

DAILY DART

WSP USA INSPECTION SERVICES DISASTER AWARENESS REPORT

April 22, 2024

2024 Atlantic Hurricane Season Forecast

- While forecasters are predicting a busy 2024 hurricane season, exceptional rounds of Saharan dust that have plagued Europe could act as a wild card as the atmosphere transitions into summer.
- Every year, NOAA estimates more than 180 million tons of dust leave the African continent, but the extremely dry air also cuts down on thunderstorm activity and tropical cyclone formation.
- "While it is not unusual for Saharan dust plumes to reach Europe, there has been an increase in the intensity and frequency of such episodes in recent years, which could be potentially attributed to changes in atmospheric circulation patterns," Mark Parrington, a scientist at Europe's Copernicus Atmosphere Monitoring Service, said in a statement.
- As wind patterns change during the summer months, instead of the dry air layer taking a northerly path, more Saharan dust will be shunted westward, which is home to the main development region for tropical cyclone activity in the Atlantic basin.
- Significant plumes of dust and dry air are common in the Atlantic during the first two and a half months of the hurricane season.
- The prohibitive nature of the Saharan Air Layer (SAL) is one of many reasons why tropical development zones in June, July and the early days of August are limited to the western basin.
- Meteorologists widely accept late-August as the start of the uptick in activity in the basin, including in what is known as the main development region.
- If negative factors exist when forecasters expected a positive environment for cyclones, the year will not live up to pre-season expectations.
- During its April hurricane outlook, a team of researchers at CSU said they expect 23 named storms to form in 2024, with 11 that could reach hurricane status. Five of the 11 hurricanes are expected to reach major hurricane status with winds of at least 115 mph.



	Named Storms	Hurricanes	Major Hurricanes	Accumulated Cyclone Energy (ACE)	Direct U.S. Impacts
Forecast 2024	20-25	8-12	4-7	175-225	4-6
Previous Year 2023	19	7	3	145.6	4
30-Year Historical Average 1990-2020	14	7	3	123	4

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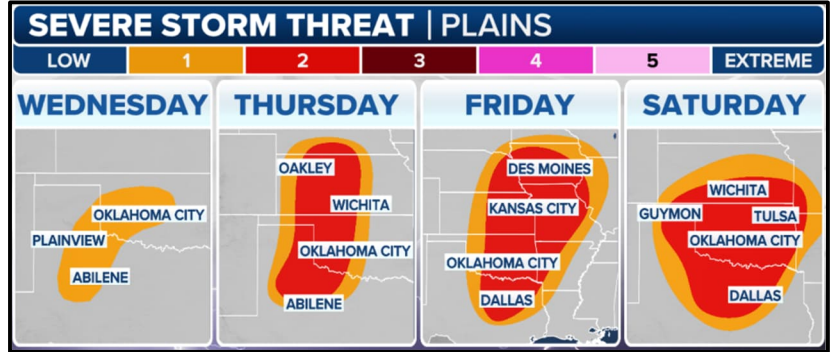
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Severe Weather Threat

- The central U.S., a region hit hard by severe weather last week, is again facing the threat of dangerous storms this week.
- The primary severe weather event of the week is expected to start Thursday in a swath that stretches from Nebraska to Texas.
- By Friday, the storms will cover an area that spans from Iowa to Texas.



WSP USA Inspection Services Active Disasters

Disaster Number and State	Disaster Type	Number of Counties Declared	Days Since Launch	Registration Deadline
4749 IL	Flooding	1 County	150	5/21/2024
4757 MI	Flooding	9 Counties	69	5/8/2024

WSP USA INSPECTION SERVICES ACTIVITY

