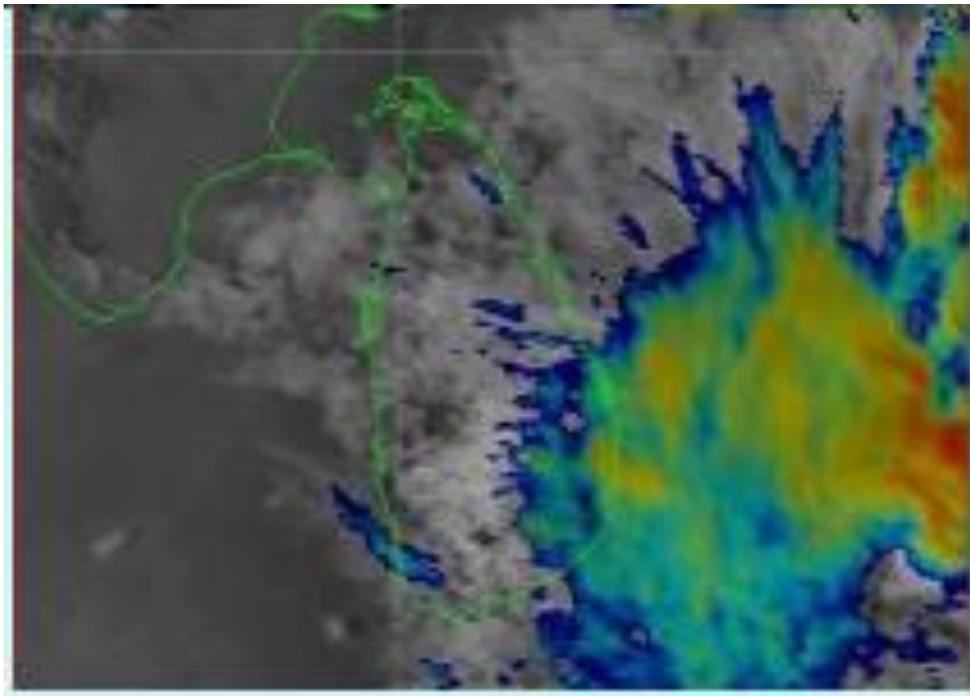




# **PREPAREDNESS FOR ADVERSED WEATHER CONDITIONS**

**(21<sup>ST</sup> NOVEMBER 2024- 30<sup>TH</sup> NOVEMBER 2024)**



**DEPUTY CHIEF SECRETARY  
ENGINEERING SERVICES  
CHIEF SECRETARY'S SECRETARIAT  
NORTHERN PROVINCE**

## Overview:

This report is prepared based on the information collected weather forecasting from the authorities concern to inform the public and relevant authorities of the Northern Province about expected adverse weather conditions in the coming days, which may impact daily activities, transportation, and safety. The forecast predicts severe weather events that may cause disruption and pose risks to health, property, and infrastructure.

## Weather Event Summary:

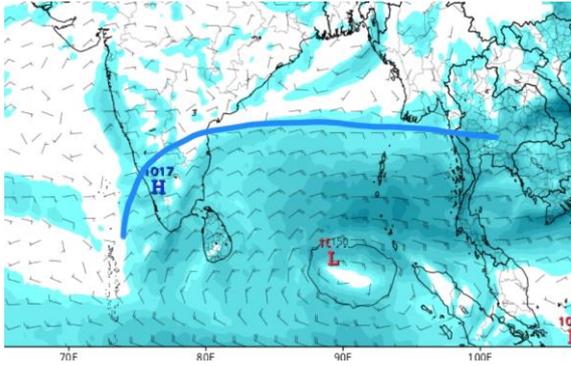
- **Type of Weather Event:**  
A developing tropical system in the Bay of Bengal, influenced by favorable sea surface temperatures (29-30°C) and the Madden-Julian Oscillation (MJO), is likely to bring severe weather to the Northern Province. Heavy rains, strong winds, and coastal flooding are anticipated as the system intensifies into a deep depression or cyclone between 23rd and 26th November.
- **Areas expected to be affected**  
Coastal belt of Northern Province Mainly Mannar and Jaffna in addition to the Eastern Province
- **Start Time:** 21<sup>st</sup> November 2024
- **End Time:** 30<sup>th</sup> November 2024
- **Severity Level:** High
- **Expected Impacts:**  
Flooding, landslides, power outages, storm surges, rough seas, and transportation disruptions

## Key Forecast Details

- **Temperature:**  
Mild, ranging from 24°C to 29°C due to persistent cloud cover and rain
- **Wind Speed:**  
Sustained winds of 40-60 km/h, gusting up to 70-80 km/h, especially along coastal areas
- **Storm Surge**  
Coastal areas such as Jaffna and Mannar may experience storm surges of 0.5-1 meter, particularly if the system strengthens into a cyclone.
- **Flood**  
High-risk areas in Low-lying regions in Jaffna, Kilinochchi, and Mullaitivu.
- **Rainfall:**  
Expected rainfall: 150-250 mm/day, with some areas experiencing localized downpours.
- **Marine**  
Rough seas with wave heights of 2-3 meters expected along the coastline

## Weather Synopsis

- **21st - 23rd November:**



An upper air circulation will develop over the **southeast Bay of Bengal** on 21st November, intensifying into a **low-pressure area by 23rd November**. At this stage, Sri Lanka may experience isolated light showers, particularly in the **Eastern and Northern Provinces**, as the system starts to influence regional weather.

- **23rd - 25th November:**

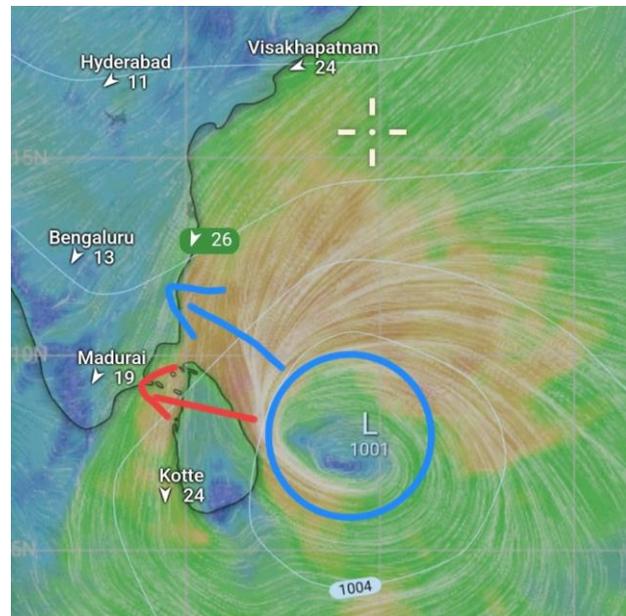
The low-pressure system will move in a west-northwest direction, intensifying further over the **southwest Bay of Bengal**. Coastal areas of **Eastern and Northern Sri Lanka** will see an increase in showers, with occasional moderate rains, particularly in areas like **Trincomalee, Mullaitivu, and Jaffna**. Winds may pick up slightly, ranging between 30-40 km/h along the coasts.

- **26th - 30th November:**

Heavy rains and strong winds are likely as the system intensifies into either a **deep depression or a tropical cyclone**. The **Northern and Eastern Provinces** (Jaffna, Kilinochchi, Mannar, Mullaitivu, and Batticaloa) are at high risk of **widespread rainfall exceeding 100-150 mm/day**. Southern parts of the system may sweep across Sri Lanka's northern and eastern regions. **Flooding and landslides** in hilly regions like **Badulla** are possible due to sustained rainfall.

Two possible scenarios for system movement:

- **Scenario 1 [Blue arrow]:** The system moves closer to **North Tamil Nadu**, resulting in heavy rain primarily in Northern and Eastern Provinces of Sri Lanka.
- **Scenario 2 [Red arrow]:** If the MJO weakens or shifts southward, the system will directly cross **Sri Lanka**, bringing torrential rains and strong winds across **Northern, Eastern, and Central Provinces**.



By **27th - 30th November**, as the system moves towards the Arabian Sea, **pull-effect rains** will likely enhance **widespread precipitation** across the entire island

## Precautionary Measures for the Public

- **Stay Informed:**  
Regularly check local news and weather updates from trusted sources.
- **Limit Travel:**  
Avoid non-essential travel, particularly in flood-prone or high-risk areas. Exercise caution if travel is unavoidable.
- **Secure Property:**  
Safeguard loose outdoor items to prevent wind damage.
- **Emergency Supplies:**  
Stock essential items like food, clean water, medications, and flashlights.
- **Avoid Flooded Areas:**  
Do not walk or drive through flooded areas, as water levels and currents can pose life-threatening risks.
- **Evacuate If Advised:**  
Follow instructions from local authorities if evacuation is recommended.

## Actions for Relevant Authorities:

- **Emergency Services:**  
Ensure readiness for rapid deployment in the event of widespread flooding, accidents, or other emergencies. Maintain communication with local weather stations.
- **Transport Agencies:**  
Monitor road conditions and advise the public on closures or delays. Pre-position equipment to clear roads in affected areas as necessary.
- **Schools and Institutions:**  
Consider contingency plans for possible closures or delays in affected regions. Ensure communication with parents and students.
- **Utility Providers:**  
Prepare for potential disruptions in electricity, water, and gas services. Mobilize teams for restoration efforts.
- **Local Government:**  
Ensure that all emergency response teams are on standby. Update evacuation plans where necessary and disseminate this advisory widely.
- **Public Awareness Campaigns:**  
Use all available communication channels to raise awareness about the impending weather event and ensure that public safety measures are understood and followed.

## Additional Information:

For continuous updates, please monitor local news, radio stations, and the Northern Provincial /council website at <https://np.gov.lk/>

## Conclusion:

The presents significant risks, and we strongly advise all members of the public and relevant authorities to take necessary precautions. Your safety is of utmost importance, and by remaining vigilant and prepared, we can minimize the impacts of this adverse weather event.

**Stay safe and heed all official warnings and advisories.**