



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

**Press Release
Date: 01st February, 2023
Time of Issue: 1300 hours IST**

**Subject: (i) Depression over Southwest Bay of Bengal.
(ii) No significant cold wave/Day and Dense fog likely over any part of the country during next 05 days.**

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

- ❖ **Light to moderate rainfall** occurred at isolated places over Tamil Nadu, Puducherry & Karaikal, and Kerala & Mahe; **Light rainfall** at many places over Andaman & Nicobar Islands; at isolated places over Arunachal Pradesh, East Uttar Pradesh, Himachal Pradesh, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Coastal Andhra Pradesh.
- ❖ **Significant rainfall observed (in cm): TAMILNADU:** Kodayakarai-4, Vedaranyam- 3; **KERALA:** Konni & Anchal-1 each; **Andaman & Nicobar Islands:** Car Nicobar-1.
- ❖ **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 4.0°C** has been observed over **Bikaner (West Rajasthan)**.

Depression and associated weather:

- ❖ Yesterday's **Depression** over Southwest Bay of Bengal moved west-southwestwards with a speed of 03 kmph during past 6 hours and lay centered at 0830 hours IST of today, the 01st February, 2023 over the same region near latitude 8.2°N and longitude 82.6°E, about 110 km east-southeast of Trincomalee (Sri Lanka) and 420 km southeast of Karaikal (India). It is very likely to move west-southwestwards and cross Sri Lanka coast between latitude 7°N to 8°N during evening of today, the 01st February 2023 (Forecast Track in attached **Annexure III**). Under its influence, following weather is expected:

(i) Rainfall (warning graphics enclosed in Annexure I)

- ✓ Light/moderate rainfall is very likely at many places over coastal Tamil Nadu & Puducherry on 1st and 2nd February. Isolated **heavy rainfall** is very likely over south Tamil Nadu on 1st and 2nd February, 2023.

(ii) Wind warning:

- ❖ **Southwest Bay of Bengal:**
 - Squally wind with speed reaching 45-55 kmph gusting to 65 kmph on 1st February.
 - Squally wind with speed reaching 40-50 kmph gusting to 60 kmph on 2nd February.
- ❖ **Along & off Sri Lanka coast:**
 - Squally wind with speed reaching 45-55 kmph gusting to 65 kmph on 1st February.
 - Squally wind with speed reaching 40-50 kmph gusting to 60 kmph on 2nd 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 during 1st to 2nd February.
- ❖ **Along & off north Tamil Nadu & Puducherry coasts:**
 - Strong wind speed reaching 30-40 kmph gusting to 50 kmph during 1st to 2nd February.

(iii) Sea condition

❖ **Sea condition is likely to be rough to very rough over**

- Southwest Bay of Bengal and along & off Sri Lanka coast during 1st to 2nd February.
- Gulf of Mannar and adjoining Comorin area and along & off south Tamil Nadu coast during 1st to 2nd February
- **Sea condition is likely to be moderate to rough** along and off north Tamil Nadu & Puducherry coasts during 1st to 2nd February.

(iv) Fishermen Warning (warning graphics enclosed in Annexure II)

Fishermen are advised not to venture into:

- ❖ Southwest Bay of Bengal, Gulf of Mannar, Comorin Area and along & off Sri Lanka and south Tamil Nadu & Karaikal coasts till 2nd February.

Western Disturbance and associated rainfall/snowfall:

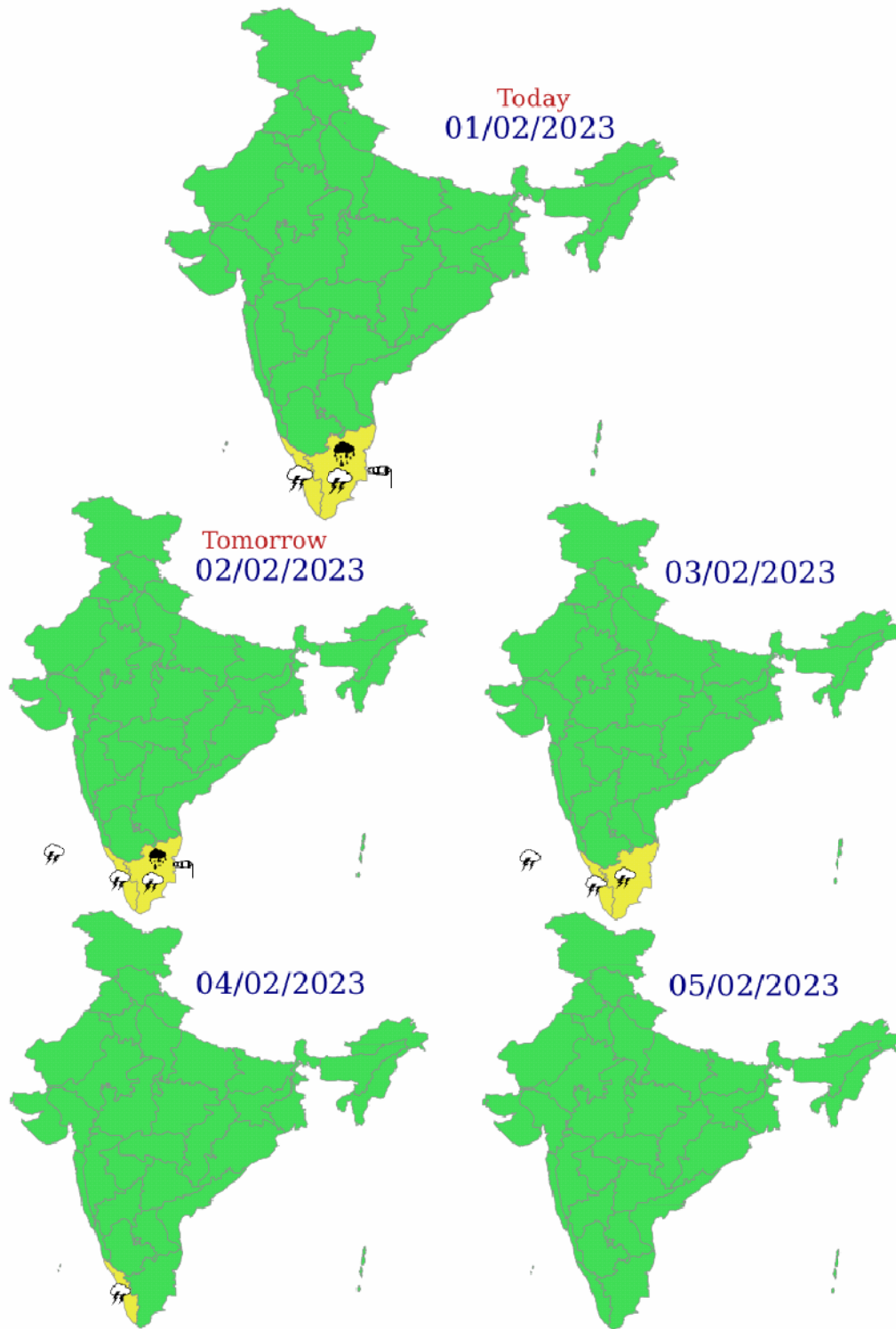
- ❖ A fresh Western Disturbance seen as a trough in lower & middle tropospheric westerlies with its axis at 3.1 km above mean sea level roughly along Long. 55°E to the north of Lat. 32°N. Under its influence; light isolated to scattered rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during 1st to 3rd February and over Himachal Pradesh on 02nd February, 2023.

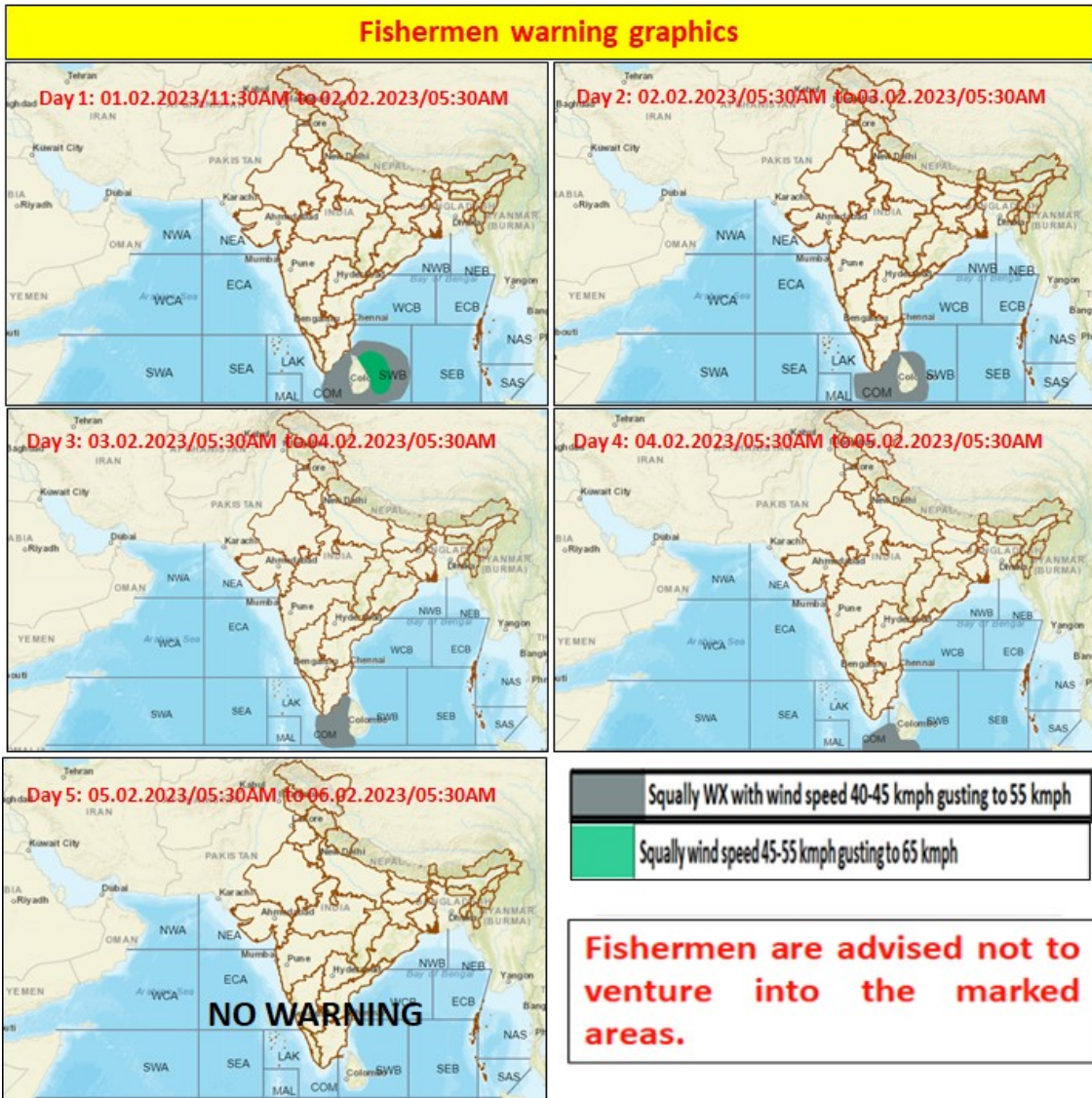
Minimum Temperature Forecast:

- ❖ Gradual rise in minimum temperatures by 2-4°C very likely over most parts of Northwest India during next 3 days and no significant change thereafter. Gradual fall in minimum temperatures by 2-4°C very likely over East India during next 3 days and no significant change thereafter. No significant change in minimum temperatures very likely over rest parts of the country during next 5 days.
- ❖ **No significant cold wave/Day and Dense fog likely over any part of the country during next 05 days.**

For more details kindly refer:

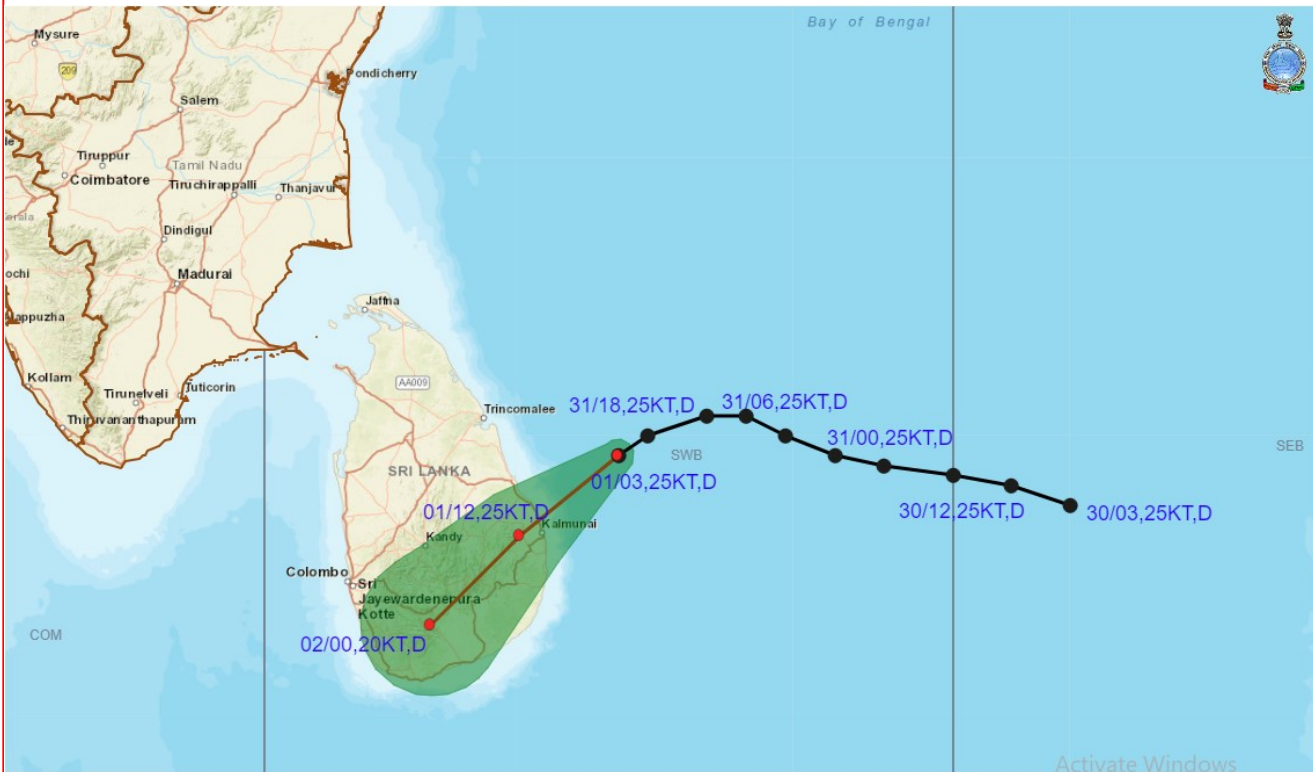
https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.php













OBSERVED AND FORECAST TRACK OF DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0300 UTC OF 01st FEBRUARY, 2023.



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 (48-63 KT)
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.

SPATIAL DISTRIBUTION (% 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

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