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VERIFICATION OF THE 2019 ATLANTIC HURRICANE OUTLOOK BASED ON THE CYCLONE STRIKE INDEX

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HOUSTON, TEXAS USA – Jill F. Hasling, CCM using the Hasling Cyclone Strike Index [CSI] stated that the index indicated the section of the US coast with highest risk of a tropical cyclone strike was from Georgia to North Carolina with a 90% chance. This verified with Hurricane Dorian moving along the coast. The coast with the second highest risk was the west coast of Florida with a 70% chance. This verified with the landfall of Tropical Storm Nestor. The Texas and Louisiana to Alabama coast had a 60% chance of a landfall of named tropical system. This outlook verified with Tropical Storm Imelda and Hurricane Barry.

Secondary predictors of the CSI indicated that eleven to fourteen named tropical cyclones were expected in the 2019 hurricane season with five of them becoming hurricanes. There were sixteen names systems and 2 subtropical cyclones. Six of these cyclones intensified into hurricanes with three of them becoming major hurricanes. There was a 50% chance that at least one of these hurricanes would intensify into a category 3 or higher hurricane.

The CSI indicated that at least four cyclones would make landfall somewhere along the United States coastline. This verified with Hurricane Barry, Hurricane Dorian, Tropical Storm Imelda and Tropical Storm Nestor. There was also an indication that it would be a long season with cyclones as early as May and as late as December. Subtropical Andrea formed in May and Tropical Storm Sebastian in November.

The summary of the CSI 2019 Summary is below showing the observed values versus the forecasted value. The coast with the highest risk, Georgia to North Carolina verified with the landfall of Hurricane Dorian.

2019 CSI ATLANTIC HURRICANE OUTLOOK

2019 Cyclone Strike Index Outlook	CSI	OBSERVED
Gulf of Mexico Offshore Leases	90%	Barry, Imelda, Nestor
Texas	40%	Imelda
Louisiana to Alabama	60%	Barry
West Florida	70%	Nestor
East Florida	50%	
Georgia to North Carolina	90%	Dorian
East Coast of US	60%	
Mexico	40%	Fernand

SECONDARY CSI PREDICTORS

Number of Storms	11-14	16
Number of Hurricanes	5	6
Hurricane Days	24	23
Tropical Storm Days	83	69
US Landfalls	4	4
Category 3,4,5 Hurricanes	50%	3

The 2020 hurricane season calls for the highest risk of landfall of a named tropical cyclone to be along the Louisiana to Alabama coast with a 70% chance. The Gulf of Mexico oil leases have an 80% chance of experiencing a named tropical cyclone. The analog years of the CSI include 1965 which experienced Hurricane Betsy along the Louisiana and Mississippi coast.

2020 CSI ATLANTIC HURRICANE OUTLOOK

2020 Cyclone Strike Index Outlook	CSI
Gulf of Mexico Offshore Leases	80%
Texas	40%
Louisiana to Alabama	70%
West Florida	60%
East Florida	30%
Georgia to North Carolina	50%
East Coast of US	30%
Mexico	40%

SECONDARY CSI PREDICTORS

Number of Storms	7-10
Number of Hurricanes	4
Hurricane Days	7
Tropical Storm Days	47
US Landfalls	3
Category 3,4,5 Hurricanes	50%

The Analog years for Phase 2 of the Cyclone Strike Index are; 1879, 1890, 1902, 1914,1924, 1934, 1945, 1955, 1965, 1977, 1987, 997, and 2009. Significant hurricanes for this Phase of the CSI are:

- 1945 - Cat 4 Hurricane in Central Texas
- 1955 - Hurricane Janet Cat 5
- 1965 - Hurricane Betsy – Louisiana
- 1977 – Hurricane Anita Cat 5 in Mexico

The Hasling Cyclone Strike Index [CSI] Outlooks have been issued each year since 1984. The seasonal index has verified 91.7% of the time in regards to the section with the highest possibility of landfall. For more information on the outlook go to <http://www.wxresearch.com/outlook>.

For further information or questions regarding the hurricane outlook, please do not hesitate to contact Jill Hasling, CCM at jhasling@swbell.net or 713-818-9346