



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

**Press Release  
Date: 21<sup>st</sup> October, 2022  
Time of Issue: 1300 hrs IST**

- Subject: (i) Low Pressure Area over north Andaman Sea and adjoining areas of south Andaman Sea & Southeast Bay of Bengal and it is likely gradually intensify into a Cyclonic Storm over Westcentral & adjoining Eastcentral Bay of Bengal by 24<sup>th</sup> October, 2022.**
- (ii) Conditions are favourable for further withdrawal of Southwest Monsoon from the entire country during next 48 hours.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annexure I)**

**Withdrawal of Southwest Monsoon:**

- Southwest Monsoon has further withdrawn from some more parts of Vidarbha; remaining parts of Chhattisgarh, Odisha & North Bay of Bengal; some parts of Telangana, Coastal Andhra Pradesh & Central Bay of Bengal today, the 21<sup>st</sup> October, 2022.
- The withdrawal line of Southwest Monsoon now passes through Long. 94.5°E/ Lat. 17.0°N, Kakinada, Ramagundam, Buldana, Dahanu and Long. 71.0° E/Lat. 19.5° N (Annexure II).
- Conditions are favourable for further withdrawal of Southwest Monsoon from the entire country during next 48 hours.

**Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure III)**

- The **Low Pressure Area** over north Andaman Sea and adjoining areas of south Andaman Sea & Southeast Bay of Bengal persists. It is very likely to move west-northwestwards and concentrate into a **Depression** over southeast & adjoining eastcentral Bay of Bengal on 22<sup>nd</sup> October and then moving northwestwards, intensify further into a **Deep Depression** over eastcentral & adjoining southeast Bay of Bengal on 23<sup>rd</sup> October. Subsequently, it is very likely to recurve gradually northwards and intensify into a **Cyclonic Storm** over westcentral & adjoining eastcentral Bay of Bengal by 24<sup>th</sup> October. Thereafter, it is likely to move north-northeastwards and reach near West Bengal-Bangladesh coasts on 25<sup>th</sup> October, skirting Odisha coast (Annexure V).
- The trough now runs from cyclonic circulation associated with the **low pressure area** over north Andaman Sea and adjoining areas of south Andaman Sea & Southeast Bay of Bengal to Southeast Arabian Sea across South Bay of Bengal, Tamilnadu & Kerala and extends upto middle tropospheric levels.
- The Western Disturbance now seen as a cyclonic circulation over northern parts of Jammu & Kashmir at middle tropospheric levels.
- **Under the influence of above systems;**
  - Fairly widespread/Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 21<sup>st</sup>-23<sup>rd</sup> October, 2022. **Isolated very heavy rainfall also very likely over Tamil Nadu, Puducherry & Karaikal on 21<sup>st</sup> October, 2022.**

- Scattered/Fairly widespread rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Odisha during 23<sup>rd</sup>-25<sup>th</sup> and Gangetic West Bengal during 24<sup>th</sup>-26<sup>th</sup> October, 2022. **Isolated very heavy rainfall also very likely over Odisha on 24<sup>th</sup> & Gangetic West Bengal on 25<sup>th</sup> October, 2022.**
- Fairly widespread/Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 24<sup>th</sup>-26<sup>th</sup> and Arunachal Pradesh on 25<sup>th</sup> October, 2022. **Isolated very heavy rainfall also very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 25<sup>th</sup> & 26<sup>th</sup> October, 2022.**
- Widespread light/moderate rainfall with **isolated heavy falls** very likely over Andaman & Nicobar Islands during 21<sup>st</sup>-23<sup>rd</sup> October, 2022.
- Isolated light rainfall/snowfall over Western Himalayan Region during next 24 hours and dry weather likely thereafter.
- **Dry weather very likely to prevail over most parts of Northwest & central India.**

➤ **Fishermen Warnings:**

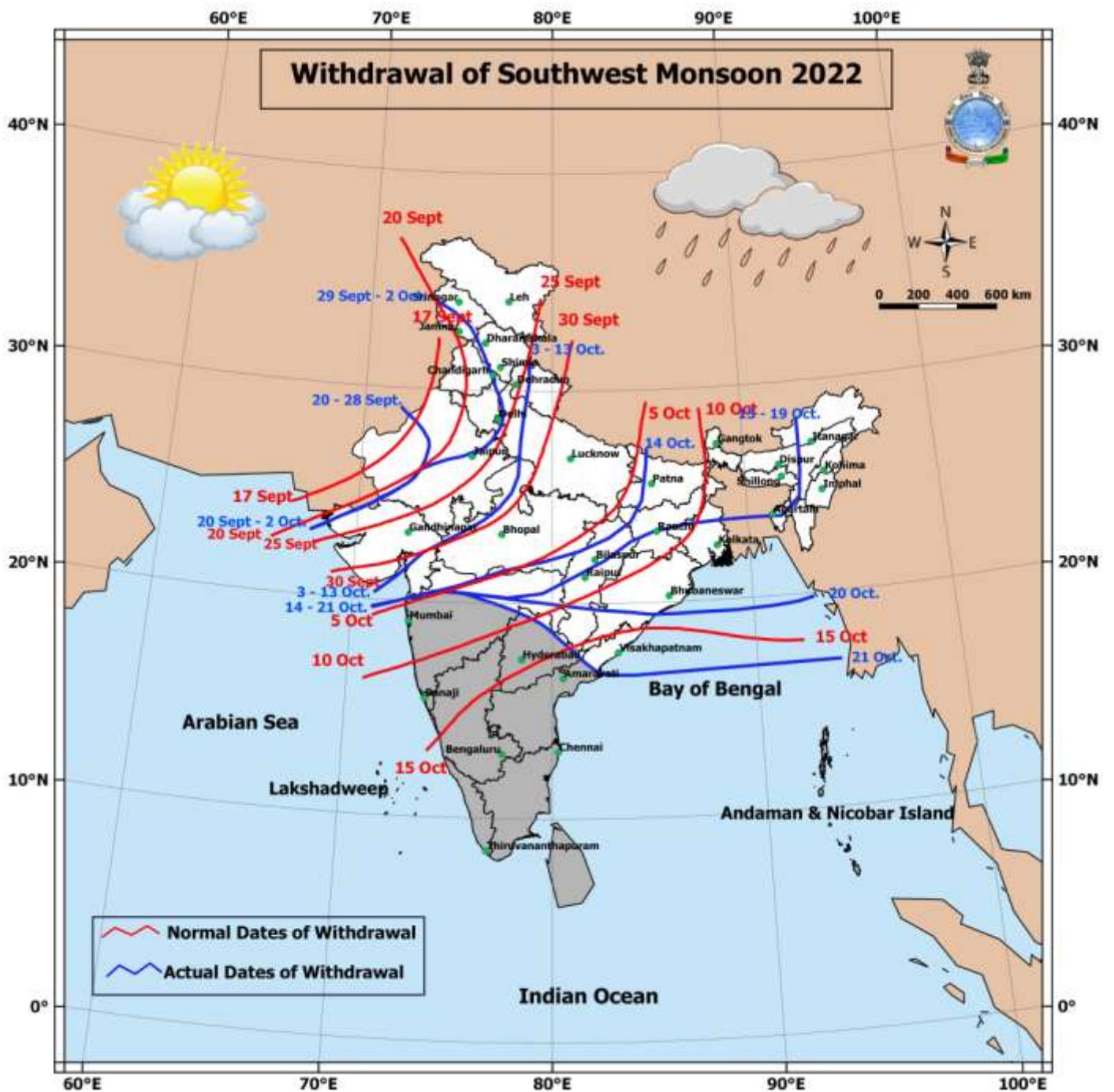
- **21<sup>st</sup> October:** Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph is very likely over southeast Bay of Bengal & adjoining eastcentral & Andaman Sea and Andaman & Nicobar Islands
- **22<sup>nd</sup> October:** Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over eastcentral & adjoining southeast Bay of Bengal, Andaman Islands and Andaman Sea.
- **23<sup>rd</sup> October:** Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over westcentral and adjoining eastcentral & southeast Bay of Bengal. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely along & off Odisha and West Bengal coasts.
- **24<sup>th</sup> October:** Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely over westcentral and adjoining areas of eastcentral & north Bay of Bengal. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely along & off Odisha and West Bengal coasts.
- **25<sup>th</sup> October:** Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely over north and adjoining central Bay of Bengal and along & off West Bengal and Bangladesh coasts and squally wind speed reaching 50-60 kmph gusting to 70 kmph likely along and off Odisha coast.
- **26<sup>th</sup> October:** Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely over north Bay of Bengal and along & off West Bengal and Bangladesh coasts till morning and gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph from afternoon.  
**Fishermen are advised not to venture into the above mentioned areas. (Fishermen graphics in Annexure IV)**

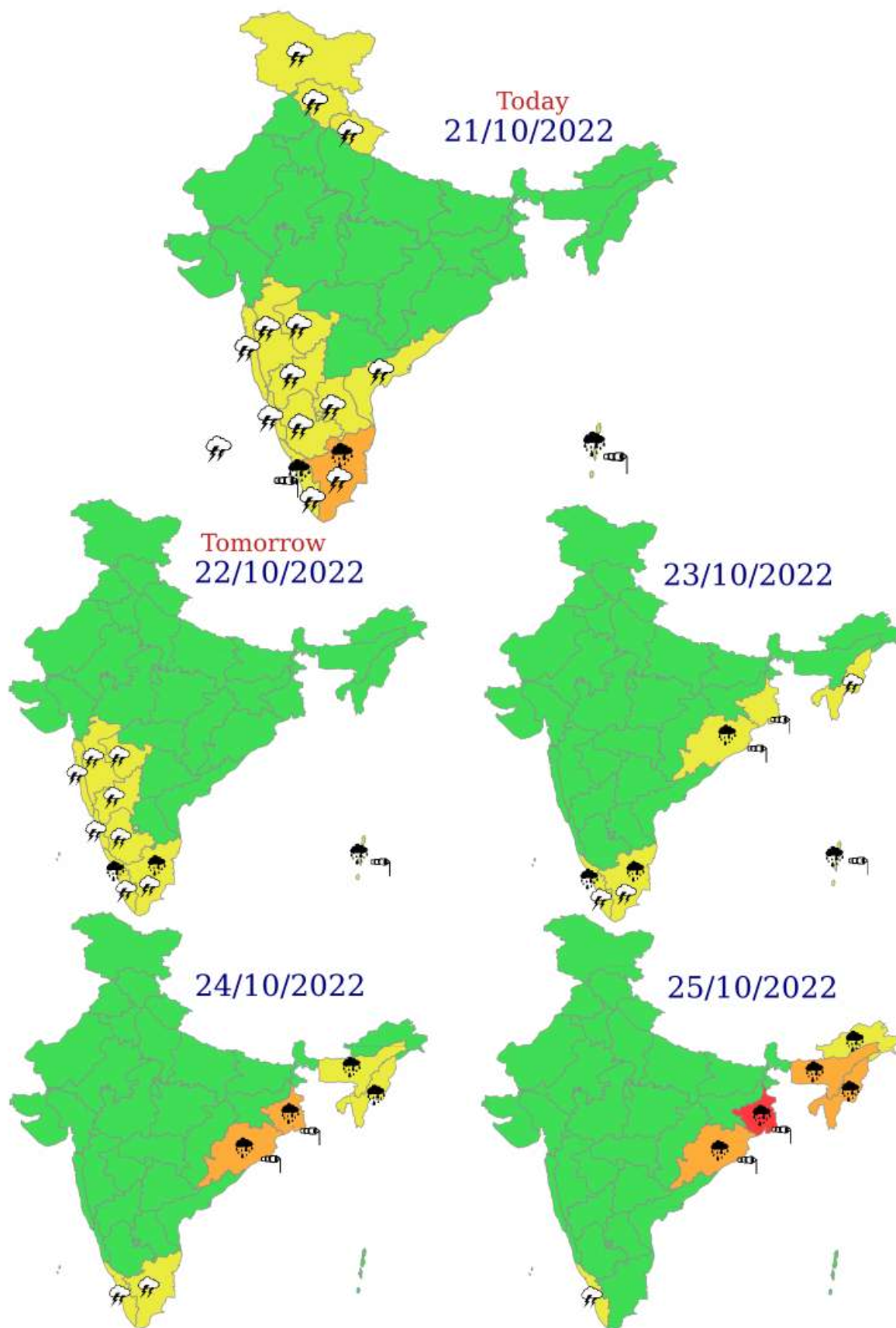
For more details kindly refer: [https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)

- ❖ **Isolated heavy rainfall occurred** over Madhya Maharashtra, Marathwada, Coastal Karnataka, Kerala and Tamil Nadu.

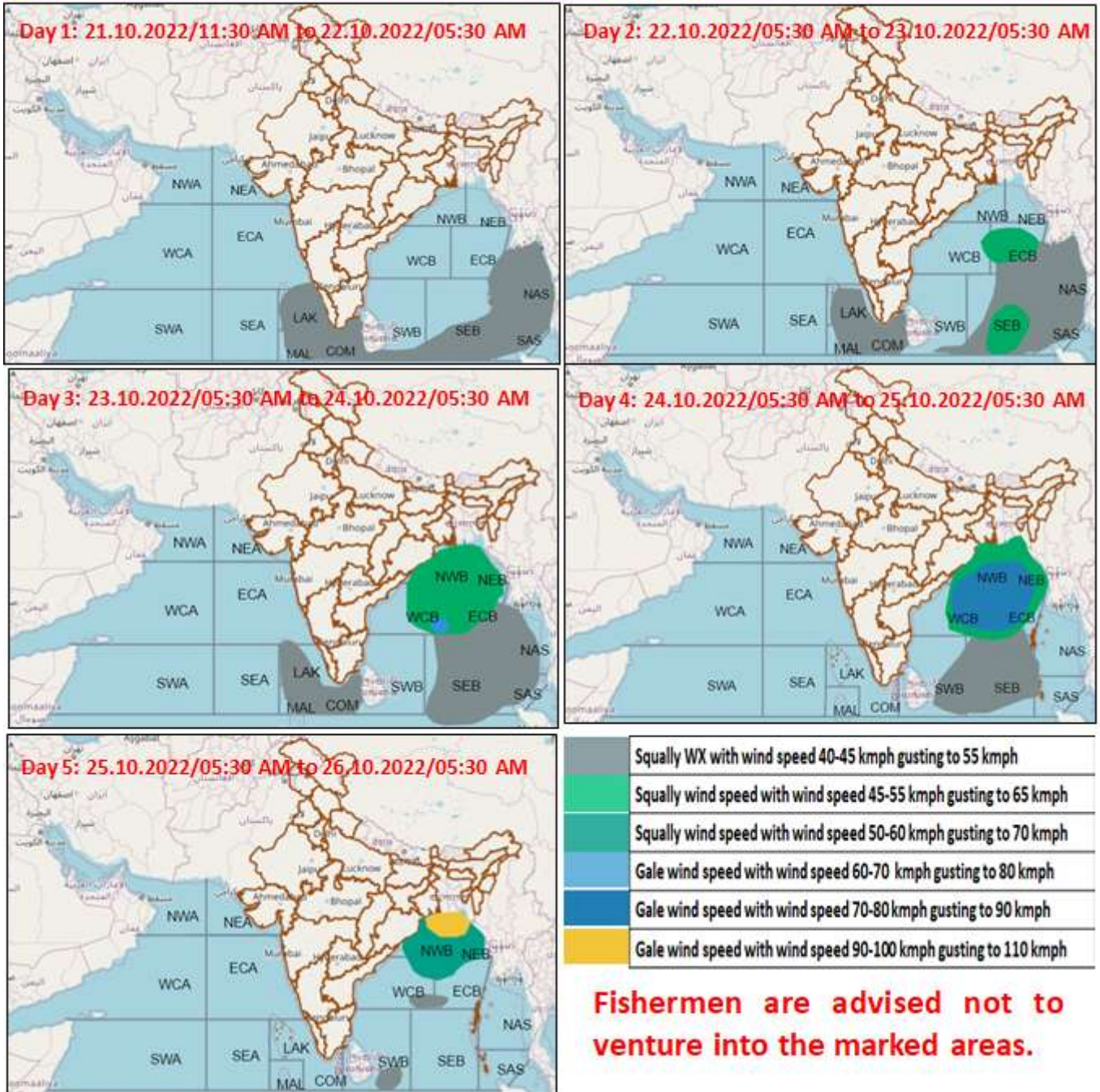
**Rainfall (in cm):**

- ❖ **Madhya Maharashtra:** Junnar (dist Pune) 11, Shirampur (dist Ahmednagar) 7;
- ❖ **Tamil Nadu:** Tiruppur: Vellakoil-11, Pudukkottai: Thirumayam-9, Avudaiyarkovil-8, Ramanathapuram: Thondi-9, Madurai: Vadipatti-8, Sivagangai: Thiruppuvanam-8, Cuddalore: Vadakuthu-7, Coimbatore: Cincona-7;
- ❖ **Kerala:** Palakkad: Kanjirapuzha ARG 10;
- ❖ **Marathwada:** Parli Vaijnath (dist Beed) 9, Latur (dist Latur) 8, Lohara (dist Osmanabad) 7, Kallamb (dist Osmanabad) 7;
- ❖ **Coastal Karnataka:** Haliyal (dist Uttara Kannada) 7.



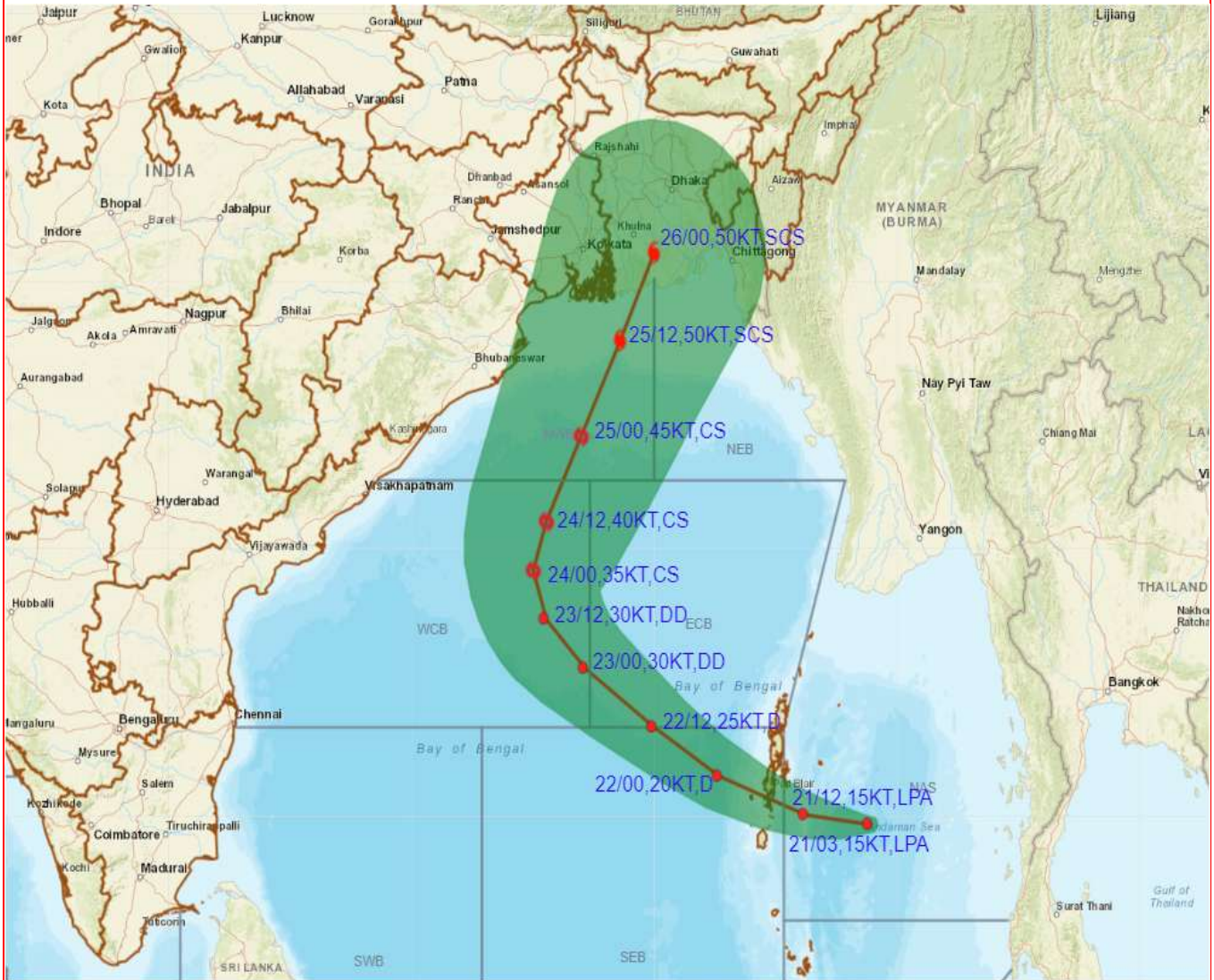


## Fishermen warning graphics





**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF LOW PRESSURE SYSTEM OVER NORTH ANDAMAN SEA BASED ON 0300 UTC OF 21<sup>ST</sup> OCTOBER, 2022**

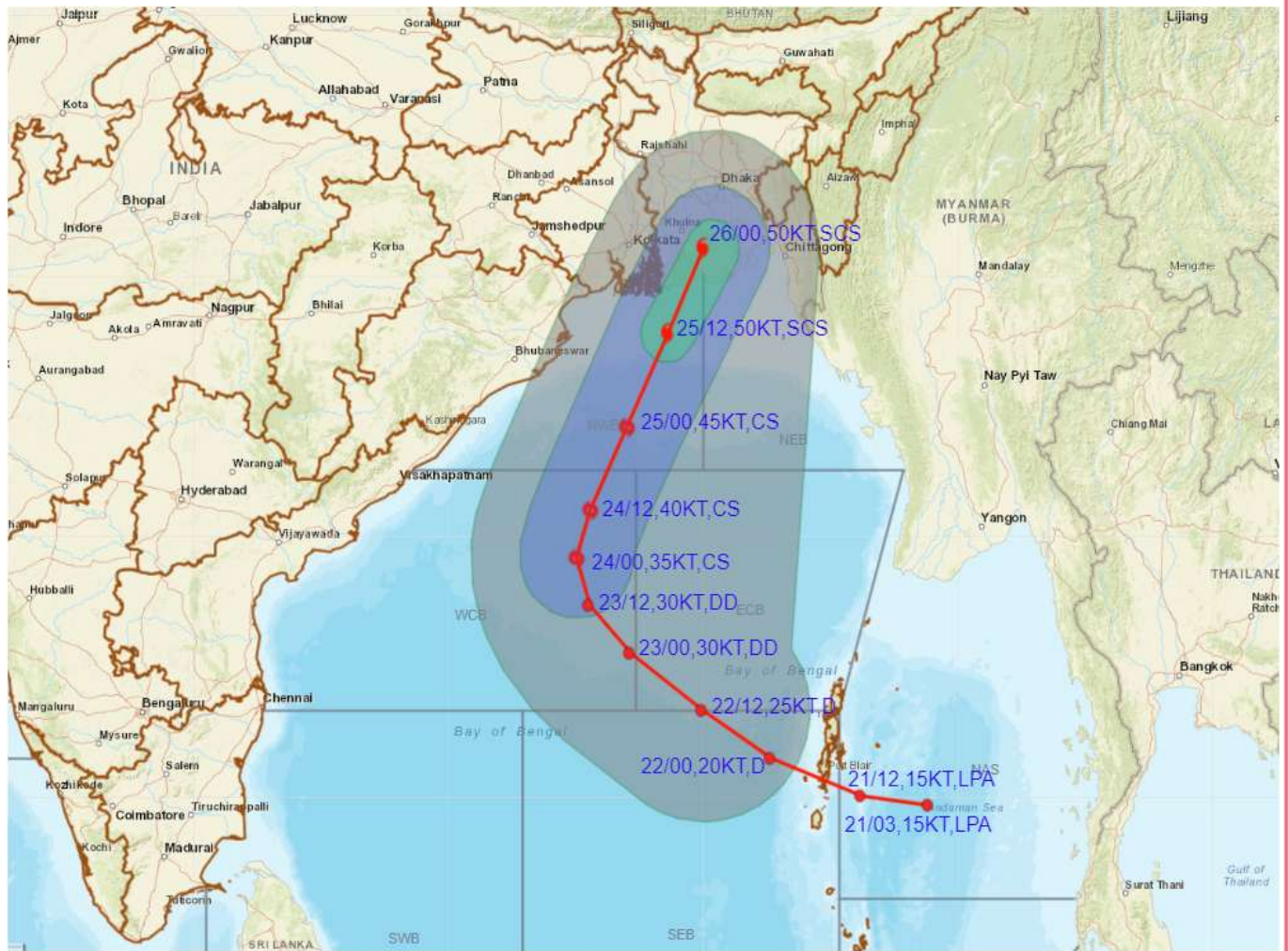


DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE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



## OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF LOW PRESSURE SYSTEM OVER NORTH ANDAMAN SEA BASED ON 0300 UTC OF 21<sup>ST</sup> OCTOBER, 2022



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 (≥ 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY
- AREA OF MAXIMUM SUSTAINED WIND SPEED:
- 28-33 KT (52-61 KMPH)
- 34-49 KT (62-91 KMPH)
- 50-63 KT (92-117 KMPH)
- ≥ 64 KT (≥118 KMPH)

### IMPACT OVER THE SEA

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations



## 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)



Heavy Rain



Strong Winds



Thunderstorm with Lightning

### 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