

Hurricane Maria Meteorological Records/Notable Facts Recap

Valid as of 8am EDT - September 21, 2017

Lifetime refers to storm lifetime through 8am on September 21

Intensity Measures

- 175 mph max winds in the eastern Caribbean ($\leq 20^\circ\text{N}$, $75\text{-}60^\circ\text{W}$) – tied with David (1979) and Felix (2007) for 3rd strongest max winds in eastern Caribbean on record – trailing Irma (2017) at 185 mph and Allen (1980) at 180 mph for strongest winds on record in the eastern Caribbean

- 908 mb lifetime minimum central pressure – lowest in the eastern Caribbean ($\leq 20^\circ\text{N}$, $75\text{-}60^\circ\text{W}$) on record. Very limited pressure data available in Atlantic hurricane database prior to satellite era (since 1966), however.

- 908 mb lifetime minimum central pressure – 9th lowest in the Atlantic in the satellite era (since 1966)

Rapid Intensification Measures – Based on Operational Best Track

<http://www.ral.ucar.edu/hurricanes/repository/data/bdecks> [open/](#)) – These intensification rates may be slightly different than what would be calculated from operational NHC forecasts for Maria.

18 hour intensification rates listed since these are the ones that are most impressive in the operational best track

- 70 mph max wind intensification in 18 hours – only Wilma (2005), Felix (2007) and Ike (2008) have intensified more in 18 hours – Camille (1969), Anita (1977), Igor (2010) & Matthew (2016) also intensified 70 mph in 18 hours. Stats listed for the satellite era (≥ 1966).

- 53 mb pressure fall in 18 hours – only Gilbert (1988), Rita (2005), Wilma (2005) and Ike (2008) have had larger pressure falls in 18 hours in satellite era (≥ 1966).

Landfall Records

- Dominica: 160 mph, 924 mb – Category 5

- First Category 5 hurricane to make landfall on (or track within 50 miles of Dominica) on record. I included a search radius here since odds of

hurricane eye actually tracking over a small island like Dominica are quite small

- Puerto Rico: 155 mph, 917 mb – Category 4

- First Category 4 hurricane to make landfall in Puerto Rico since the San Ciprian Hurricane of 1932

- Strongest hurricane to make landfall in Puerto Rico since the Category 5 San Felipe Segundo Hurricane of 1928