

Five-Day Weather Forecast for the Period:

17th - 21st May 2025

DATE: 16/05/2025

ISSUANCE TIME: 12:00pm

Brief Synopsis
<p>Synopsis and 5-day outlook</p> <p>Atmospheric instability and varying surface convergence with equatorial moisture advection from between the east and southeast across Trinidad and Tobago and the southern Windward Islands are likely to produce periods of cloudiness with showers over varying areas and medium to high probabilities for heavy showers or thunderstorm activity during Saturday (17th) and Monday (19th). Relatively fairer and more stable conditions for Trinidad and Tobago and the southern Windward Islands by Tuesday (20th).</p> <p>There is the possibility for a brief modulation of the ITCZ to produce associated weather at the latitude of Trinidad and Tobago between Saturday (17th) and Monday (19th).</p>



Trinidad & Tobago Meteorological Service

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F 750-03-20

Five-day Weather Forecast Page 2 of 2

The 5 Day Outlook Period

- **Saturday (17th)**

Trinidad and Tobago and the southern Windward Islands: From pre-dawn to early afternoon, partly cloudy to cloudy conditions are expected, with light to moderate showers over varying areas. There is a medium to high chance for thunderstorm activity, initially over eastern to south-eastern offshore areas and south-east Trinidad, eventually moving in over other areas on land. After mid-afternoon, some abatement is expected, but by late evening into the night, an increase in cloudiness and showers is likely again. The remainder of the Lesser Antilles: Partly cloudy conditions, with mostly cloudy conditions favouring the Leeward Islands is expected. There is a medium to high chance for heavy showers and thunderstorm activity over the Leeward Islands.

- **Sunday (18th)**

Trinidad and Tobago and the southern Windward Islands: From overnight into the early afternoon, partly cloudy to cloudy conditions with light to moderate showers over varying areas are expected. Heavy showers and isolated thunderstorm activity are expected to favour, but not necessarily be confined to, south-east offshore areas and southern to western Trinidad. Some abatement is likely during the afternoon, but a continuation of partly cloudy to cloudy conditions with a few showers in some areas can be expected. The remainder of the Lesser Antilles: Partly cloudy conditions, with mostly cloudy conditions favouring the northern Leeward Islands. There is a medium to high chance for heavy showers and thunderstorm activity over the northern Leeward Islands.

- **Monday (19th)**

Trinidad and Tobago: From overnight into the late morning, partly cloudy conditions with a few showers over varying areas are expected. There is a medium chance for a heavy shower to favour southern Trinidad, northeast Trinidad, and hilly areas. A settled evening and night with brief showers over a few areas is also likely. The remainder of the Lesser Antilles: Mostly fair conditions with brief light or moderate showers mostly near hilly areas are likely.

- **Tuesday (20th)**

Trinidad and Tobago and the remainder of the Lesser Antilles: Mostly fair conditions, being partly cloudy at times over the Windward Islands, with brief light or moderate showers mostly near hilly areas, are expected. There is a low chance for the development of an isolated heavy shower over southern and eastern Trinidad.



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Five-day Weather Forecast Page 2 of 2

- **Wednesday (21st)**

Trinidad and Tobago and the remainder of the Lesser Antilles: Mostly fair conditions, with brief light or moderate showers mostly near hilly areas, are likely. There is a low chance for the development of an isolated heavy shower over southern and eastern Trinidad.

Areas of Interest to Trinidad and Tobago and the Lesser Antilles:

The center of the central sub-tropical north Atlantic high-pressure cell continues to reside relatively further north, and together with the synoptic signals of increased northward intrusion of equatorial moisture and surface convergence, it is indicating a transition of the tropical weather pattern from the dry season into the wet season.

A trough to the north of the eastern Greater Antilles is influencing increased convergence and moisture build-up over the eastern Caribbean Sea and the Leeward Islands. This weather pattern is likely to continue until late Sunday (18th).

The influence extending southward is also expected to help in creating a northward pull of equatorial moisture and increased convergence across Trinidad and Tobago and the southern Windward Islands, with an intrusion of weather associated with the ITCZ between Saturday (17th) and Monday (19th).

Together with an axis of divergence in the upper levels of the atmosphere, it is expected that there will be increasingly unstable atmospheric conditions over Trinidad and Tobago and the southern Windward Islands during the next three (3) days. By Tuesday (20th), the bulk of the equatorial moisture is expected to revert to a latitude south of Trinidad (07N to 08N), leaving Trinidad and Tobago in more stable and relatively fairer conditions for the remainder of the outlook period.

Looking beyond this outlook period: Extended analysis is indicating a ridge pattern of relatively fair weather until late Sunday (25th) into Monday (26th) and Tuesday (27th), when a trough is likely to produce increased equatorial moisture advection with surface convergence and another round of instability with convective weather over Trinidad and Tobago and the southern Windward Islands.



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Five-day Weather Forecast Page 2 of 2

Seas: From Friday (16th) until Sunday (18th) morning, the wind waves in the open waters to the near east and northeast of Trinidad and Tobago are expected to be generally between 2.5m and just under 3.0m. From Sunday (18th) afternoon, the wave heights are likely to be near 2.0m to just above 2.0m at times for the remainder of the outlook period. Extended analysis is indicating that the wind wave heights are likely to continue to be near 2.0m, to just above 2.0 m at times, for the seven (7) days following this outlook period.

Wind: The near-surface to mid-level wind over Trinidad and Tobago and the Windward Islands is expected to be 20kt to 25kt at 2000ft to 5000ft, and coming generally from between the east and southeast during this outlook period. Extended analysis for the following seven (7) days after this outlook period is indicating a slight reduction in speeds to between 15kt to 20kt until Sunday (25th), when the speeds are likely to again show an increase to 20kt to 25kt.

Dust: The dust concentration in the atmosphere is expected to be mild to moderate over Trinidad, and mostly over Tobago, for this outlook period.

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

ISSUED BY: Gary Benjamin, Meteorological Forecaster