

ESRL Theme Presentation on the Weather-Climate Connection

Observing System Needs

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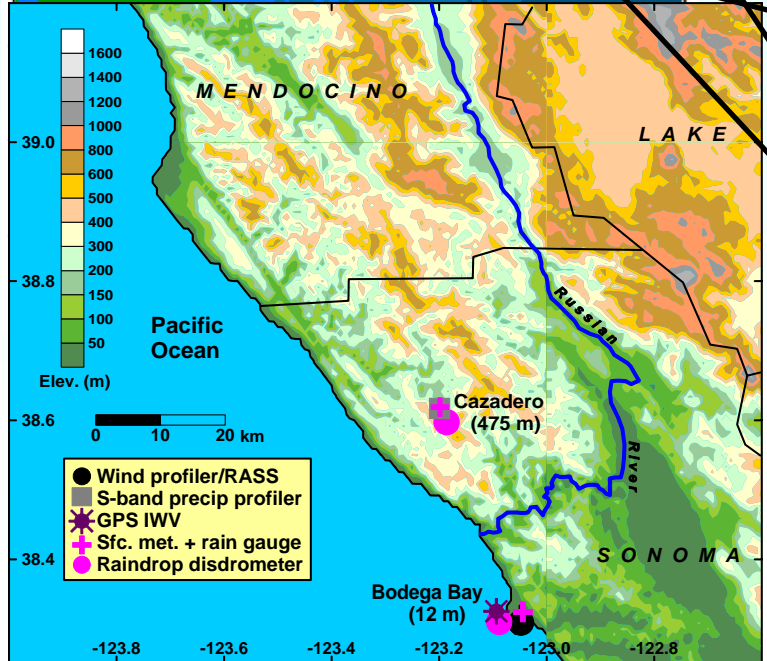
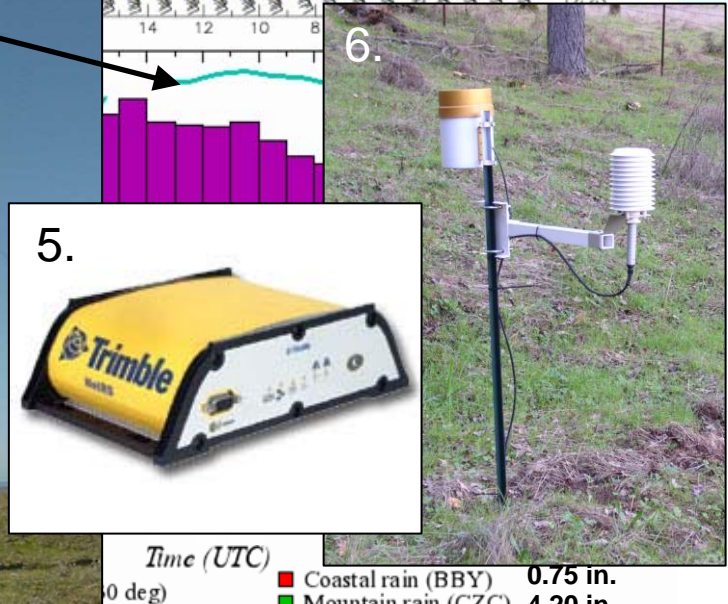
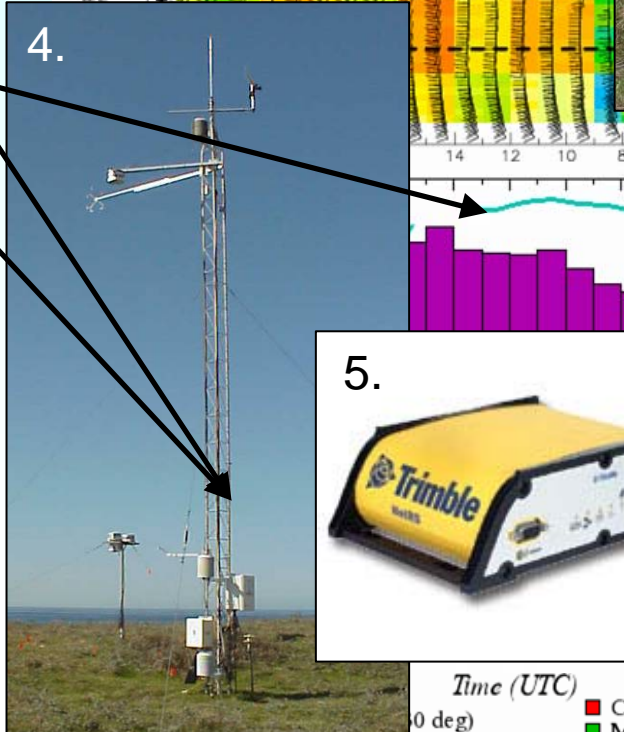
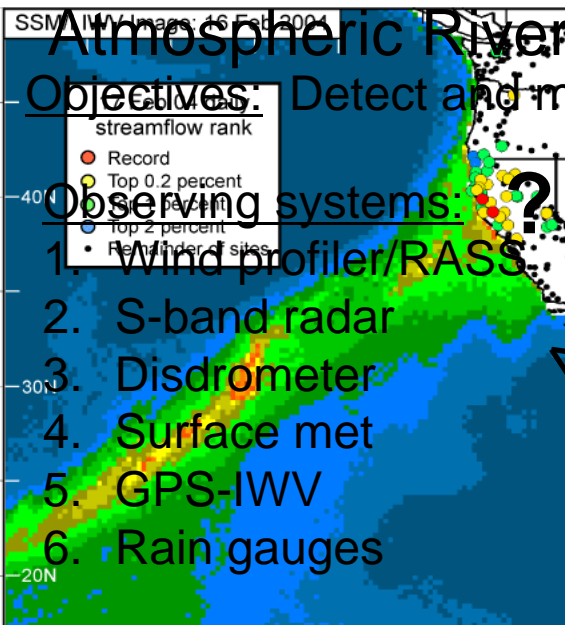


Atmospheric River Observatory

Atmospheric River (AR) Observatory: Russian River Prototype
Objectives: Detect and monitor the fuel and forcing that causes extreme precipitation

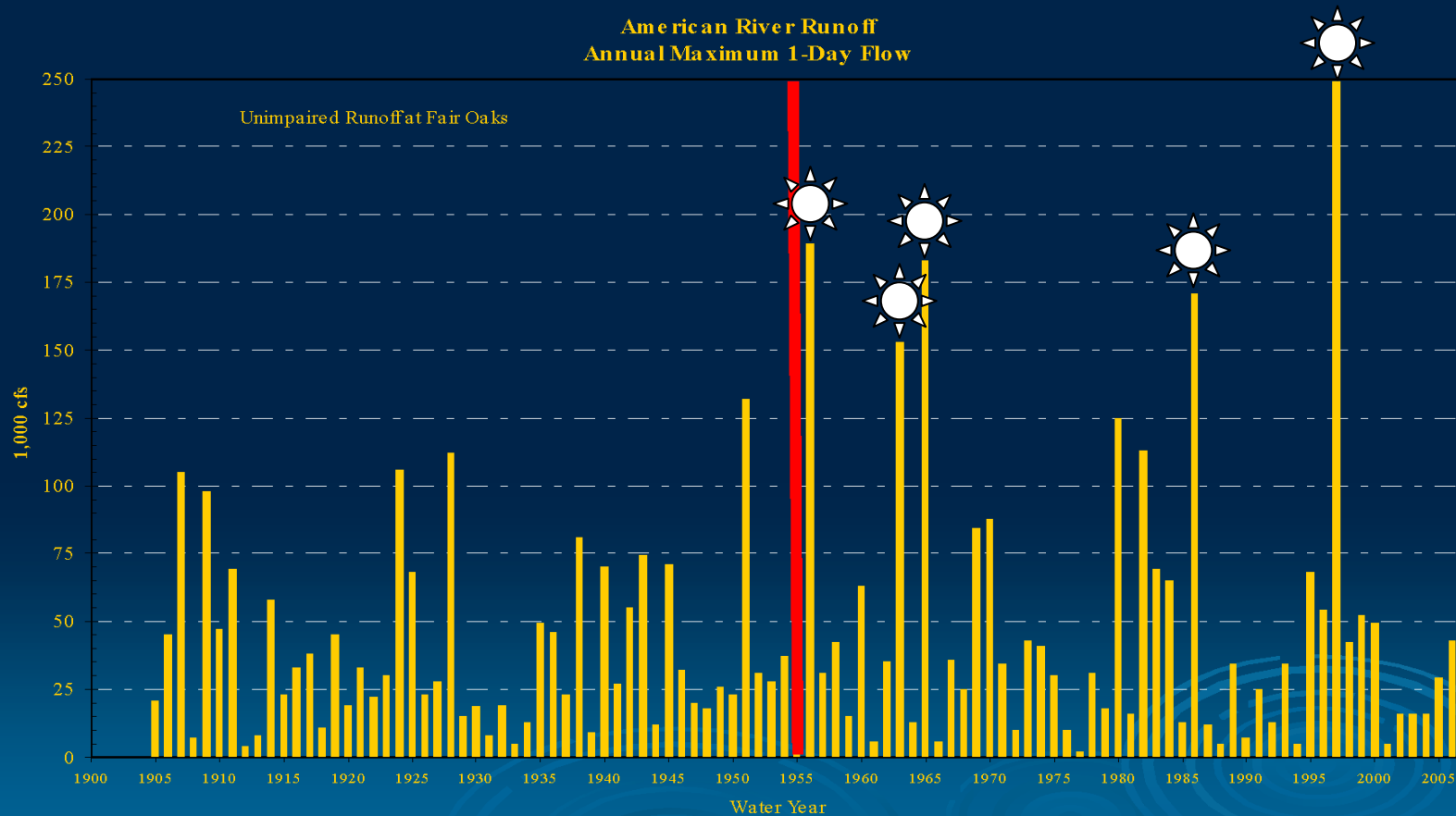
Observing systems:

1. Wind profiler/RASS
2. S-band radar
3. Disdrometer
4. Surface met
5. GPS-IWV
6. Rain gauges



A Different Flow Regime in the American River Basin?

Changes in Peak Flows American River



Red Line = Construction of Folsom Dam

Lester Snow, CA-DWR