

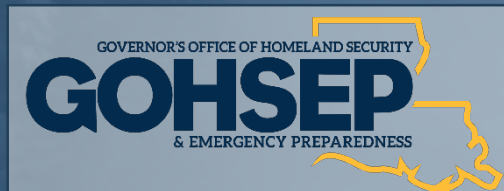
Mark Ward
Assistant Director – Emergency Management








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Assistant Director – Emergency Management

Pre-Season Forecasts for the Tropical Atlantic

CPRA
Baton Rouge
18 June 2025








Developed by: Jay Grymes
State Climatologist



Forecast Group	Forecast Date	'Named' Storms	Category 1-2 Hurricanes	Category 3-5 Hurricanes
     				
				
	Normals	14	7	3










Selected Pre-Season Forecasts

Forecast Group	Forecast Date	'Named' Storms	Category 1-2 Hurricanes	Category 3-5 Hurricanes
				
				
				
				
				
				
	May 22	13 – 19*	7 – 10*	3 – 5*
	<i>Normals</i>	<i>14</i>	<i>7</i>	<i>3</i>



Selected Pre-Season Forecasts

{ *70% Confidence
in their Outlook

Forecast Group	Forecast Date	'Named' Storms	Category 1-2 Hurricanes	Category 3-5 Hurricanes
      	Apr 3	17	9	4
	Mar 26	13 - 18	7 - 10	3 - 5
	Apr 7	15 - 19	7 - 9	2 - 3
	Apr 17	19	9	4
	May 23	16	8	4
	May 21	16	9	4
	May 22	13 – 19*	7 – 10*	3 – 5*
	<i>Normals</i>	<i>14</i>	<i>7</i>	<i>3</i>



Selected Pre-Season Forecasts

{ *70% Confidence in their Outlook

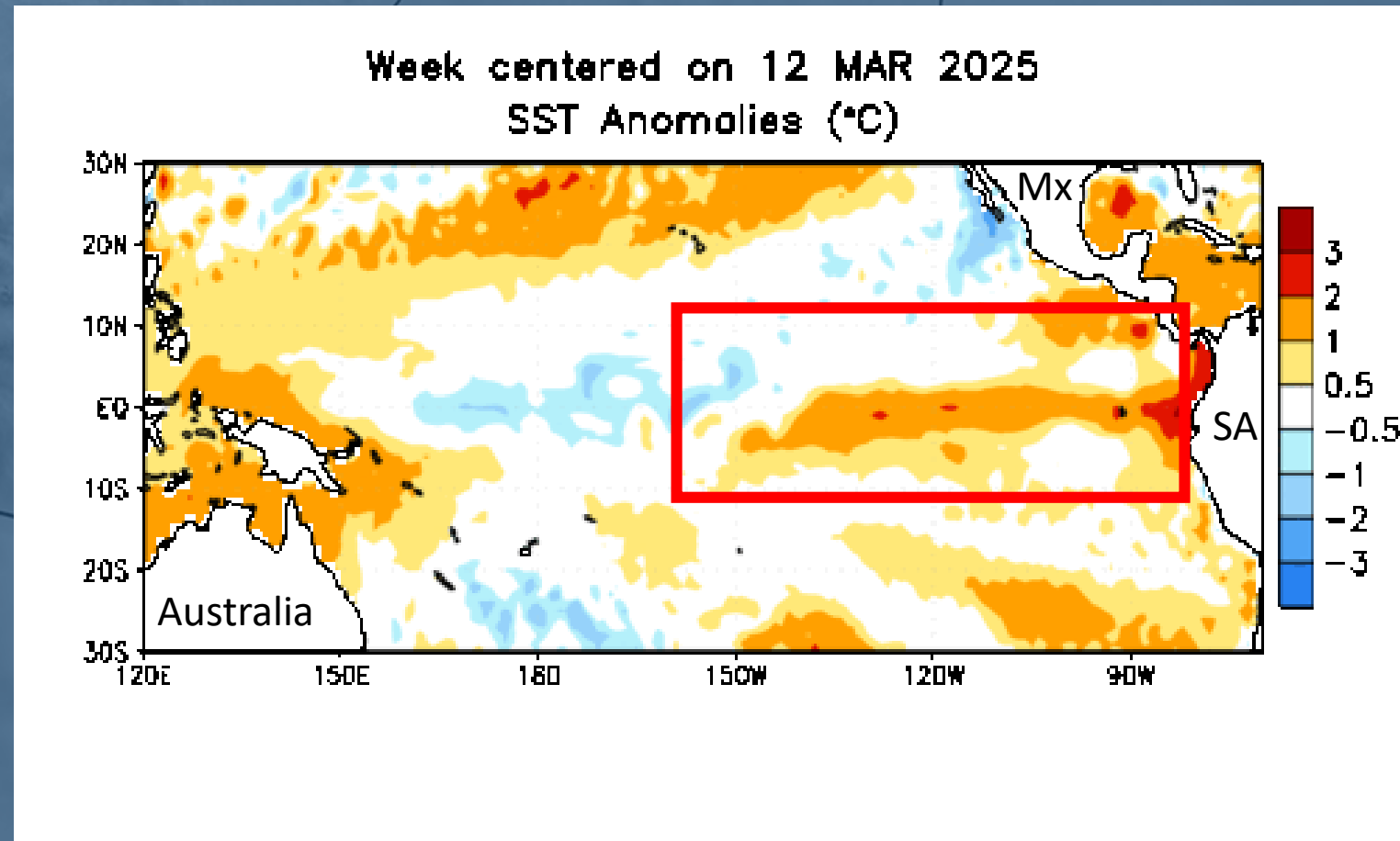
Expecting a Moderately-Active Season:

* 'near-neutral' ENSO . . . associated with weaker wind shear over the tropical and sub-tropical Atlantic, on average

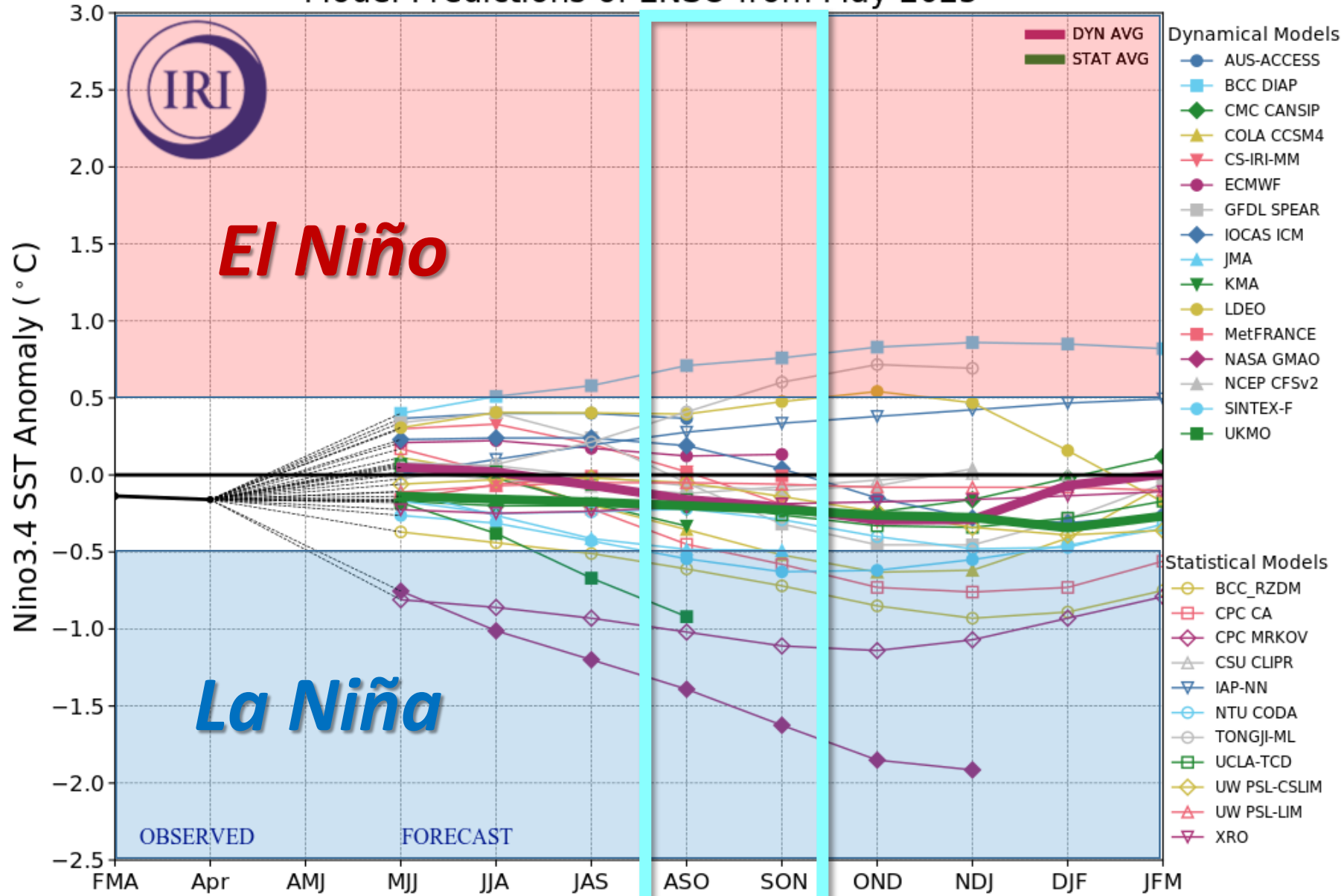
ENSO: El Niño / Southern Oscillation

'cooling' trend for the
east-central Pacific

shift towards *La Nada*
associated with
increased Atlantic
storm counts



Model Predictions of ENSO from May 2025



Expecting a Moderately-Active Season:

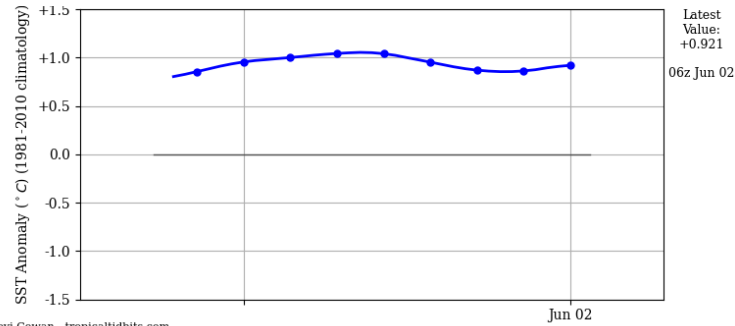
- * 'near-neutral' ENSO . . . associated with weaker wind shear over the tropical and sub-tropical Atlantic, on average
- * Sea-Surface Temperatures (SSTs) . . . expected to be warmer-than-normal through the heart of the season

CDAS Sea Surface Temperature Anomaly (°C) (based on CFSR 1981-2010 Climatology)

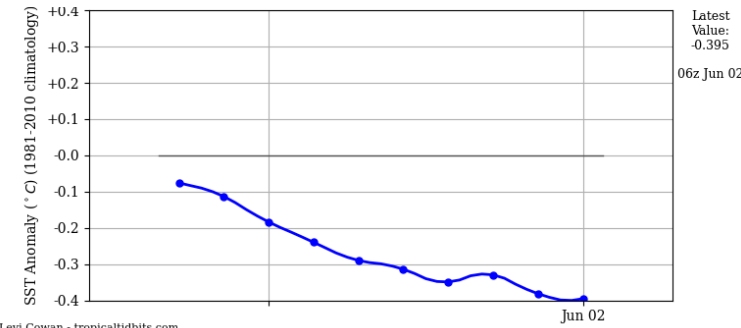
Analysis Time: 06z Jun 02 2025

TROPICALTIDBITS.COM

Gulf SST Anomaly



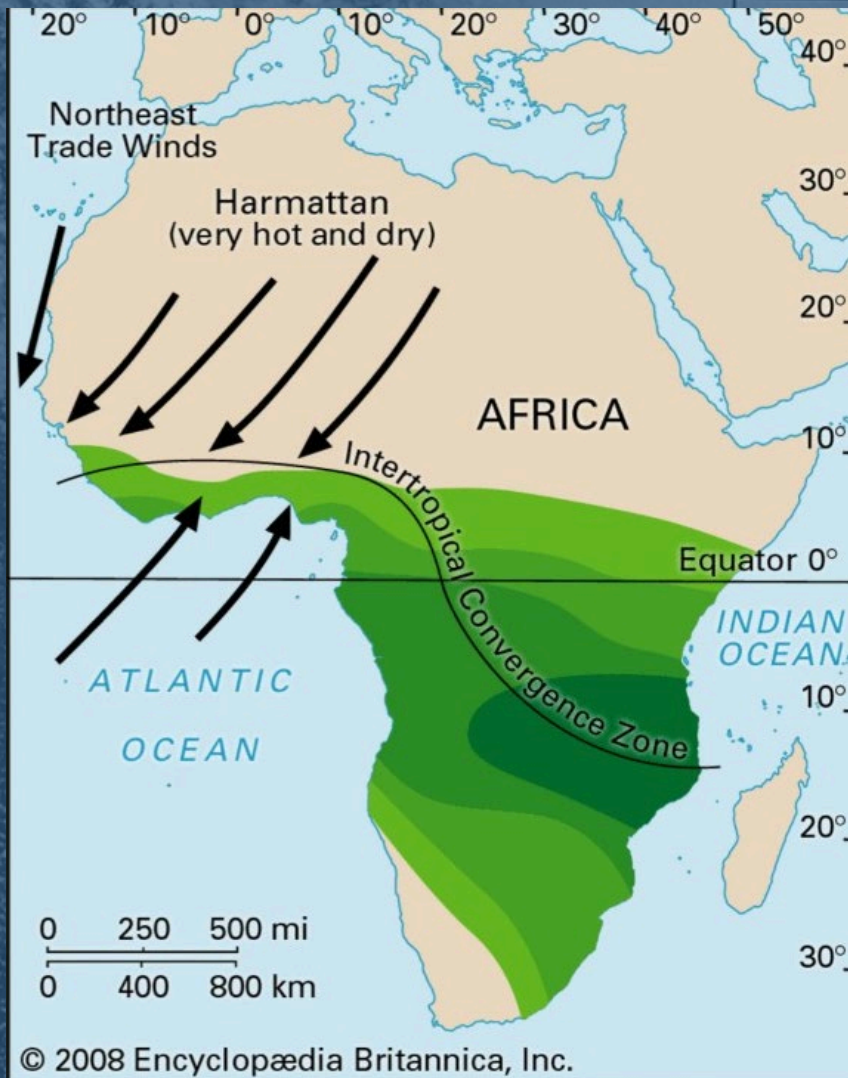
MDR SST Anomaly



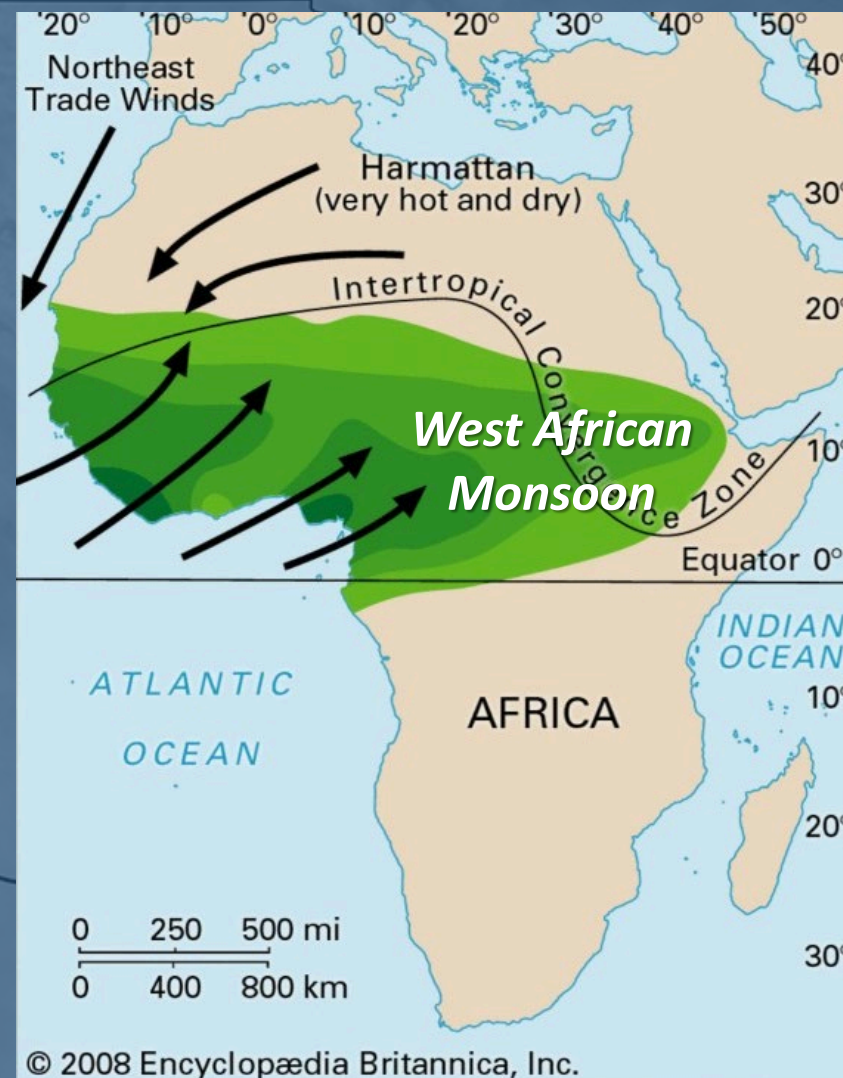
*Main Development
Region (MDR)*

Expecting a Moderately-Active Season:

- * ‘near-neutral’ ENSO . . . associated with weaker wind shear over the tropical and sub-tropical Atlantic, on average**
- * Sea-Surface Temperatures (SSTs) . . . expected to be warmer-than-normal through the heart of the season**
- * active West African Monsoon . . . enhances tropical wave development off the African continent**

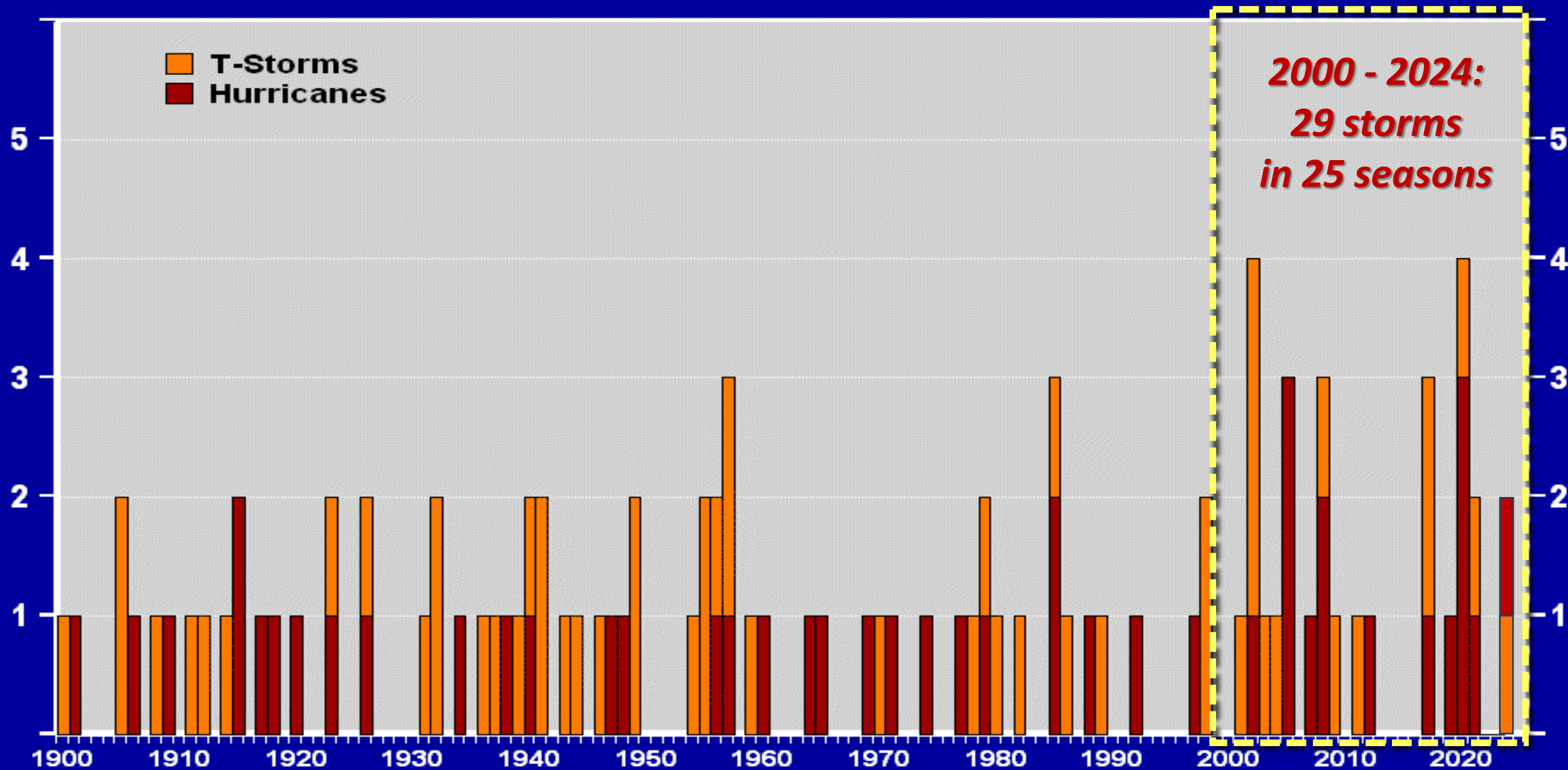


Winter / Spring



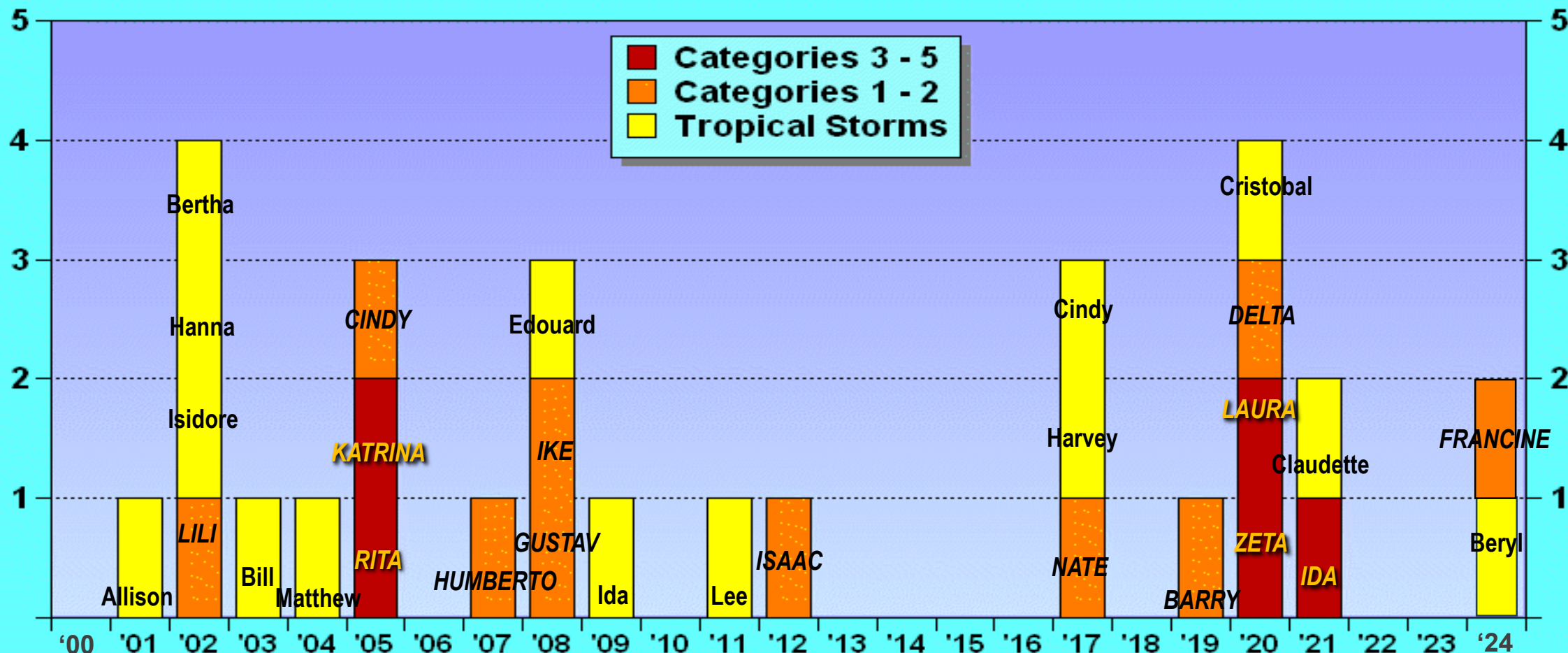
Summer / Fall

Louisiana Tropical Impacts: 1900 - 2024



Louisiana Tropical Impacts: Since 2000

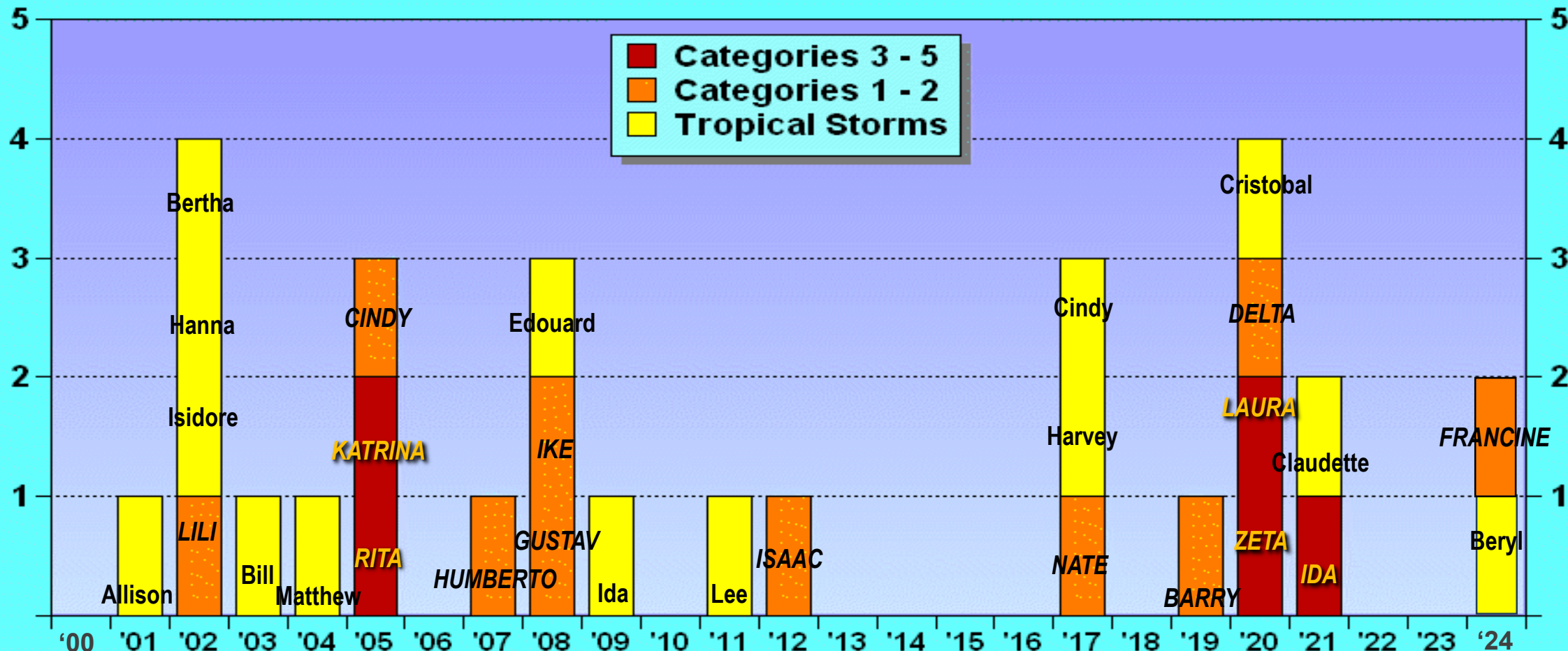
"Hyper-Active" Run for the New Millenium



*Includes storms that did not make landfall in Louisiana
but did deliver tropical storm or hurricane force winds*

Louisiana Tropical Impacts: Since 2000

"Hyper-Active" Run for the New Millenium



25 Seasons (2000 – 2024)
 10 Seasons: No Impacts (40%)
 5 Seasons: 3 or More Impacts (20%)

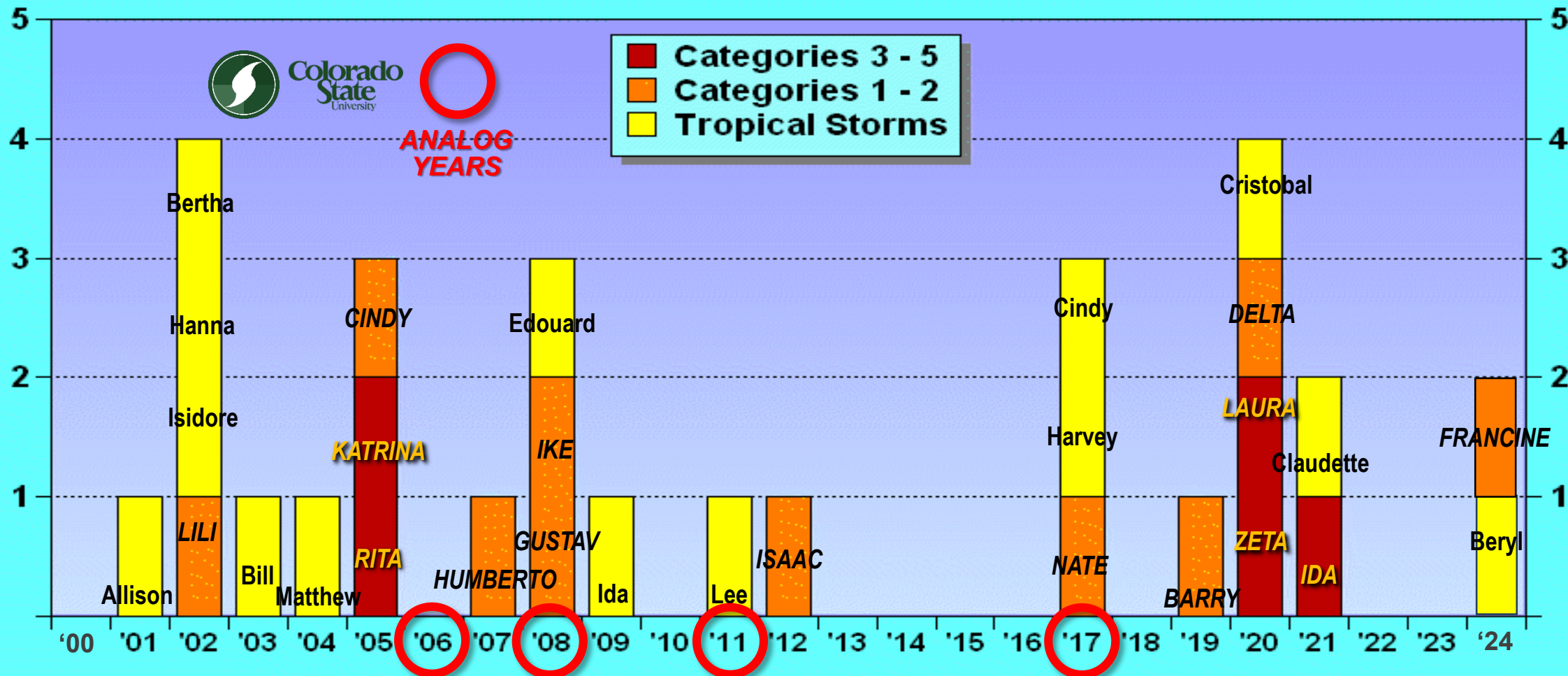


**Colorado
State**
University

Probability of ≥ 1 Tropical Cyclone within 50 mi.: 2025 Forecast			Probability of ≥ 1 Tropical Cyclone within 50 mi.: 1880-2020		
Named Storm	Hurricane	Major Hurricane	Named Storm	Hurricane	Major Hurricane
74%	46%	18%	66%	38%	14%

Louisiana Tropical Impacts: Since 2000

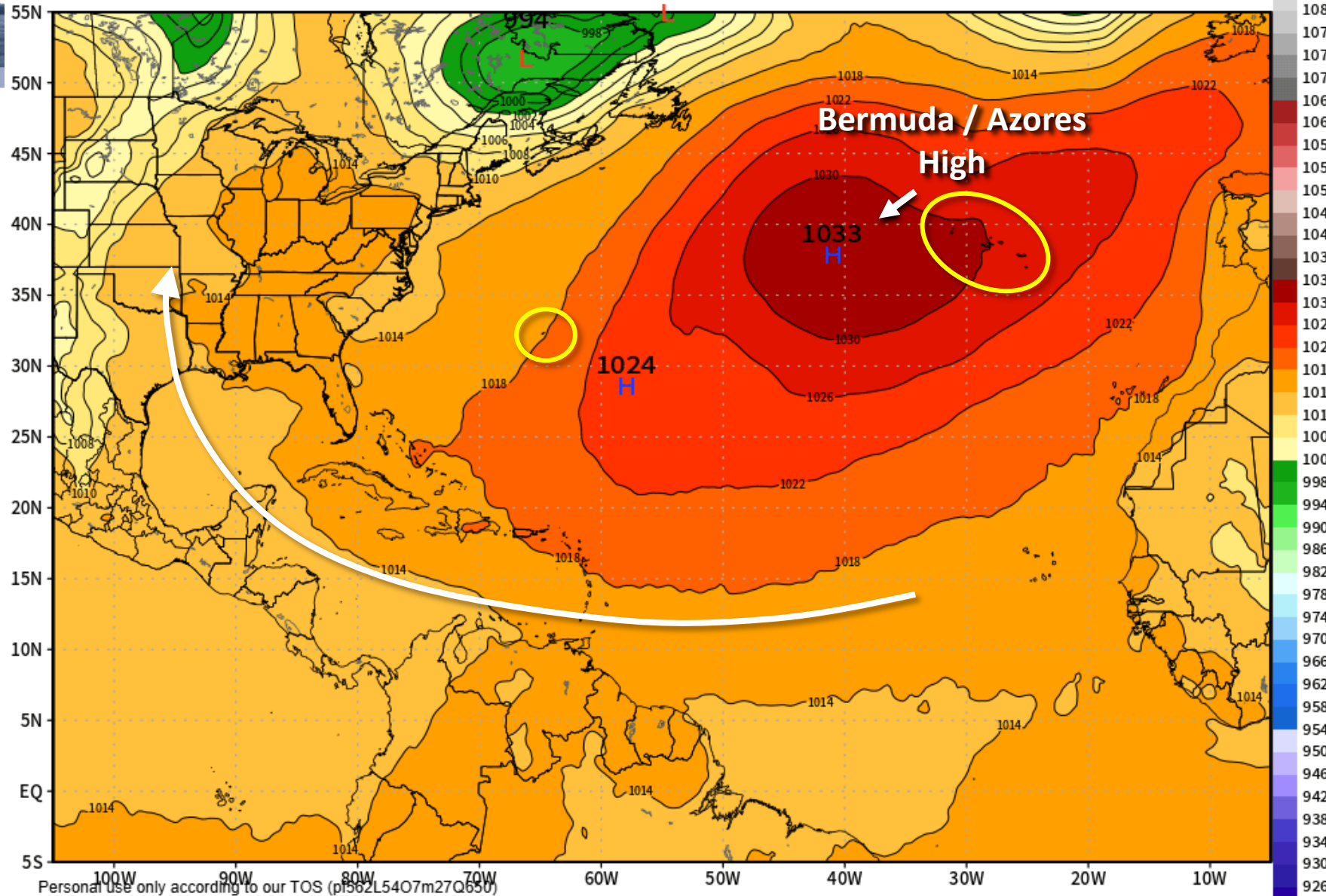
"Hyper-Active" Run for the New Millenium



25 Seasons (2000 – 2024)
 10 Seasons: No Impacts (40%)
 5 Seasons: 3 or More Impacts (20%)

NOAA GFSv16 | MSLP [hPa]
Init: 06Z02JUN2025 -- [0] hr --> Valid Mon 06Z02JUN2025

MIN|MAX: 994.1 | 1033.4 hPa
AREA AVG: 1016.0 hPa



GFSv16.3 T1534L127 | atlantic | mslp

weathermodels.com



Storm Strengthening over the Gulf is a Critical Concern

2024 Francine: Cat-1 to Cat-2 hours before landfall

2024 Beryl: TS to Cat-1 ~5 hours before landfall
25 LA Tornadoes

2021 Ida: Cat-1 to Cat-4 in ~18 hours
remained Cat-4 for 10+ hrs (landfall)

2020 Laura: Cat-1 to Cat-4 in ~30 hours
remained at Cat-4 for ~12 hrs (landfall)

2020 Delta: Cat-1 to Cat-3 in ~24 hours
fortunately weakened before landfall

2020 Zeta: Cat-1 to Cat-3 in ~15 hours before landfall

Preparedness

■ Training and Exercises

- ▶ 07-12 April – ROC Drill/CPX/Statewide Exercise
- ▶ 22 May – State Contraflow Meeting
- ▶ 03 June – ESF Quarterly Meeting and Hurricane Kickoff
- ▶ 10-12 June – ULE Exercise
- ▶ Regional Meetings

■ Logistics

- ▶ Transportation Contracts
- ▶ Warehouse Contracts
- ▶ Points of Distribution Contracts
- ▶ Logistical Staging Area Contracts
- ▶ Other Statewide Standby Contracts

CONTACT INFORMATION

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