

Reservations For Six?

Conquer Ag's Cycles
STRATEGIES TO DRIVE
YOUR FARM'S PERFORMANCE

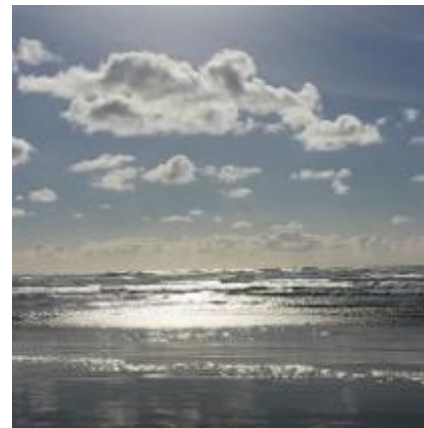


Hosted by:
dtm The PROGRESSIVE
FARMER

Dec. 4-6, 2017



Bryce Anderson
DTN Sr Ag Met



Lakeside Topics

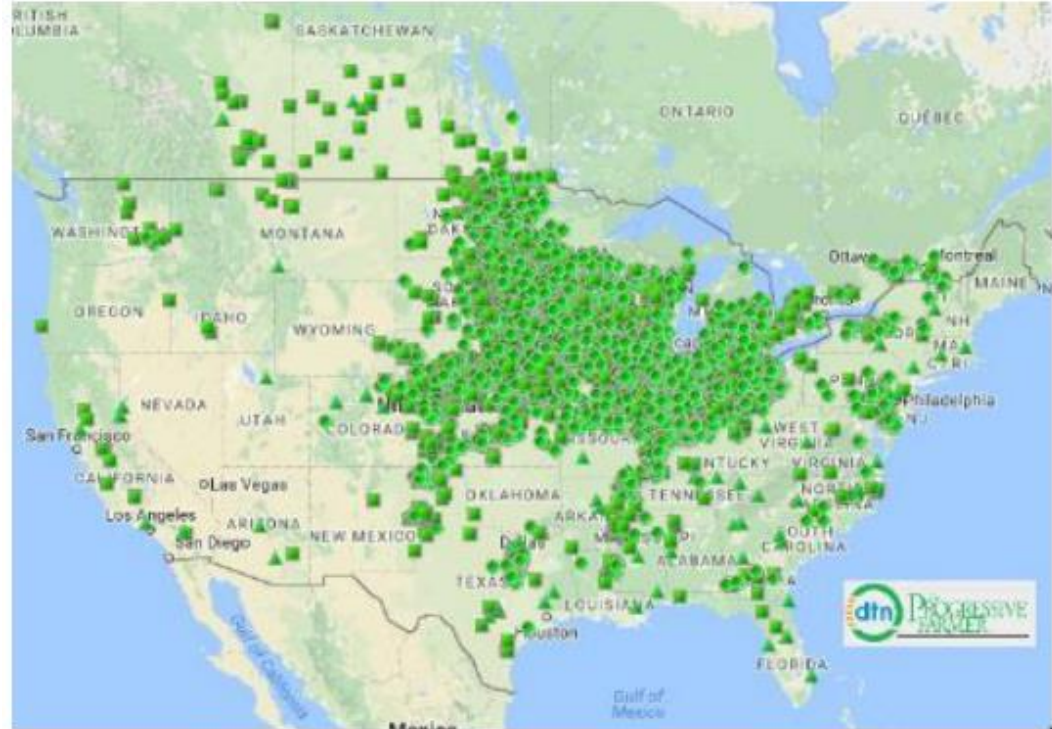


- Weather Station Performs
- Summer 2017 Review
- La Nina Sets In
- A Forecast or 2
- International

DTN Weather Station Network



DTN Weather Station Network



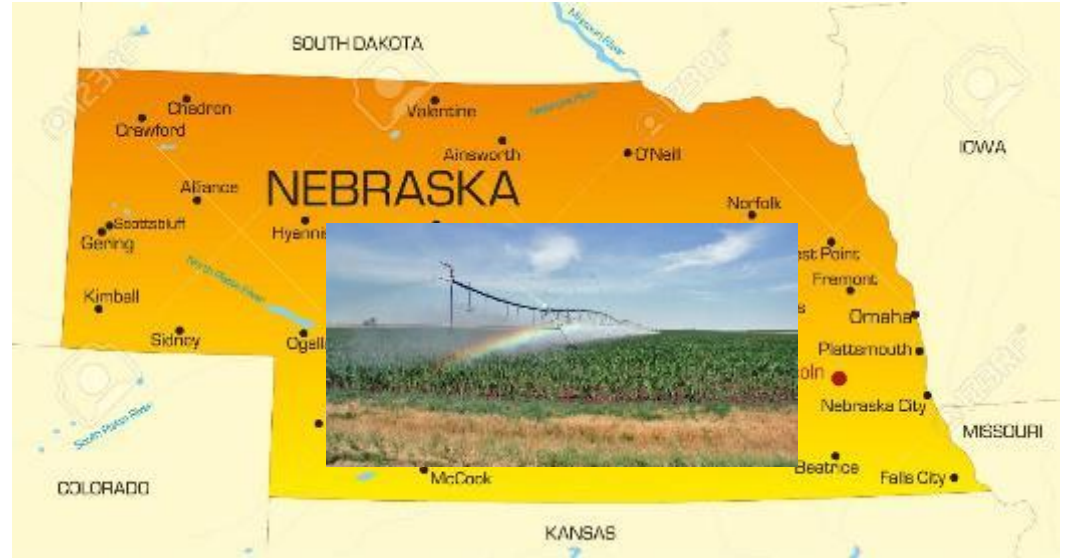
Stations in U.S., Canadian Prairies, Eastern Canada.

DTN Weather Station Network



- Irrigation Management
- Harvest Decisions
- Chemical Safety

DTN Weather Station Network



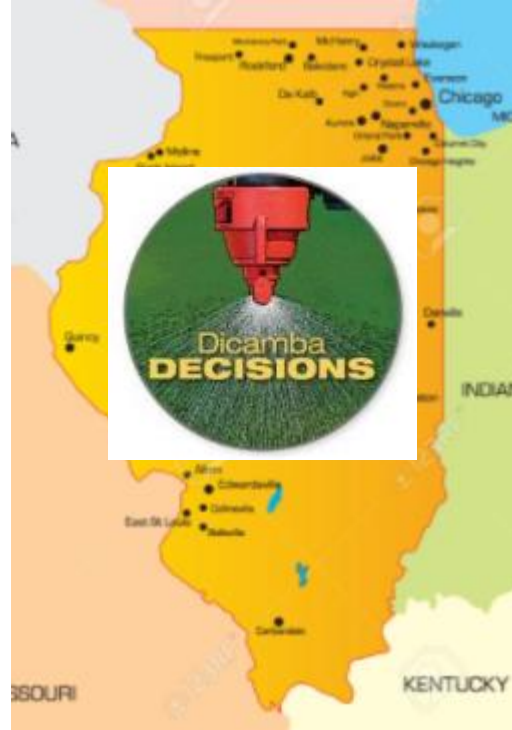
Nebraska—Center Pivot
Irrigation Management at
Distance

DTN Weather Station Network



Minnesota—more propane for grain drying due to lower GDDs.

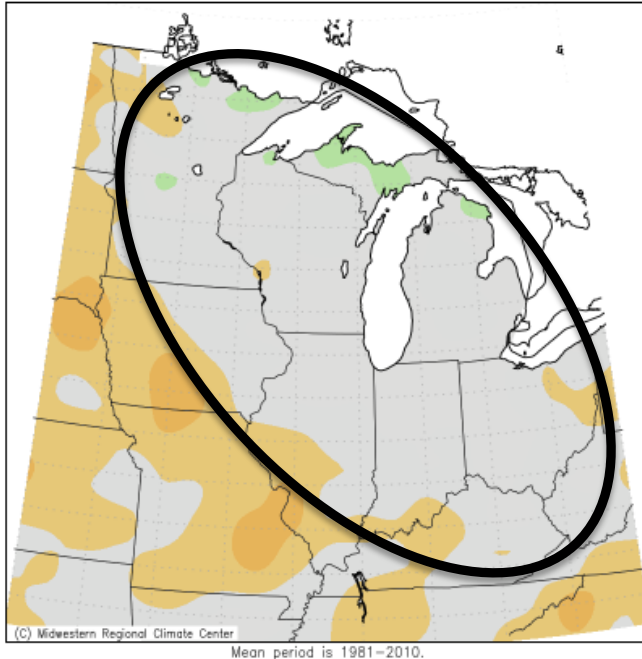
DTN Weather Station Network



Network
enabled safe,
successful
Dicamba
spray
program.

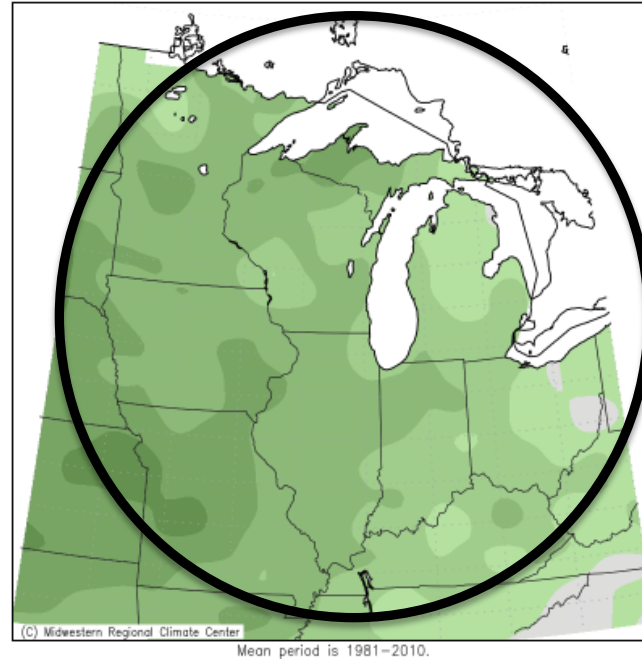
Summer 2017 Temperatures

Average Temperature (°F): Departure from Mean
July 1, 2017 to July 31, 2017



July Temps

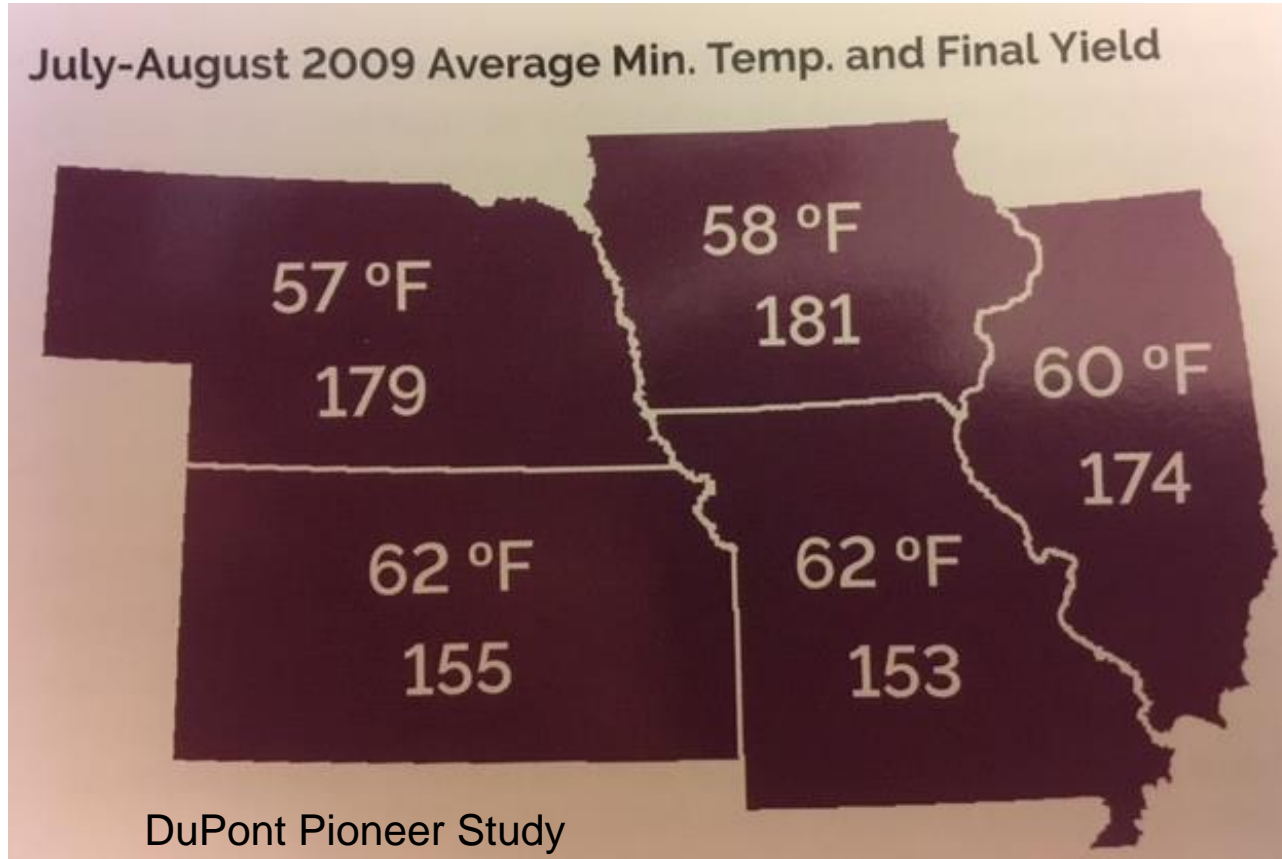
Average Temperature (°F): Departure from Mean
August 1, 2017 to August 31, 2017



August Temps

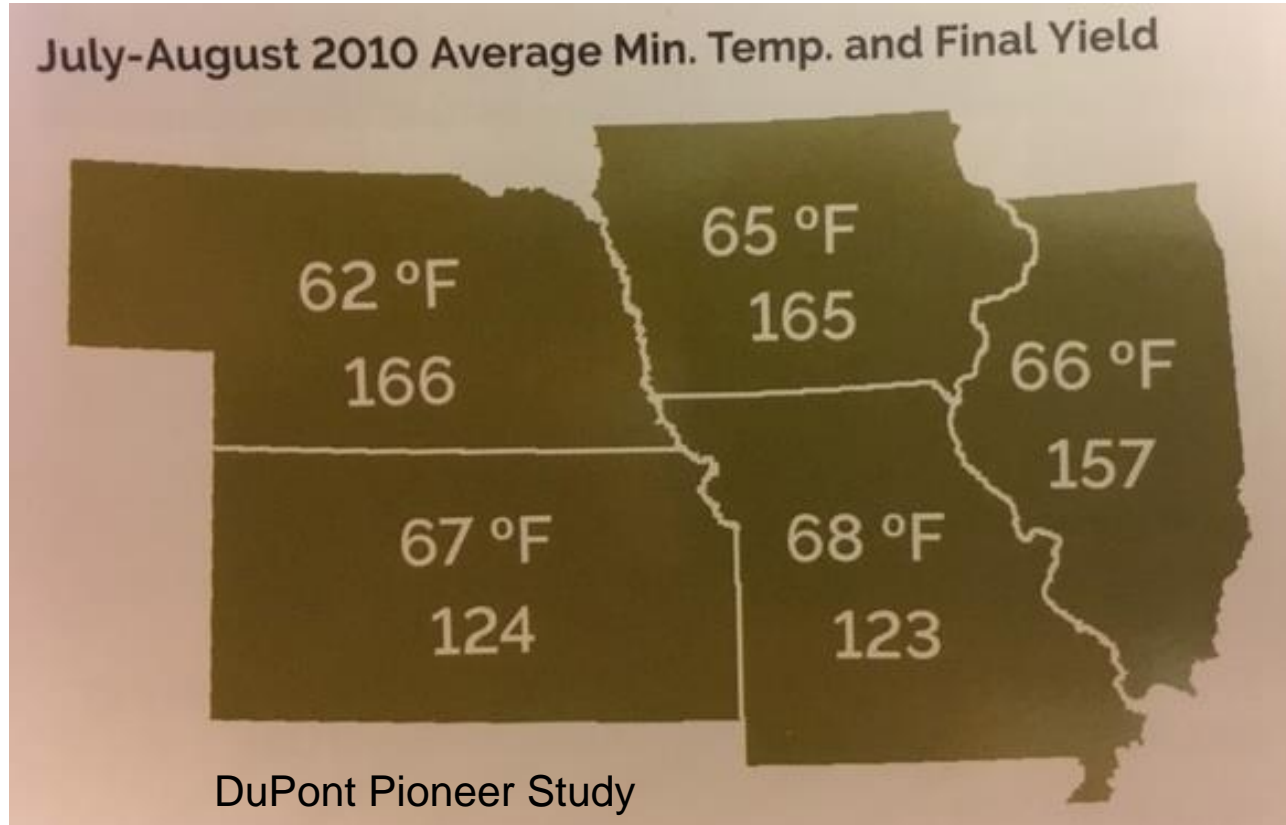
Mostly
average in
July.
Below
normal
entire
region in
August.

Corn Yield Study '09-'10



Mild
temps
extended
fill time.

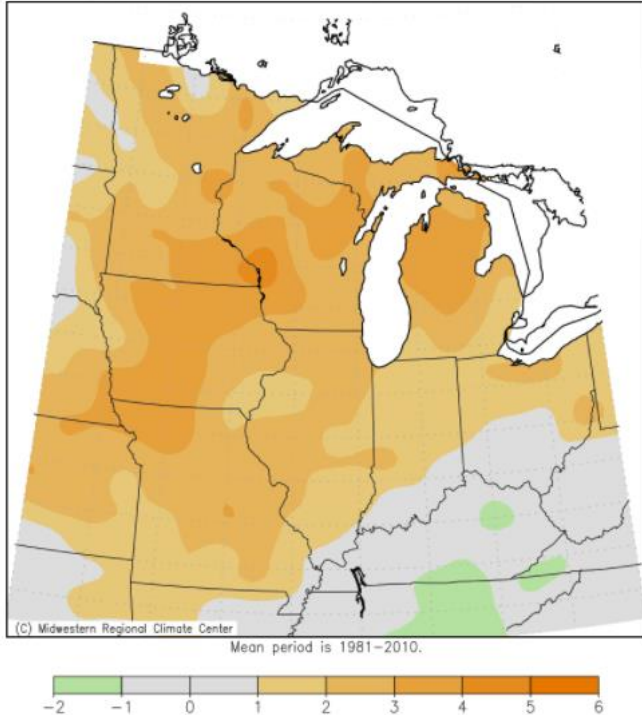
Corn Yield Study '09-'10



Warmer
temps
reduced
fill time.

September to Remember

Average Temperature (°F): Departure from Mean
September 1, 2017 to September 30, 2017



Temps vs Normal

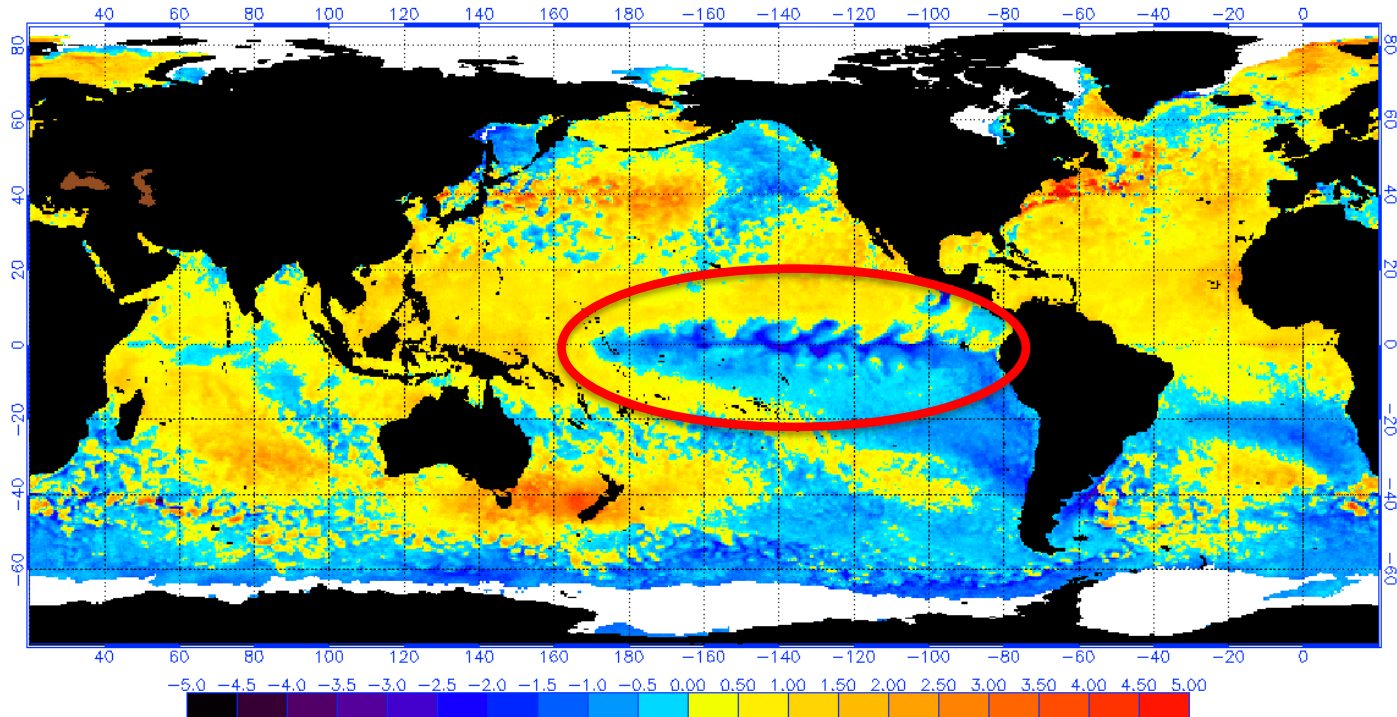


Mild temps
kept the
season
going—
even
replant
acres.



La Nina Sets In

NOAA/NESDIS 50 KM GLOBAL ANALYSIS: SST Anomaly (degrees C), 12/4/2017
(white regions indicate sea-ice)

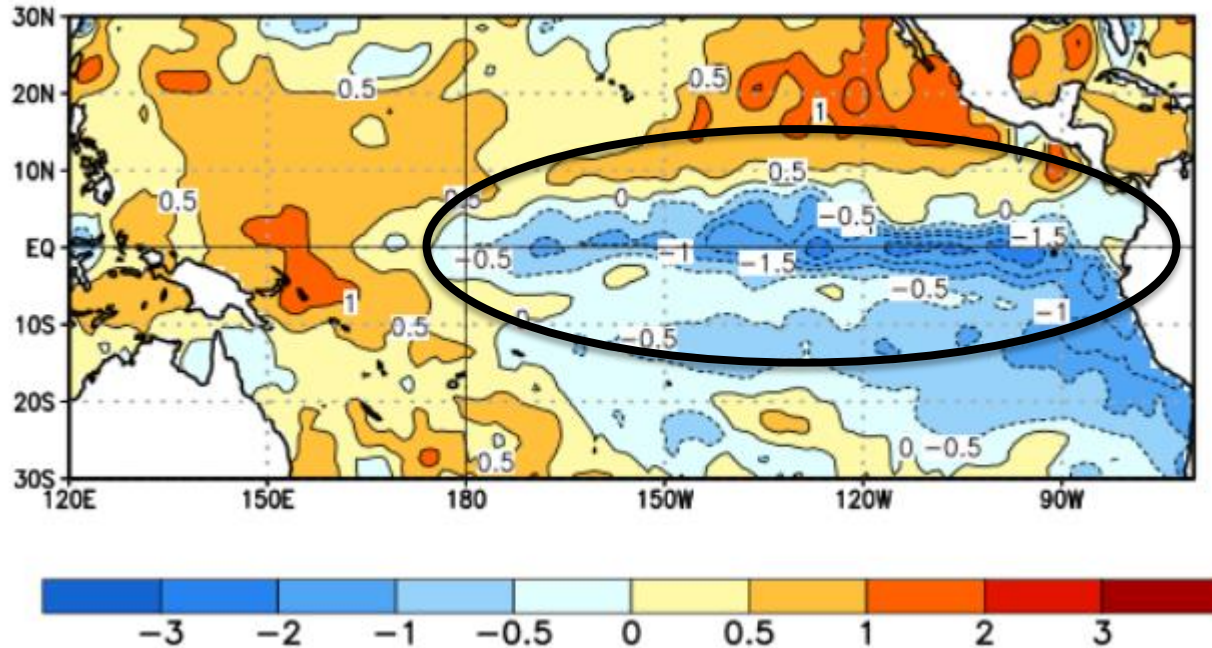


1 to 2.5 C
below normal
in eastern
and central
Pacific. (La
Nina base
value -1.0 C)



La Nina Sets In

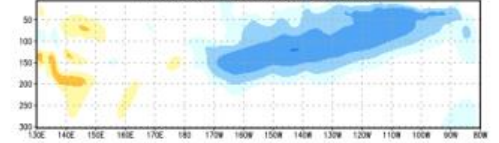
Average SST Anomalies
5 NOV 2017 – 2 DEC 2017



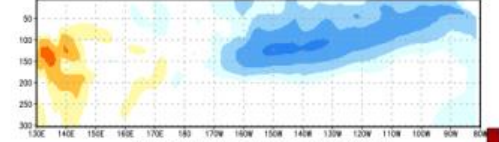
Surface and subsurface cool.

EQ. Subsurface Temperature Anomalies (deg C)

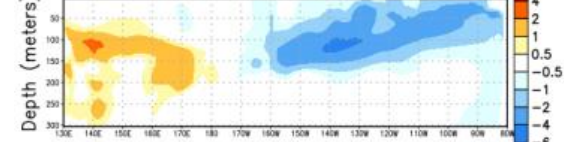
Three-pentad ave. centered on 10 OCT 2017



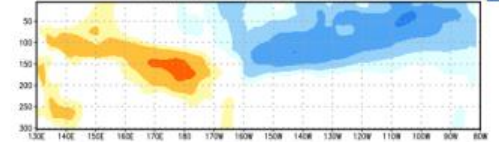
Three-pentad ave. centered on 25 OCT 2017



Three-pentad ave. centered on 09 NOV 2017



Three-pentad ave. centered on 24 NOV 2017





La Nina Sets In

Southern Oscillation Index



Comparison
of Tahiti and
Darin
barometric
pressures.

TAHITI > darwin = EAST to west winds = LA NINA (+)

DARWIN > tahiti = WEST to east winds = EL NINO (-)



La Nina Sets In

Southern Oscillation Index



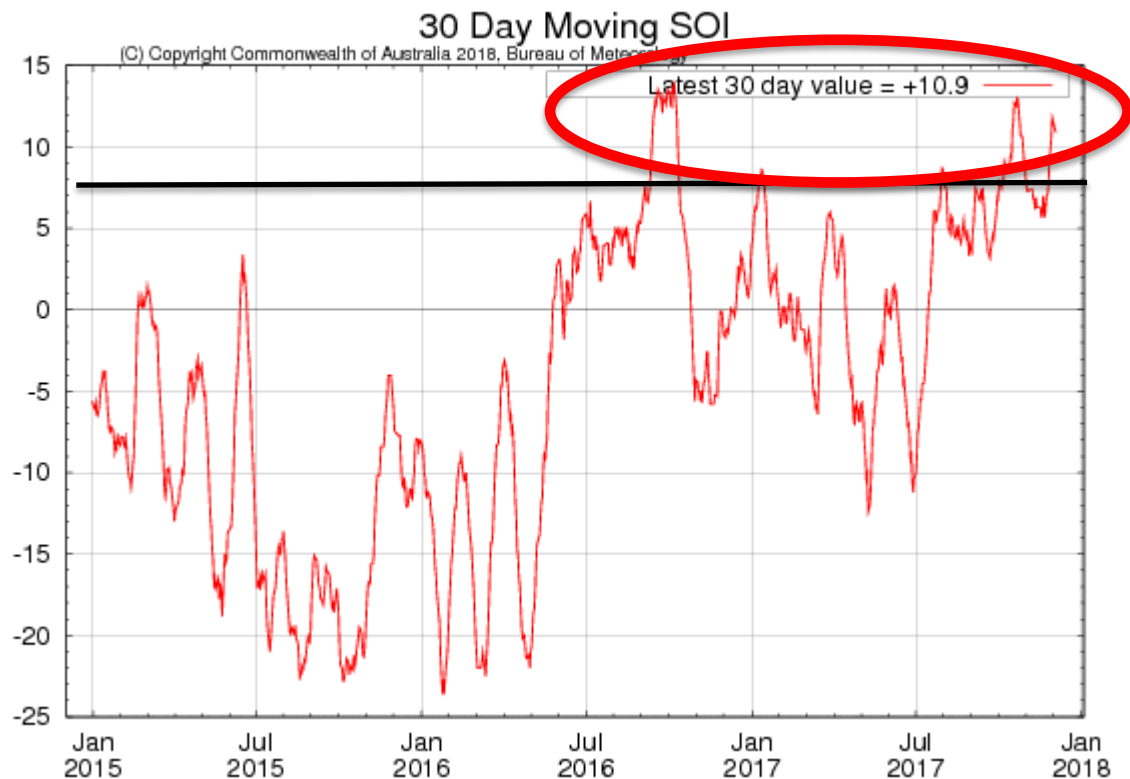
Comparison
of Tahiti and
Darin
barometric
pressures.

TAHITI > darwin = EAST to west winds = LA NINA (+)

DARWIN > tahiti = WEST to east winds = EL NINO (-)



La Nina Sets In

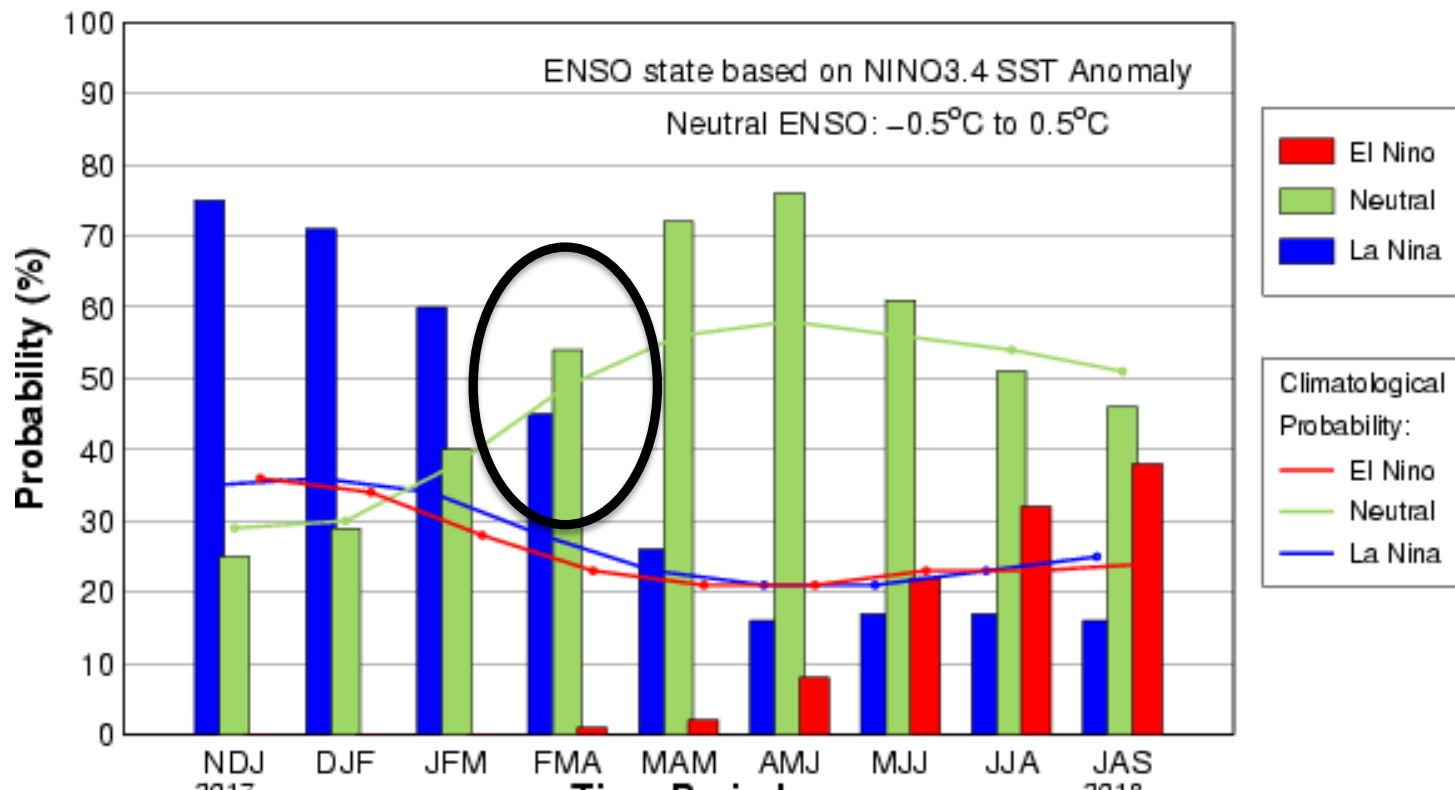


30 and 90-day averages above La Nina threshold.



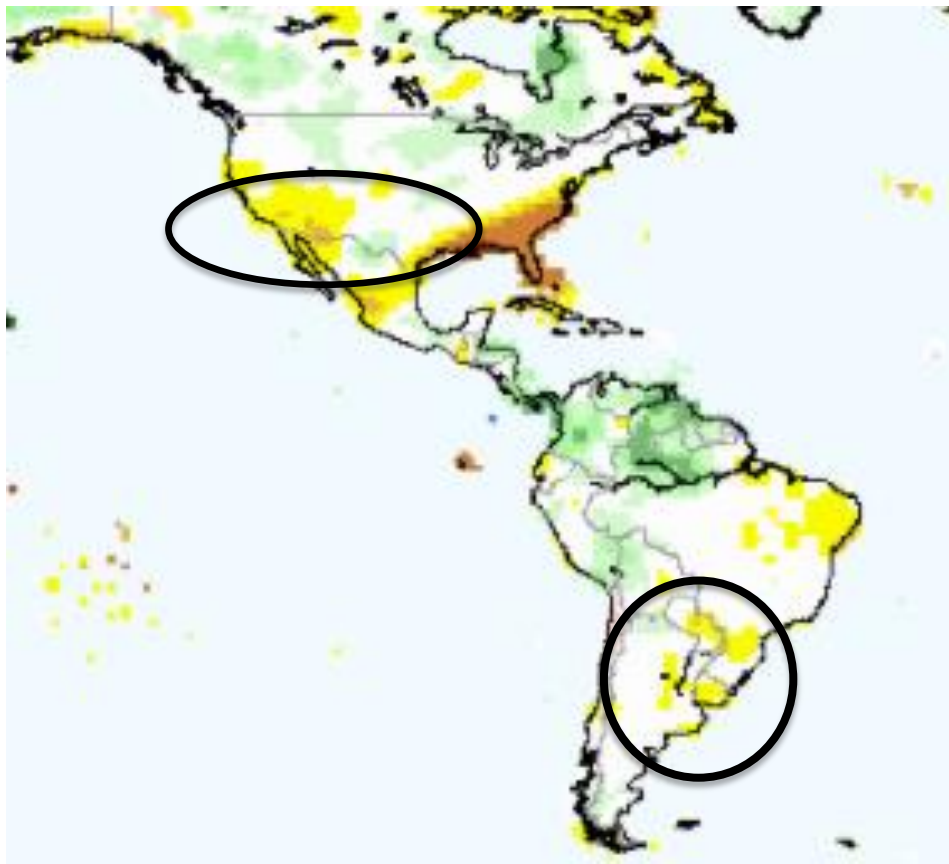
La Nina Sets In

Mid-Nov IRI/CPC Model-Based Probabilistic ENSO Forecast





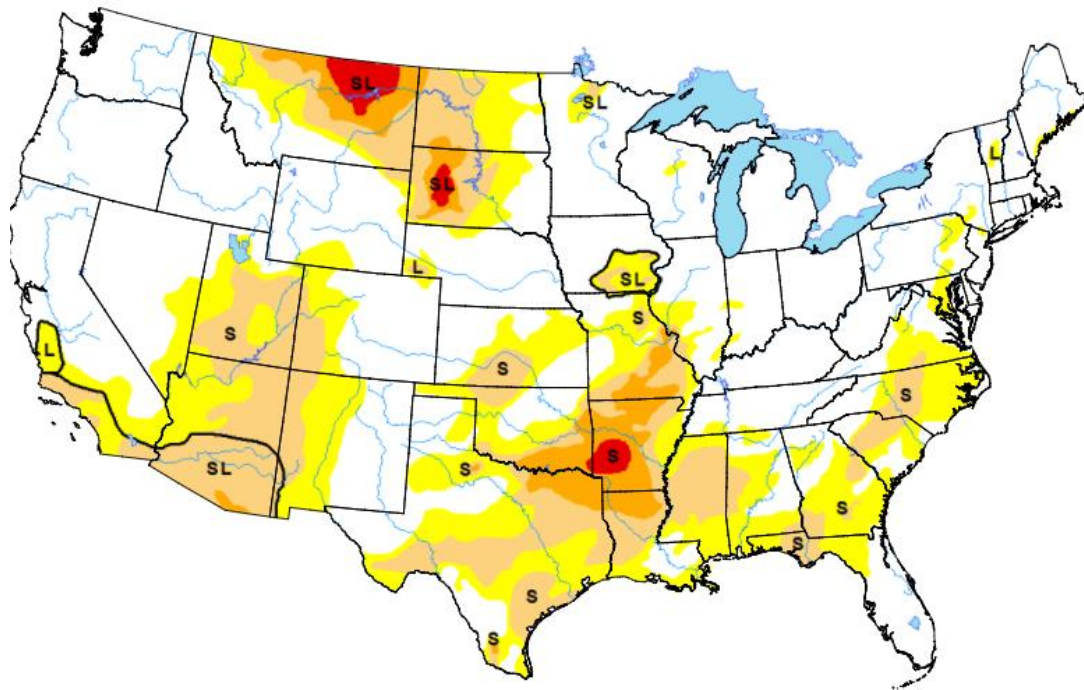
La Nina Sets In



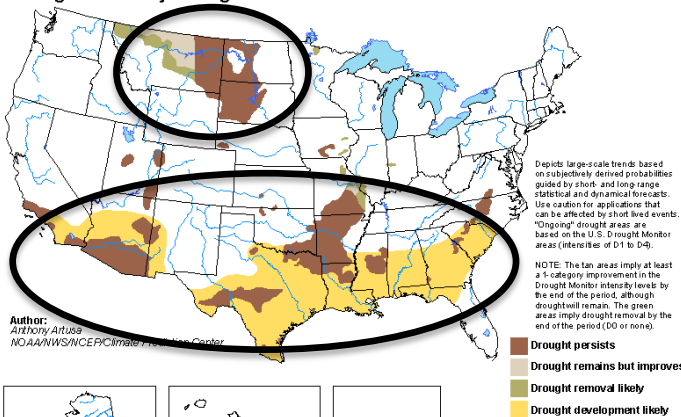
Dry trend for southern U.S.—also southern Brazil and portions of Argentina.



Drought Monitor



U.S. Seasonal Drought Outlook Valid for November 16 - February 28, 2018
Drought Tendency During the Valid Period
Released November 16, 2017



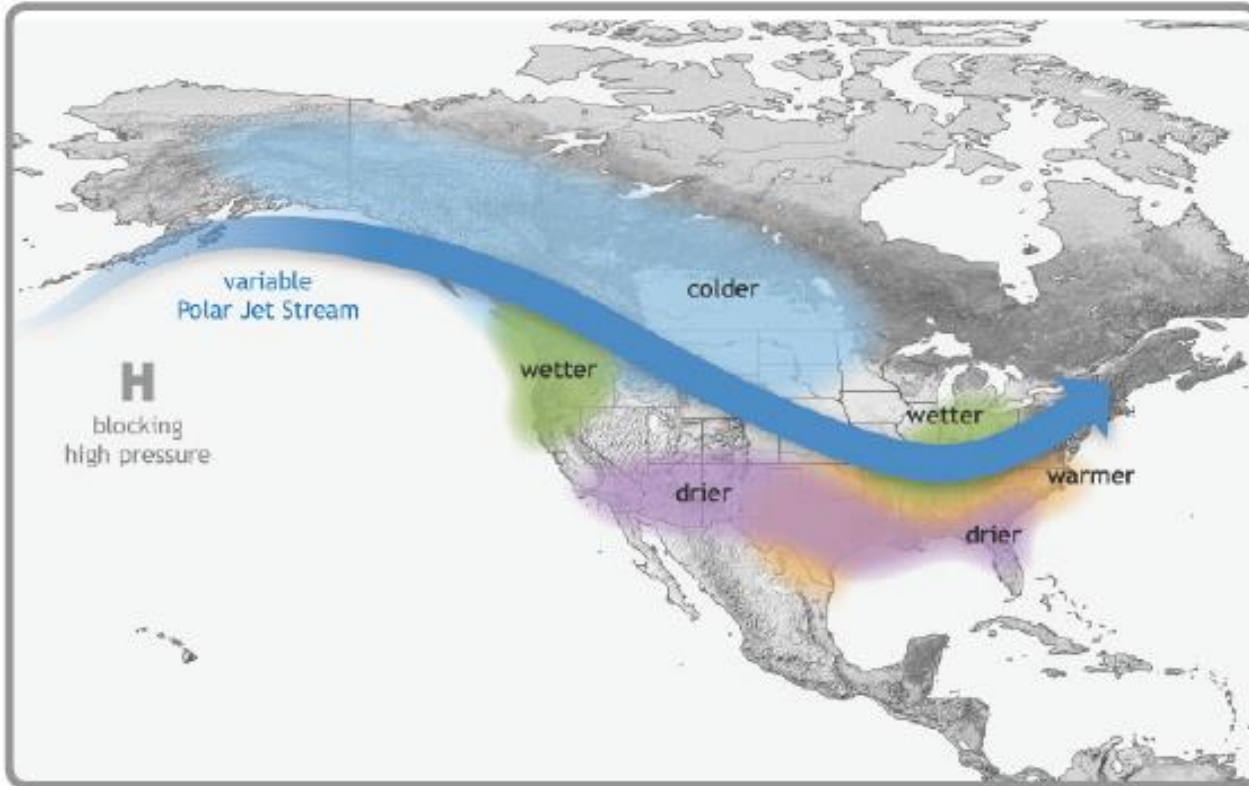
Author:
Anthony Artusa
NOAA/NWS/NCEP/Climatology Center



<http://go.usa.gov/3eZ73>



N. America La Nina Pattern

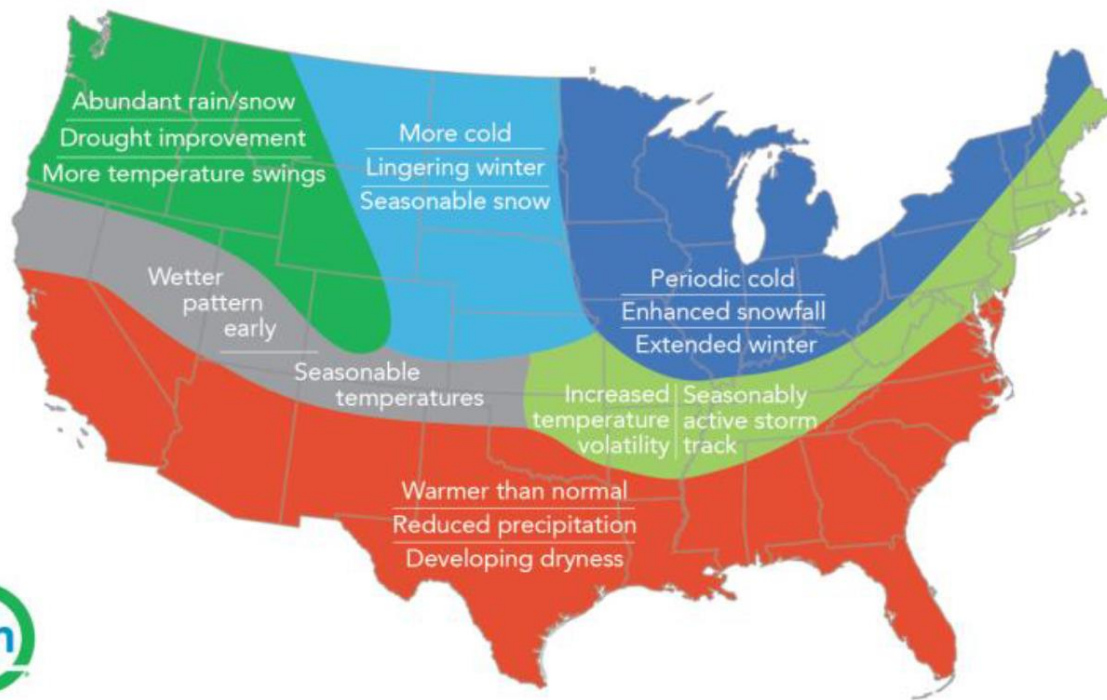


Storm track
stays north.



DTN Winter Forecast

DTN Winter Outlook (Nov-Mar)

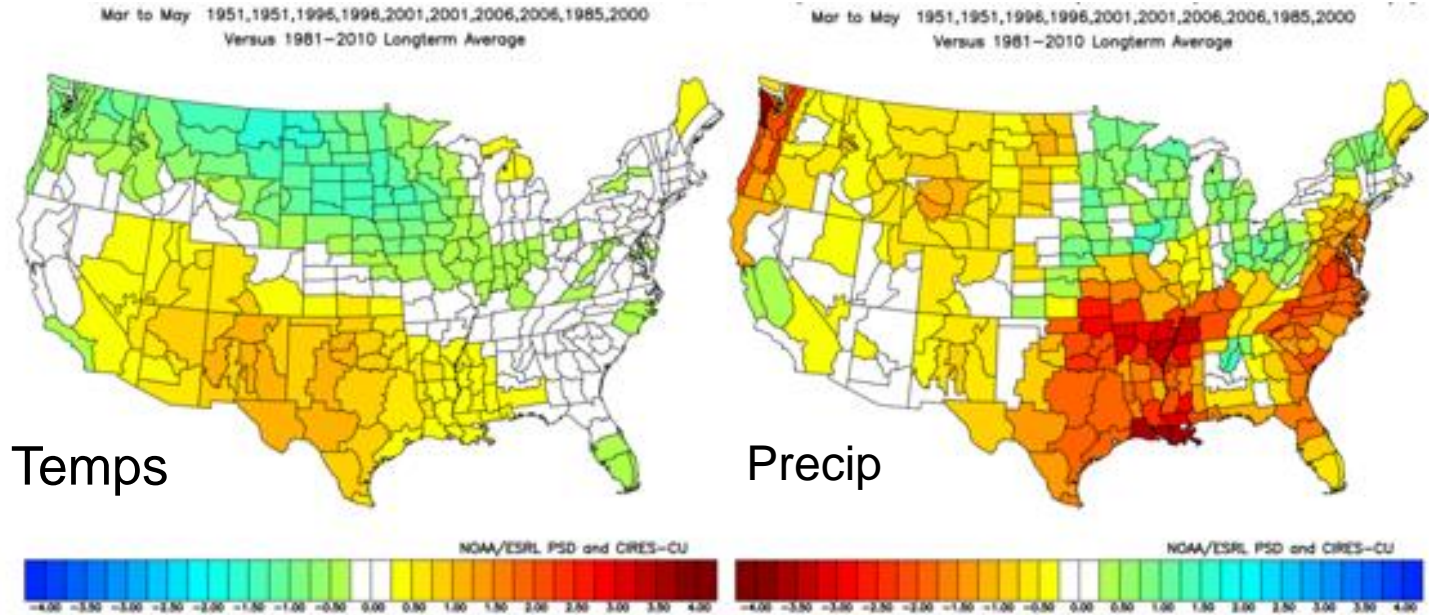


La Nina
plus Polar
Vortex.





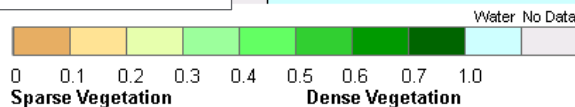
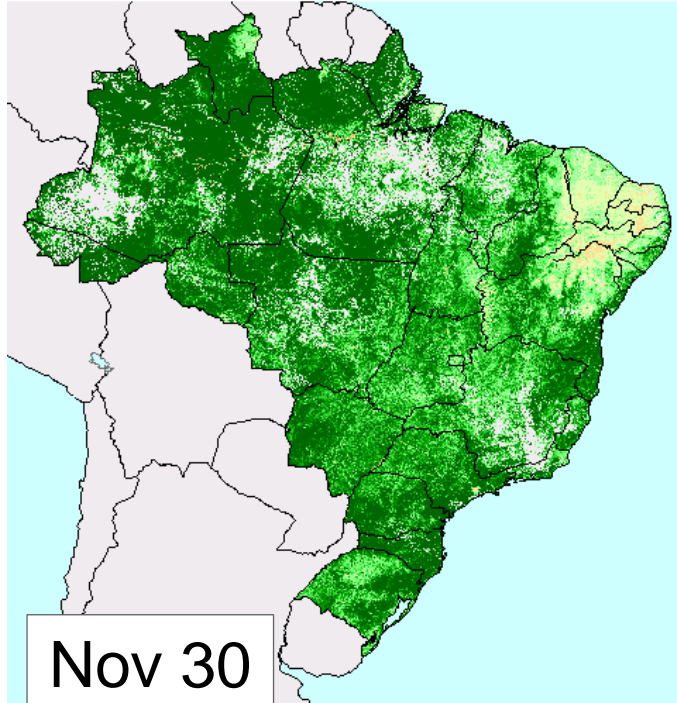
Spring Analogs



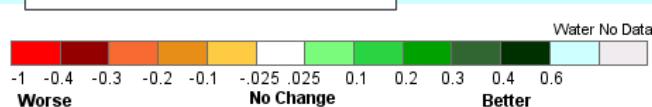
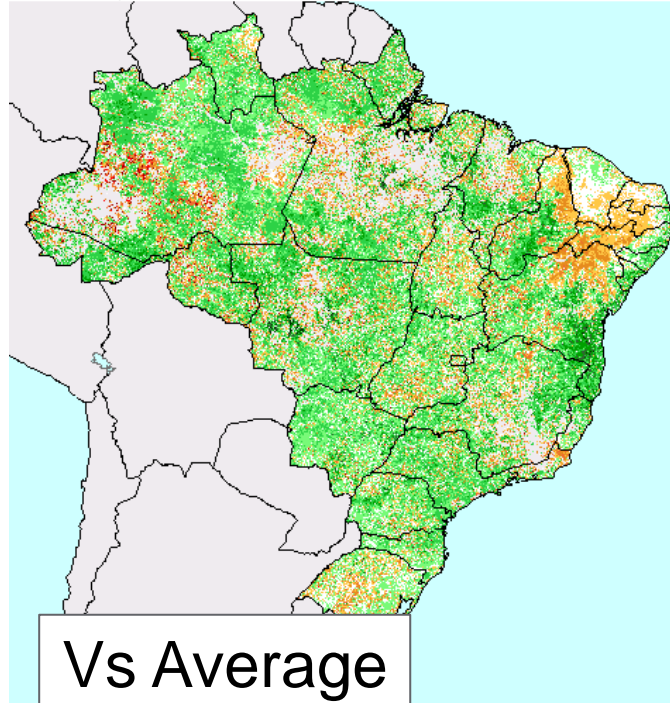
Cool north & central, warm south. Variable precipitation.

Brazil Vegetation

NDVI (PROBA-V)
Nov. 21 - 30, 2017



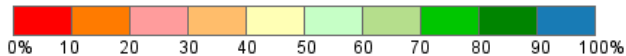
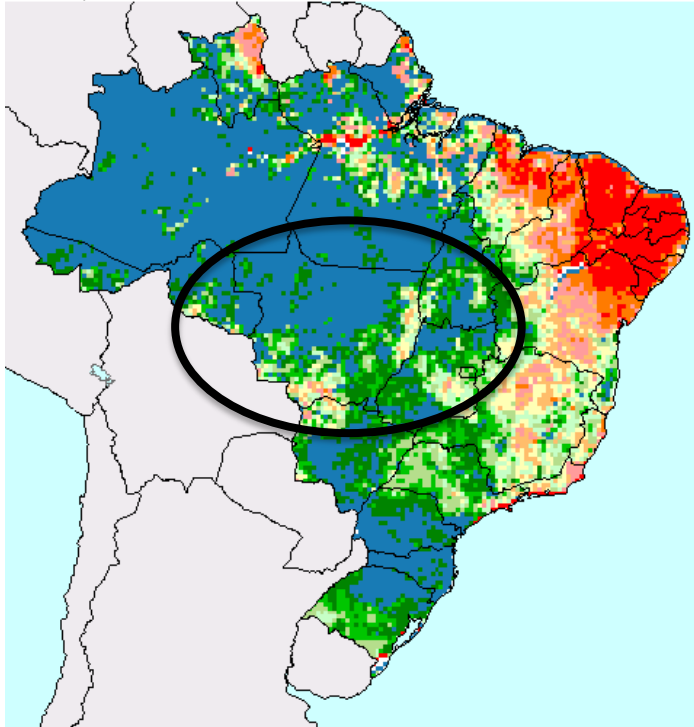
NDVI Departure from Average (PROBA-V)
Nov. 21 - 30, 2017



Brazil Soil Moisture

Percent Soil Moisture (SMOS)

Nov. 19, 2017



USDA Foreign Agricultural Service
Office of Global Analysis
International Production Assessment Division

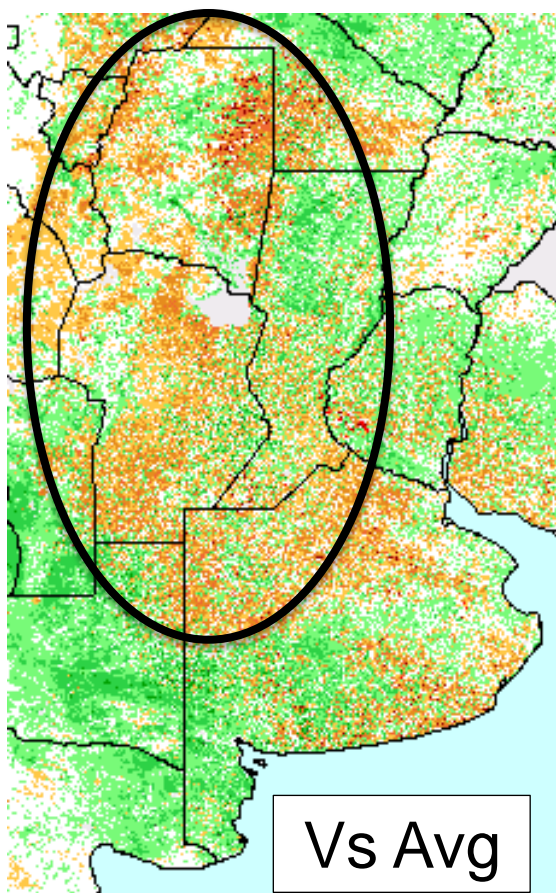
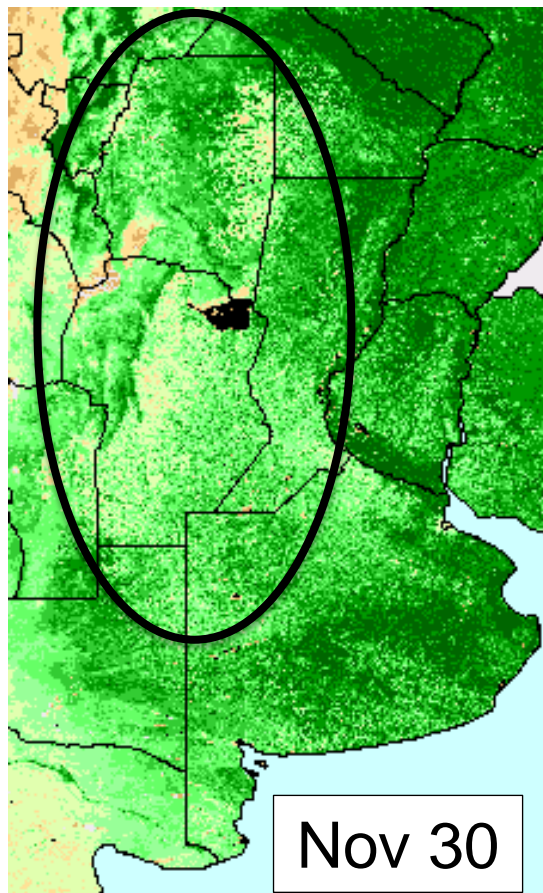
Source: 2-layer Palmer Soil Moisture Model
(corrected with SMOS imagery)
NASA/GSFC/HSB; USAF 557th WW



SL & E Fazenda

Much improved Center-West.

Argentina Vegetation



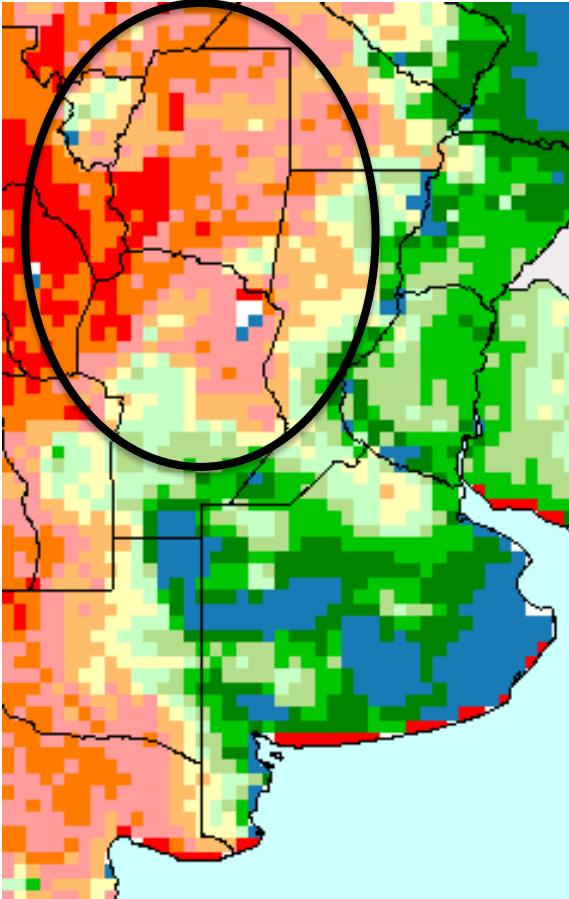
Dryness
impact noted
over western
and n'western
sectors.

Argentina Crops



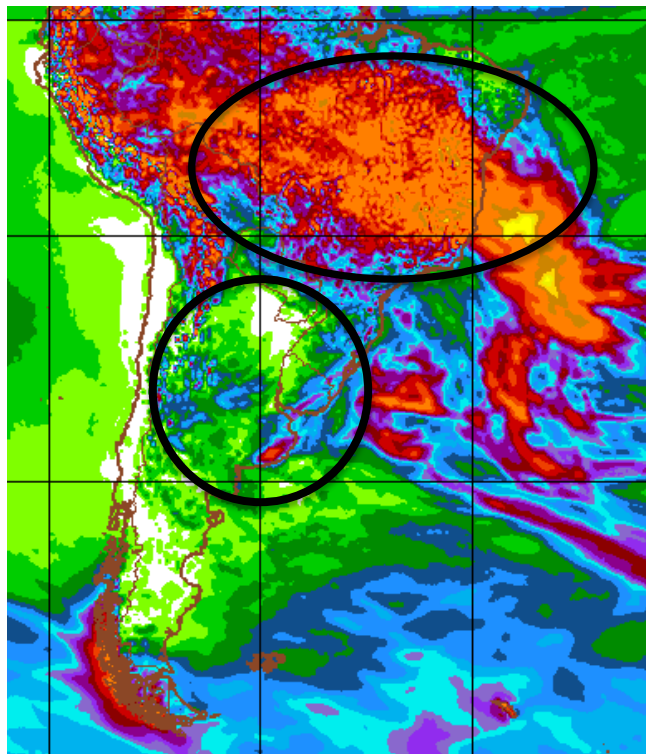
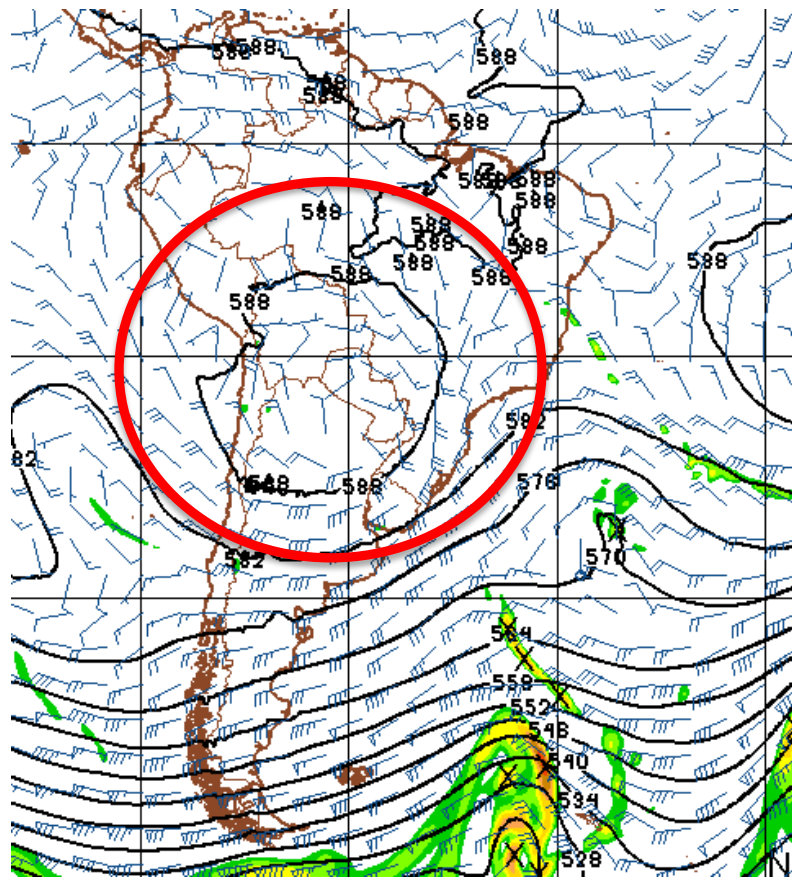
Near Rosario,
Argentina by Lin
Tan

Argentina Soil Moisture



Very short on soil moisture in west and northwest sector.

South Am Forecast



Questions?





Thank You



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