



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

**Press Release  
Date: 31<sup>st</sup> January, 2023  
Time of Issue: 1300 hours IST**

**Subject: (i) Depression over Southwest Bay of Bengal.  
(ii) Dry weather likely to prevail over northwest India during next 5 days.**

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

- ❖ **Light to moderate rainfall** occurred at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Uttarakhand; **at a few places** over Himachal Pradesh, Punjab and **at isolated places** over Madhya Pradesh, Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- ❖ **Significant rainfall observed (in cm): Jammu & Kashmir:** Batote, Katra, Ramban & Gulmarg-5 each, Anantnag, Kulgam, Qazi Gund, Pahalgam, Banihal-4, Jammu, Kupwara, Gund, Rajouri, Kokarnag, Kistwar, Srinagar and Baderwah-3 each; **Himachal Pradesh:** Chamba, Kangra-3 each; **Uttarakhand:** Uttarkashi-6, Almora, Bageshwar, Chamoli, Nainital, Rudraprayag-2 each; **Punjab:** Pathankot-8; **Kerala:** Patahanamthitta-3; **Tamilnadu:** Salem-5, Cuddalore, Trichy, Kanyakumari, Karur, Perambalur-2 each.
- ❖ **The minimum temperatures** are in the range of 6-10°C over many parts of plains of Northwest India. The **Lowest Minimum temperature** of **5.0°C** has been observed over **Phalodi (West Rajasthan)**.

**Weather Systems and associated rainfall/snowfall:**

❖ The **Depression** over Southwest Bay of Bengal moved nearly west-northwestwards with a speed of 13 kmph during past 6 hours and lay centered at 0830 hours IST of today, the 31<sup>st</sup> January, 2023 over the same region near latitude 8.4°N and longitude 84.3°E, about 340 km east of Trincomalee (Sri Lanka) and 560 km east-southeast of Karaikal (India). It is very likely to move west-northwestwards till evening of today, the 31<sup>st</sup> January. Thereafter, it is likely to recurve gradually southwestwards and cross Sri Lanka coast between latitude 7°N to 8°N during forenoon of 01<sup>st</sup> February 2023.

Under its influence, following weather is expected:

**(i) Rainfall (warning graphics enclosed at Annexure I)**

❖ Light/moderate rainfall at most places with isolated heavy rainfalls very likely over south Tamil Nadu during 31<sup>st</sup> January to 2<sup>nd</sup> February.

**(ii) Wind warning:**

❖ **Southwest Bay of Bengal:**

- Squally wind with speed reaching 45-55 kmph gusting to 65 kmph during 31<sup>st</sup> January to 1<sup>st</sup> February.
- 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 45-55 kmph gusting to 65 kmph during 31<sup>st</sup> January to 1<sup>st</sup> February.

- 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 during 1<sup>st</sup> to 2<sup>nd</sup> February.
- ❖ **Along & off north Tamil Nadu & Puducherry coasts:**
  - Strong wind speed reaching 30-40 kmph gusting to 50 kmph during 1<sup>st</sup> to 2<sup>nd</sup> February.

**(iii) Sea condition**

- ❖ Sea condition is likely to be rough to very rough
  - Southwest Bay of Bengal and along & off Sri Lanka coast during 31<sup>st</sup> January to 2<sup>nd</sup> February.
  - Gulf of Mannar and adjoining Comorin area and along & off south Tamil Nadu coast during 1<sup>st</sup> to 2<sup>nd</sup> February
- ❖ Sea condition is likely to be moderate to rough
  - Along and off north Tamil Nadu & Puducherry coasts during 1<sup>st</sup> to 2<sup>nd</sup> February.

**(iv) Fishermen Warning (warning graphics enclosed at 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 2<sup>nd</sup> February.

Fishermen out at sea off Tamil Nadu and Kerala coasts are advised to return to the coasts by 31<sup>st</sup> January.

- ❖ Yesterday's **Western Disturbance** now seen as a trough in middle tropospheric levels roughly along 75°E to the north of 28°N. Under its influence:
  - ✓ **Light isolated rainfall/snowfall** very likely to continue over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh; **light isolated rainfall** over West Madhya Pradesh during next 24 hours.
  - ✓ **Strong Surface Winds 20-30 kmph** likely to prevail over plains of northwest India during 31<sup>st</sup> January-01<sup>st</sup> February, 2023.
- ❖ A fresh **Western Disturbance** is likely to affect Western Himalayan Region from 02<sup>nd</sup> February, 2023. Under its influence; **light isolated to scattered rainfall/snowfall** very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh during 02<sup>nd</sup> -04<sup>th</sup> February.

**Minimum Temperature Forecast:**

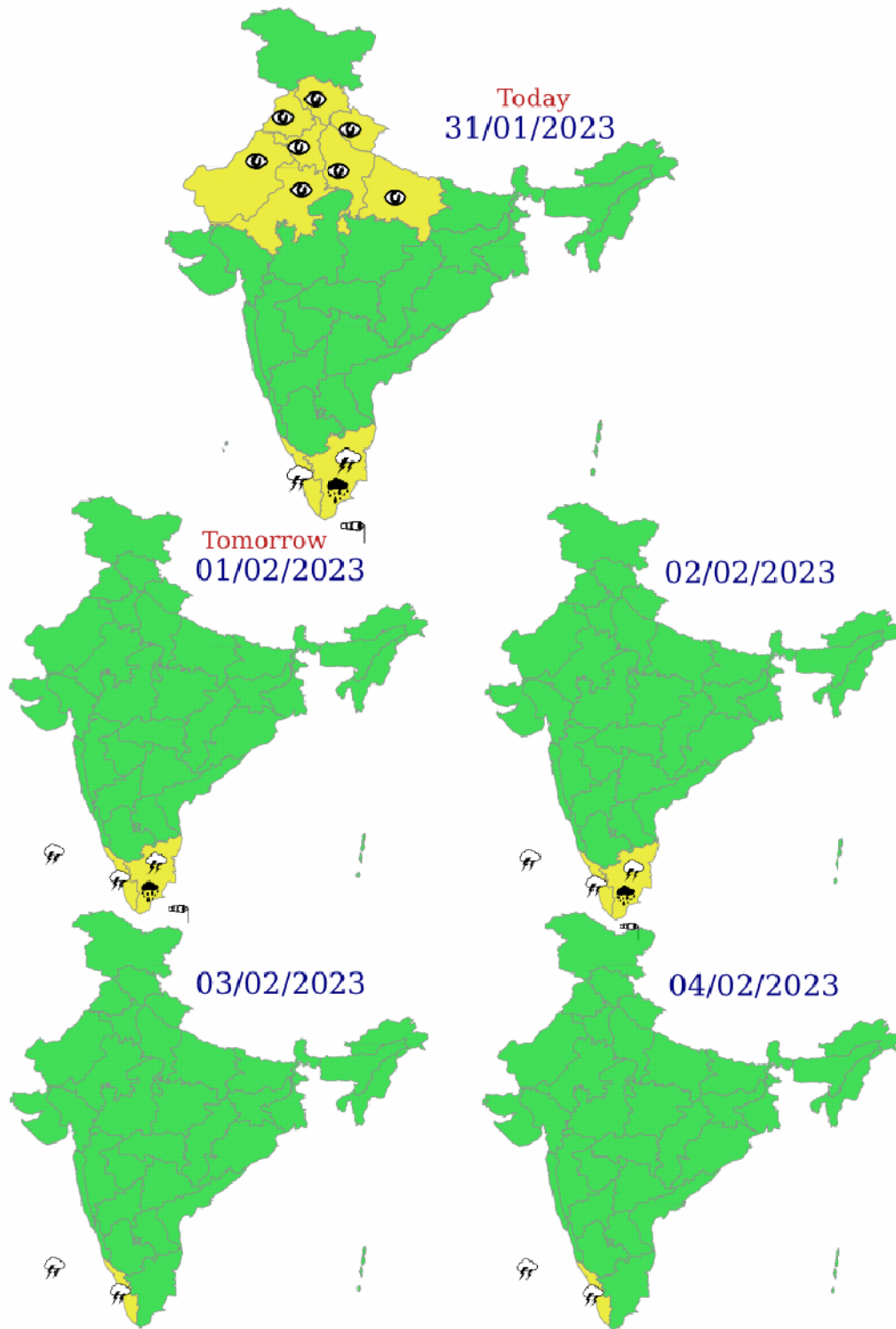
- ❖ **No significant change in minimum temperatures very likely over many parts of Northwest India till 02nd February and rise by 2-3°C for subsequent 3 days.** No significant change in minimum temperatures very likely over many parts of Central India till 01st February, fall by 3-5°C for subsequent 2 days and no significant change thereafter. No significant change in minimum temperatures very likely over many parts of East India till 01st February and fall in minimum temperatures by 2-4°C for subsequent 4 days.

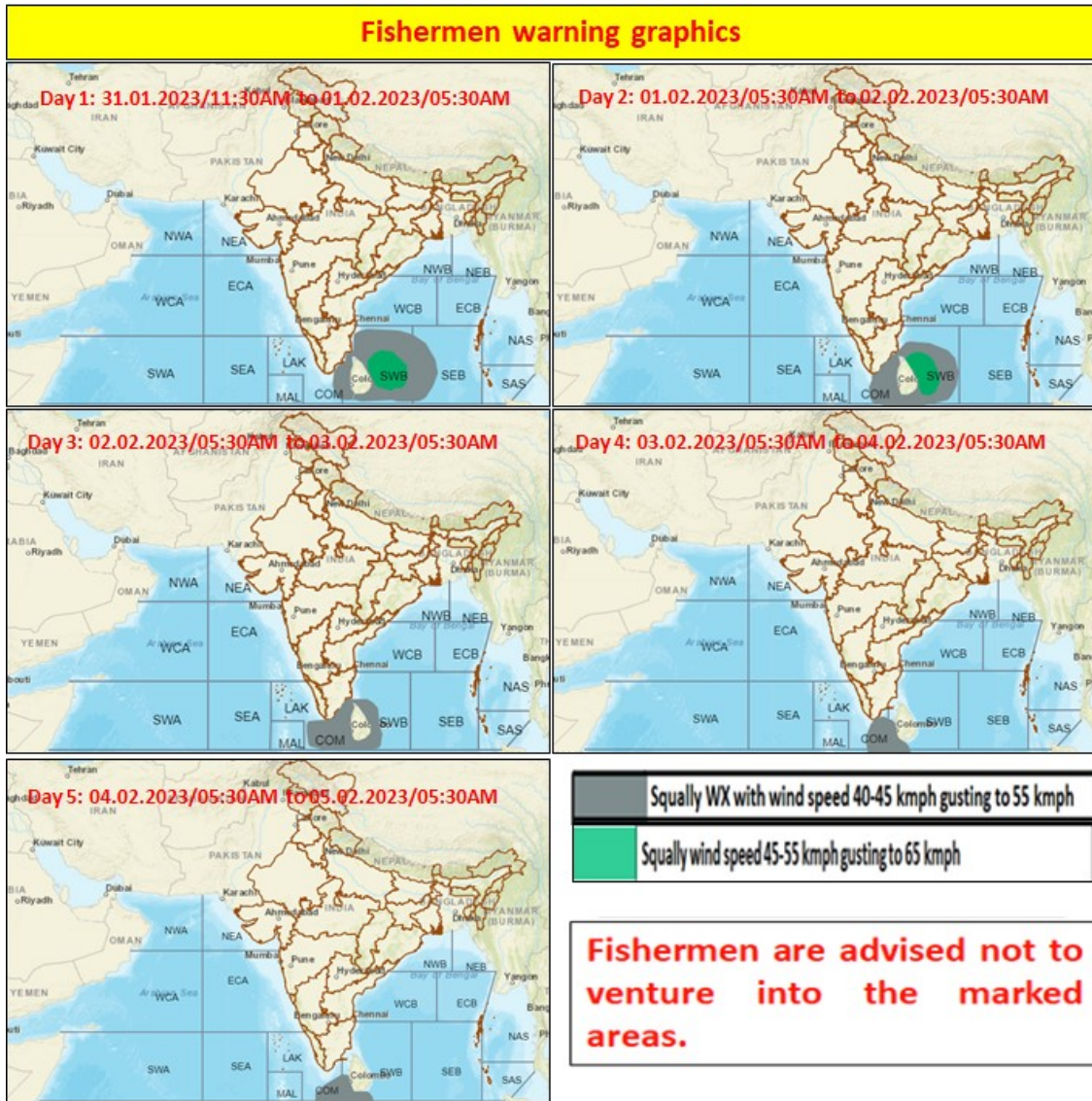
**Fog Warning:**

- ❖ **Dense fog conditions** in morning/night hours very likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan and Uttar Pradesh on 01<sup>st</sup> February, 2023.

For more details kindly refer:

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





**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

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