



Five-Day Weather Forecast for the Period:
[Day 19th to Day 23rd (November), (2024)]

DATE: 18/11/2024

ISSUANCE TIME: 11:37am

Brief Synopsis

Today, Monday (18th), an induced low-level trough together with equatorial moisture advection across the southern Leeward and the Windward Islands is producing partly cloudy to at times cloudy conditions, interrupting some fair periods, with light to moderate showers over varying areas. There is a medium chance for the development of isolated heavy showers or thunderstorms. A shear line to the north is also contributing to partly cloudy conditions with moderate showers over the northern Leeward Islands. For Trinidad and Tobago, there is a medium chance for an isolated heavy shower or thunderstorm to interrupt initially fair conditions, during the afternoon.

Areas of Interest to Trinidad and Tobago and the Lesser Antilles

There are no areas of interest (for cyclonic development) to the east of the Lesser Antilles at this time.

The ITCZ is at present situated across the equatorial Atlantic, to the south east of Trinidad and Tobago and the Windward Islands. In the event of any northward modulation, the associated low-level convergence and moisture advection is likely to produce some cloudiness and precipitation over Trinidad and Tobago and the Windward Islands.

Synopsis and 5-day outlook

Two main synoptic features for convective weather development and precipitation production over the Lesser Antilles are expected to continue during this outlook period. The first is as a result of sub-tropical frontal activity dipping southward, to the near north of the Lesser Antilles, creating shear lines near or over the northern Leeward Islands. The second is equatorial moisture advection and surface convergence, associated with the ITCZ, which is to the southeast of Trinidad and Tobago and the Windward Islands, at this time. The passing of frontal systems to the near north, is likely to, at times, induce perturbations in the equatorial wind field across the Windward Islands, and together with some sunshine heating and local dynamics, can produce isolated convective activity in the form of a heavy shower or a thunderstorm.



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Sub-tropical cyclonic and frontal activity is expected to continue to periodically generate rough seas to the north of the Lesser Antilles. These effects are likely to be radiated southward at times, with varying intensities, especially at this time when the northern hemisphere is transitioning into the winter season. **Persons are advised to be always cautious when engaging in any marine activity.**

Key Features

- **Tuesday (19th)**

Light wind flow, together with some trailing convergence and moisture advection across the Lesser Antilles from the southeast, is likely to produce partly cloudy periods with light to moderate showers interrupting some fair conditions over varying areas. For Trinidad and Tobago, there is a low to medium chance for an isolated heavy shower during the early morning, otherwise generally fair conditions for most of the morning. With some sunshine heating, light winds, and available moisture, there is a medium chance for the development of a heavy shower or isolated thunderstorm during the late morning to afternoon. The chance for the isolated afternoon heavy shower or thunderstorm activity is highest over western and central Trinidad during the early afternoon.

- **Wednesday (20th)**

Wind shear, low-level convergence, and moisture advection across the Leeward and northern Windward Islands are expected to produce cloudy conditions with moderate showers over varying areas and a medium chance for isolated heavy showers or thunderstorms. For Trinidad and Tobago and the southern Windward Islands, generally fair conditions are expected, but with a weak wind flow, sunshine heating, and local dynamics, there is a low to medium chance for an isolated heavy shower or thunderstorm to develop, near hilly areas or western Trinidad, during the late morning to afternoon.



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- **Thursday (21st)**

A surface trough over the northern Leeward Islands is expected to produce partly cloudy to cloudy conditions with showers over varying areas and a low to medium chance for a heavy shower. As a ridge begins to push in from the northeast of the Lesser Antilles, it is likely to create increased surface convergence across the island chain. Together with equatorial moisture advection from the southeast, this is likely to produce partly cloudy periods with light to moderate showers interrupting fair conditions in varying areas. There is a low chance for an isolated heavy shower, favouring hilly areas. Trinidad and Tobago, being fair to partly cloudy, is likely to have brief, light, or moderate showers in a few areas. There is a medium chance for an isolated heavy shower or isolated thunderstorm to develop during the late morning to afternoon, favouring hilly areas and southern or eastern Trinidad.

- **Friday (22nd)**

A convergent flow over the northern Leeward Islands and the eastern Greater Antilles, being pulled northward by frontal activity further north, will likely bring partly cloudy to cloudy conditions, with medium chances for isolated heavy showers or thunderstorms. For Trinidad and Tobago, an area of increased surface convergence to the near east of Trinidad is likely to create a high chance for thunderstorm activity over the eastern coastal and offshore areas of Trinidad and just south of Tobago, during the early morning. As the early morning progresses, there could be a northward shift of the core of the surface convergence which, if that occurs, would cause the high chance for thunderstorm activity to propagate northward over Tobago. Trinidad and Tobago is expected to become fair during the morning but with available moisture, some sunshine heating and local dynamics there remains a low to medium chance for an isolated heavy shower to favour western Trinidad or hilly areas, during the late morning to afternoon.

- **Saturday (23rd)**

Except for a continuing convergent flow over the northern Leeward Islands and the eastern Greater Antilles, influenced by northern frontal activity, the southern Leeward Islands and the northern Windward Islands are expected to be generally fair. Increased surface convergence and moisture advection across Trinidad and Tobago and the southern Windward Islands is expected to produce partly cloudy to cloudy periods with showers over varying areas and moderate chances for thunderstorm development from early morning to afternoon.



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With the occurrence of any heavy shower or thunderstorm, winds can become gusty, with strong downdraughts possible.

In the event of thunderstorm activity be mindful of lightning discharges. Street or flash flooding is very likely in the vicinity of showers.

Precipitation over elevated terrain raises the risk of landslips or landslides.

Downdraughts from heavy showers or thunderstorms can also cause choppy seas in the vicinity.

Dust Concentrations

There are presently mild concentrations of Saharan dust in the atmosphere. This is expected to remain so for this outlook period except for brief fluctuations at times to mild to moderate.

The Trinidad and Tobago Meteorological Service continues to analyse and monitor all developments within the area of interest.

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