Significant Weather Impacts 2022 Turks and Caicos Islands

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Turks and Caicos Islands

2022 Hurricane Season – Impacts



One (1) storm impacted the TCI in 2022, namely Fiona. Fiona impacted the TCI as a Cat3 hurricane on 19 to 20 September

The easternmost islands were the hardest hit. There was minimal damage to the western islands.







2 AM AST Sunday Sep 18 2022 NHC Official Track Forecast (left) and GIF of Fiona from 0412Z to 0517Z Sep 20 2022 (right)

Turks and Caicos Islands

2022 Hurricane Season – Impacts

Wind measurements from Station #78114 Providenciales International Airport



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Tropical storm conditions experienced in Providenciales and North Caicos. Hurricane conditions in Grand Turk, Salt Cay, South and Middle Caicos

There were no fatalities or injuries

Wind speed (kt) and wind direction (degrees) recorded at Providenciales International Airport from 12 PM Sep 19 2022 to 12 PM Sep 21 2022 **Turks and Caicos Islands**

2022 Hurricane Season – Impacts



2022 Hurricane Season – Best Practices



the Turks and Caicos Islands. These swells will continue to spread westward across the southwestern Atlantic toward the central and northwestern Bahamas and the US east coast through midweek. These conditions could cause life-threatening surf and rip current conditions



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Began producing local products once Bahamas Dept of Meteorology issued a Hurricane Alert on September 17

TCIAA Met and DDME established issuance times for local Tropical Advisory (10 am and 4 pm) (more frequent while TCI was being impacted)



2022 Hurricane Season – Best Practices



Examples of communication practices and messaging used during Fiona

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Push Notifications through DDME Alert App and DDME Social Media outlets

<u>App download</u>: A total of 3202 new downloads were recorded between September 1 to 24, 2022. On 17th Sept, the most download per day recorded at 936 downloads (day of first press conference).

NEOC Press Conference briefings livestreamed on Facebook

2022 Hurricane Season – Challenges



The public is hereby being cautioned that the shelter-in-place advisory remains activated for the Turks and Caicos Islands.

The National Emergency Operations Center (NEOC) has been in contact with the Bahamas Met Office who advises that the weather conditions in the Turks and Caicos Islands remain unstable with intermittent gusts of heavy winds and rains still being experienced. This is expected to continue for the next 6 to 8 hours. Therefore, despite the perceived improvements to weather conditions, the all clear will not be issued at this time.

The public is again asked to remain indoors, on all islands, as it is not safe to travel on roadways, especially where there are fallen power lines and cables.

Prior to the issuance of an all clear, an operational clear must first be given to the utility companies to secure their network infrastructure for the safety of the public.

The public is urged to act responsibly and to continue to heed the Department of Disaster Management and Emergency's advisories.

End

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Challenges/Limitations: Delay in messaging Issuance of the "All Clear" Lack of (reliable) equipment Loss/lack of data

Suggestions to overcome or improve the situation: Automating data retrieval Developing a national weather observing network Developing a website for the weather service