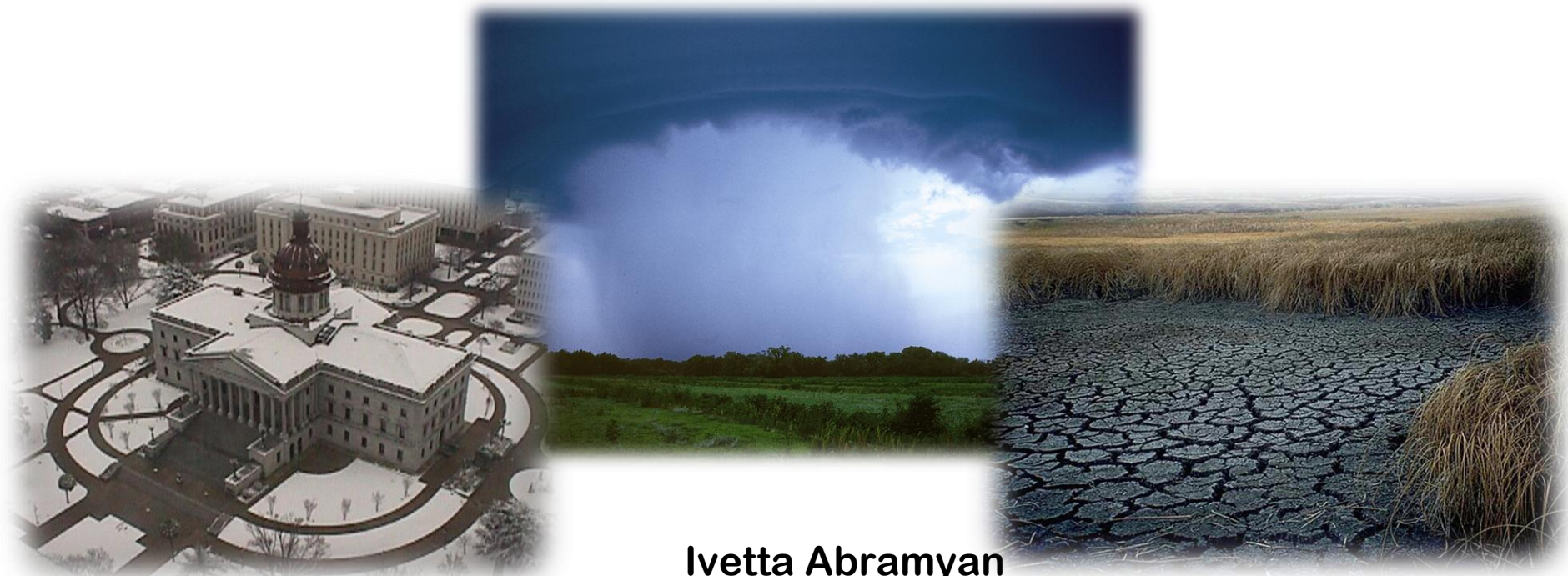


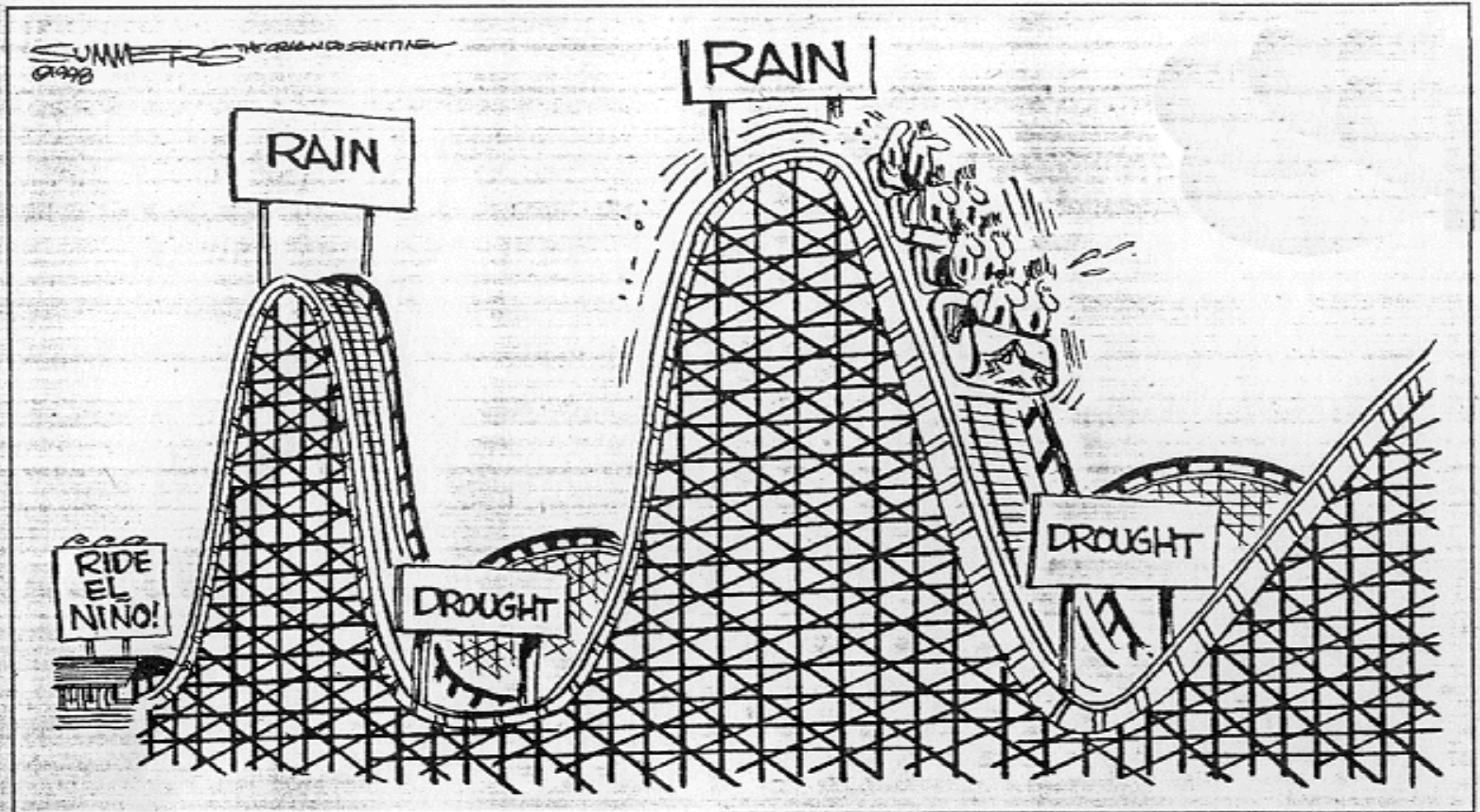
The Influence of ENSO Cold and Warm Event Cycles on South Carolina Winter Weather



Ivetta Abramyan
Department of Geography, Department of Marine Science
University of South Carolina

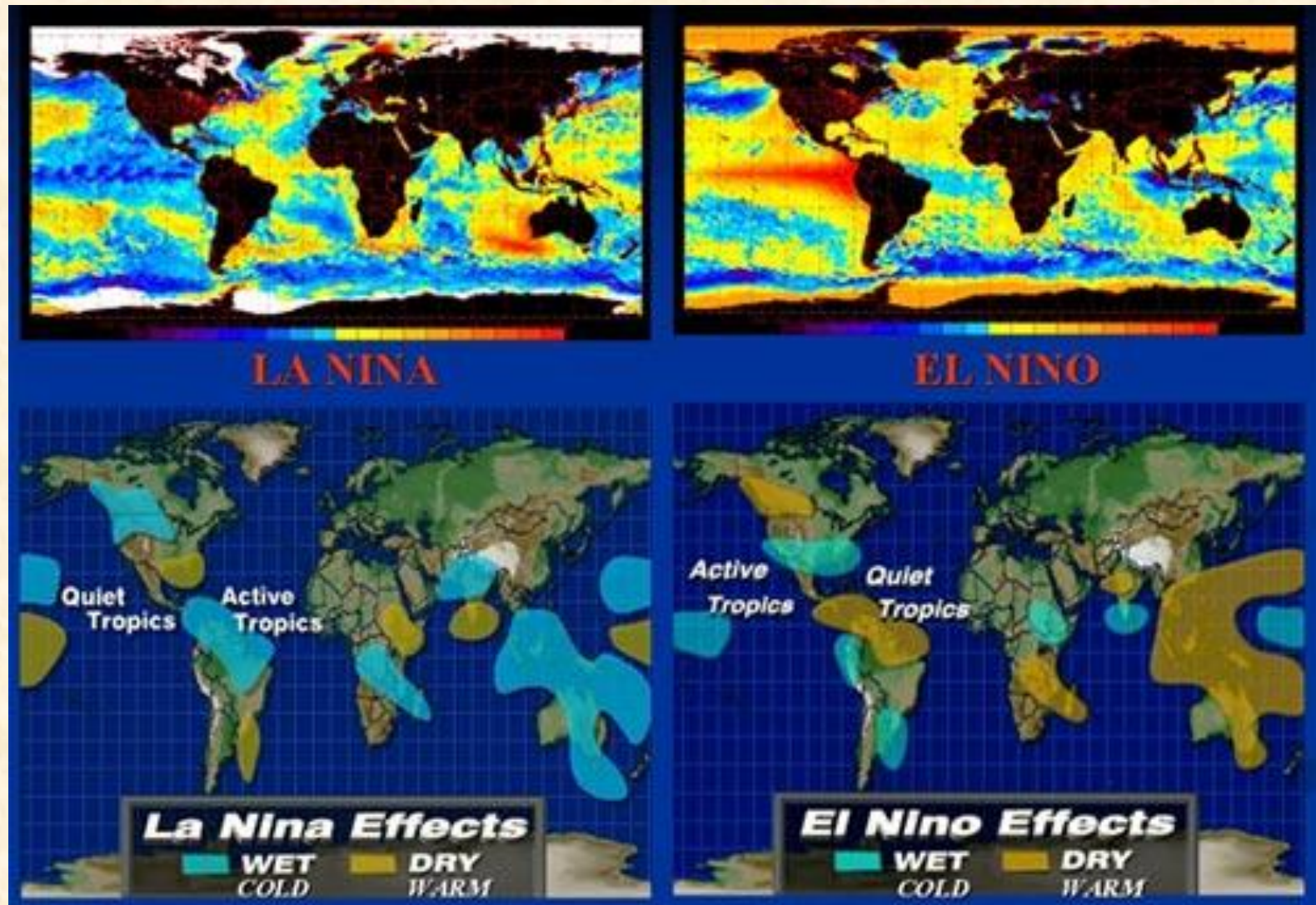
Hope Mizzell, Ph.D.
SC State Climatology Office

The ENSO Ride



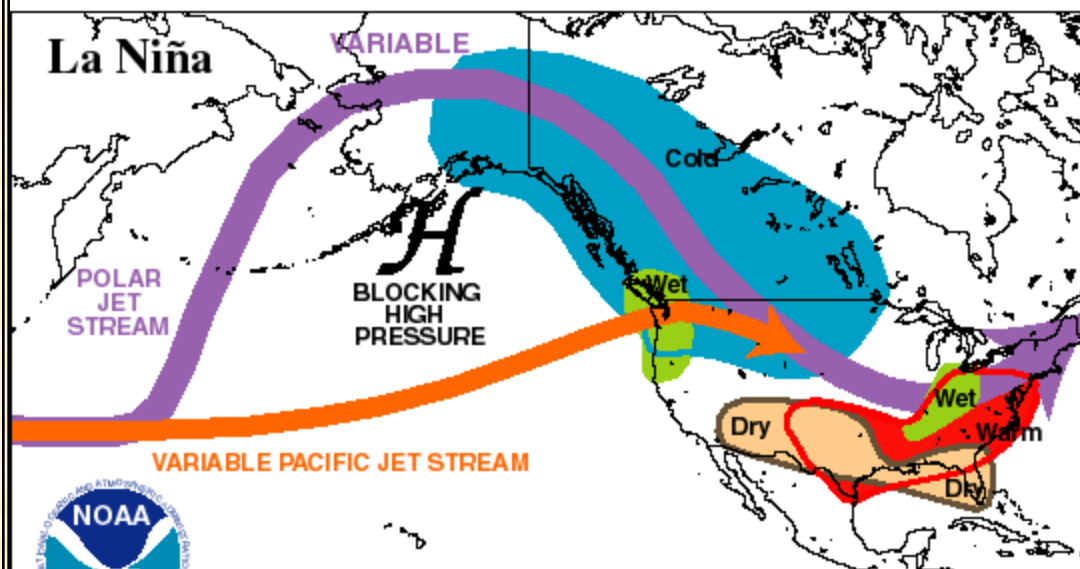
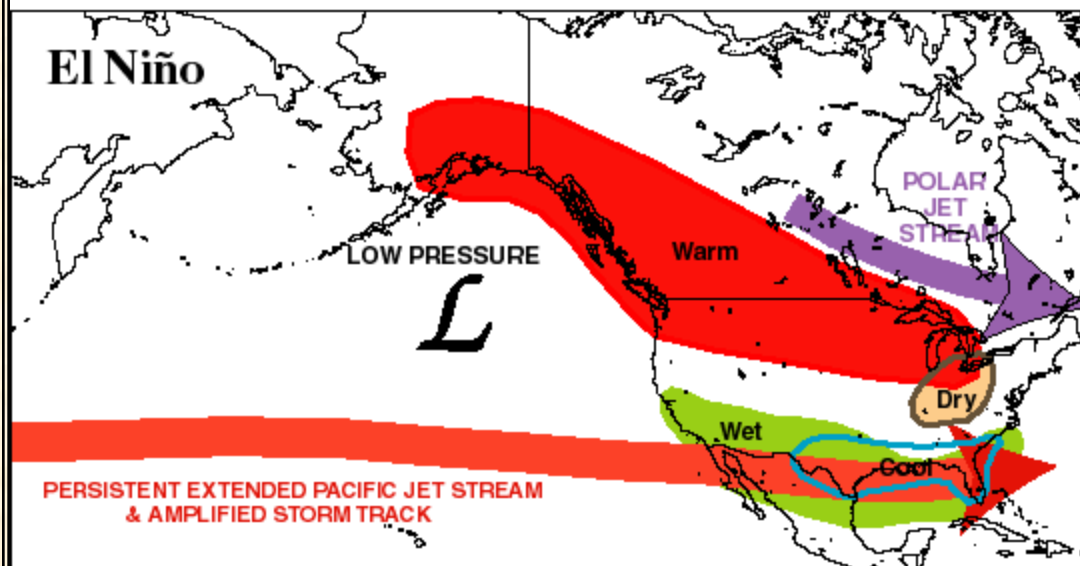
By Dana Summers, The Orlando (Fla.) Sentinel, Tribune Media Services

Global ENSO Effects

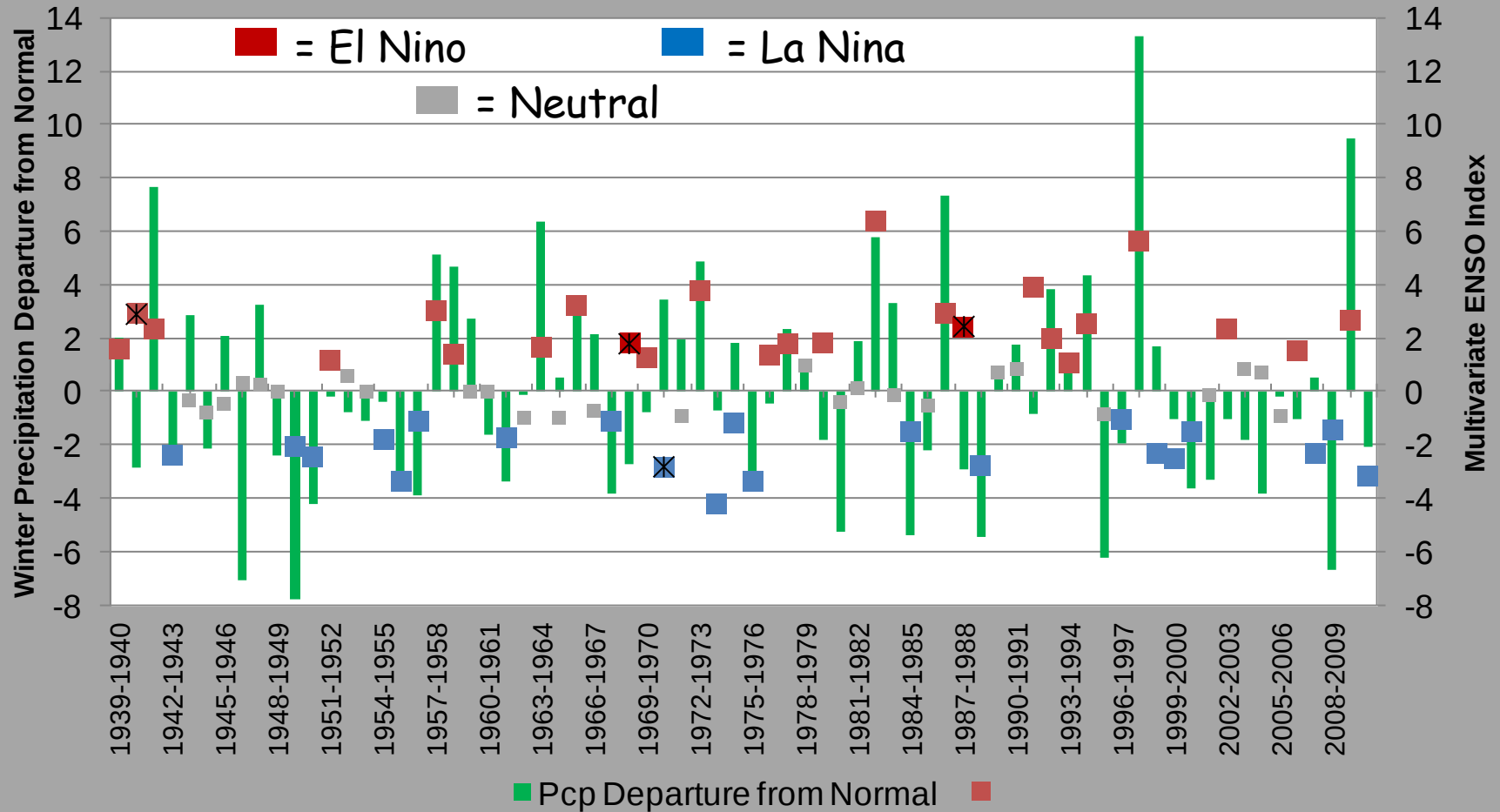


Source: <http://www.intellicast.com/Community/Content.aspx?ref=rss&a=139>

TYPICAL JANUARY-MARCH WEATHER ANOMALIES AND ATMOSPHERIC CIRCULATION DURING MODERATE TO STRONG EL NIÑO & LA NIÑA



ENSO's Impact on Charleston's Winter Precipitation (inches)



Score Card (72 winters):

24 Homeruns (86%)

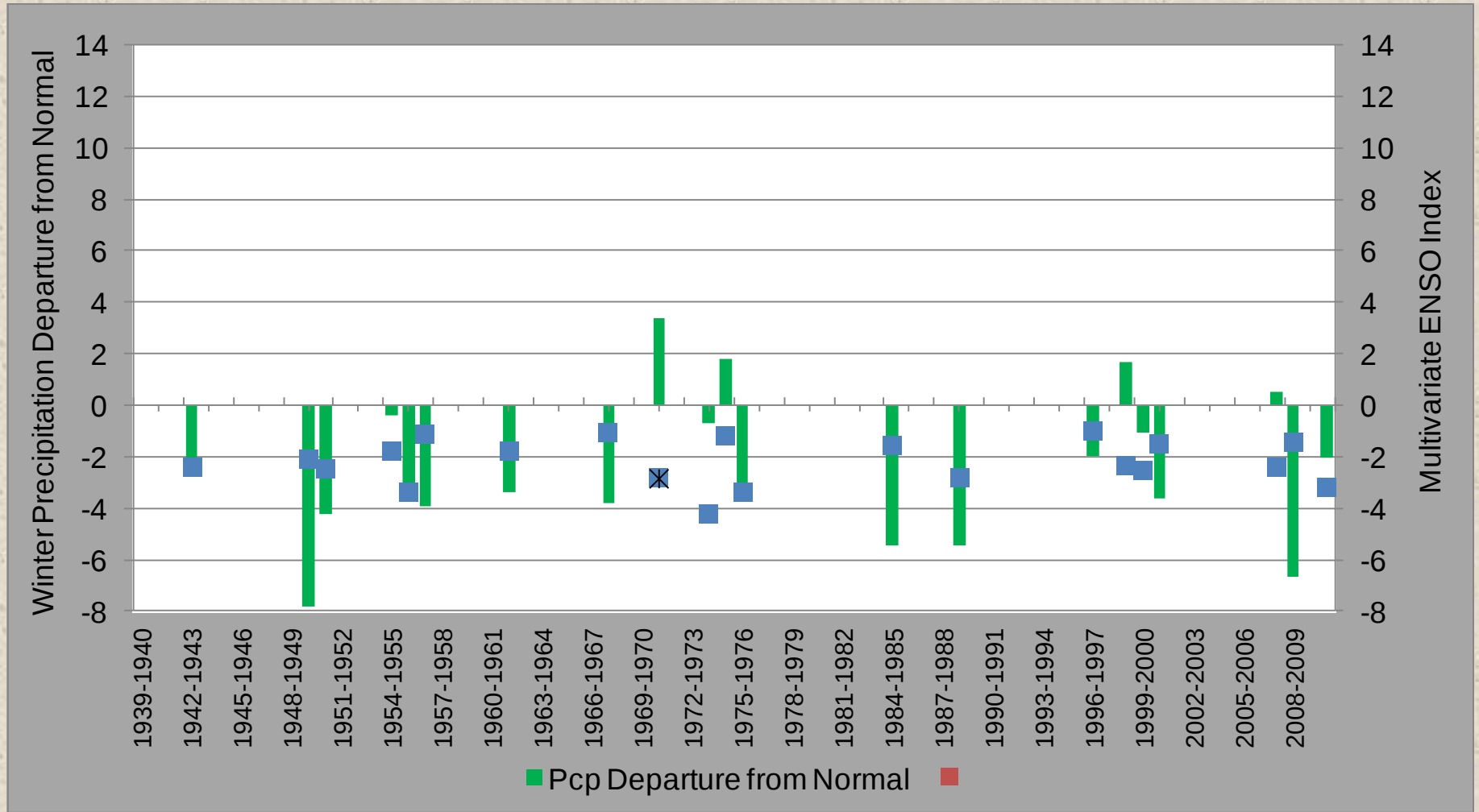
4 Strikeouts (14%)

18 Foul Balls

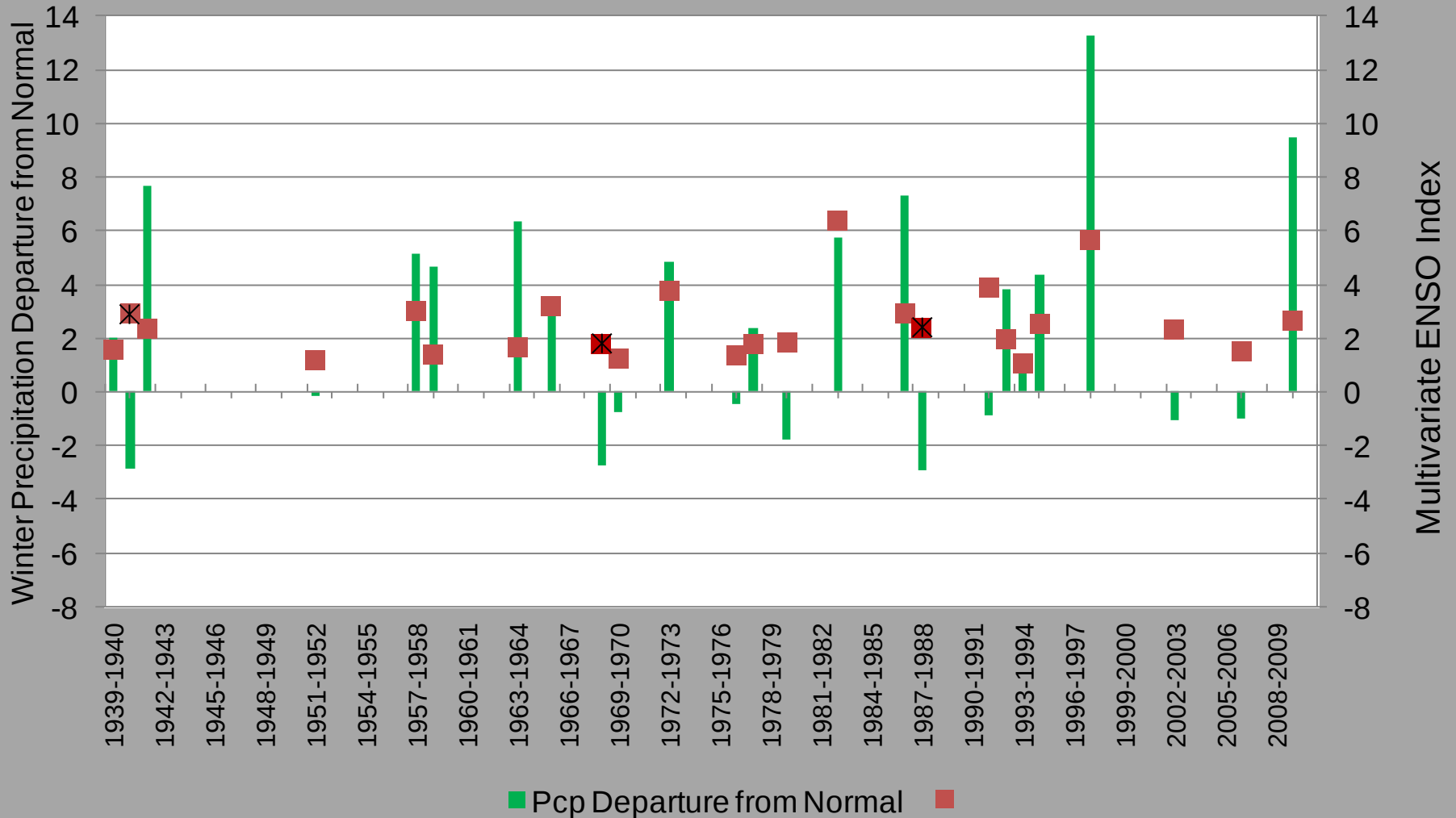
26 Seasons Didn't Play (Neutral)

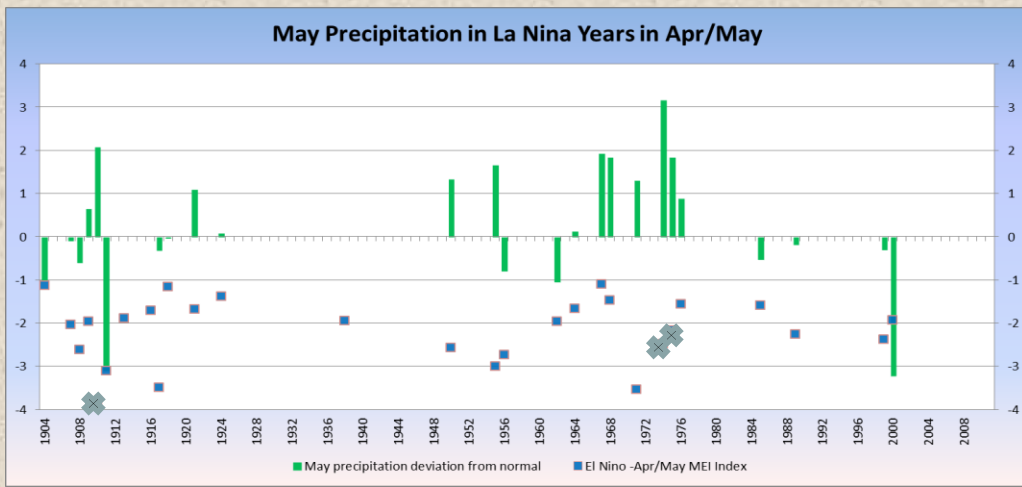
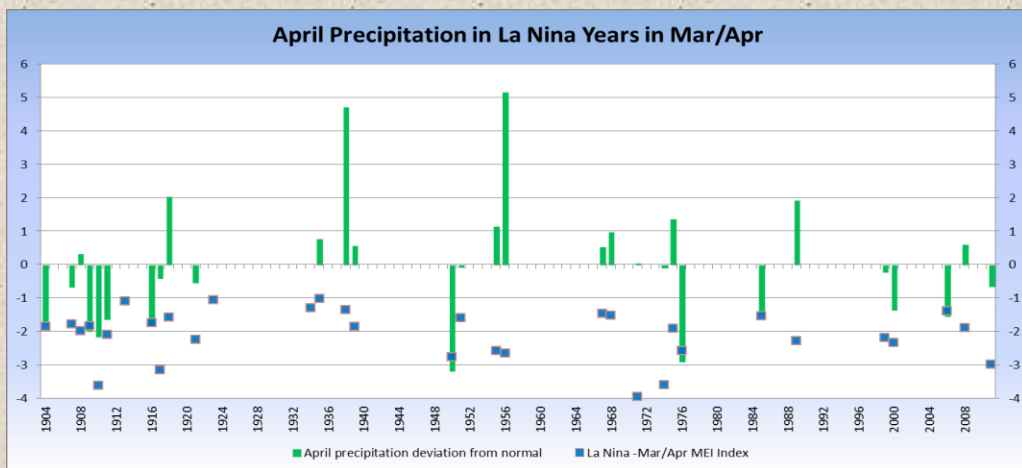
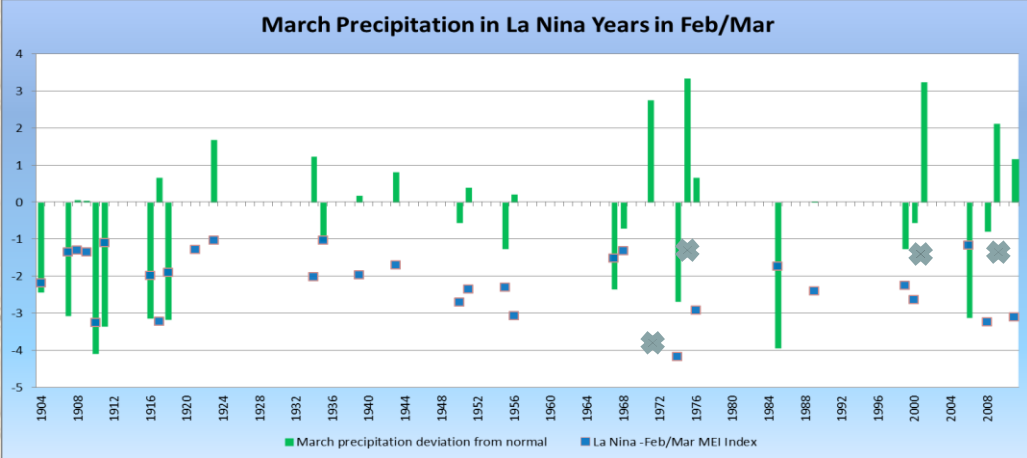


La Nina and Charleston's Winter Precipitation (inches)

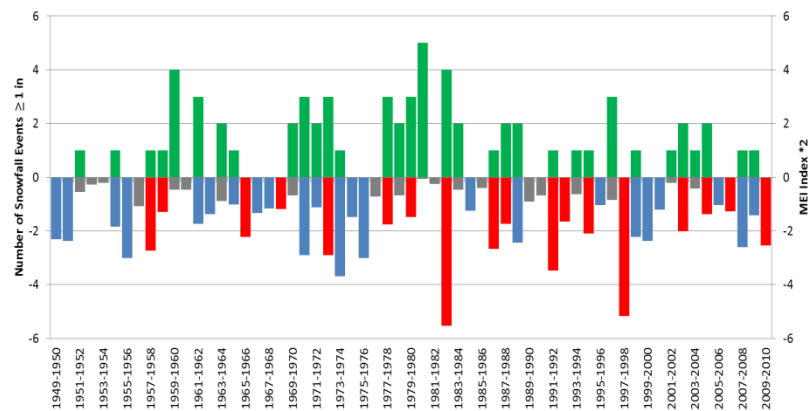


El Nino and Charleston's Winter Precipitation (inches)

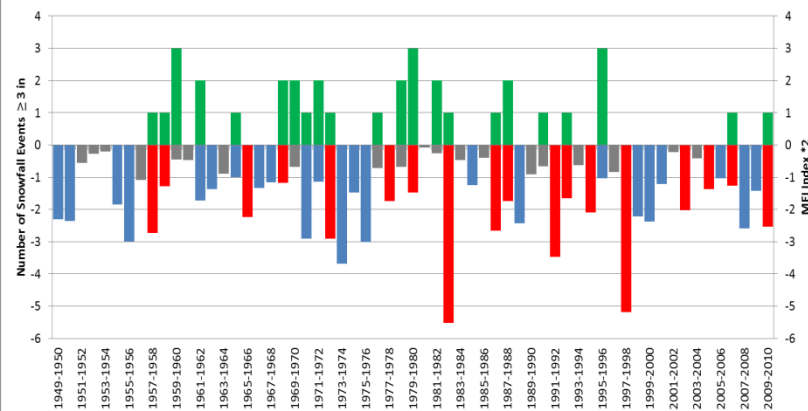




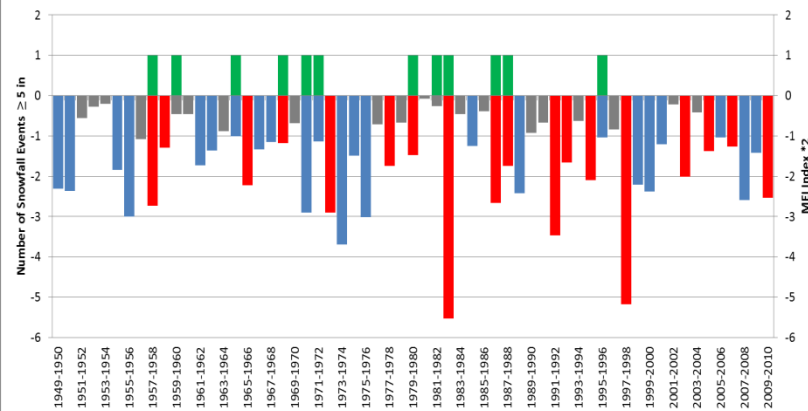
Walhalla, SC
Snowfall Events ≥ 1.00 inch Vs. ENSO phase



Walhalla, SC
Snowfall Events ≥ 3.00 inch Vs. ENSO phase



Walhalla, SC
Snowfall Events ≥ 5.00 inch Vs. ENSO phase

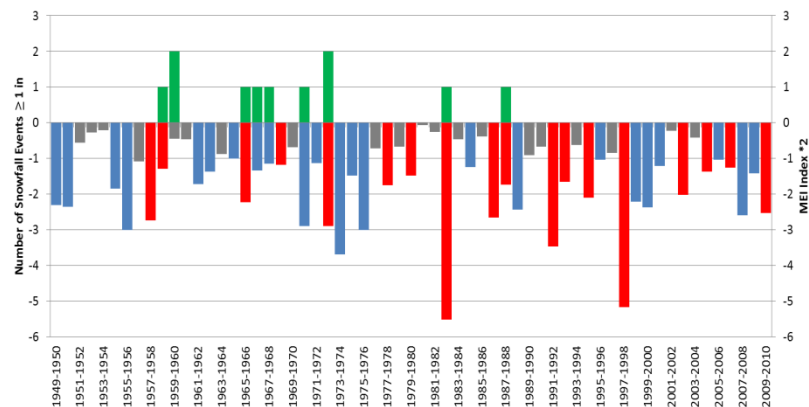


El Niño - 12/33 - 36%
La Niña - 10/33 - 30%
Neutral - 11/33 - 33%

El Niño - 11/22 - 50%
La Niña - 5/22 - 23%
Neutral - 6/22 - 27%

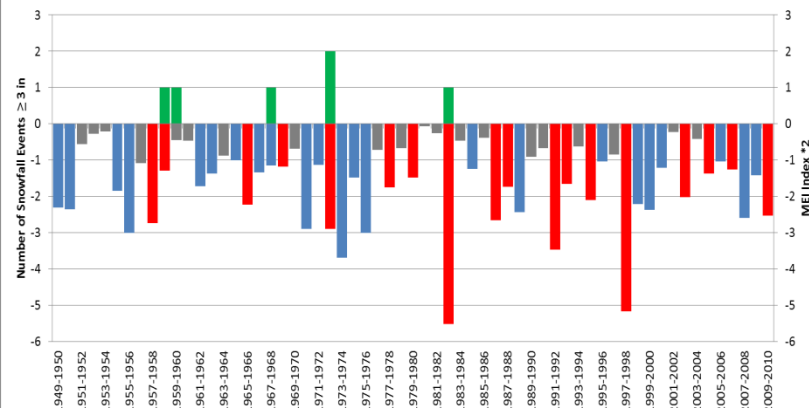
El Niño - 6/12 - 50%
La Niña - 4/12 - 33%
Neutral - 2/12 - 17%

Darlington, SC
Snowfall Events ≥ 1.00 inch Vs. ENSO phase



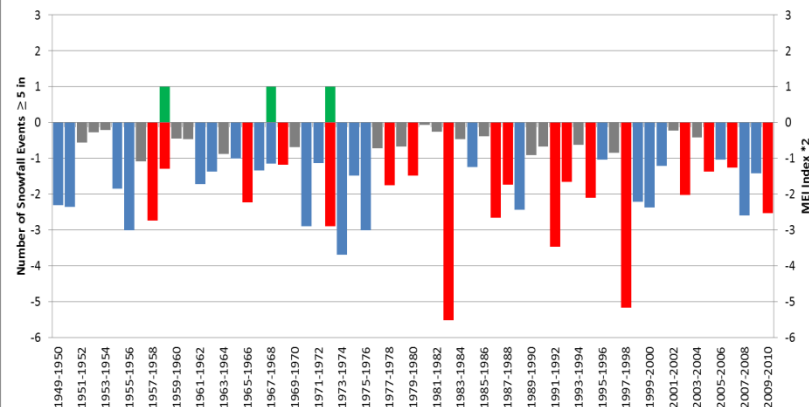
El Nino - 5/9 - 56%
La Nina - 3/9 - 33%
Neutral - 1/9 - 11%

Darlington, SC
Snowfall Events ≥ 3.00 inch Vs. ENSO phase



El Nino - 3/5 - 60%
La Nina - 1/5 - 20%
Neutral - 1/5 - 20%

Darlington, SC
Snowfall Events ≥ 5.00 inch Vs. ENSO phase



El Nino - 2/3 - 67%
La Nina - 1/3 - 33%
Neutral - 0/3 - 0%

Events ≥ 1 in

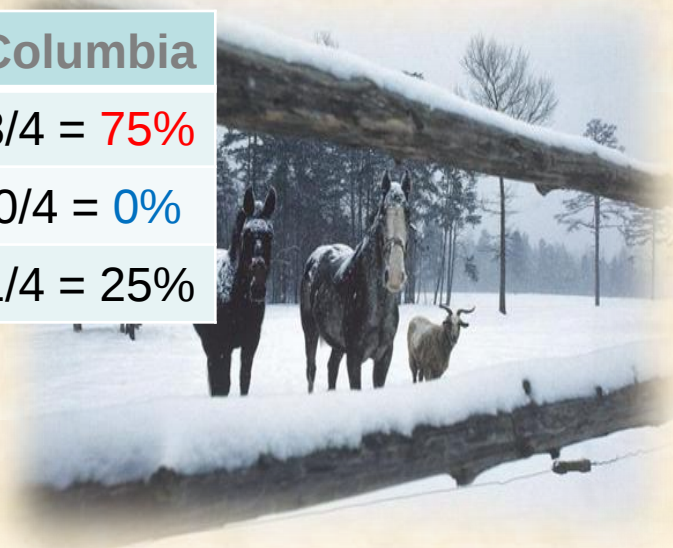
ENSO Phase	Charleston	Columbia
El Nino	4/8 = 50%	8/22 = 36%
La Nina	1/8 = 13%	7/22 = 32%
Neutral	3/8 = 38%	7/22 = 32%

Events ≥ 3 in

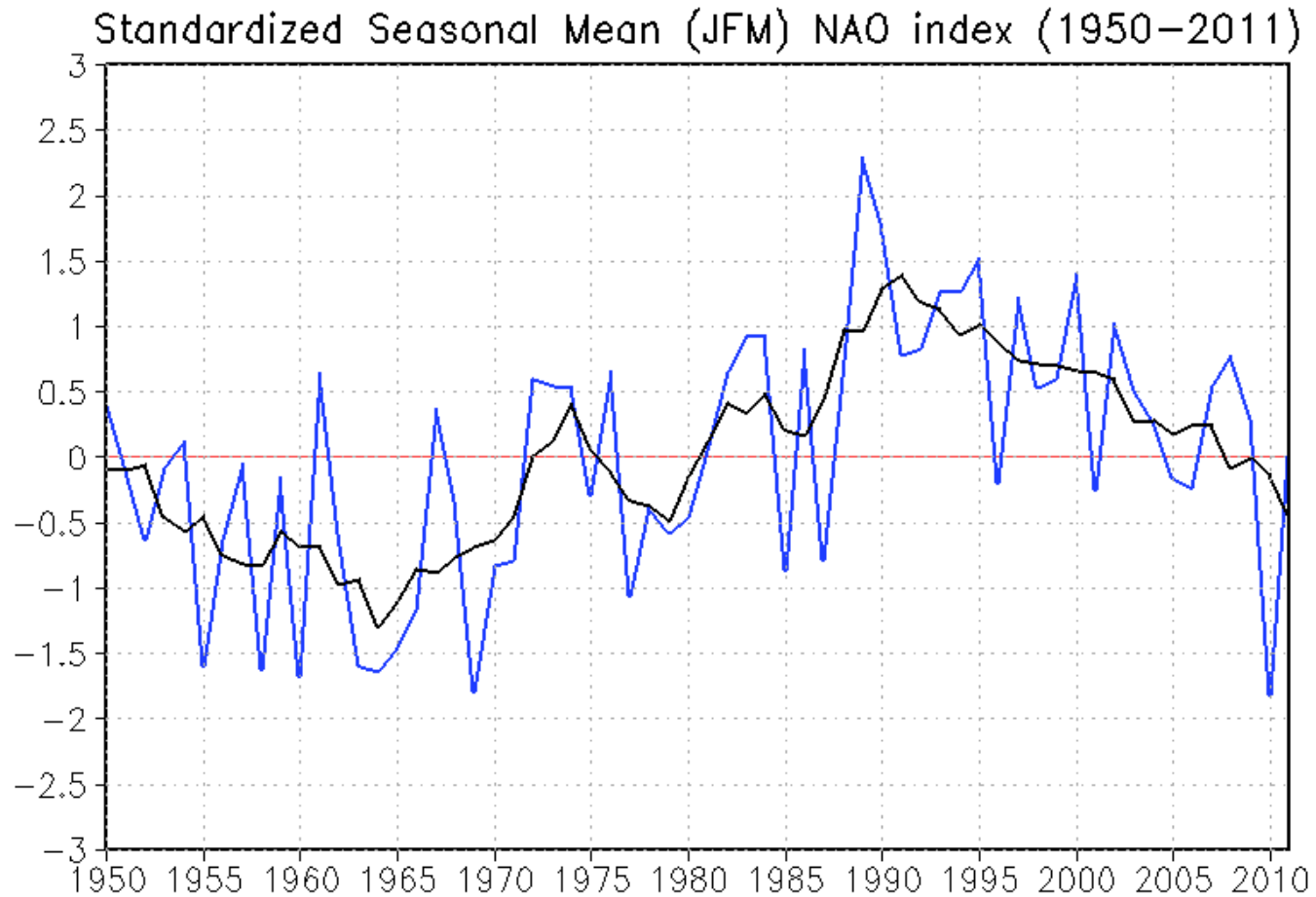
ENSO Phase	Charleston	Columbia
El Nino	2/4 = 50%	6/12 = 50%
La Nina	0/8 = 0%	3/12 = 25%
Neutral	2/4 = 50%	3/12 = 25%

Events ≥ 5 in

ENSO Phase	Charleston	Columbia
El Nino	1/2 = 50%	3/4 = 75%
La Nina	0/2 = 0%	0/4 = 0%
Neutral	1/2 = 50%	1/4 = 25%



North Atlantic Oscillation



Thank you



<http://www.dnr.sc.gov/climate/sco>

ENSO and Charleston's Mean Winter Temperature (°F)

