



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 04th December, 2022
Time of Issue: 1315 hrs IST

Subject: Formation of a Low Pressure Area over Southeast Bay of Bengal & adjoining south Andaman Sea by 05th December, 2022.

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

- ❖ **Minimum temperatures** are in the range of 8-11° C over many parts of plains of Northwest & adjoining Central India which are near normal at many places in the region and above normal at isolated places in the region.
- ❖ **Minimum temperatures** are in the range of 11-18° C over many parts of East India which are near normal at many places and 1-2° C above normal at isolated places in the region.
- ❖ **Heavy rainfall** occurred at isolated places over Kerala and moderate rainfall at isolated places over Tamilnadu.
- ❖ **Significant Amount of Rainfall (in cm): Tamilnadu:** Nalumukku (dist Tirunelveli), Oothu (dist Tirunelveli) 5 each, Puducherry (dist Puducherry), Sirkali (dist Mayiladuthurai), Tirupuvanam (dist Sivaganga), Kakkachi (dist Tirunelveli) 4 each. **Kerala:** Muvattupuzha ARG (Ernakulam district) 7, Cherthala (Alappuzha district) 4.

Weather systems, rainfall/thunderstorm Forecast & Warnings: (Refer Annexure I)

- ❖ A cyclonic circulation lies over south Andaman Sea & adjoining equatorial Indian ocean-Strait of Malacca extending upto mid-tropospheric levels. Under its influence, a **Low Pressure Area** is likely to form over Southeast Bay of Bengal & adjoining south Andaman Sea by 05th December. It is likely to move west-northwestwards and concentrate into a **Depression** over Southeast Bay of Bengal by 07th December morning. Thereafter, it is likely to continue to move west-northwestwards and reach Southwest Bay of Bengal near north Tamil Nadu-Puducherry & adjoining south Andhra Pradesh coasts by 08th December morning. **As a result:**
 - ✓ **Widespread light/moderate rainfall with isolated heavy falls very likely over Andaman & Nicobar Islands during 04th-06th December, 2022.**
 - ✓ As the expected Low Pressure system moves towards Southwest Bay of Bengal, enhanced rainfall activity likely to commence over north coastal Tamilnadu, Puducherry & Karaikal and South coast Andhra Pradesh from 07th December mid-night. It is likely to increase with rainfall at most places with isolated **heavy to very heavy rainfall** over north Tamilnadu & Puducherry and isolated **heavy rainfall** over south Andhra Pradesh on 08th December.
 - ✓ **Squally weather** (speed 40-45 kmph gusting to 55 kmph) very likely over Andaman & Nicobar Islands and Andaman Sea on 04th & 05th December.
 - ✓ **Squally winds** (speed 45-55 kmph gusting to 65 kmph) likely over Southeast Bay of Bengal on 05th & 06th December; over Southwest & adjoining Southeast Bay of Bengal on 06th & 7th December.
 - ✓ **Squally winds** (50-60 kmph gusting to 70 kmph) over Southwest Bay of Bengal & adjoining Sri Lanka coast on 07th & 08th December.
 - ✓ **Squally wind** speed reaching 40-50 kmph gusting to 60 kmph likely to commence along & off Tamilnadu, Puducherry, south Andhra Pradesh coast and Gulf of Mannar from 08th December morning becoming 50-60 kmph gusting to 70 kmph from 08th December evening for subsequent 12 hours.
 - ✓ **Fishermen are advised not to venture into:**

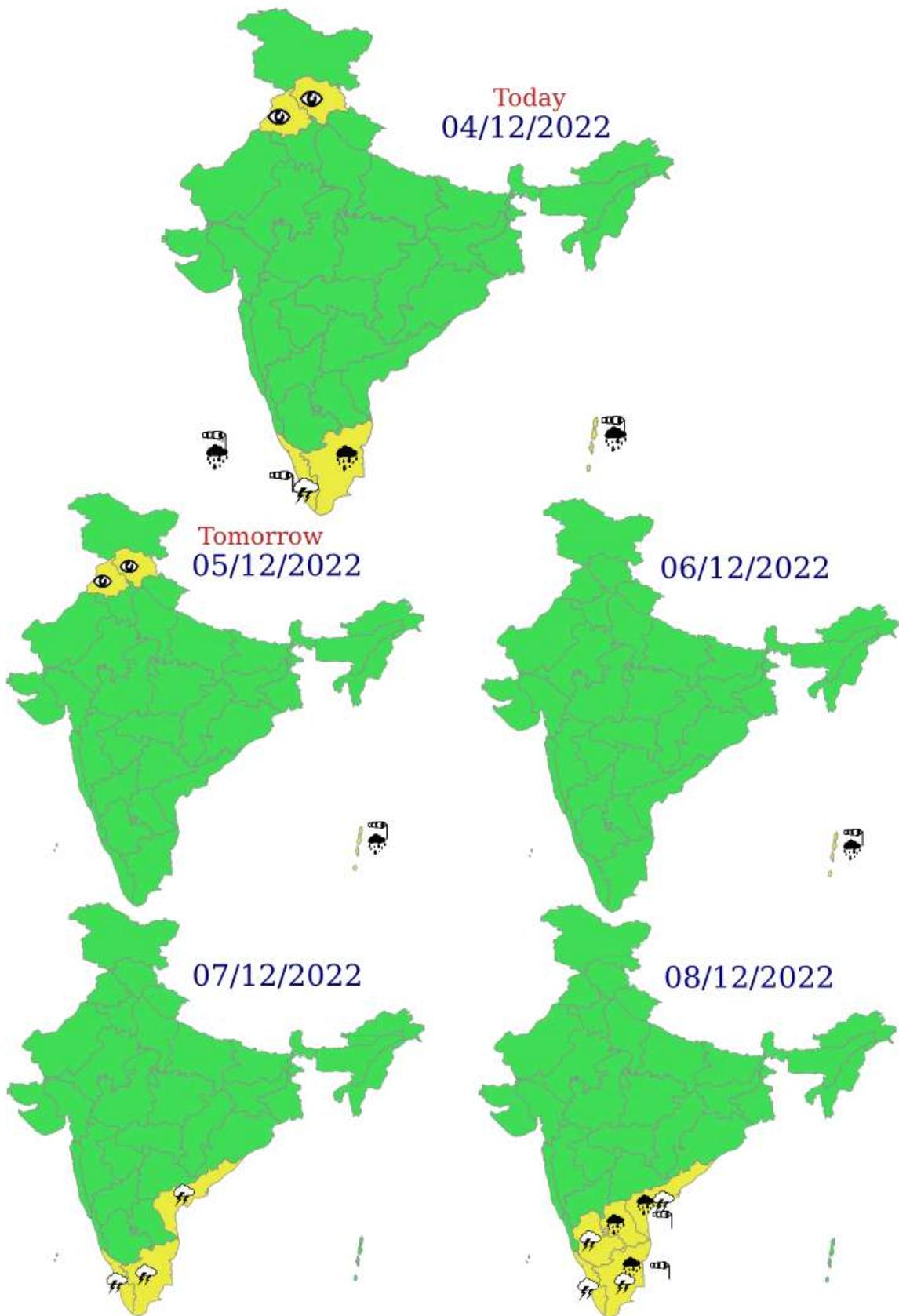
- Andaman Sea on 04th & 05th December.
 - Southeast Bay of Bengal from 05th-07th December.
 - Southwest Bay of Bengal from 06th-08th December onwards.
 - Along & off Sri Lanka coast from 06th-08th December.
 - Along & off Tamilnadu, Puducherry and South Andhra Pradesh coast and Gulf of Mannar from 07th-09th December morning
- ❖ A trough in easterlies runs from Comorin area to north Kerala coast in lower tropospheric levels. Under its influence:
- ✓ Isolated heavy rainfall likely over Tamilnadu, Puducherry & Karaikal and Lakshadweep and isolated thunderstorm also likely over Kerala & Mahe on 04th December.
 - ✓ **Squally weather** (speed 40-45 kmph gusting to 55 kmph) very likely along & off Kerala coast and adjoining Maldives, Lakshadweep area and Comorin area on 04th December. Fishermen are advised not to venture into these areas.
- ❖ A new feeble Western Disturbance is likely to affect Western Himalayan Region from 07th December. Under its influence, isolated light to moderate rainfall likely over Jammu-Kashmir, Ladakh and Himachal Pradesh on 08th December.

Minimum Temperature and Fog Forecast

- ❖ No significant change in minimum temperatures likely over northern and western parts of the country during next 24 hours and fall by 2-3°C during subsequent 2-3 days. Fall in minimum temperatures by 2-3°C over central & adjoining eastern parts of the country during next 2-3 days. No significant change in minimum temperatures likely over remaining parts of the country during next 4-5 days.
- ❖ **Dense fog** very likely in isolated pockets over Himachal Pradesh and Punjab during morning hours of next 2-3 days. Shallow to moderate fog likely at isolated pockets over parts of Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2-3 days.

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