

Precipitation Network and 2016 Monitoring Year

Amanda White



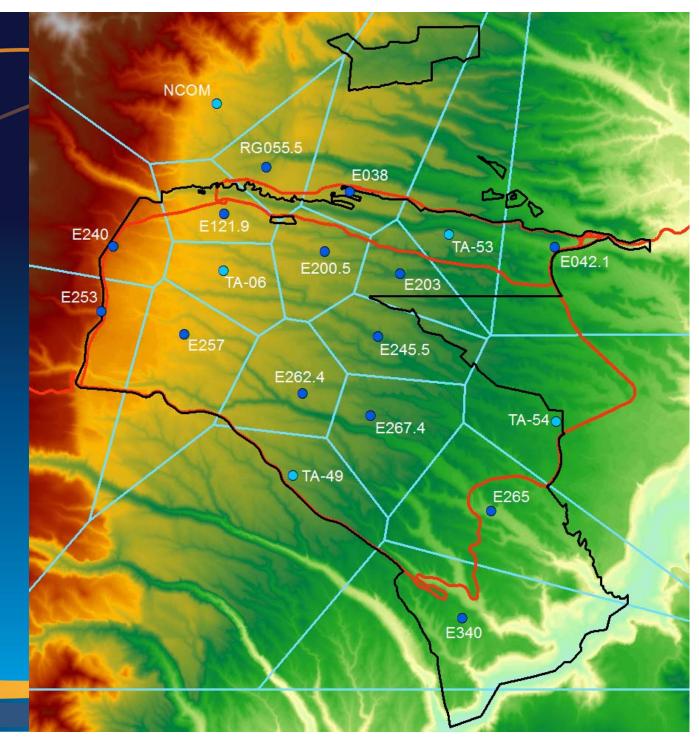


Summer Precipitation Network

Legend

- Met Towers
- ExtendedNetwork
- LANL Boundary
- Major Roads
- Summer
 Theissen
 Polygons

Elevation

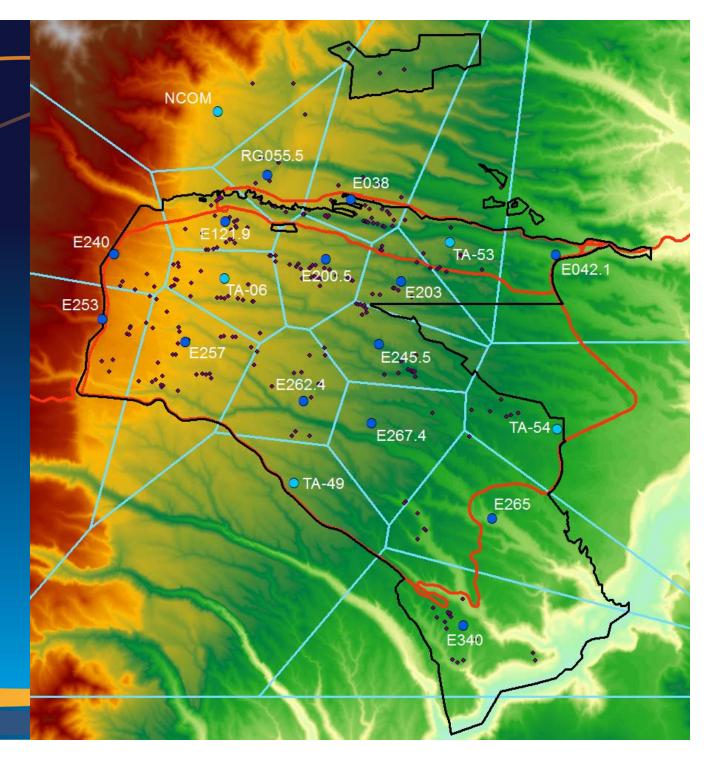




Summer Precipitation Network

Legend

- Met Towers
- ExtendedNetwork
- LANL Boundary
- Major Roads
- Summer
 Theissen
 Polygons
- Elevation
- SMASamplers

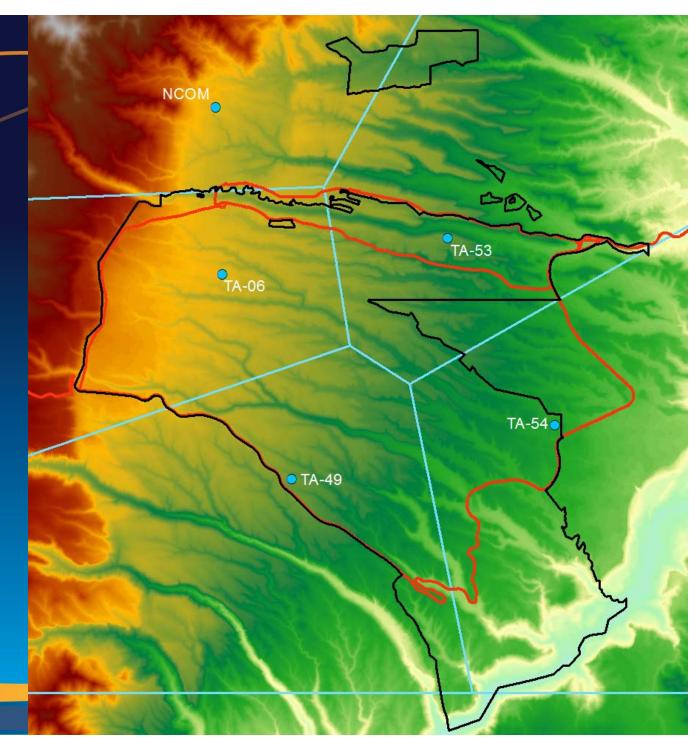


Winter Precipitation Network

Legend

- O Me
- **Met Towers**
- LANL Boundary
- Major Roads
- Winter
 Theissen
 Polygons

Elevation

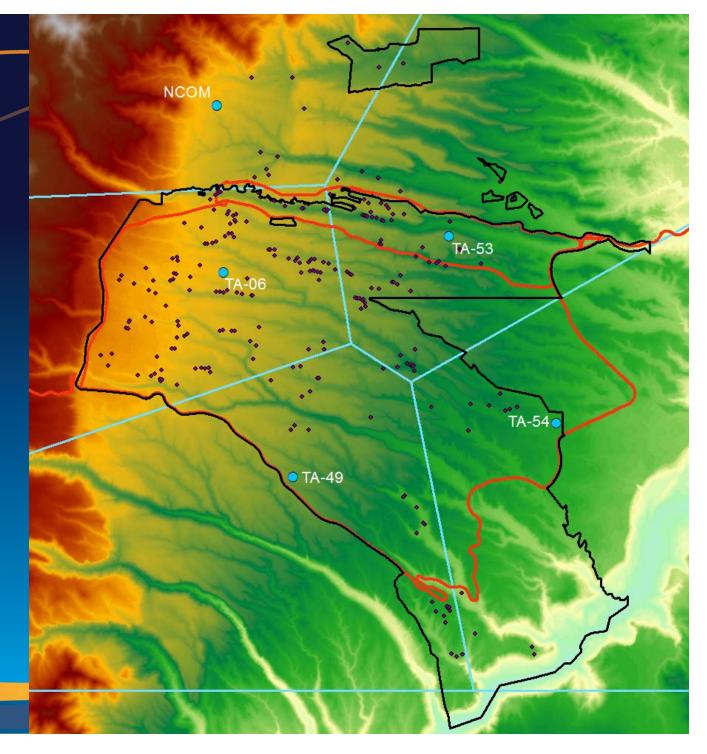




Winter Precipitation Network

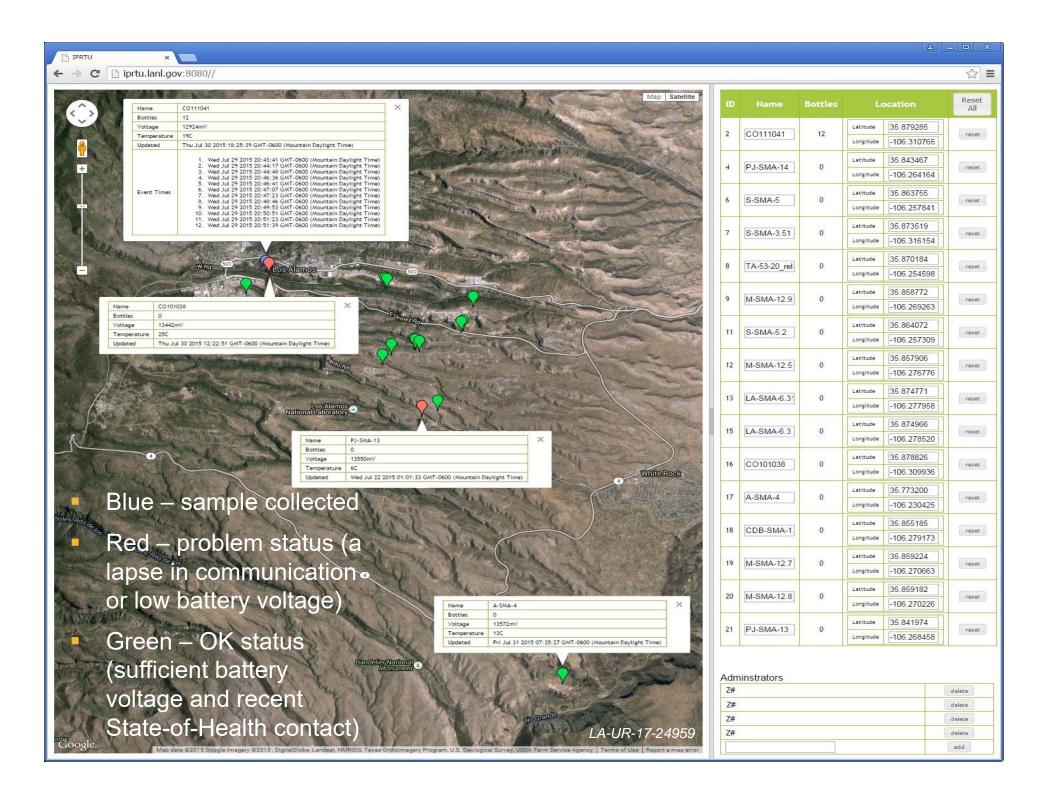
Legend

- Met Towers
- LANL Boundary
- Major Roads
- Winter
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 Polygons
- Elevation
- SMASamplers











Remote Telemetry Units (RTUs)

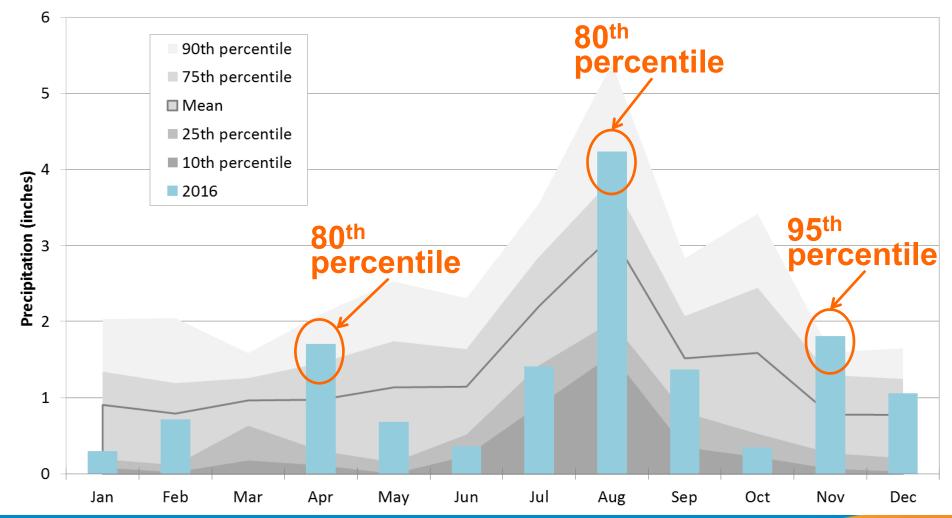
- Currently
 - 65 locations
 - Upgrading hardware and software
- Future
 - 100+ locations by end of monitoring year
 - Determine cause of false alarms
 - Refine programming such that network can heal mostly on its own





2016 Monitoring Year



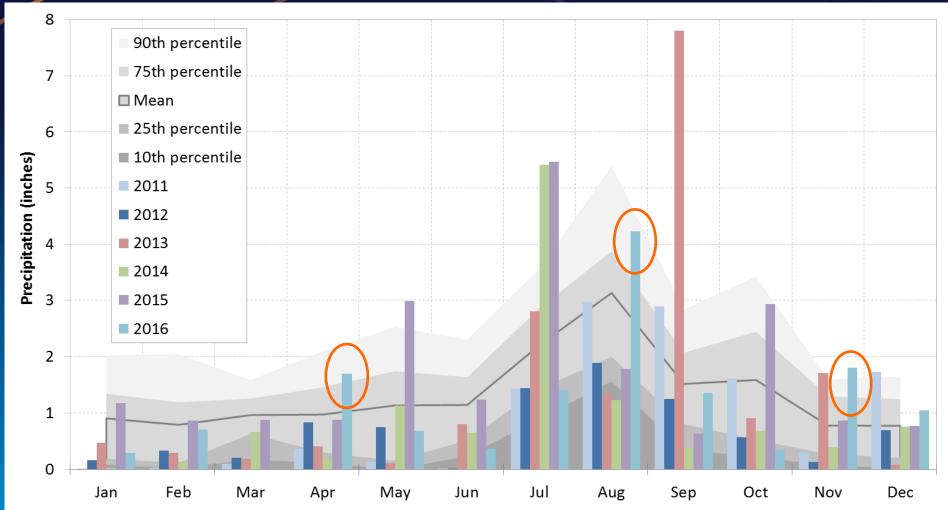






2016 Compared to Past Years

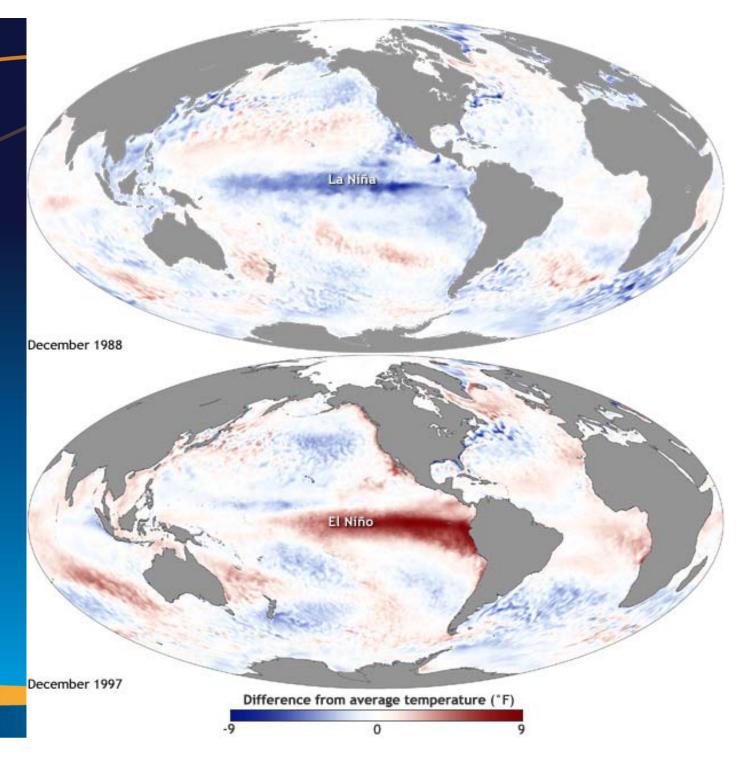








ENSO
(El Niño
Southern
Oscillation)

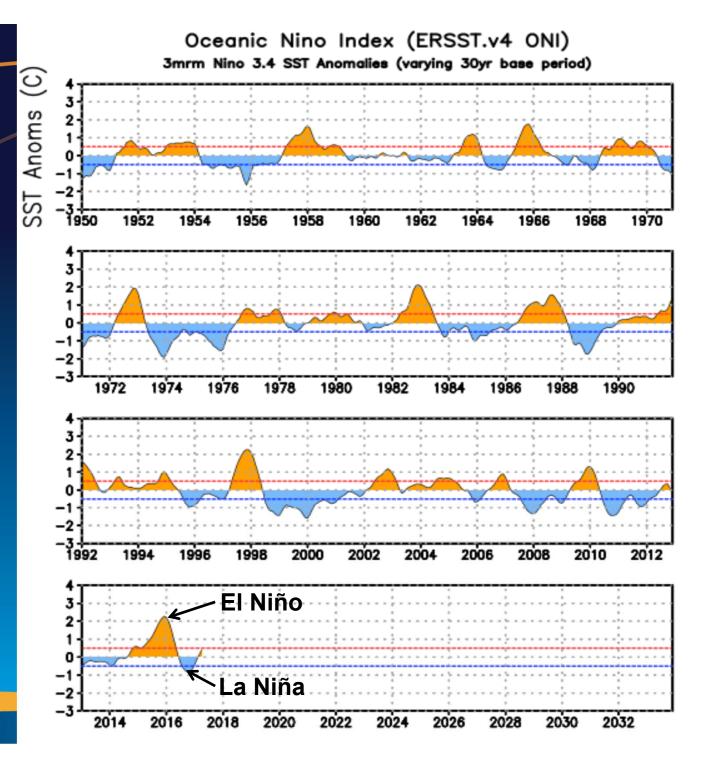




2016 ENSO Conditions

*Anomalies are computed with respect to the 1981-2010 averages by NOAA Climate Prediction Center

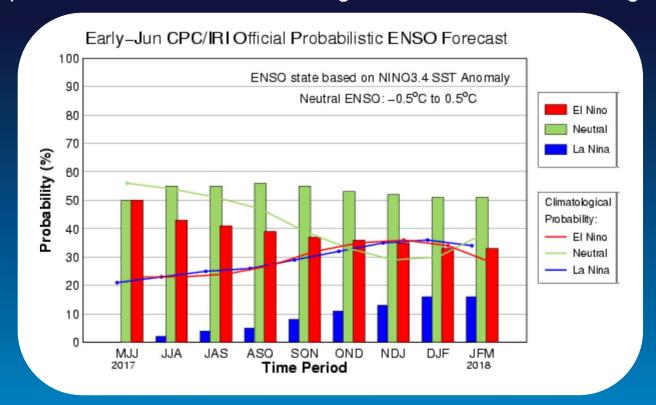




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Current ENSO Conditions

ENSO-neutral is favored (~50 to 55% chance) through the Northern Hemisphere fall 2017, with diminishing chances for El Niño through 2017.

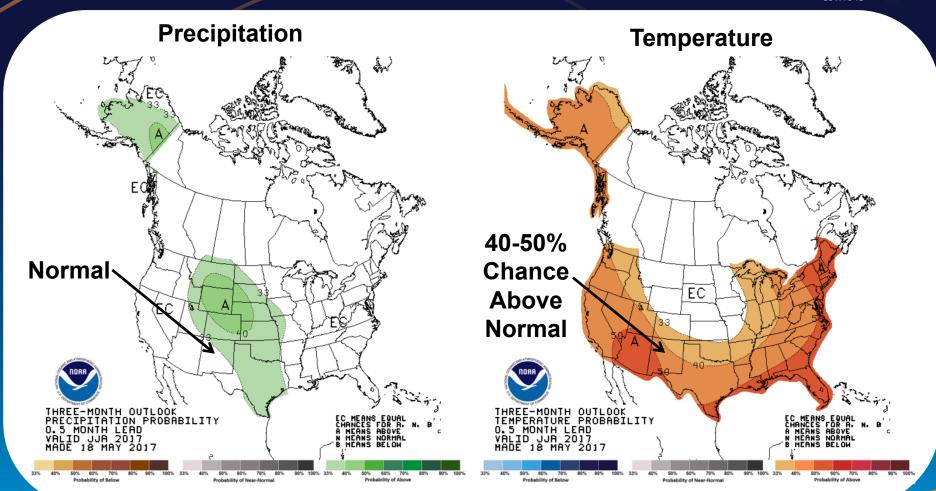


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U.S. Seasonal Outlooks





*NOAA Climate Prediction Center

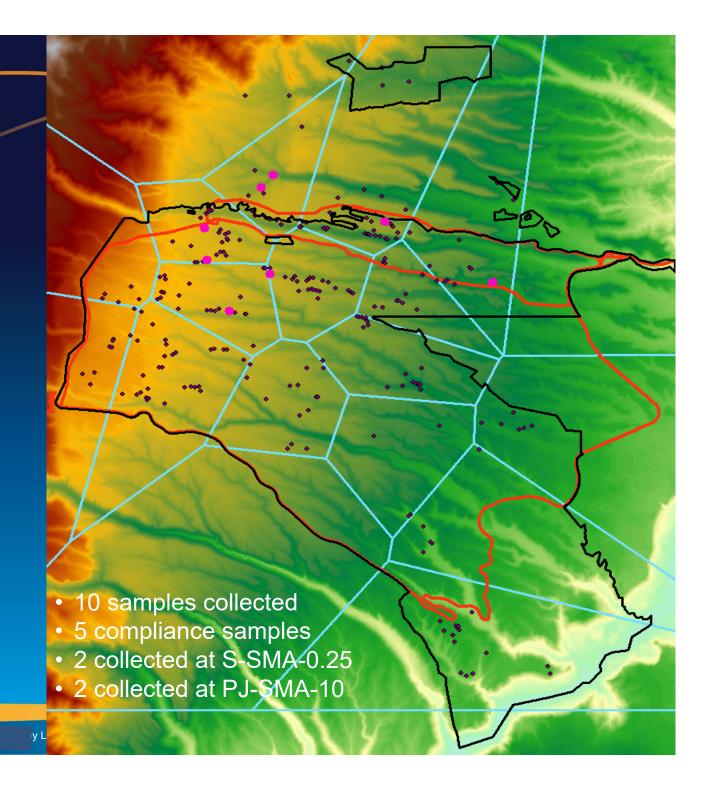




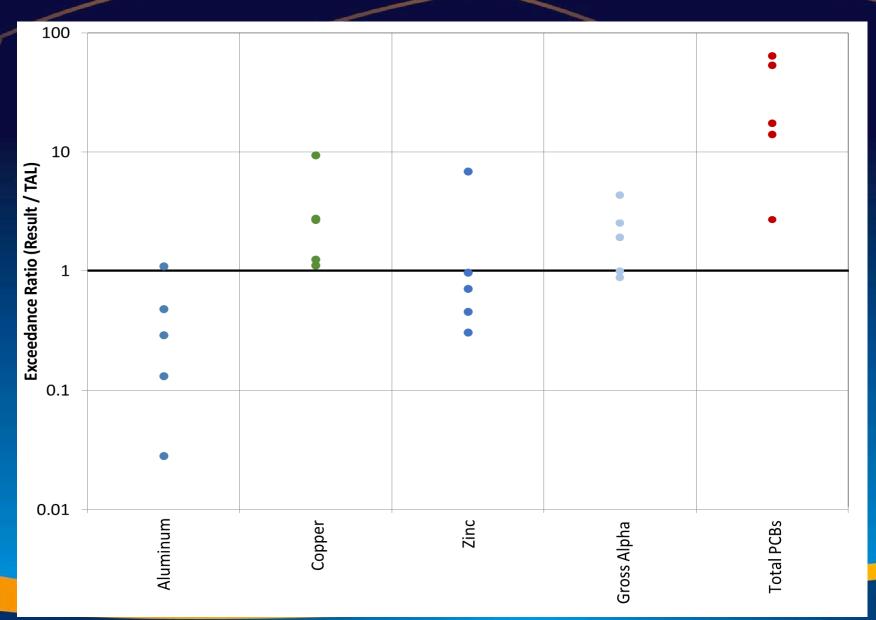
IP Samples Collected in 2016

Legend

- LANL
 Boundary
- Major Roads
- Summer
 Theissen
 Polygons
- Elevation
- SMASamplers
- SMASamplers thatCollected in2016



IP Results from 2016



1P Results from 2016



- Aluminum and gross alpha associated with local geology
- Copper and zinc associated with urban areas
- PCBs associated with humans (in the atmosphere, precipitation, and runoff)



