



**Government of India  
Ministry of Earth Sciences  
India Meteorological Department**

**Press Release  
Date: 02<sup>nd</sup> February, 2023  
Time of Issue: 1245 hours IST**

**Subject: Heavy rainfall spell over south Tamil Nadu and Kerala during next 24 hours  
in association with Depression over Sri Lanka.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today:**

- ❖ **Heavy rainfall** occurred at isolated places over Tamil Nadu and **light rainfall** at isolated places over Andaman & Nicobar Islands and Arunachal Pradesh.
- ❖ **Significant rainfall observed (in cm): TAMIL NADU: Nagapattinam:** Vedaranyam-7, Kodaikanal, Tirupoondi-6 each, Nagapattinam, Thalaignayer-4 each, Velankanni-4, Thirukuvalai-2, **Mayiladuthurai:** Kollidam-3, Tarangambadi, Sirkali-2 each, **Karaikal:** Karaikal-3, **Ramanathapuram:** Pamban, Rameswaram, Tondi-2 each.
- ❖ **The minimum temperatures** are in the range of 6-10°C over many parts of plains of Northwest India and Madhya Pradesh. The **Lowest Minimum temperature** of 3.0°C has been observed over **Churu (West Rajasthan)**.

**Depression and associated weather:**

- ❖ Yesterday's **Depression** over Southwest Bay of Bengal now lies over south Sri Lanka and lay centered at 0830 hours IST of today, the 2<sup>nd</sup> February, near latitude 7.2°N and longitude 81.1°E, about 90 km southwest of Batticaloa (Sri Lanka), 120 km north of Hambantota (Sri Lanka). It is very likely to continue to move southwestwards across south Sri Lanka and emerge into Comorin and adjoining Gulf of Mannar off west coast of Sri Lanka by early morning of tomorrow, the 03<sup>rd</sup> February 2023. (Forecast Track in attached **Annexure III**). Under its influence, following weather is expected:

**Warnings:**

**(i) Rainfall (warning graphics enclosed)**

- ❖ Light/moderate rainfall is very likely at many places over Tamil Nadu & Puducherry and Kerala with isolated **heavy to very heavy rainfall** over south Tamil Nadu and isolated **heavy rainfall** over Kerala on 2<sup>nd</sup> February.

**(ii) Wind warning:**

- ❖ **Southwest Bay of Bengal:** Squally wind with speed reaching 40-50 kmph gusting to 60 kmph on 2<sup>nd</sup> February.
- ❖ **Along & off Sri Lanka coast:** Squally wind with speed reaching 40-50 kmph gusting to 60 kmph on 2<sup>nd</sup> February.
- ❖ **Gulf of Mannar and Comorin area and along & off south Tamil Nadu & Karaikal coasts:** Squally wind speed reaching 40-50 kmph gusting to 60 kmph on 2<sup>nd</sup> February becoming squally weather with wind speed reaching 30-40 kmph gusting to 50 kmph on 3<sup>rd</sup> February.

- ❖ **Along & off north Tamil Nadu & Puducherry coasts:** Strong wind speed reaching 30-40 kmph gusting to 50 kmph on 2<sup>nd</sup> February.

**(iii) Fishermen Warning (warning graphics enclosed):** Fishermen are advised not to venture into:

- ❖ Gulf of Mannar, Comorin Area and adjoining Southwest Bay of Bengal and along & off Sri Lanka and south Tamil Nadu & Karaikal coasts on 2<sup>nd</sup> February.
- ❖ Comorin Area and adjoining Southwest Bay of Bengal and along & off Sri Lanka coast upto 3<sup>rd</sup> February.

#### **Western Disturbance and associated rainfall/snowfall:**

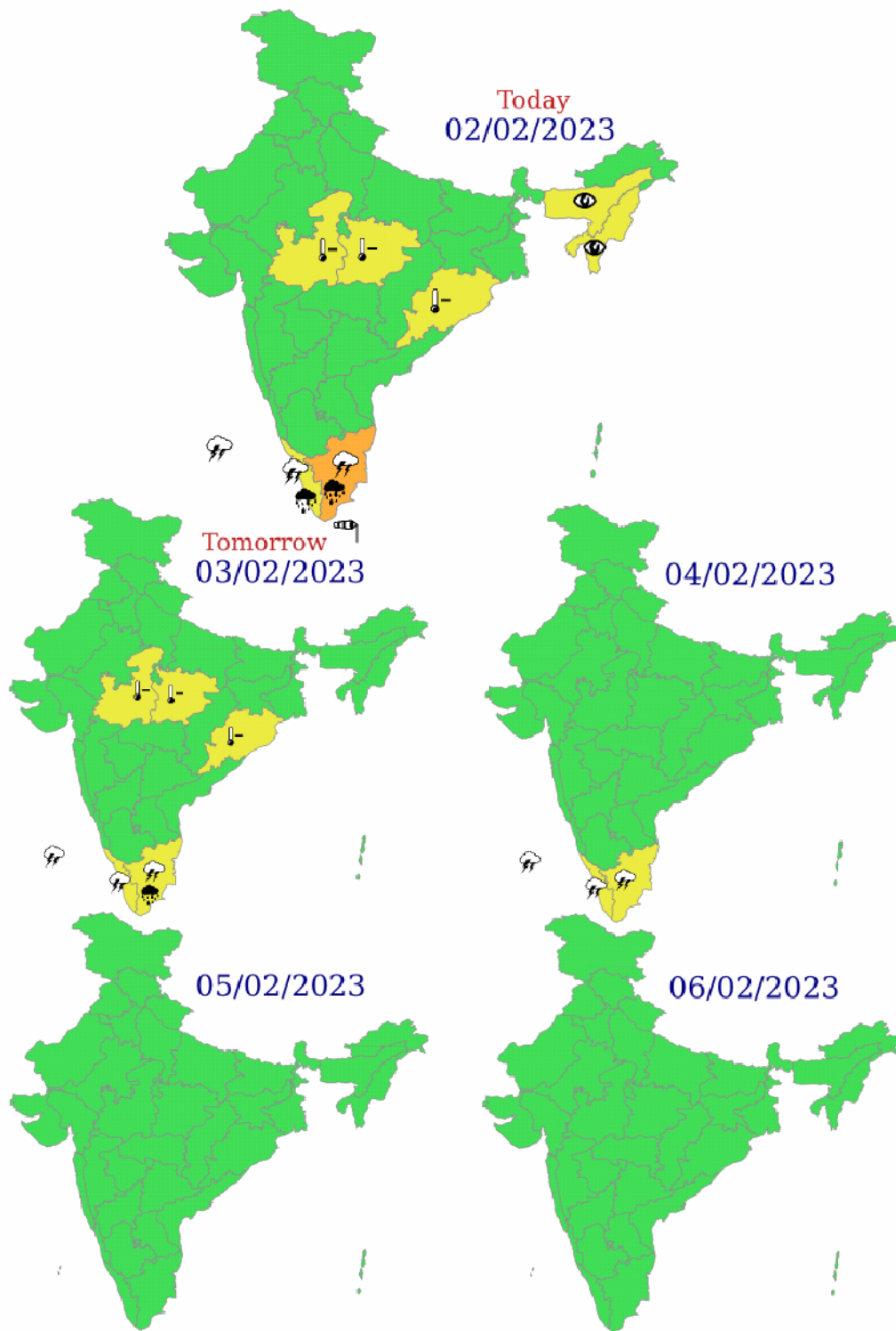
- ❖ The Western Disturbance as a trough in lower & middle tropospheric westerlies with its axis at 3.1 km above mean sea level now runs roughly along Long. 60°E to the north of Lat. 32°N. Under its influence; light isolated to scattered rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh on 02<sup>nd</sup> & 03<sup>rd</sup> February.
- ❖ **Strong Surface Winds 20-30 kmph** very likely to prevail over plains of northwest India during next 24 hours.

#### **Minimum Temperature Forecast:**

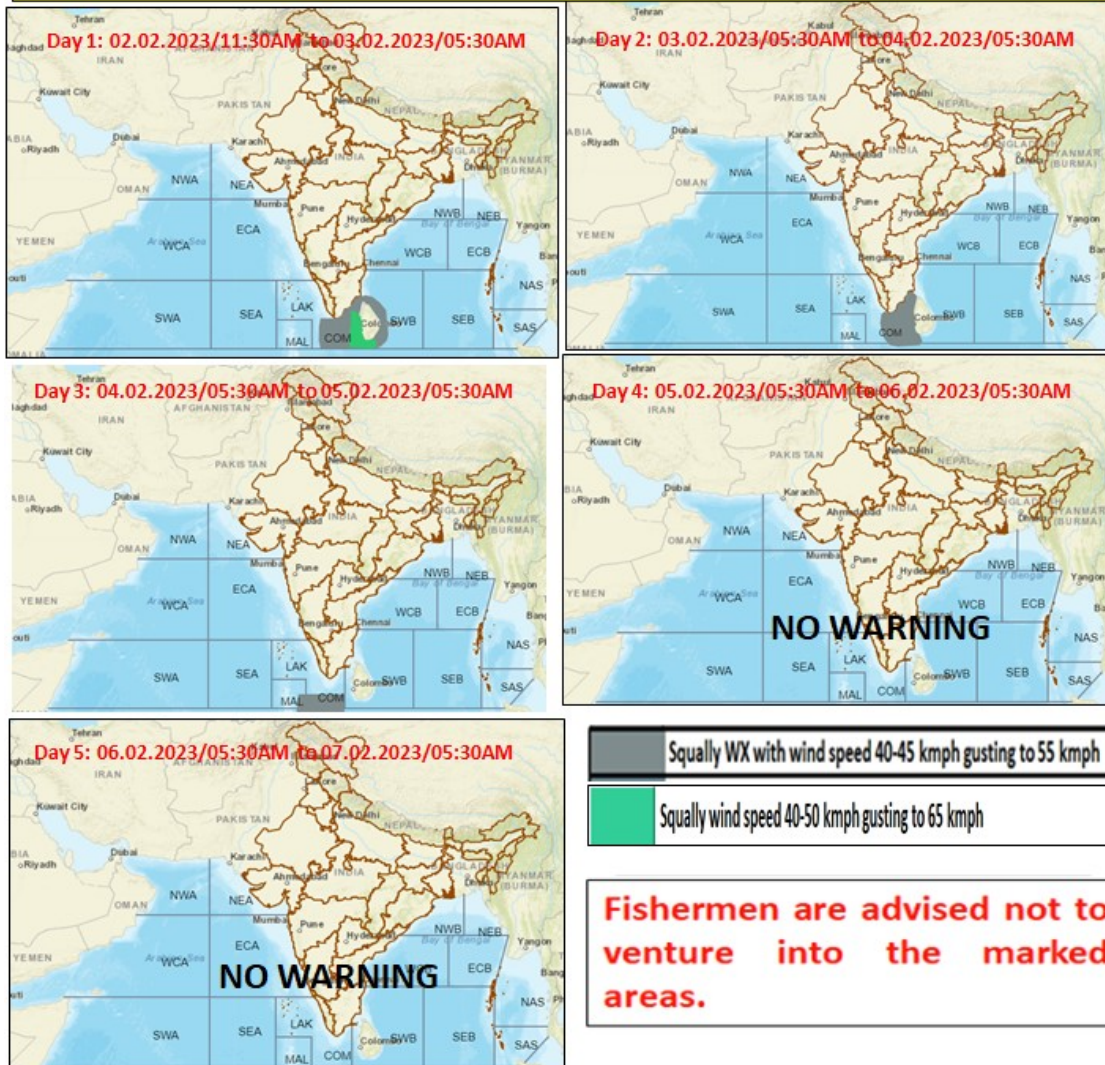
- ❖ Rise in minimum temperatures by 2-3°C very likely over most parts of Northwest India during next 2 days and no significant change thereafter. Fall in minimum temperatures by 2-3°C very likely over East India during next 24 hours and no significant change thereafter. No significant change in minimum temperatures very likely over rest parts of the country during next 5 days.
- ❖ **Cold wave conditions** very likely in isolated pockets over Madhya Pradesh and Odisha during next 2 days.
- ❖ **Dense fog** very likely in isolated pockets over Assam & Meghalaya and Tripura during next 24 hours.

For more details kindly refer:

[https://mausam.imd.gov.in/india\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/india_latest/contents/all_india_forecast_bulletin.php)



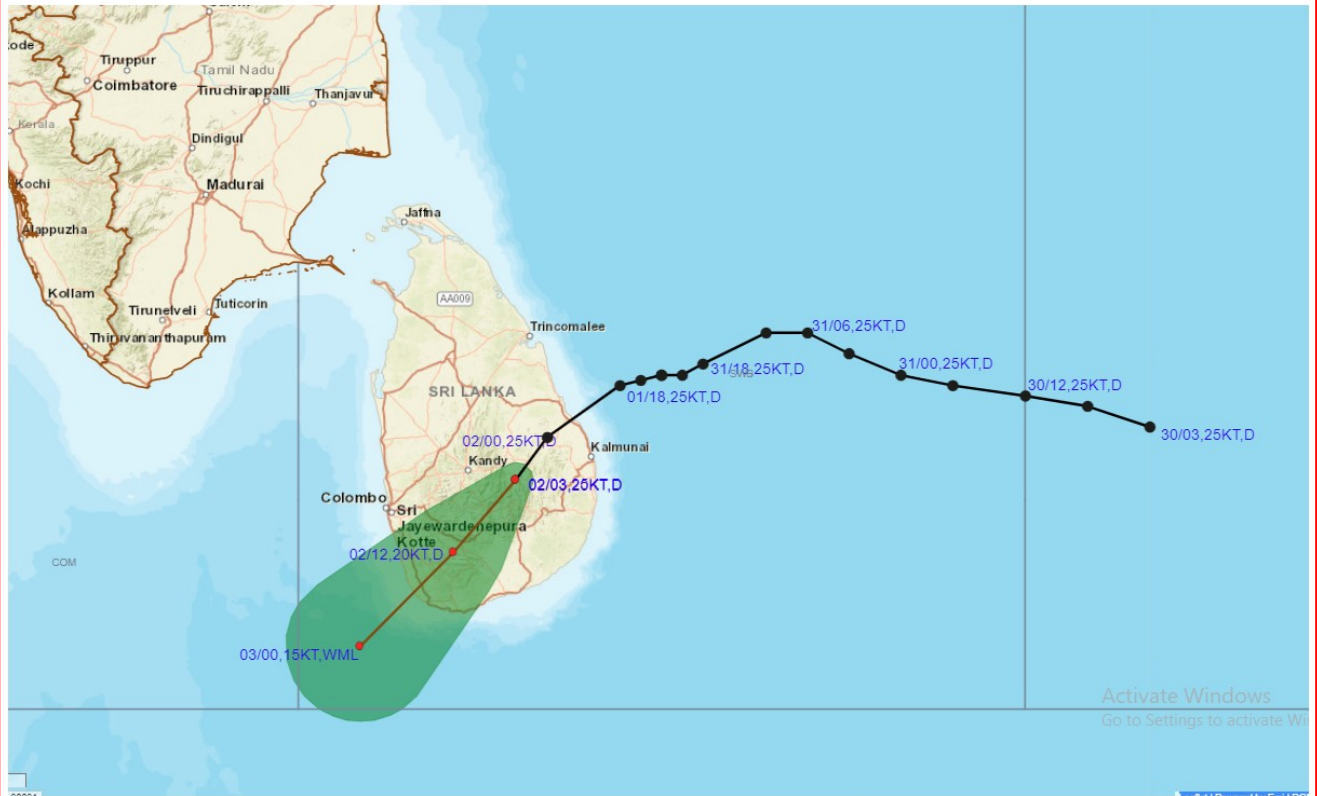
**Fishermen warning graphics**





**OBSERVED AND FORECAST TRACK OF DEPRESSION OVER SOUTH SRI LANKA  
BASED ON 0300 UTC OF 2<sup>ND</sup> FEBRUARY, 2023.**

**Annexure III**



DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
 SuCS: SUPER CYCLONIC STORM ( $\geq$  120 KT)

- LESS THAN 34 KT
- 34-47 KT
- $\geq$  48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

**Legends:**

**Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

**Region wise classification of meteorological Sub-Divisions:**

- 1) **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

<b>SPATIAL DISTRIBUTION</b> (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

**WARNING**

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

**Probabilistic Forecast**

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

 <b>Heavy Rain</b>	 <b>Heavy Snow</b>	 <b>Thunderstorm</b>	 <b>Dust Storm</b>
 <b>Strong Winds</b>	 <b>Visibility</b>	 <b>Cyclone</b>	 <b>Squall/ Hail</b>
 <b>Frost</b>	 <b>Cold Wave</b>	 <b>Heat Wave</b>	 <b>Sea State</b>