

DAILY DART

WSP USA INSPECTION SERVICES DISASTER AWARENESS REPORT

August 4, 2022

2022 Atlantic Hurricane Season Outlook – CSU’s Update

- Colorado State University hurricane researchers have reduced their forecast slightly but continue to call for an above-average Atlantic hurricane season in 2022, citing the likely persistence of La Niña as a primary factor for the continued anticipation of an active season.
- Sea surface temperatures averaged across the tropical Atlantic and Caribbean are slightly warmer than normal.
- The primary reason for the reduction in CSU’s forecast from early July was a decrease in the statistical and statistical/dynamical model guidance that underpins these outlooks, along with some anomalous cooling in the subtropical Atlantic.
- When the subtropical Atlantic is cooler than normal, it can sometimes favor increased shear in the tropics, potentially counteracting some of the reduced shear typically observed in La Niña years.
- The CSU Tropical Meteorology Project team is predicting 18 named storms in 2022, including the three named storms that have already formed (Alex, Bonnie and Colin).
- Of those, researchers expect eight to become hurricanes and four to reach major hurricane strength (Saffir/Simpson category 3-4-5) with sustained winds of 111 miles per hour or greater.
- Probability of major hurricanes making landfall after August 4th:
 - 68% for the entire U.S. coastline (full-season average for the last century is 52%)
 - 43% for the U.S. East Coast including the Florida peninsula (full-season average for the last century is 31%)
 - 43% for the Gulf Coast from the Florida panhandle westward to Brownsville (full-season average for the last century is 30%)
 - 57% for the Caribbean (full-season average for the last century is 42%)

	NEW CSU	PREV	NOAA	AVG
▶ NAMED STORMS	18	20		14
▶ HURRICANES	8	10		7
▶ CATEGORY 3+	4	5		3

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King Tides

American Samoa

- A state of emergency was declared in American Samoa because of severe weather conditions resulting in damage to roads, infrastructure, property, and coastal villages beginning July 14th.
- American Samoa Governor Lemanu Peleti Mauga declared the state of emergency after homes, the school and church on Aunu'u island were swamped by huge waves, the building housing the generators on the island were flooded and sustained damage.
- Several sections of the road are not accessible on the eastern side while Fatumafuti was covered with sand and debris and huge waves washed onto vehicles stalling them.
- Residents of east side villages said this was the worse they had seen as far as waves crashing onto the road.
- Huge rocks, all sorts of debris and garbage was dumped onto low lying beach side roads from the eastern end of the island to the western most tip of the island.
- On Tutuila, several sections of the road are not accessible on the eastern side while Fatumafuti was covered with sand and debris and huge waves washed onto vehicles stalling them.



Flooding Activity

Missouri

- Torrential rain has led to water evacuations overnight in St. Louis as the city still reels from last week's destructive floods.
- Rain pounded the region at rates of 1-3 inches per hour along with wind gusts up to 60 mph and a flash flood warning impacting more than 1 million people was in effect for several hours. The warning was lifted early Thursday for downtown St. Louis but remains in effect for the southern part of the city.
- There were early reports of stranded motorists, flooded roads, and flooded basements, according to the National Weather Service. Creeks were also rising and had exceeded levels reached last week.
- Last Tuesday, St. Louis experienced record-breaking rainfall that caused extreme flooding to homes and businesses largely in north St. Louis County.
- Two days later, residents were hit with another storm system flooding portions of St. Louis, including the Central West End.
- Some areas in the Metro East received more than 12 inches of rain. In St. Louis, the rainfall in just one day was more than the average for July and August, combined.
- Missouri is going through the process of seeking a federal disaster declaration, which would provide money for repairs and cleanup.

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Joint Preliminary Damage Assessments

State	Event	Number of Counties for IA		Start-End
		Requested	Completed	
VA	Severe Storms & Flooding July 12, 2022	1	0	7/27-TBD
MO	Severe Storms & Flooding June 13-17, 2022	3	0	8/1-TBD
AS	Historically Large Swell July 14-15, 2022	1	0	8/1-TBD

Pending Individual Assistance Declaration Request

State	Event	Date Submitted	Approved/Denied /Pending	Number of Counties/Tribes
	N/A			

WSP USA INSPECTION SERVICES ACTIVITY

