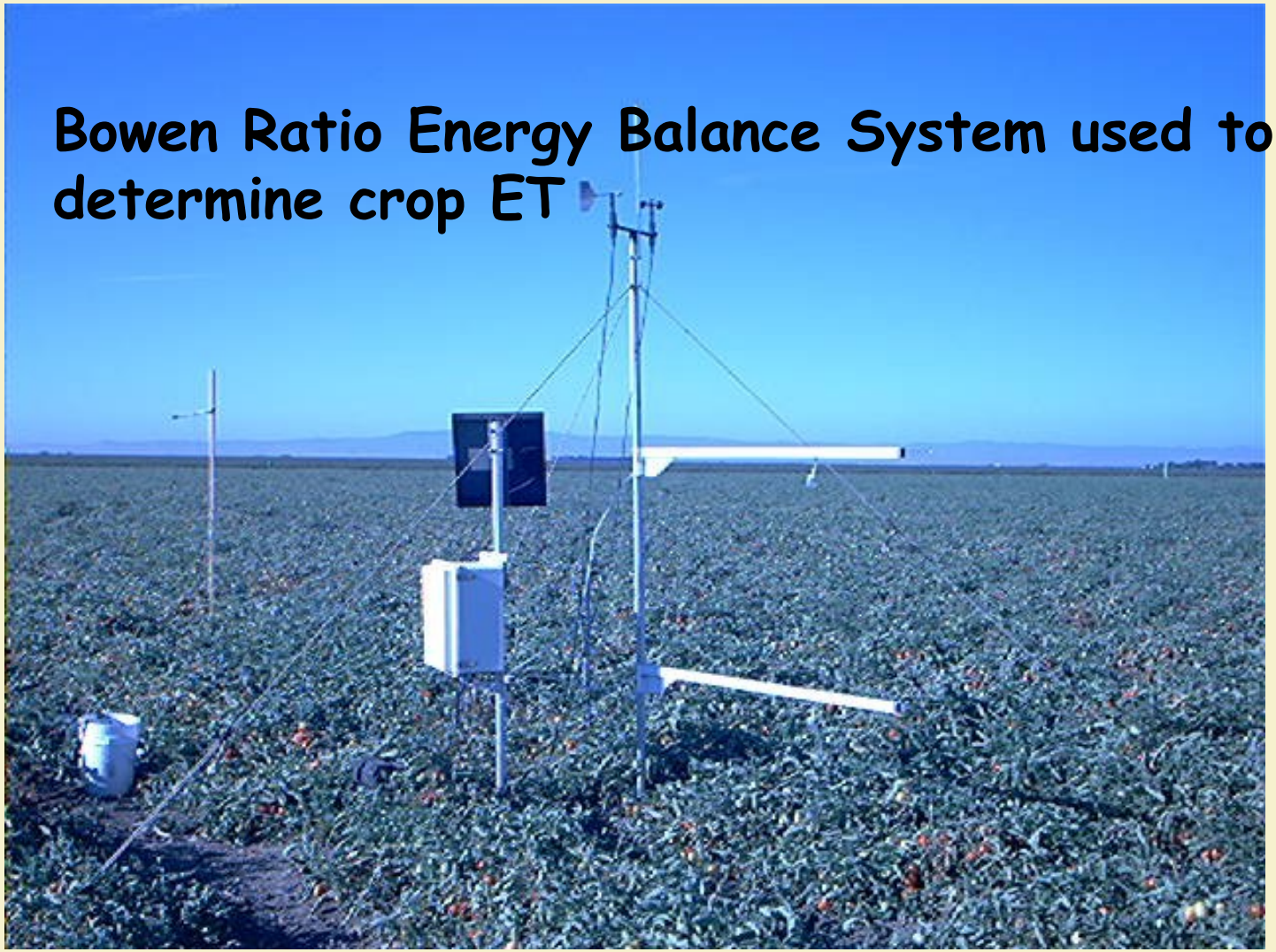
**ENVIRONMENTAL QUALITY**

**SUSTAINABLE AGRICULTURE**

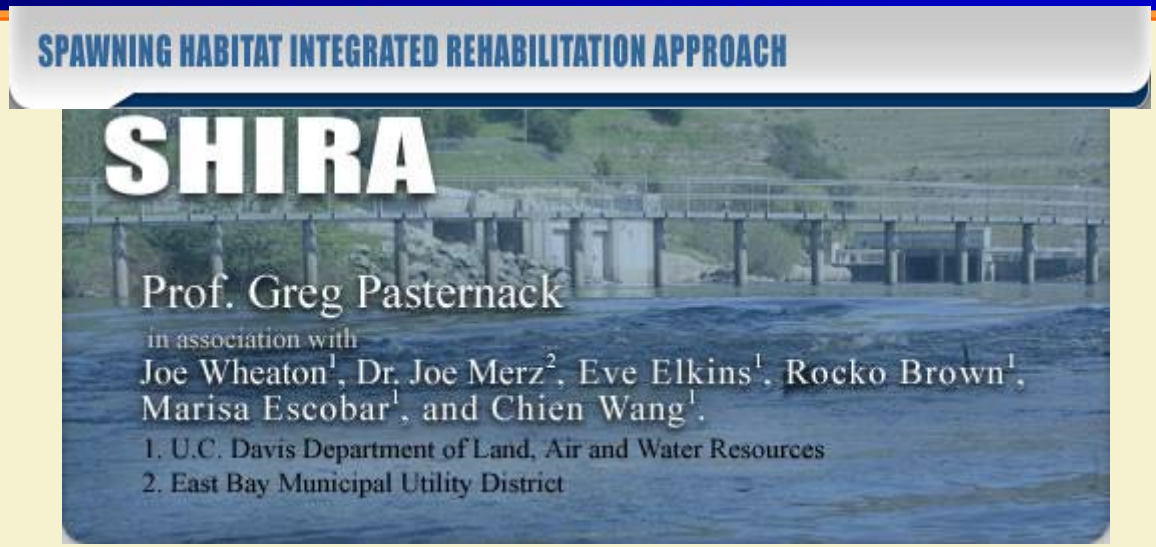
**LANDSCAPE INTERFACES & PROCESSES**

**ROAD MAP FOR THE NEXT DECADE**

# Crop Evapotranspiration & CIMIS Network - Snyder



# River restoration - Pasternack



# Groundwater Monitoring on Dairies - Harter

# Transport and Fate of *Cryptosporidium parvum* in groundwater

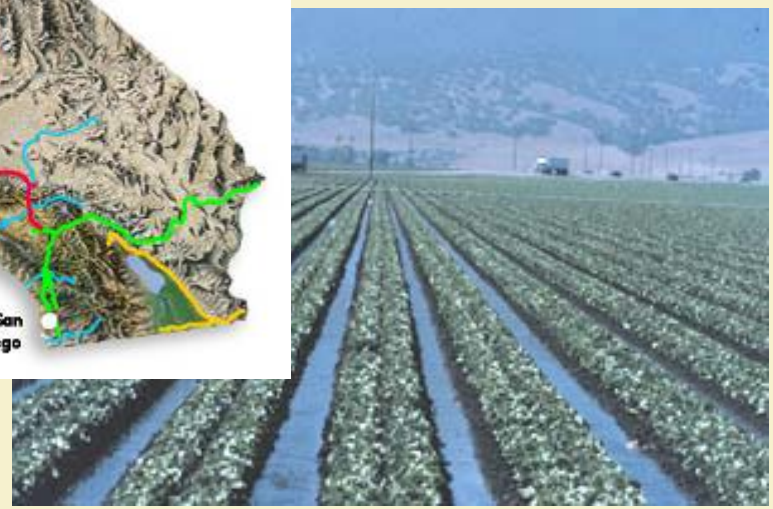
# Application of Remote Sensing for Monitoring and Management of Invasive Weed Infestation - Ustin

Coastal Sage Scrub

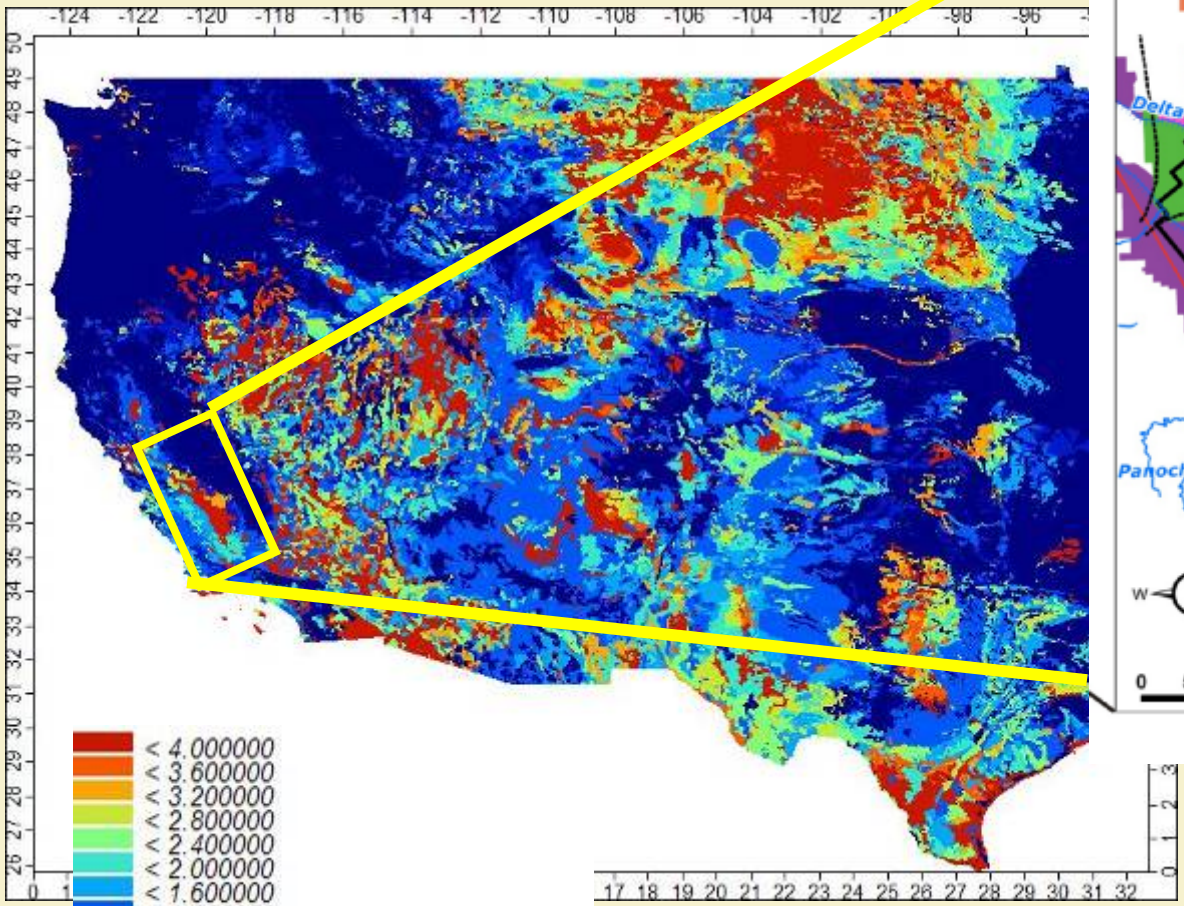
*Iceplant*

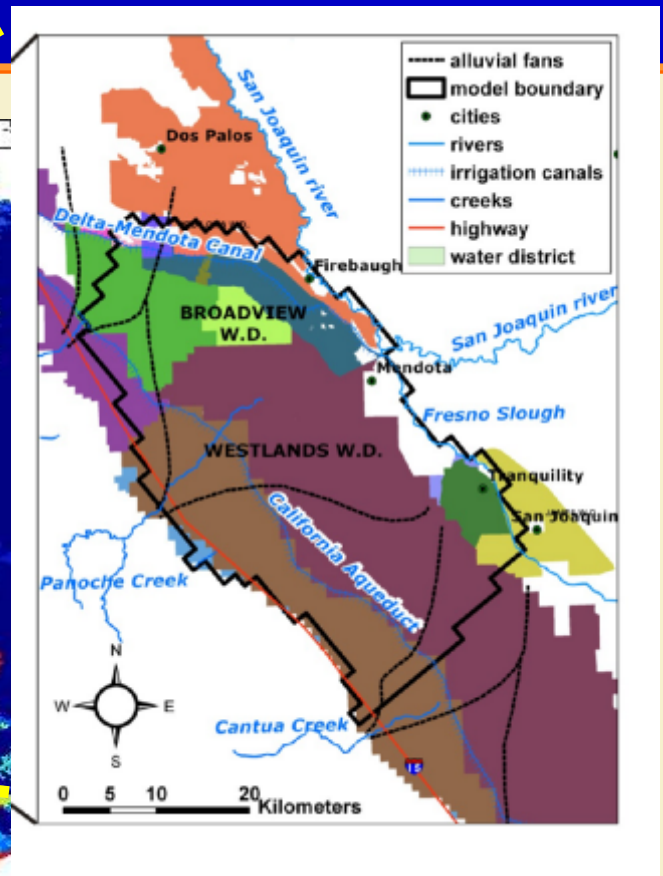
Maritime Chaparral

# San Joaquin Valley: Irrigated Agriculture



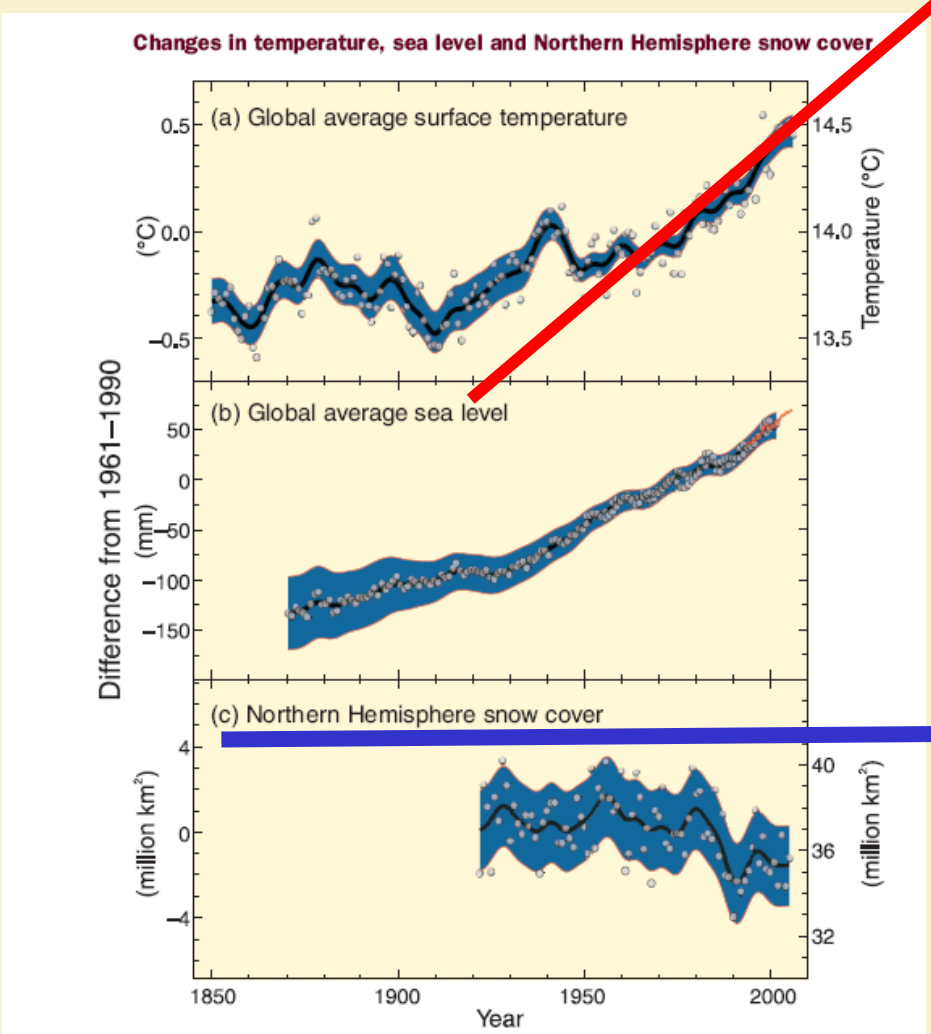
# Soil salinity (dS/m) for Western US:

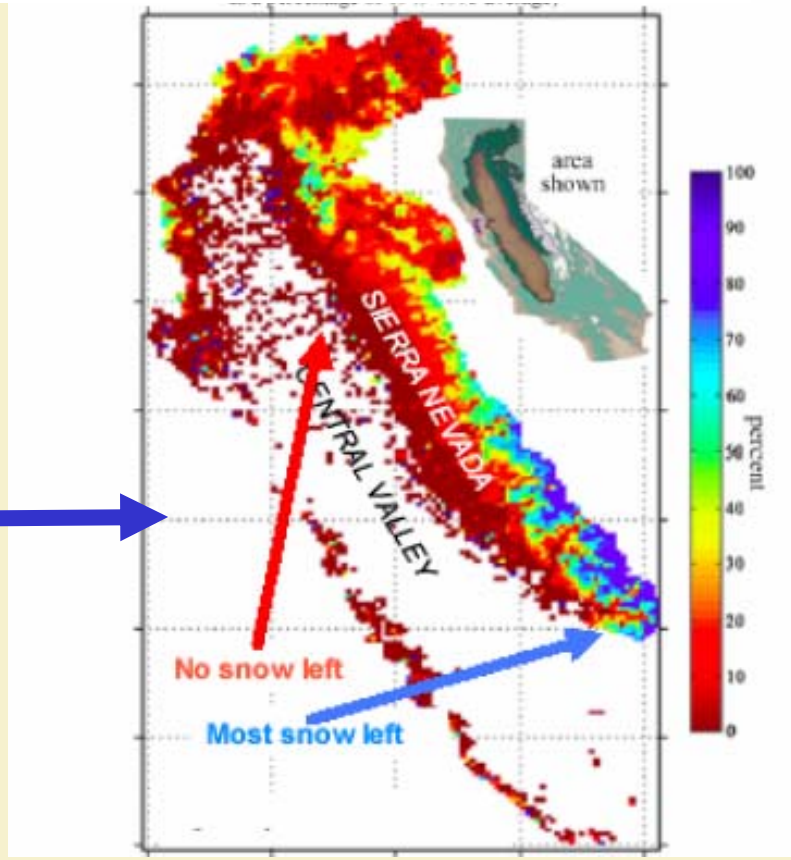


# Climate Change 2007: Synthesis Report IPCC

# (0.2 ºC/decade)




**Percent Snow remaining for 2050, as compared to current average snow water equivalent**