



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

**Press Release
Date: 13th December, 2022
Time of Issue: 1400 hrs IST**

**Subject: (i) Low Pressure Area over Eastcentral and adjoining Southeast Arabian Sea off north Kerala and Karnataka coasts.
(ii) Significant reduction in rainfall over south Peninsular from today, the 13th December, 2022.**

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

- ❖ **Minimum temperatures** are in the range of 09-10° C over some parts of plains of Northwest & adjoining East India. These are above normal over many parts of north India.
- ❖ **Heavy rainfall** occurred at isolated places over Rayalaseema and Tamil Nadu.
- ❖ **Significant amount of rainfall (in cm): Tamilnadu:** Barur (dist Krishnagiri), Thanjavur (dist Thanjavur), Pulipatti (dist Madurai), Kancheepuram (dist Kancheepuram) 9 each, Karambakudi (dist Pudukkottai), Cheyyur (dist Chengalpattu), Maduranthagam (dist Chengalpattu) 8 each, Uthiramerur (dist Kancheepuram), Singampunari (dist Sivaganga) 7 each; **Rayalaseema:** Aroyavaram (dist Chittoor) 9.

Weather systems and forecast & warning:

1. Low pressure area over Eastcentral and adjoining Southeast Arabian Sea off north Kerala and Karnataka coasts

- ❖ Under the influence of cyclonic circulation over north Kerala & neighbourhood, a **Low Pressure Area** has formed over Eastcentral and adjoining Southeast Arabian Sea off north Kerala and Karnataka coasts. It is very likely to move west-northwestwards away from India coast and become well marked low pressure area over Eastcentral and adjoining Southeast Arabian Sea by 14th December morning and concentrate into a **depression** over Eastcentral Arabian Sea around 15th December morning.

Under its influence:

(i) Rainfall (warning graphics enclosed Annexure I)

Light to moderate rainfall at most places with **heavy rainfall** at isolated places very likely over Kerala & Mahe & Lakshadweep today, the 13th December, 2022 and decrease significantly thereafter.

(ii) Wind warning (warning graphics enclosed):

- **Along & off North Kerala, Karnataka & Goa Coasts: Squally** weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail till 14th December afternoon.
- **Lakshadweep Area:** Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail till 14th morning, becoming 40-50 kmph gusting to 60 kmph till 15th morning and decrease gradually thereafter.
- **Southeast Arabian Sea:** Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail till 14th afternoon becoming 45-55 kmph gusting to 65 kmph till 15th evening and decrease gradually thereafter.

- **Eastcentral Arabian Sea:** Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely till 14th morning becoming 40-50 kmph gusting to 60 kmph till 15th morning and 45-55 kmph gusting to 65 kmph till 17th morning.
- **Westcentral Arabian Sea:** Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely from 15th morning becoming 45-55 kmph gusting to 65 kmph during 16th to 18th December, 2022.
- **Southwest Arabian Sea:** Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely from 15th morning becoming 45-55 kmph gusting to 65 kmph during 16th to 18th December, 2022.

(iii) Sea Condition

- **Along & off North Kerala, Karnataka & Goa Coasts:** Sea Condition is likely to be rough till 14th December afternoon.
- **Lakshadweep Area:** Sea Condition is likely to be rough till 14th morning becoming rough to very rough till 15th morning and improve thereafter.
- **Southeast Arabian Sea:** Sea Condition is likely to be rough till 14th afternoon becoming rough to very rough till 15th evening and improve thereafter.
- **Eastcentral Arabian Sea:** Sea Condition is likely to be rough till 14th morning becoming rough to very rough from 15th morning to 17th morning.
- **Westcentral Arabian Sea:** Sea Condition is likely to be rough from 15th morning becoming rough to very rough during 16th to 18th December 2022.
- **Southwest Arabian Sea:** Sea Condition is likely to be rough from 15th morning becoming rough to very rough during 16th to 18th December 2022.

(iv) Fishermen Warning: (Annexure II)

Fishermen are advised not to venture into

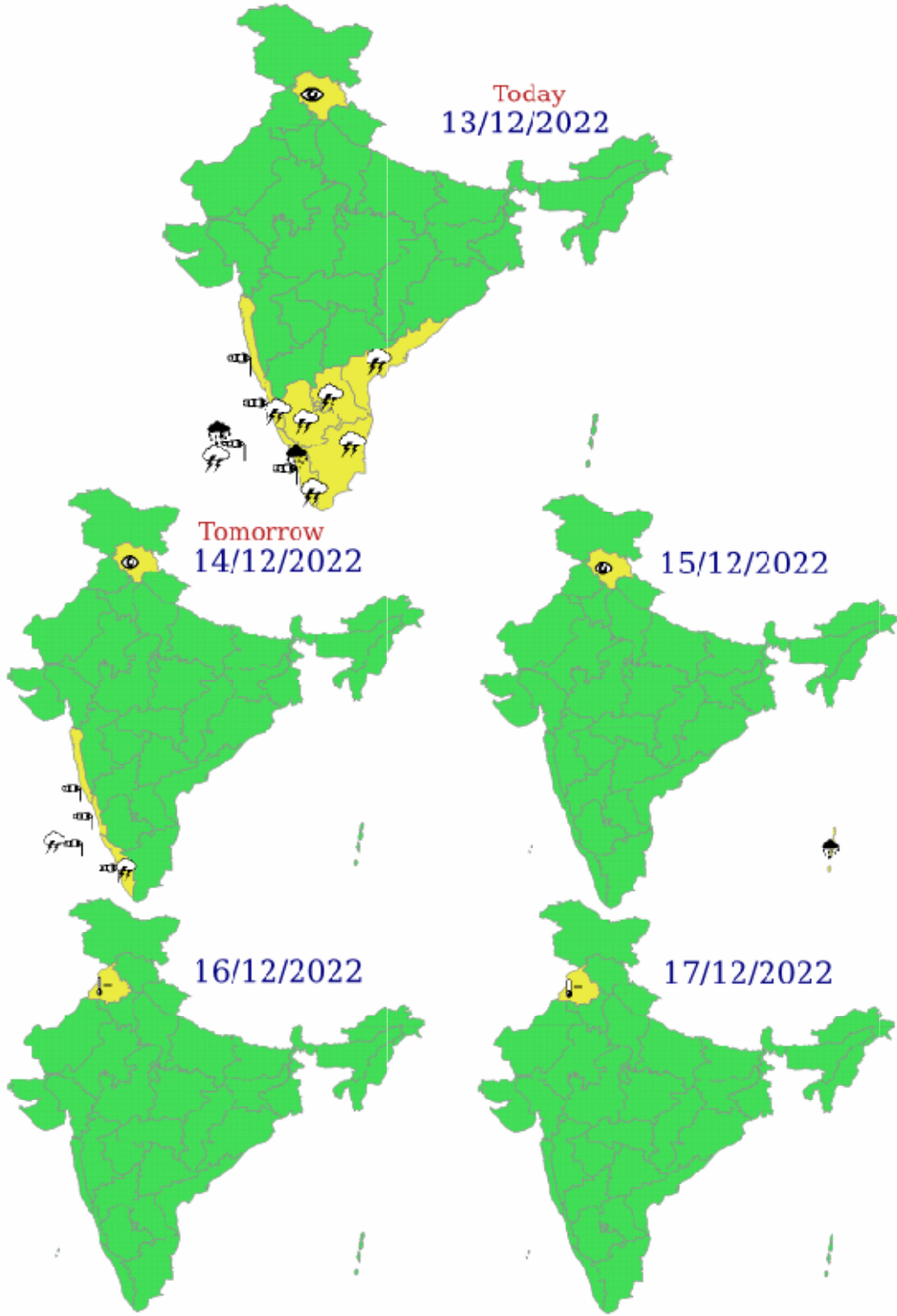
- Along & off North Kerala, Karnataka & Goa Coasts till 14th December afternoon.
 - Lakshadweep Area till 15th morning.
 - Southeast Arabian Sea till 15th evening.
 - Eastcentral Arabian Sea from 14th morning to 17th morning.
 - Westcentral Arabian Sea from 15th morning to 18th December.
 - Southwest Arabian Sea from 15th morning to 18th December.
2. **A cyclonic circulation lies over South Andaman Sea and adjoining Strait of Malacca & Sumatra in mid tropospheric levels.** Under its influence, fairly widespread rainfall with isolated **heavy rainfall** likely over Nicobar Islands on 15th December.

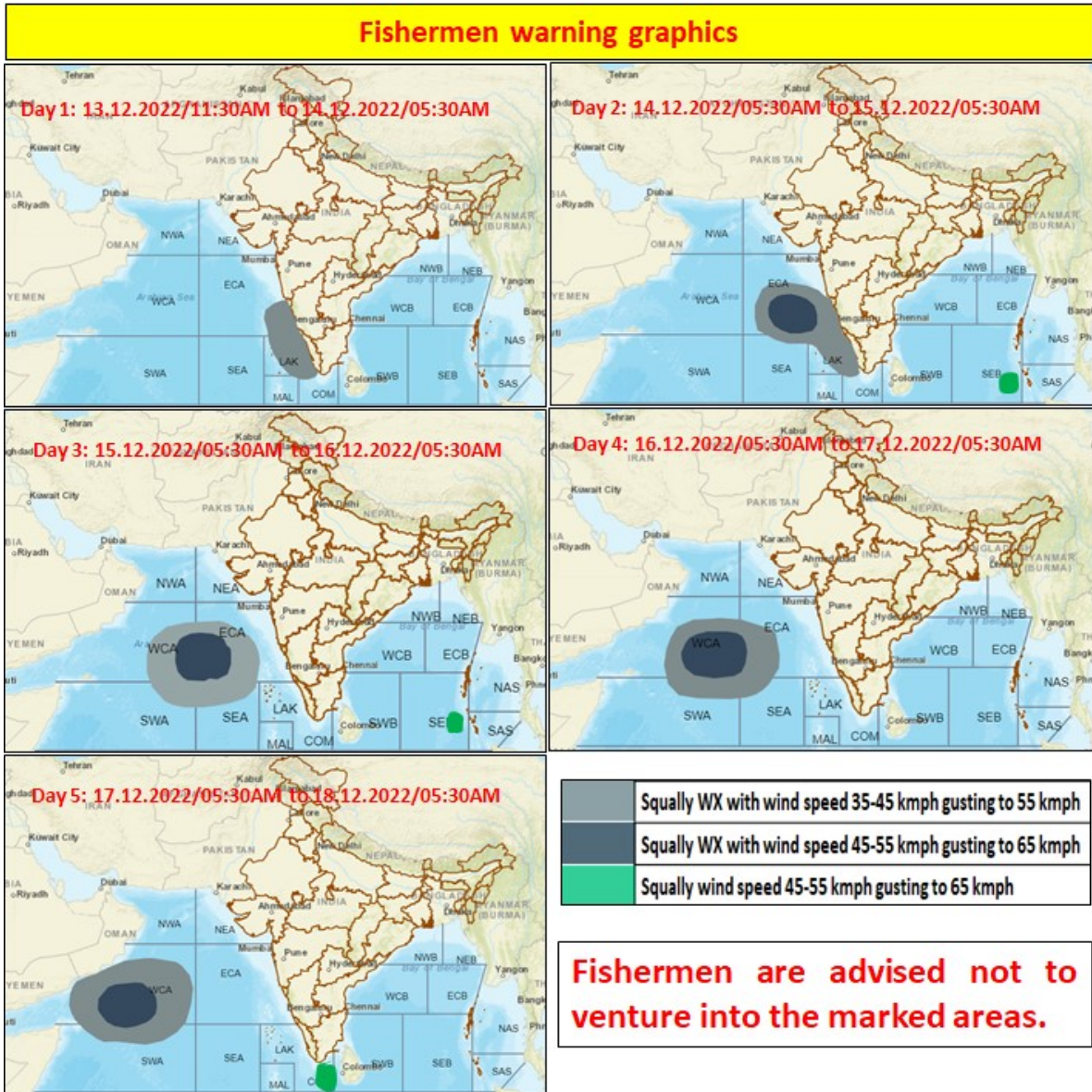
3. Minimum Temperature Forecast:

- ❖ Gradual fall by 2-4°C in minimum temperatures likely over Northwest India during next 2-3 days and no significant change thereafter. No significant change in minimum temperatures likely over Central India & Maharashtra during next 24 hours and fall by 3-5°C thereafter. No significant change in minimum temperatures likely over East India during next 24 hours and fall by 2-3°C thereafter. No significant change in minimum temperatures likely over remaining parts of the country during next 4-5 days.
- ❖ **Dense fog** in isolated pockets very likely over Himachal Pradesh during next 3 days.
- ❖ **Cold wave conditions** in isolated pockets very likely over Punjab on 16th & 17th December.

For more details kindly refer:

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.

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