



# NOAA 2014 Hurricane Season Outlook

Chris Strager – NOAA/NWS

SDR – June 5, 2014



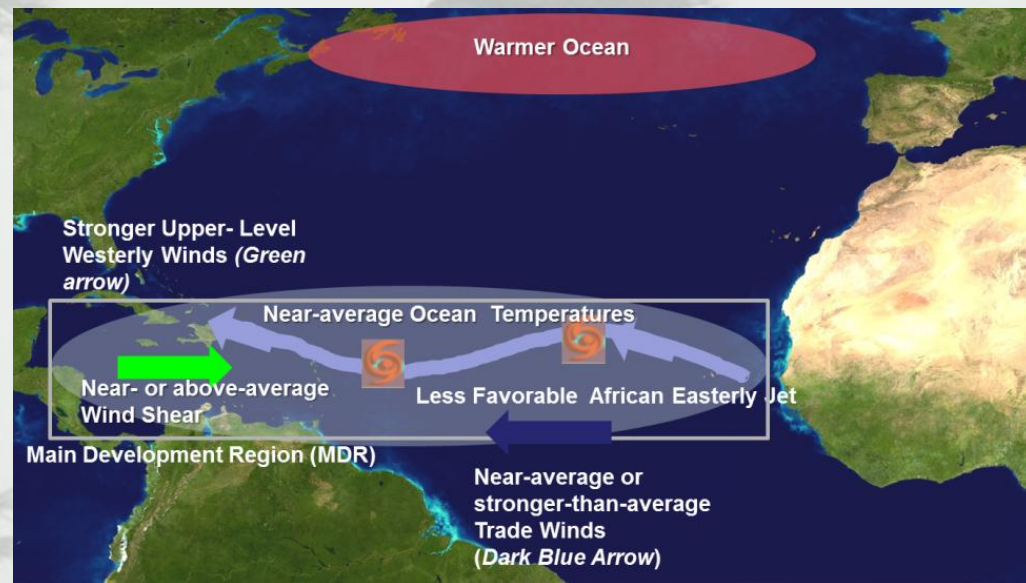
# Overview

## Atlantic Hurricane Season:

- Near or **Below** Normal
- 8 to 13 Named Storms
- 3 to 6 Hurricanes
- 1 to 2 Major Hurricanes

## Reason: El Niño

- Suppresses hurricane development
- Causes stronger vertical wind shear and greater atmospheric stability





# NOAA 2014 Atlantic Hurricane Season Outlook

<u>Season and Activity Type</u>	<u>2014 Outlook</u>	<u>Last Year May Outlook (Obs.)</u>	<u>NHC 1981-2010 Averages</u>
Chance Above Normal	10%	70%	
Chance Near Normal	40%	25%	
Chance Below Normal	50%	5% (Below)	
Named Storms*	8-13	13-20 (14)	12
Hurricanes *	3-6	7-11 (2)	6
Major Hurricanes	1-2	3-6 (0)	3

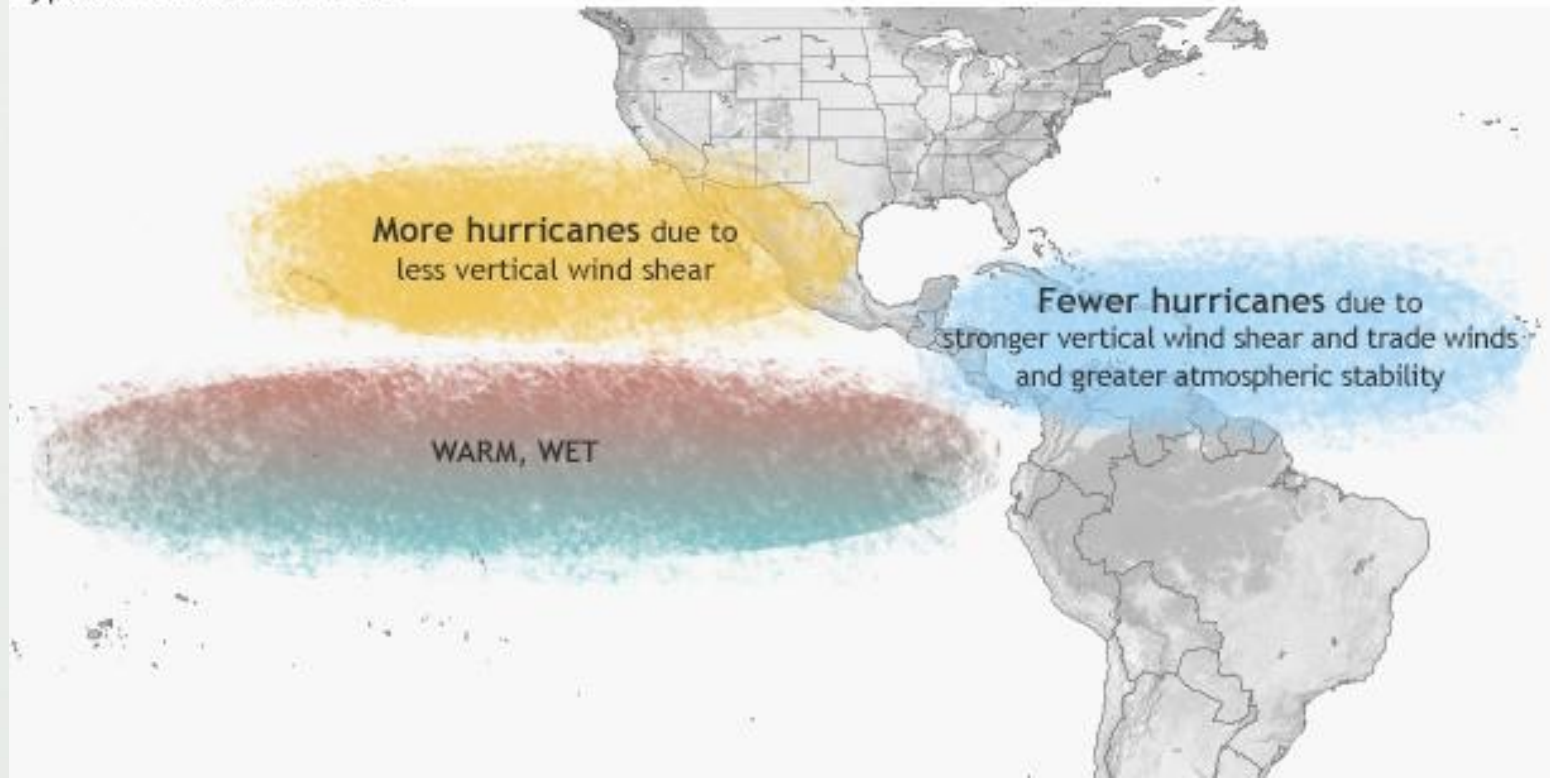
The outlooks indicate a 70% probability for each range of activity.

\*Includes all such storms regardless of strength.

The 2014 outlook calls for a near- or below-normal season. The predicted ranges of activity are centered below the 1981-2010 seasonal averages.

# El Niño Impacts on Hurricane Activity

Typical El Niño influence



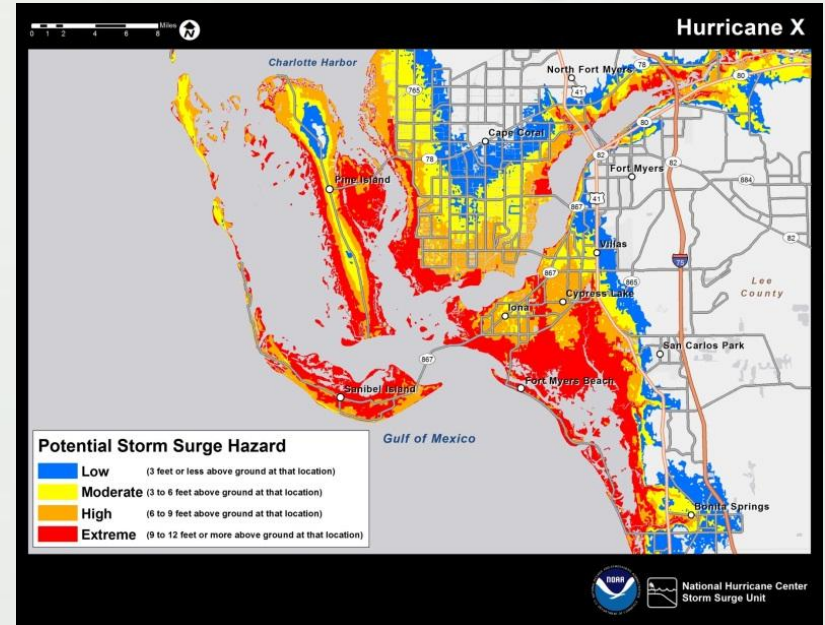
- El Niño has opposite impacts between the Pacific and Atlantic hurricane basins.
- In the Atlantic basin, El Niño suppresses the hurricane season by strengthening the vertical wind shear, trade winds, and atmospheric stability
- In the central and eastern Pacific hurricane basins, El Niño strengthens the hurricane season by weakening the vertical wind shear.



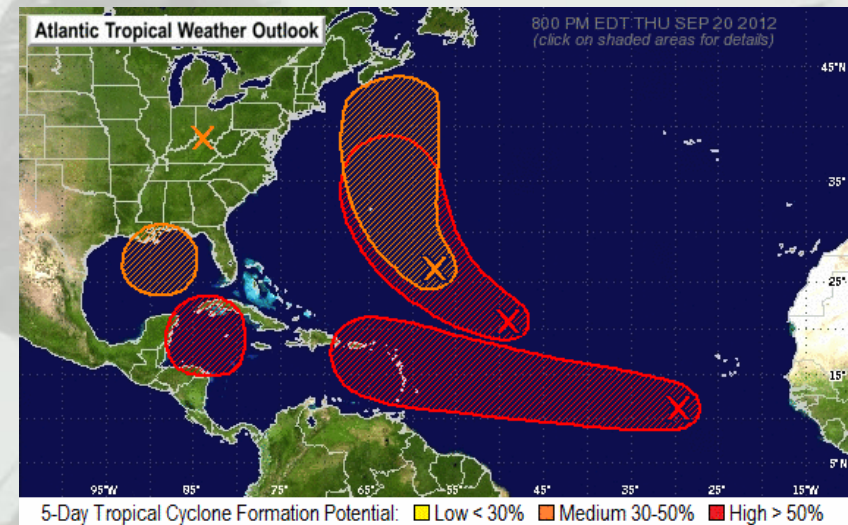


# 2014 Tropical Product Changes

- **New Potential Storm Surge Flooding Map**

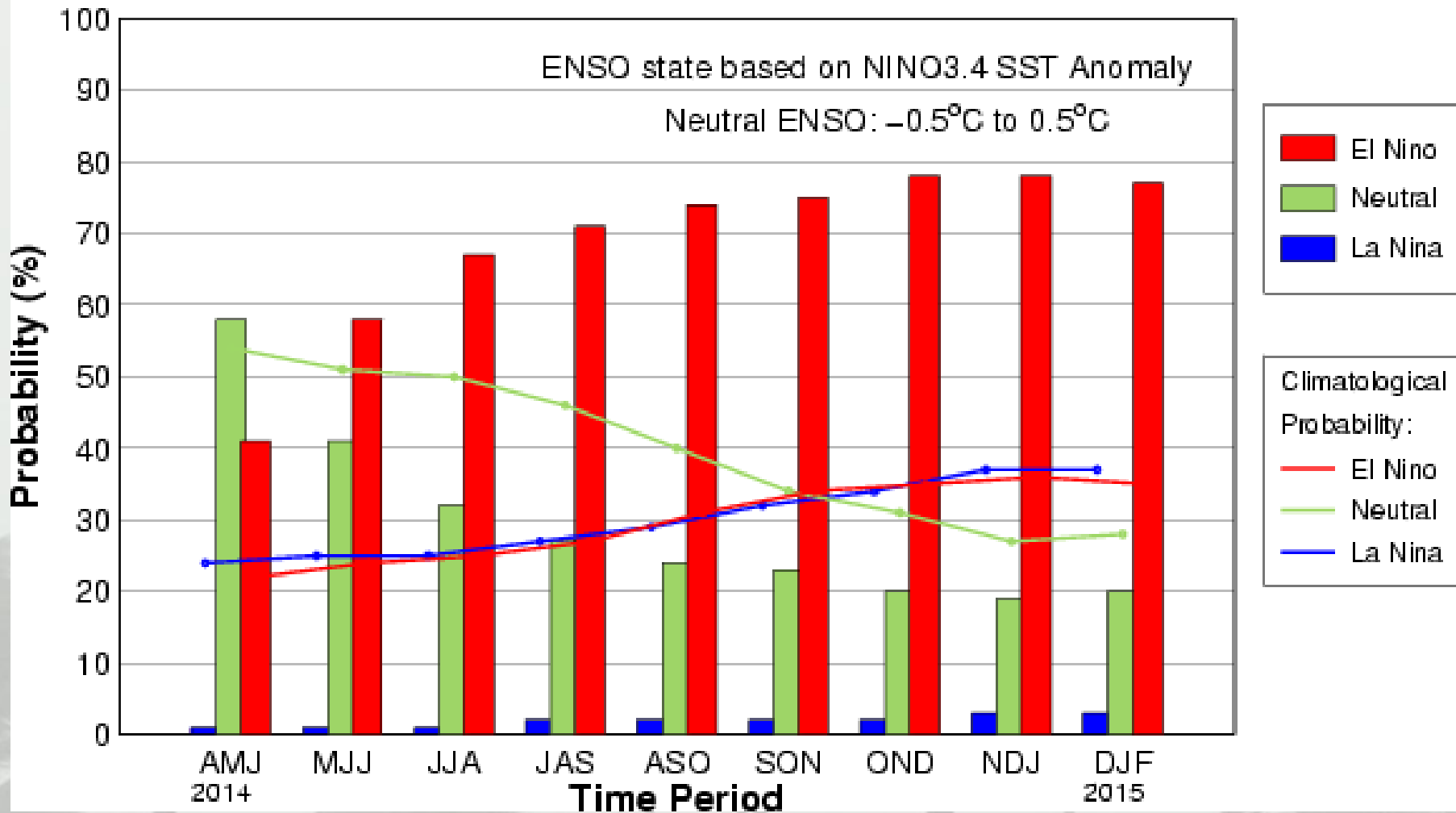


- **New 5-day Graphical Tropical Weather Outlook**

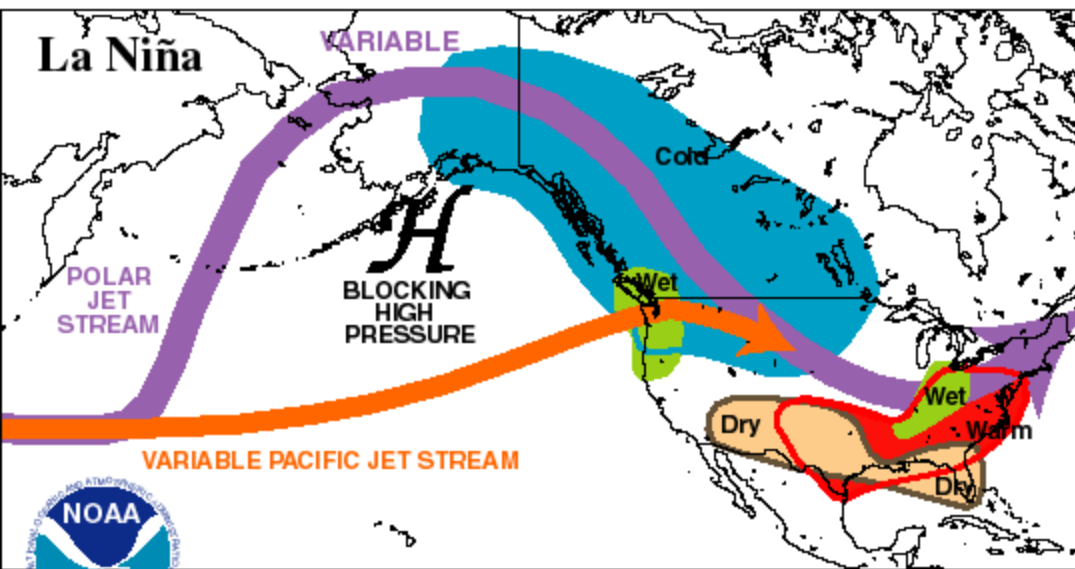
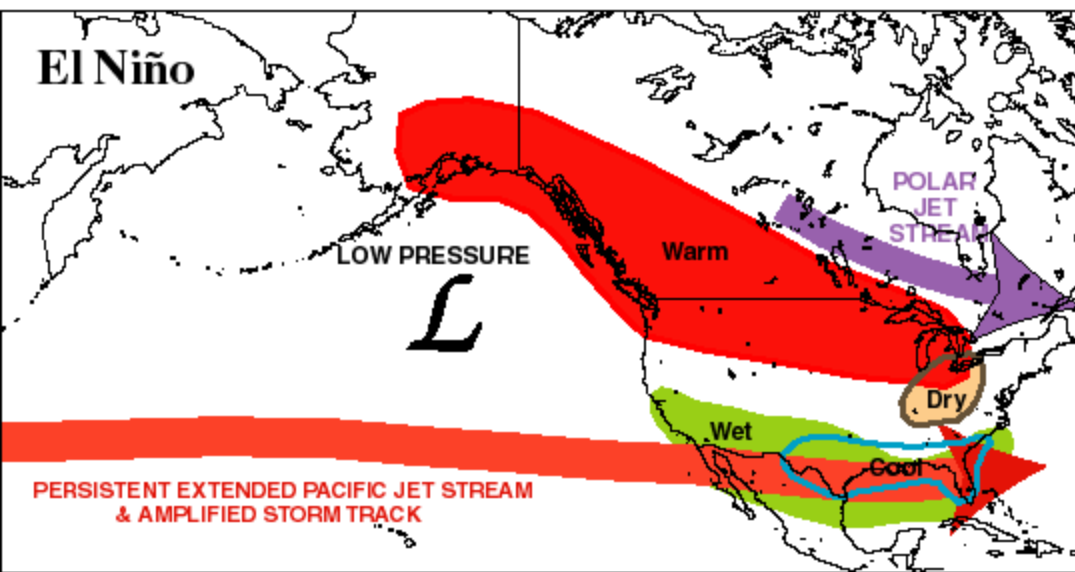


# Looking beyond this summer...

Early-May CPC/IRI Consensus Probabilistic ENSO Forecast



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



Climate Prediction Center/NCEP/NWS

## What does this mean for us?

Winter El Niño episodes (top map) feature a strong jet stream and storm track across the southern part of the United States, and less storminess and milder-than-average conditions across the North.



For current tropical forecasts: <http://www.nhc.noaa.gov/>

For climate information: <http://www.cpc.ncep.noaa.gov/>