

---

# National Oceanic and Atmospheric Administration (NOAA)

## Atlantic Ocean Hurricane Season Forecast

---

### Overview

The National Oceanic and Atmospheric Administration (NOAA) has issued its August forecast for the 2022 Atlantic Ocean Hurricane Season. Forecasters within the U.S. governmental agency are now projecting **14-20 named storms, 6-10 hurricanes, and 3-5 major hurricanes (Category 3+)** between the months of June and November for the Atlantic Basin. This is a slight reduction from its May release, and also includes the three named storms which have already developed in 2022 (Alex, Bonnie, Colin).

### Forecast Details

NOAA's report indicates that there are multiple factors for the Atlantic hurricane season forecast, which suggests above-normal activity for the seventh consecutive season:

- Atmospheric conditions now present within the Main Development Region (MDR) are conducive for tropical cyclone development. These conditions are expected to last through the peak months of the hurricane season (August / September / October).
- The West African Monsoon has been stronger than average with rains in June near the 80th percentile of historical observations. The African Easterly Jet has also shifted northward, but not as far north as last year. A northward shift is favorable for tropical storm and hurricane formation, with a shift further north being more favorable. Also, sea-level pressure analyses indicate that pressures are generally below normal across the MDR.
- Models suggest a 62% chance of La Niña conditions persisting through the August / September / October timeframe and virtually no chance that El Niño will develop and suppress the hurricane activity this season. La Niña phases favor more activity as it results in weaker vertical wind shear and other inhibiting atmospheric or oceanic factors.
- There is some uncertainty in the forecast as some observed conditions are not as supportive of an active season. Sea surface temperatures in the MDR have been slightly above normal during the past 4 weeks but have been below average for some periods during the past 2 months. NOAA analysis based on the temperature difference between the Atlantic MDR and Global Tropics, as well as the Niño 3.4 Index, point to outcomes closer to normal levels of activity.

NOAA provides the following probabilities for the 2022 Atlantic Hurricane Season: 60% of an above-normal season, a 30% chance of a near-normal season, and a 10% chance of a below-normal season.

As a reminder: Above or below average hurricane season forecasts are often a poor predictor of seasonal economic or insured losses. Landfall location, intensity, and coastal / inland storm behavior are the predominant loss correlation drivers.



**NOAA Atlantic Basin Hurricane Season Forecast (June 1 – November 30)**

Forecast Parameter	Average (1991-2020)	2022 (May Forecast)	2022 (Aug Forecast)
Named Storms	14	14-21	14-20
Hurricanes	7	6-10	6-10
Major Hurricanes	3	3-6	3-5
ACE Range (Median) – 1951-2020	75.4-130%	115-200%	110-190%
Chance for an Above-Normal Hurricane Season	33%	65%	60%
Chance for a Near-Normal Hurricane Season	33%	25%	30%
Chance for a Below-Normal Hurricane Season	33%	10%	10%

Source: NOAA

**Historical Forecast Verification**

NOAA Atlantic Hurricane Season Forecast Validation: Last 15 Years

Year	Named Storms			Hurricanes			Major Hurricanes		
	May	Aug	Actual	May	Aug	Actual	May	Aug	Actual
2007	13-17	13-16	15	7-10	7-9	6	3-5	3-5	2
2008	12-16	14-18	16	6-9	7-10	8	2-5	3-6	5
2009	9-14	7-11	9	4-7	3-6	3	1-3	1-2	2
2010	14-23	14-20	19	8-14	8-12	12	3-7	4-6	5
2011	12-18	14-19	19	6-10	7-10	7	3-6	3-5	4
2012	9-15	12-17	19	4-8	5-8	10	1-3	2-3	2
2013	13-20	13-19	14	7-11	6-9	2	3-6	3-5	0
2014	8-13	7-12	8	3-6	3-6	6	1-2	0-2	2
2015	6-11	6-10	11	3-6	1-4	4	0-2	0-1	2
2016	10-16	12-17	15	4-8	5-8	7	1-4	2-4	4
2017	11-17	14-19	17	5-9	5-9	10	2-4	2-5	6
2018	10-16	9-13	15	5-9	4-7	8	1-4	0-2	2
2019	9-15	10-17	18	4-8	5-9	3	2-4	2-4	3
2020	13-19	19-25	30	6-10	7-11	14	3-6	3-6	7
2021	13-20	15-21	21	6-10	7-10	7	3-5	3-5	4
2022	14-21	14-20		6-10	6-10		3-6	3-5	

## About Aon

---

Aon plc (NYSE:AON) is a leading global professional services firm providing a broad range of risk, retirement and health solutions. Our 50,000 colleagues in 120 countries empower results for clients by using proprietary data and analytics to deliver insights that reduce volatility and improve performance.

© Aon plc 2022. All rights reserved.

The information contained herein and the statements expressed are of a general nature and are not intended to address the circumstances of any particular individual or entity. Although we endeavor to provide accurate and timely information and use sources we consider reliable, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act on such information without appropriate professional advice after a thorough examination of the particular situation.

Copyright © by Impact Forecasting®

No claim to original government works. The text and graphics of this publication are provided for informational purposes only.

While Impact Forecasting® has tried to provide accurate and timely information, inadvertent technical inaccuracies and typographical errors may exist, and Impact Forecasting® does not warrant that the information is accurate, complete or current. The data presented at this site is intended to convey only general information on current natural perils and must not be used to make life-or-death decisions or decisions relating to the protection of property, as the data may not be accurate. Please listen to official information sources for current storm information. This data has no official status and should not be used for emergency response decision-making under any circumstances.

Cat Alerts use publicly available data from the internet and other sources. Impact Forecasting® summarizes this publicly available information for the convenience of those individuals who have contacted Impact Forecasting® and expressed an interest in natural catastrophes of various types. To find out more about Impact Forecasting or to sign up for the Cat Reports, visit Impact Forecasting's webpage at [impactforecasting.com](http://impactforecasting.com).

Copyright © by Aon plc. All rights reserved. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise. Impact Forecasting® is a wholly owned subsidiary of Aon plc.