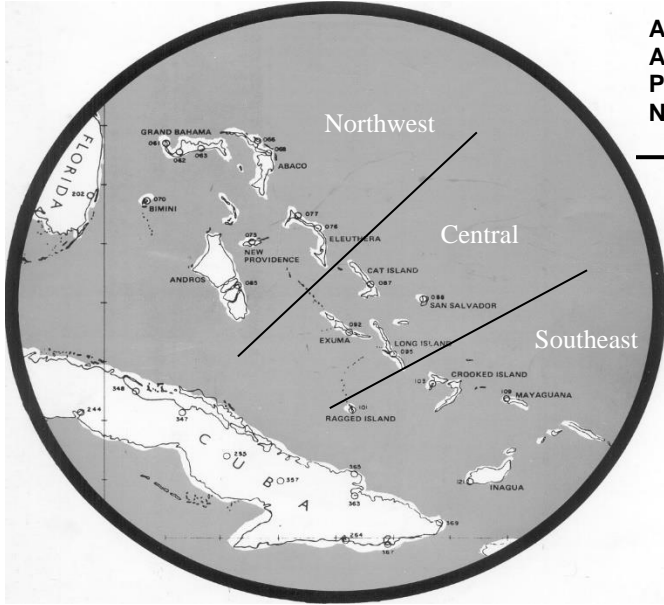




Commonwealth of The Bahamas

DEPARTMENT OF METEOROLOGY



Airport Industrial Park
AIP Road
P.O. Box N-8330
Nassau, Bahamas

Fax:
Telegram
Telephone
Web Site:

(242)-356-3739
Meteo Bahamas
(242)-702- 5250
met.gov.bs

WEATHER LOG AUGUST, 2024

GENERAL WEATHER SITUATION OVER THE BAHAMAS

During the first days of August (01st – 03rd), a high pressure ridge provided partly to mostly sunny and hot conditions with brisk winds, while a robust and vigorous tropical wave brought showers and thunderstorms to The Bahamas throughout the weekend. The Bahamas Department of Meteorology (BDM) issued a Special Weather Statement about a strong tropical wave (Potential Tropical Depression) at noon EDT Thursday, 01st of August 2024 as there was the potential for the system to develop into a tropical depression during the weekend in the vicinity of The Bahamas. The weather impact from the tropical wave as it moved through the archipelago was detailed for each region of The Bahamas, so proper planning and preparations would be met for the busy holiday weekend. A heat advisory was in effect across The Bahamas, and mariners, especially in the Southeast Bahamas, were advised to remain vigilant for the threat of waterspout and funnel cloud activity. Beachgoers in the Central and Southeast Bahamas were reminded of dangerous rip currents along east coast shorelines. The BDM issued Severe Thunderstorm Warnings and Watches between 9 am EDT Thursday, 01st of August to 11:59 pm EDT Saturday, 03rd August 2024 for Inagua, Mayaguana, Long Cay, Turks and Caicos, Ragged Island, Crooked Island, Acklins, Long Island, Rum Cay, San Salvador, Bimini, Andros and their adjacent cays and waters. The high temperatures ranged from the low to mid 90's °F, and the low temperatures from the mid 70's to low 80's °F across The Bahamas.

The Bahamas was under the influence of the outer rain bands of Tropical Storm Debby as it moved over the eastern Gulf of Mexico during the week of the 04th through the 10th of August. High pressure ridge produced moderate to locally fresh breezes across The Bahamas before it weakened mid-week ahead of a developing weak low-level trough over the Southeast Bahamas. A mid-upper level trough supported showers and thunderstorms across the Extreme Northwest Bahamas at the start of the weekend as the former low-level trough dissipated. The BDM issued Severe Thunderstorm Warnings and Watches between midnight EDT Sunday, 04th of August to noon EDT Friday, the 12th of August 2024. The BDM asked beachgoers to exercise caution along the eastern and southern shorelines due to rip currents and possible rough surf. The public was alerted to the elevated risk of severe weather due to the movement of outer rain bands extending from Tropical Storm Debby. There was the potential for localized flooding in low-lying and flood-prone areas during heavy and prolonged rainfall events in the Northwest Bahamas. Small craft operators were urged to remain near port until the threat of rough seas and severe weather diminished. Residents were advised to remain hydrated and to wear loose-fitted clothes and sunscreen due to the high UV and heat indices. The high temperatures ranged from the low to mid 90's °F, and the low temperatures was from the low 70's to low 80's °F across The Bahamas.

The northern extent of a tropical wave supported some shower activity over the Southeast Bahamas as it moved westward at the start of the week (11th -17th). A weakening high pressure ridge maintained hot and humid conditions with gentle to moderate breezes across the islands. The BDM issued Severe Thunderstorm Warnings and Watches between 2:40 pm EDT Monday, the 12th of August to 5:10 pm EDT Saturday, the 17th of August 2024 for Eleuthera, Grand Bahama, New Providence, Eleuthera, Great Exuma, Andros, Long Island, Rum Cay, and their adjacent cays and waters. Swells generated by Hurricane Ernesto, well northeast of the area, impacted the island chain mainly along the Atlantic,

making boating and beaching conditions hazardous through mid-weekend. Additionally, due to the upcoming full moon, the public was advised to exercise caution when traversing along eastern Atlantic coastal roads, due to the threat of overtopping waves, coastal inundation, and sea spray, along with minimal flooding in or near coastal residences, lakes, and swamp or marshlands during higher than usual high tides. Later in the week, a diffused frontal boundary moved through the Northwest Bahamas before it developed into a trough across the Central Bahamas and triggered scattered showers and isolated thunderstorms. The high temperatures ranged from the mid 80's to mid 90's °F and the low temperatures from the low 70's to low 80's °F across The Bahamas.

The combination of an upper level trough over the Southeast United States and a lingering surface trough over the Central Bahamas, enhanced by abundant moisture, increased instability and promoted the development of showers and thunderstorms throughout the archipelago during the week of the 18th through the 24th of August. By mid-week, a westward-moving tropical wave increased shower and thunderstorm activity across the Central and Southeast Bahamas, then advanced unsettled weather into the Northwest Bahamas through the weekend. The BDM issued Severe Thunderstorm Warnings and Watches between 2:10 pm EDT Sunday, the 18th of August to 2:10 pm EDT Saturday, the 24th of August 2024. A heat advisory was in place for certain regions of The Bahamas and residents were reminded to pay close attention to severe weather issuances from the BDM during the weekend, especially across the Northern and Northwest Bahamas. There was an elevated risk of localized flooding during heavy downpours and prolonged rainfall. Minor coastal flooding was likely during periods of high tide. Beachgoers were advised to avoid entering the water of the eastern Atlantic beaches due to the moderate to high risk of rip currents in areas of the Central and Southeast Bahamas. The high temperatures ranged from the upper 80's to mid 90's °F and the low temperatures from the low 70's to low 80's °F across The Bahamas.

The week of the 25th through the 31st of August began with a high pressure ridge that produced a typical summer-type weather pattern, with the chance of afternoon showers and thunderstorms. However, a complex weather pattern developed with a mid-upper level trough digging southward into the Bahamas while interacting with a low-level trough associated with the westward motion of a tropical wave. These systems triggered unsettled weather and potentially severe thunderstorm activity throughout The Bahamas. The BDM issued Severe Thunderstorm Warnings and Watches between 9:30 am EDT Tuesday, the 27th August to 11:59 pm EDT Saturday, the 31st August 2024 for Andros, the Exumas', New Providence, Turks and Caicos Islands, Grand Bahama, Moore's Island, Abaco, Berry Islands, Cat Island, Rum Cay, Acklins, Eleuthera, Bimini, and their adjacent cays and waters. The high temperature ranged from the low to mid 90's °F, and the low temperature from the mid 70's to low 80's °F across The Bahamas.

General Weather Situation Over New Providence for August 2024

The mean maximum daytime temperature (91.4°F) rose 0.4°F above the normal average, and the mean minimum nighttime temperature (79.3°F) rose 2.3°F above the normal average. The total rainfall was 4.84 inches, 1.56 inches below the mean average. The monthly mean relative humidity (85.0 percent) rose eight percent above the long-term mean. The daily average sunshine hours (8.6) were about 0.2 of an hour below the 30-year norm. Wind speed averaged 13.9 knots, which was 7.6 knots above the 30-year average. The wind direction blew from the southeast through the south across the Bahamas. The standard deviation for the month was 1.04°C, 0.04°C above the norm.



Geoffrey Greene
For (Director)

Supplementary

BDM – Bahamas Department of Meteorology

Issued date and time: 9/18/2024 10:39 AM