

Region	Areas at risk	Headline	RAG rating
The Bahamas and southeast USA	Northern Bahamas, Florida, Georgia, and the Carolinas.	Hurricane Dorian will remain slow moving across northern parts of Bahamas during the rest of Monday and early Tuesday bringing devastating winds, life-threatening storm surge and exceptional rainfall. The centre of Dorian is still most likely to turn north just before reaching Florida late Tuesday, although hurricane force winds and other hazards are still forecast to impact the Florida Atlantic coast.	<div><div>Likelihood</div><div><div><div><div></div><div></div><div>X</div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>Impact</div></div></div>

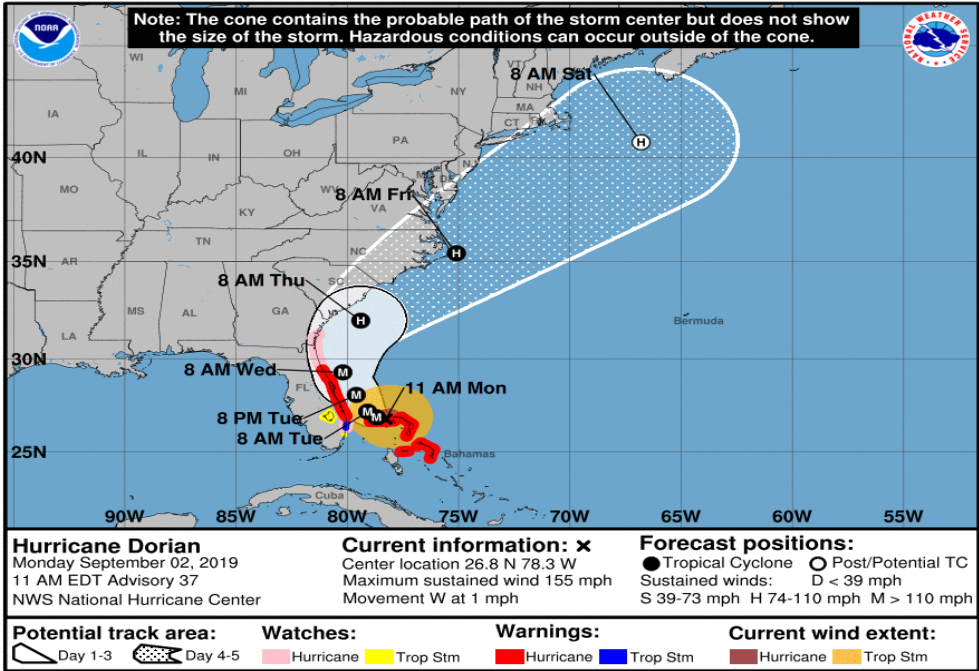
Meteorological impact

Wind: Destructive winds will continue to affect the Abaco Islands and Grand Bahama. Most structures could be severely damaged or destroyed. Widespread and long-lived power outages are likely. Conditions across the Atlantic coast of Florida and the coastlines of Georgia plus the Carolinas are expected to be slightly less extreme, although uncertainty remains as to the peak strength of the winds here.

Storm Surge: A combination of surge and large destructive waves on top of this are likely to inundate low-lying coastal communities with significant coastal flooding expected. The long duration of the event may mean several rounds of inundation for the northern Bahamas, the latest surge forecasts suggest water levels of up to 5 to 7 metres above normal tide in this region. A significant storm surge is still expected along the east coast of Florida this week (locally >2 metres) and eventually the Carolinas, but again this is unlikely to be quite as severe as in the Bahamas.

Rainfall: Torrential rain will fall widely across the Bahamas and along the east coast of Florida and, later in the week, across the Georgia and the Carolinas. 400 to 600 mm of rain is expected to fall widely along the path of the hurricane. The slow moving nature of Dorian across the Abaco Islands and Grand Bahama today, will allow 900 to 1200 mm to fall in this region. Evidently there is the potential for widespread and severe flooding.

NHC track forecast for Dorian
(in EDT – add 5 hours for UK time)



Sources

Next Issue

Page

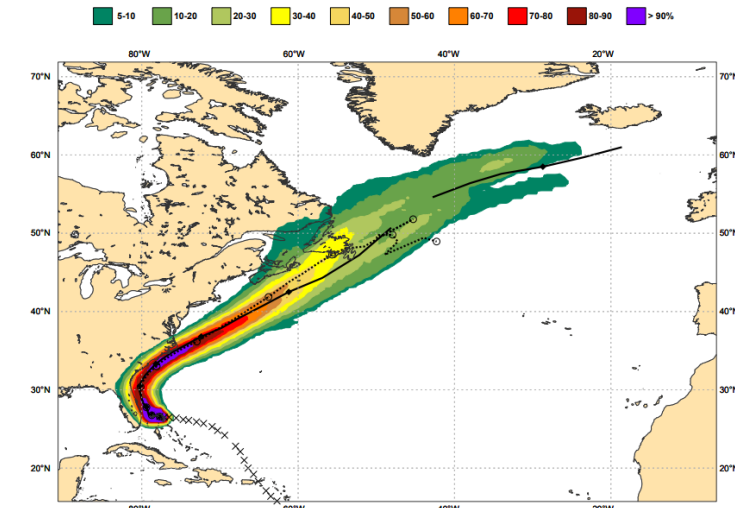
Discussion and additional information

At 02/1500 UTC, Dorian was located 20 miles east of Freeport, Grand Bahama moving west at around 1 mph. Maximum sustained winds of 155 mph, with gusts of 190 mph. Dorian made landfall across Great Abaco (yesterday) and then Grand Bahama (last night) and continues as a Category 4 major hurricane.

Environmental conditions will remain favourable for Dorian to remain a major hurricane until midweek, although intensity is likely to continue to lower from that stated above. Recent satellite imagery has suggested an eye replacement cycle has completed, this has weakened the maximum wind speeds, but is increasing the radius of the hurricane strength wind field. Other effects such as the creation a cool sea surface temperature wake, land interaction, later increased wind shear will act to gradually weaken the storm.

Once clear of the Bahamas on later on Tuesday, the general model consensus is for the hurricane to turn northwestwards, then northeastwards near to the southeastern US coast. Although the centre of the hurricane is most likely to remain just offshore from Florida's Atlantic coast, only a slight deviation of track to the left (west) could lead to a landfall in Florida. Even without a landfall, hurricane force winds, large damaging waves, a storm surge locally in excess of 2 metres, and exceptional rainfall are forecast along the Atlantic coast of Florida through later Monday all the way to Thursday. These threats will migrate up the eastern seaboard (Georgia and Carolinas) from midweek.

Date 20190902 00 UTC @ECMWF
Probability that **DORIAN** will pass within 120 km radius during the next **240** hours
tracks: **solid**=HRES; **dot**=Ens Mean [reported minimum central pressure (hPa) **915**]



ECMWF track forecast shows a continued spread of solutions, with a continued risk that Dorian may make a landfall across Florida

Infra Red Satellite image showing Dorian's current position across Grand Bahama at 02/1550 UTC, with a well-developed eye slow moving across Grand Bahama.

