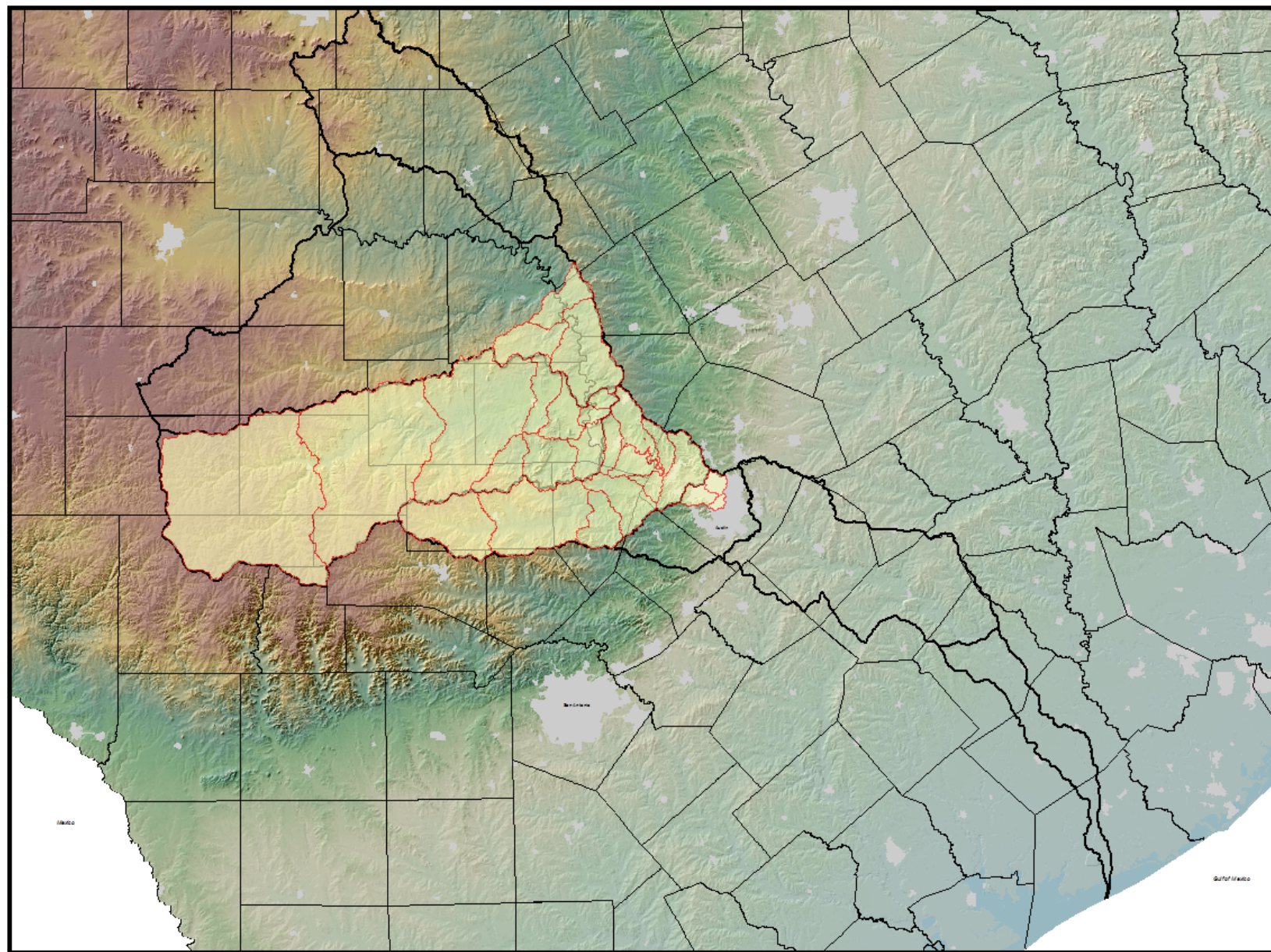


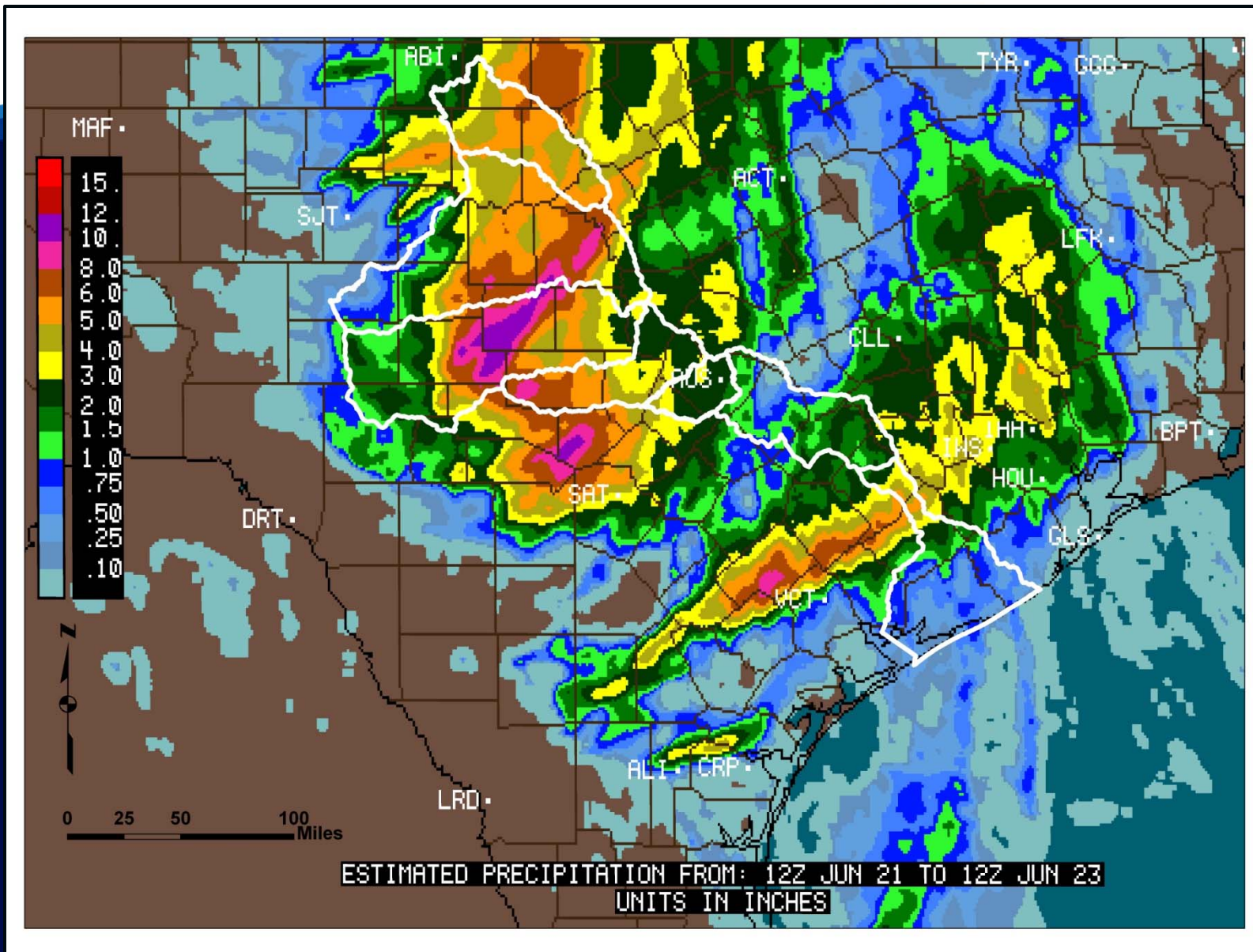
LCRA Hydromet system in the 1980's – 1990's



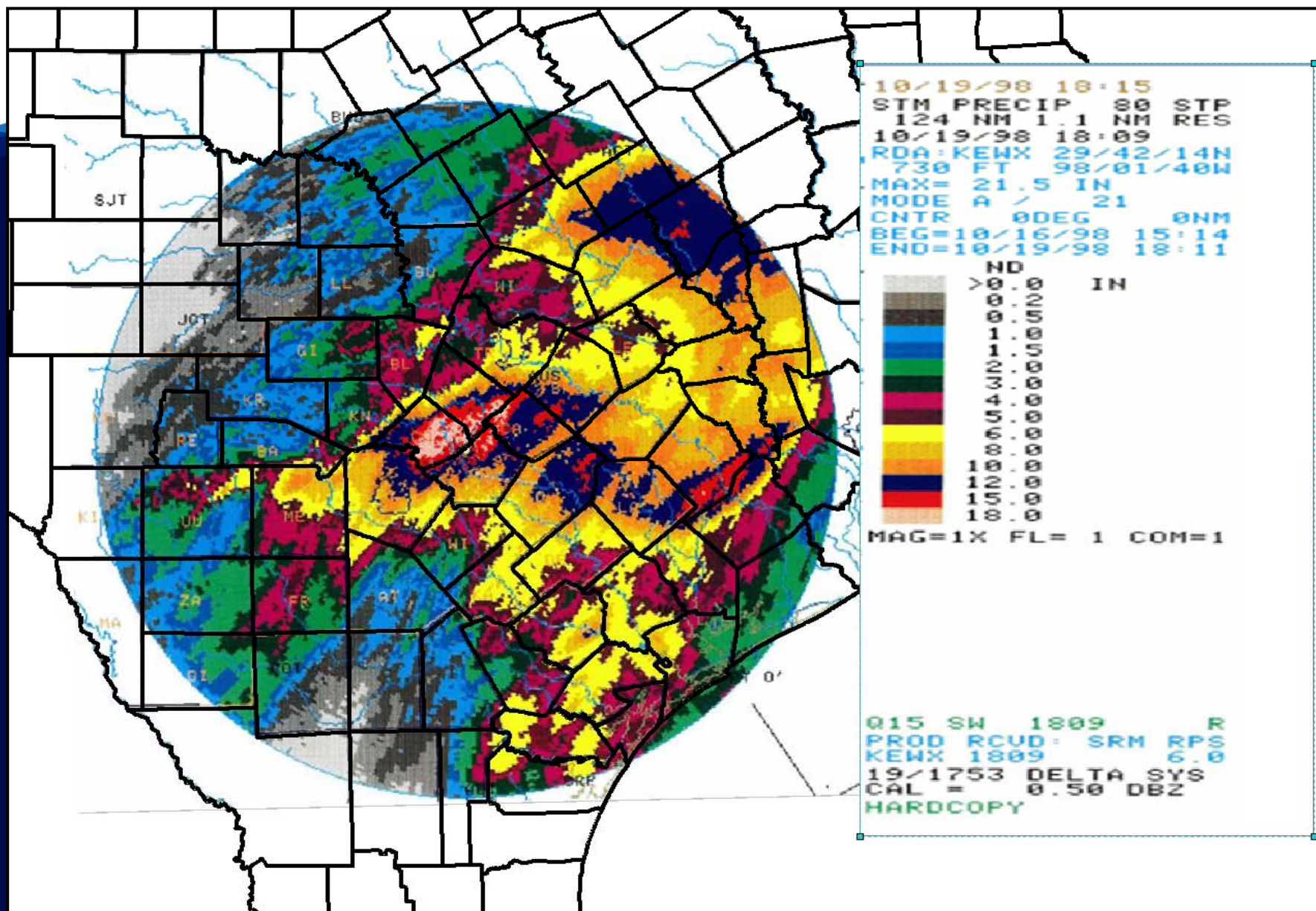


Early flood forecast model basins





## June 1997 Radar Storm Total



October 1998 Radar Storm Total



# Typical Hydromet stream gauge



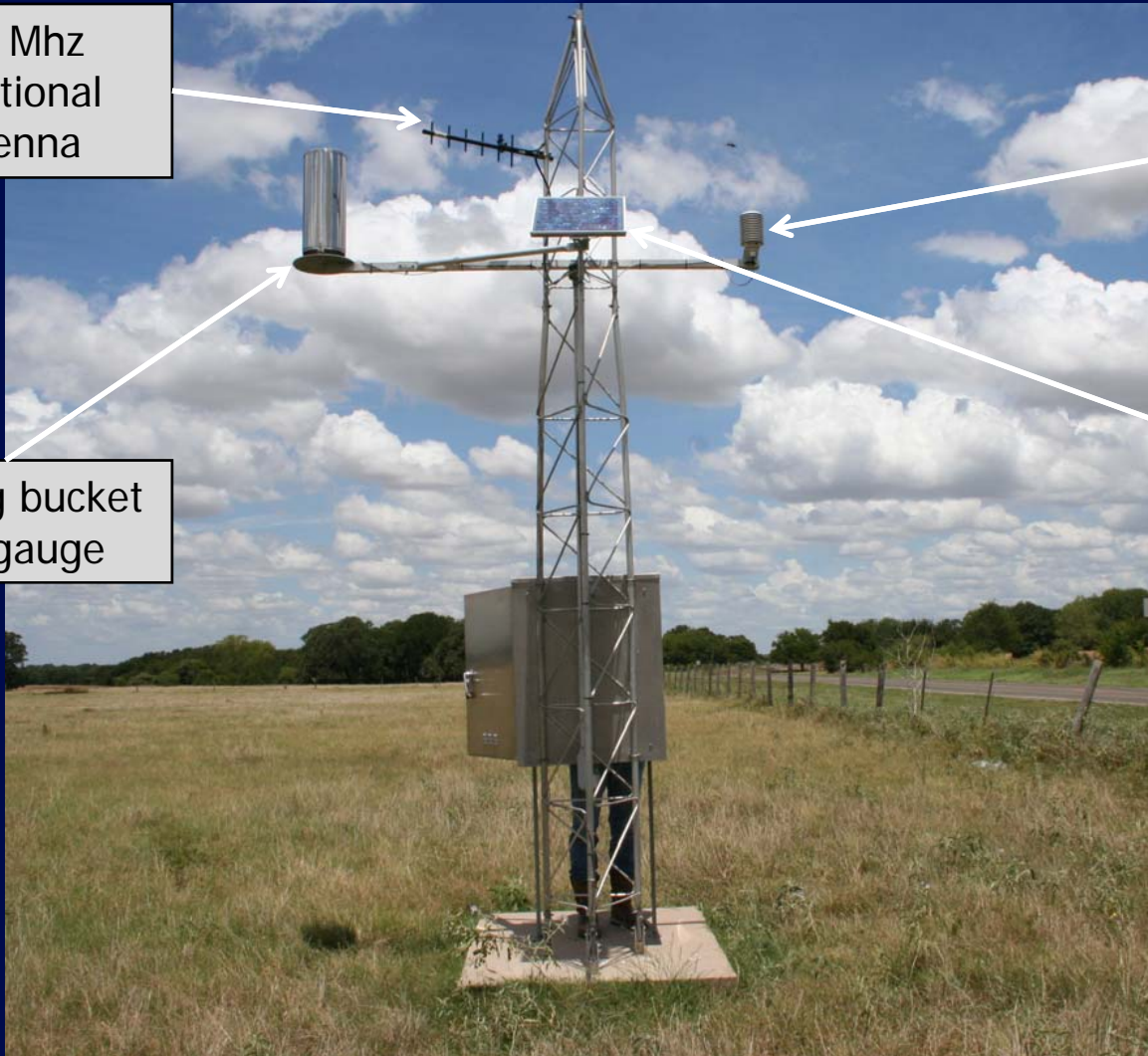
# Typical Hydromet rain gauge

900 Mhz  
directional  
antenna

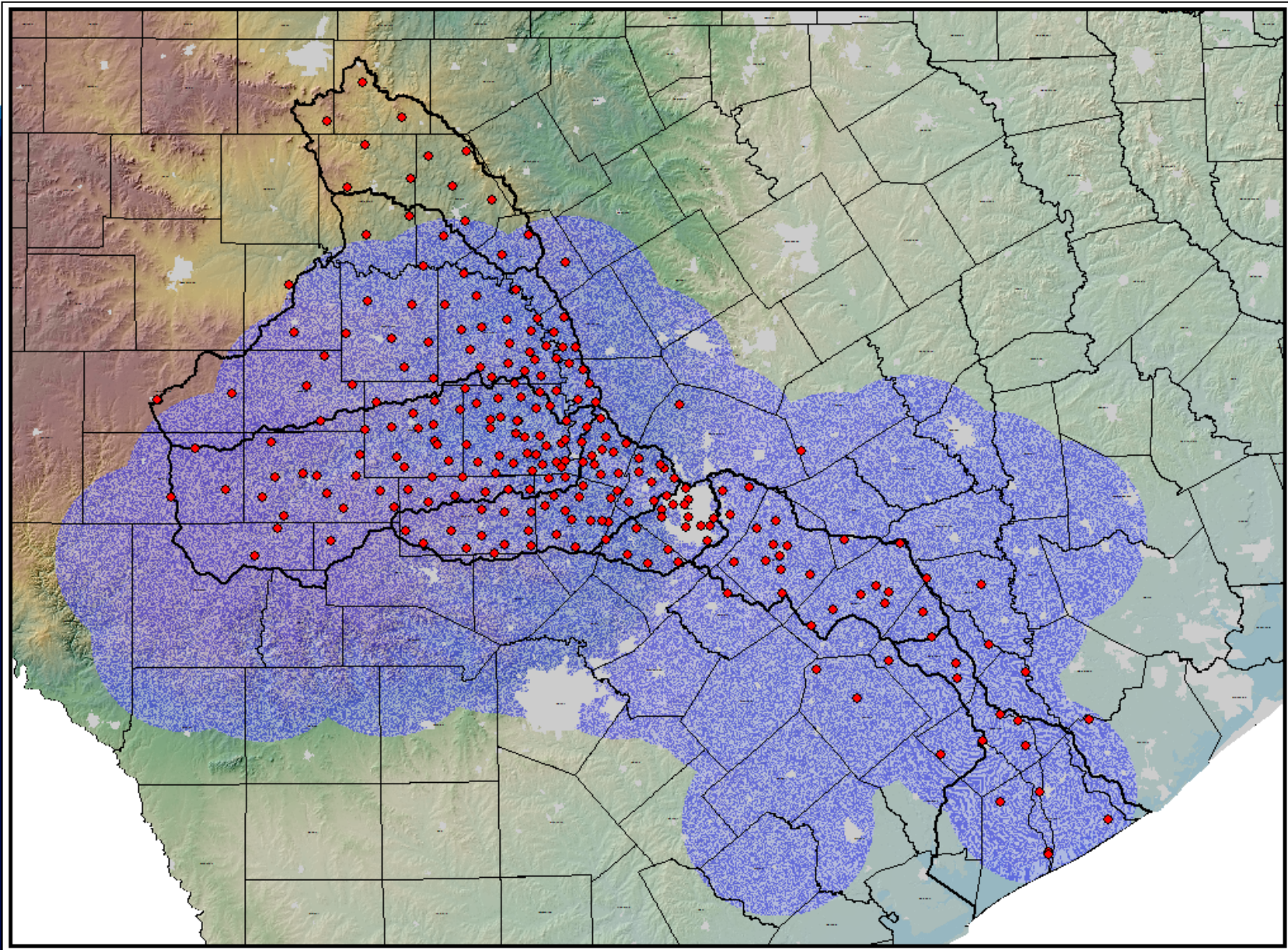
AT/RH probe

Tipping bucket  
rain gauge

Solar panel

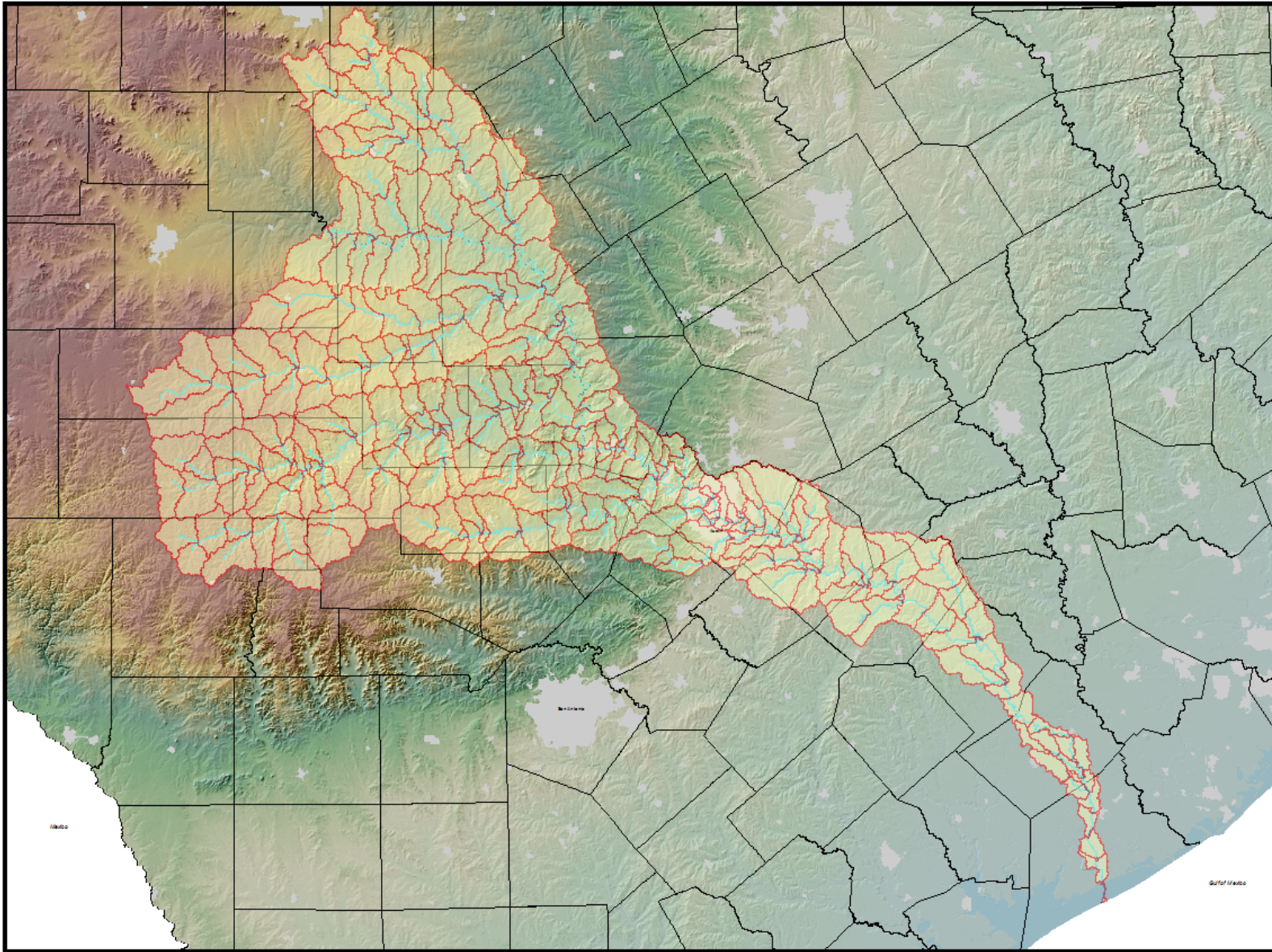






Hydromet system and Open Sky radio coverage in 2015





HEC HMS model sub basins



## LCRA Hydromet milestones

1982 – First LCRA radios installed for data telemetry at USGS stream gauges

1987 - Rain gauges installed around Highland Lakes

1993 – LCRA stream gauges installed on smaller tributaries

1998 - Hydromet Modernization/Expansion project begins

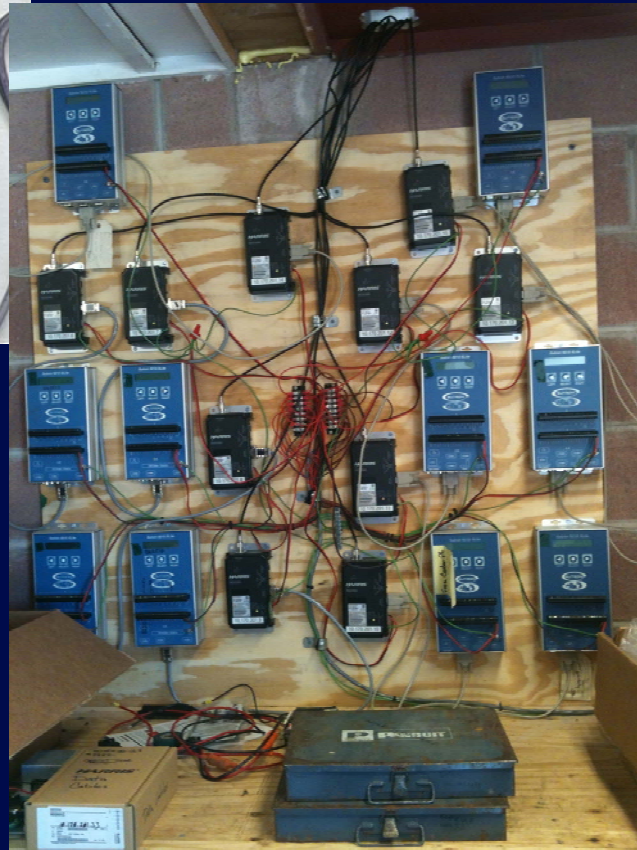
2006 – 15 minute data retrieval begins

2008 to Current - Drought underlines importance of data

2014 – Migration to Open Sky radio system



## LCRA Hydromet Open Sky radio migration project



Summer 2011-Phase 1 software development begins to build PPP driver for Sutron 9210 RTU

September 2014-Phase 1 testing begins on test bench RTUs

October 2014-Phase 2-first field deployment of new radios/RTU software begins on Hydromet production system

December 2014- Phase 3 installations complete and acceptance testing begins





## Using the Hydromet as a data collection framework

- Texas ET Network
- Water My Yard Project

TEXAS A&M AGRILIFE EXTENSION
 Irrigation Technology Program  
Texas ET Network

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October 20, 2015

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Austin (LCRA Redbud) Weather Station  
 Station Sponsored by : LCRA  
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**Select Turf Growth Conditions (Step 1)**

1. Sunlight Exposure Full Sun

2. Turf Type St. Augustine

**Water Requirement for Turf Type (7 Days)** 0.37 (in)

**Precipitation Parameters (Step 2)**

3. Effective Rainfall 0 (in)

**Irrigation Requirement (Water Req. - Rainfall)** 0.37 (in)

**Calculate Watering Run Time (Step 3)**

4. Sprinkler Precipitation Rate 0 (in/hr)

Calculate
Total Run Time (min)  
Irrigations/Week (count)  
Run Time/Irrigation (min)

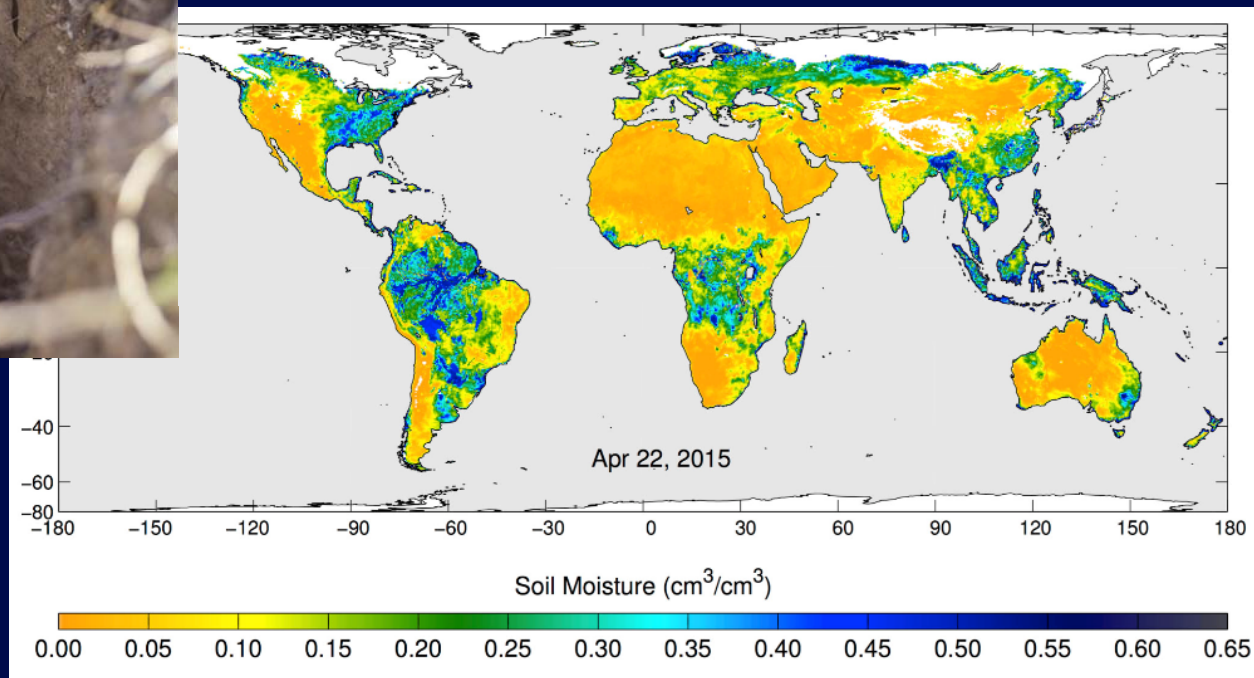
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## Using the Hydromet as a data collection framework

- UT BEG
- Texas Soil Observation Network
- NASA SMAP Project



# Questions and Comments

[Hydromet.lcra.org](http://Hydromet.lcra.org)