

Hurricane Dorian Meteorological Records/Notable Facts Recap

Intensity Measures

- 185 mph lifetime maximum sustained winds – tied with Gilbert (1988) and Wilma (2005) for the 2nd strongest maximum sustained winds in the Atlantic basin since 1950. Allen (1980) had maximum sustained winds of 190 mph.
- 185 mph maximum sustained winds by Dorian were the strongest on record by any hurricane in the Atlantic basin outside of the tropics (>23.5°N)
- 910 hPa lifetime minimum central pressure – tied for 9th lowest pressure (Hurricane Ivan-2004 also had 910 hPa lifetime minimum central pressure) in the Atlantic basin since 1980.

Note: Pressure records are not consistently reported in the Atlantic hurricane database prior to 1980.

- 48 Accumulated Cyclone Energy (ACE) units generated – the 5th most for a named storm forming in August in the satellite era (since 1966).
- 48 ACE – more than 14 full Atlantic hurricane seasons since 1950: 1962, 1968, 1970, 1972, 1977, 1982, 1983, 1986, 1987, 1991, 1993, 1994, 1997 and 2013.
- 14 named storm days – tied with Felix (1995) for 3rd place for most named storm days by a storm forming in August in the satellite era (since 1966).
- 10 hurricane days – tied for 6th place (with Emmy in 1976 and Frances in 2004) by a storm forming in August in the satellite era (since 1966).
- 4.5 major (Category 3+) hurricane days – tied for 7th place (with David in 1979) by a storm forming in August in the satellite era (since 1966).

Landfall Records

- *Abaco Island: 185 mph, 911 hPa – Category 5*
 - Strongest hurricane on record to make landfall in the Bahamas (by pressure)
 - Strongest hurricane on record to make landfall on Abaco Island

- Tied with Dorian's landfall intensity on Grand Bahama for strongest hurricane on record to make landfall in the Bahamas by maximum sustained wind

- *Grand Bahama: 185 mph, 914 hPa – Category 5*

- Tied with Dorian's landfall on Abaco for strongest hurricane on record to make landfall in the Bahamas (based on maximum sustained wind)

- First Category 5 hurricane on record to make landfall on Grand Bahama Island

- *North Carolina: 90 mph, 956 hPa – Category 1*

- 18th hurricane since 1950 to make landfall in North Carolina (including Hazel in 1954 which made landfall on NC/SC border)

- Same exact maximum wind speed (90 mph) and minimum central pressure (956 hPa) as Florence in 2018

- Landfalling central pressure of 956 hPa ties for 6th lowest central pressure (with Floyd in 1999 and Florence in 2018) for a landfalling North Carolina hurricane since 1950.

Translation Speed Records

- Dorian tracked only ~25 miles in 24 hours – the 2nd shortest straight-line distance tracked by an Atlantic major hurricane in a 24-hour period since 1950 (trailing only Hurricane Betsy in 1965 which tracked only ~12 miles in a straight-line distance in a 24-hour period).