



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

Press Release

Date: 28th November, 2023

Time of Issue: 1430 hours IST

Subject:

(i) Thunderstorm activity accompanied with heavy rainfall/hail likely at isolated places over Vidarbha and Chhattisgarh today, the 28th November and decrease thereafter.

(ii) Low Pressure Area lies over South Andaman Sea.

(iii) A fresh Western Disturbance is likely to affect the Western Himalayan region from night of 29th November, 2023.

Realized weather during past 24 hours till 0830 hours IST of today: (Refer Annexure I)

Weather Systems and Forecast & Warnings during next 5 days: (graphics in Annexure II)

- ❖ Yesterday's Western Disturbance lay as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 75°E to north of Lat. 20°N today morning.
- ❖ The induced Cyclonic Circulation lay over southeast Rajasthan & adjoining West Madhya Pradesh in lower tropospheric levels.
- ❖ A Cyclonic Circulation lay over south Sri Lanka & neighbourhood in lower tropospheric levels.
- ❖ A fresh Western Disturbance is likely to affect the Western Himalayan region from night of 29th November, 2023.
- ❖ **A trough in easterlies is likely to run from Southeast Arabian Sea to North Maharashtra across Kerala, Coastal Karnataka during 29th November – 01st December, 2023. Thus, there will be interaction between middle level westerlies and lower level easterlies over the Central parts of the country during that period.**

Under the influence of the above systems:

- Scattered to fairly widespread Light to moderate rainfall accompanied with isolated thunderstorm activity very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 29th-30th November, over Himachal Pradesh on 30th November and over Uttarakhand on 28th & 30th November with significant reduction thereafter. Light rainfall very likely at isolated places over the plains of Northwest India during next 3 days.
- Light to moderate scattered to fairly widespread rainfall with thunderstorm & lightning at isolated places very likely over West Madhya Pradesh during next 3 days, over East Madhya Pradesh during next 4 days and over Vidarbha during next 2 days. **Heavy rainfall** very likely at isolated places over East Madhya Pradesh and Vidarbha today. **Hailstorm** at isolated places very likely over East Vidarbha and Chhattisgarh today.

- Light to moderate isolated to scattered rainfall with thunderstorm activity isolated places very likely over Madhya Maharashtra, Marathwada during next 3 days and over Konkan & Goa on today, the 28th November.
- Light to moderate scattered to fairly widespread rainfall with thunderstorm activity at isolated places very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 5 days. **Heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal during 28th November-01st December; over Kerala & Mahe on 30th November & 01st December and over Rayalaseema on 28th November.

❖ **Dense fog** very likely in isolated pockets in the morning hours over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan tomorrow.

Low Pressure Area over South Andaman Sea (graphics in Annexure III)

❖ Yesterday's Low Pressure Area over South Andaman Sea & adjoining Malacca Strait moved nearly westwards and lay over South Andaman Sea at 0830 hours IST of today, the 28th November. It is likely to move west-northwestwards and intensify into a Depression over southeast Bay of Bengal around 30th November, 2023. Thereafter, it is likely to move northwestwards and intensify further into a cyclonic storm over southwest & adjoining southeast Bay of Bengal during subsequent 48 hours

Warnings in association with the above Low Pressure Area:

(i) Rainfall Warning (graphics enclosed):

- Light to moderate rainfall at most places with **isolated heavy rainfall** is likely over Nicobar Islands during 28th to 1st December with **isolated heavy to very heavy rainfall** on 29th November.
- Light to moderate rainfall at most places with **isolated heavy very heavy rainfall** is likely over Andaman Islands on 30th November.

(ii) Wind warning:

- **Andaman Sea and Andaman & Nicobar Islands:**

Strong wind speed reaching **15-25 kmph gusting to 35 kmph** is likely to prevail over South Andaman Sea and adjoining Andaman & Nicobar Islands on 28th and likely to become **25-35 kmph gusting to 45 kmph** on 29th November.

- **Southeast Bay of Bengal:**

Squally weather with wind speed reaching **40-50 kmph gusting to 60 kmph** is likely to prevail over Southeast Bay of Bengal on 30th November. It is likely to increase becoming **50-60 kmph gusting to 70 kmph** on 1st December and **Gale Wind** speed reaching **60-70 kmph gusting to 80 kmph** on 2nd December.

- **Southwest Bay of Bengal:**

Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is likely over adjoining Southwest Bay of Bengal from 1st December morning. It would increase becoming **Gale Wind** speed reaching **60-70 kmph gusting to 80 kmph** on 2nd December morning.

- **Central Bay of Bengal:**

Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is likely over adjoining central Bay of Bengal 1st December and is likely to become **50-60 kmph gusting to 70 kmph** on 2nd December.

(iii) Sea Condition:

- **Andaman Sea and Andaman & Nicobar Islands:**

Moderate to rough sea condition is likely over South Andaman Sea and adjoining Andaman & Nicobar Islands, North Andaman Sea & Malacca Strait on 28th & 29th November.

- **Southeast Bay of Bengal:**

Rough to very Rough Sea condition is likely over Southeast Bay of Bengal on 30th November & 1st December and **very rough to high** on 2nd December.

- **Southwest Bay of Bengal :**

Rough to Very Rough to sea condition is likely from 1st December morning becoming **very rough to high** from 2nd December morning.

- **Central Bay of Bengal :**

Rough to Very Rough to sea condition is likely from 1st December morning and becoming very rough to high from 2nd December morning onwards.

(iv) Fishermen Warning (graphics attached as Annexure IV): Fishermen are advised not to venture into:

- South Andaman Sea on 29th & 30th November.
- Southeast Bay of Bengal 30th November to 2nd December.
- Southwest Bay of Bengal on 30th November and 2nd December.
- Central Bay of Bengal from 1st December morning onwards.

The Fishermen out at sea are advised to return to Islands by today, the 28th November and those off east coast of India (from North Tamil Nadu to Odisha) are advised to return to coast by 1st December.

For more details kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php and <https://mausam.imd.gov.in/responsive/cycloneinformation.php>

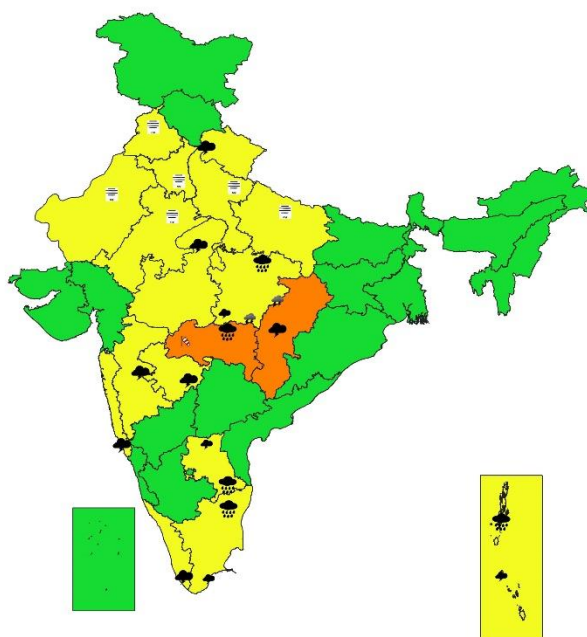
Annexure I

Realized weather during past 24 hours till 0830 hours IST of today:

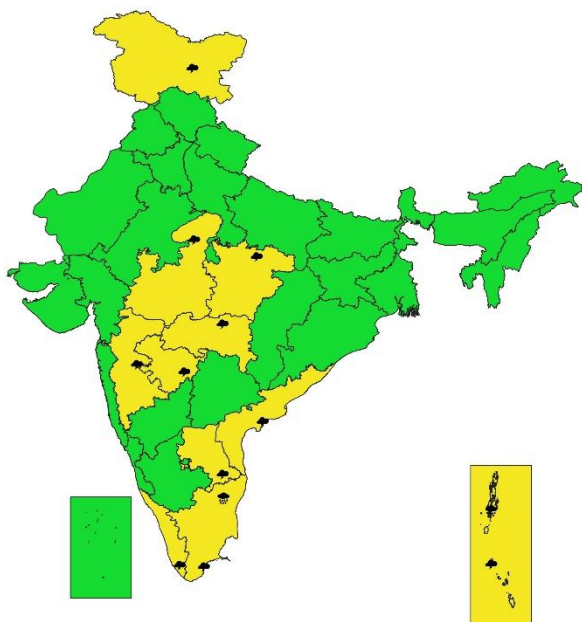
- ❖ **Hailstorms** reported at isolated places over East Rajasthan.
- ❖ **Heavy rainfall** reported at isolated places over Madhya Maharashtra and Tamil Nadu.
- ❖ **Significant Rainfall Amount:**
 - **Tamil Nadu:** Poondi (dist Tiruvallur) 9; Maduranthagam (dist Chengalpattu), Kulasekarapattinam (dist Thoothukudi), Cuddalore (dist Cuddalore) 6 each
 - **Madhya Maharashtra:** Jamner (dist Jalgaon) 7, Pathardi (dist Ahmednagar) 5
 - **Rayalaseema:** Satyavedu (dist Tirupati) 6, Kodur (dist Ysr District) 6, Gudur (dist Tirupati) 6



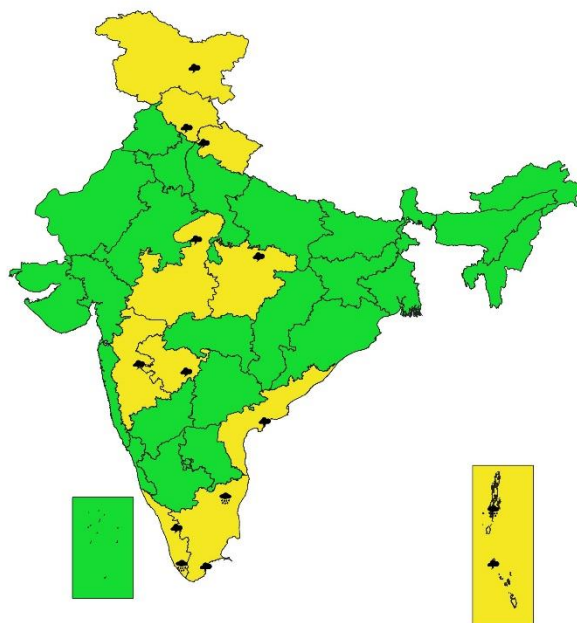
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1 (28-11-2023)

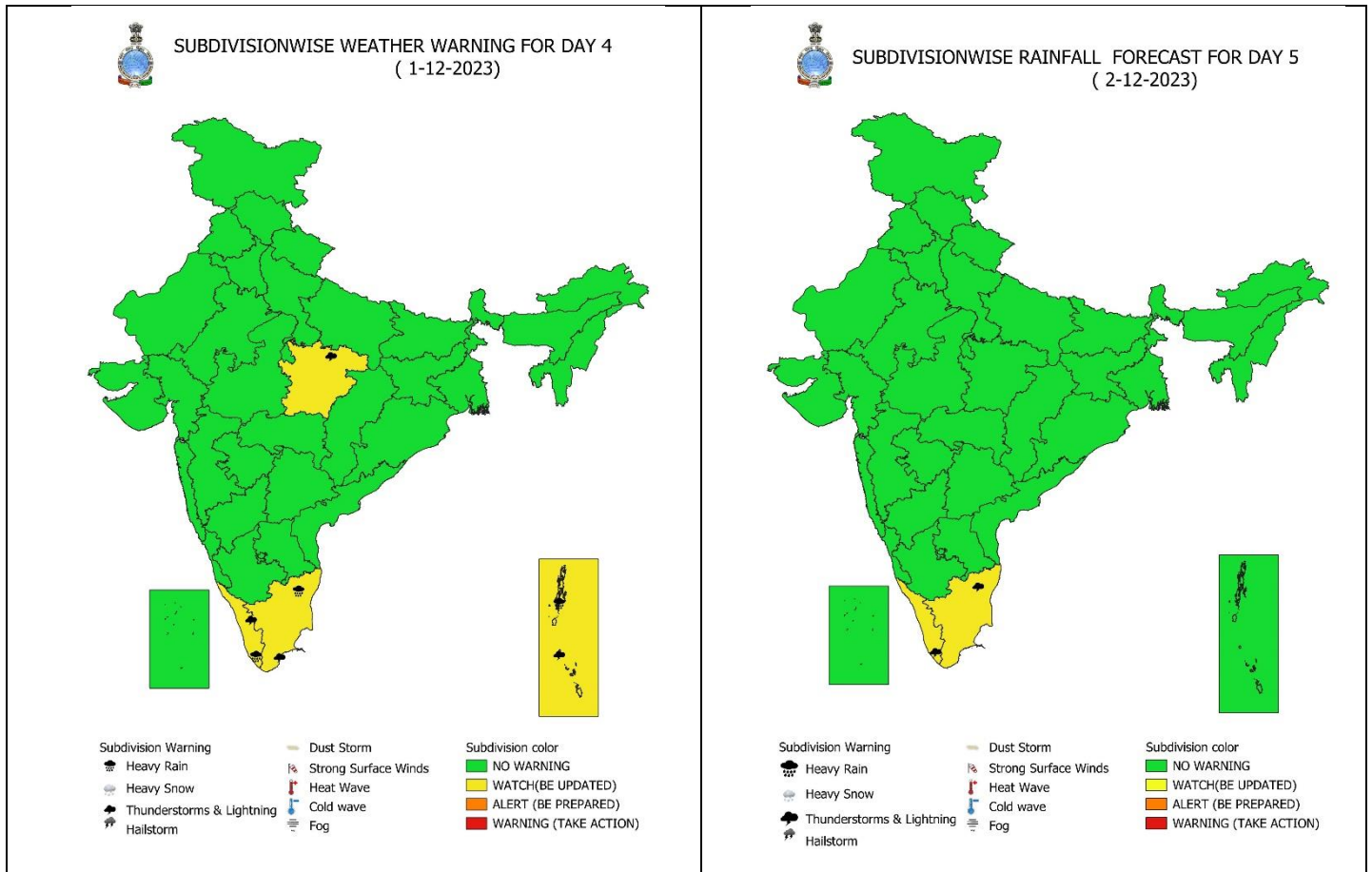


SUBDIVISIONWISE WEATHER WARNING FOR DAY 2 (29-11-2023)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 3 (30-11-2023)





Impact expected and action suggested due to isolated thunderstorm with lightning/gusty winds & Hailstorm over Vidarbha and Chhattisgarh on 28th November.

Impact expected:

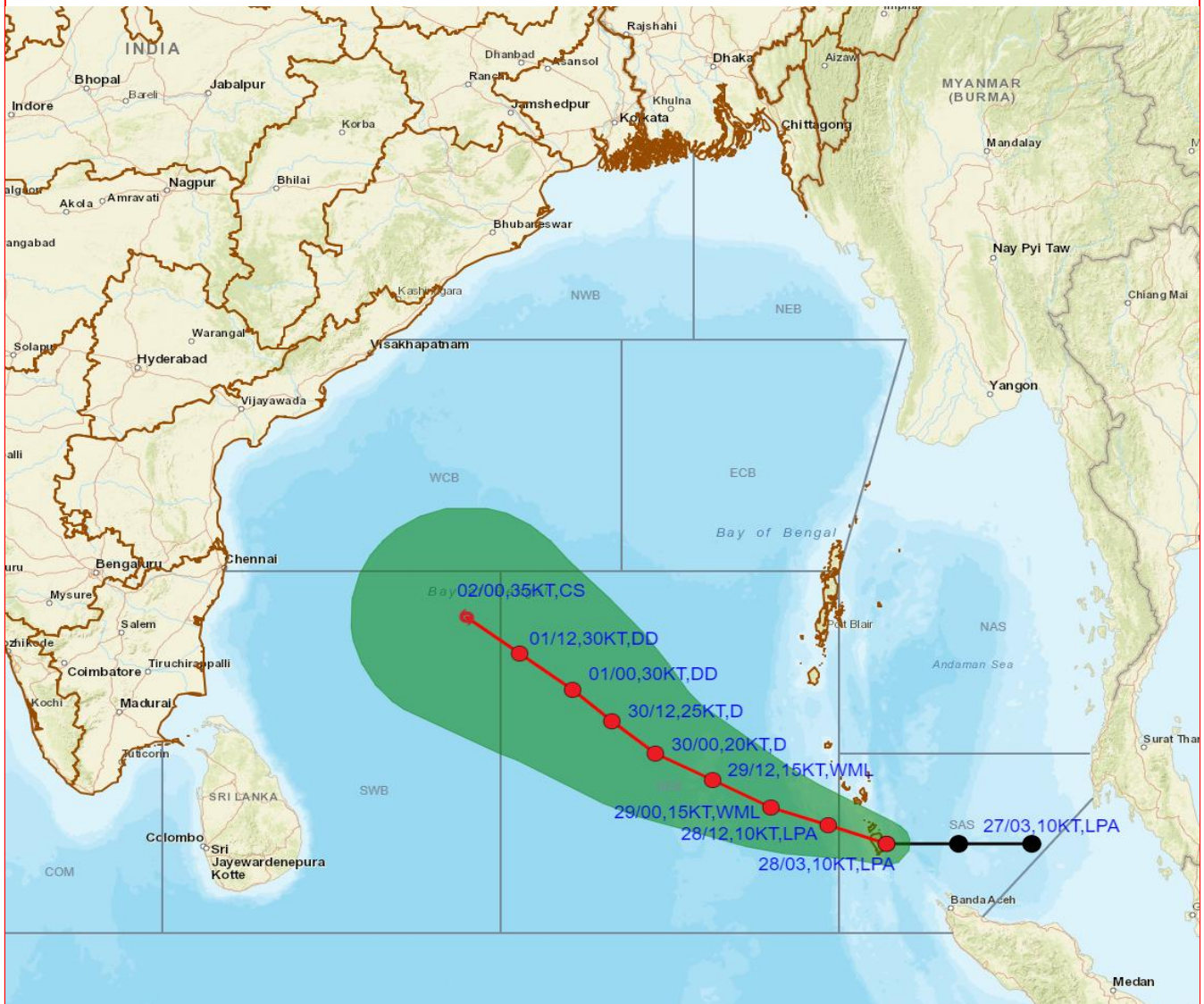
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.



PREGENESIS TRACK FORECAST ALONGWITH CONE OF UNCERTAINTY IN ASSOCIATION WITH LOW PRESSURE AREA OVER SOUTH ANDAMAN SEA BASED ON 0300 UTC (0830 IST) OF 28TH NOVEMBER 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)

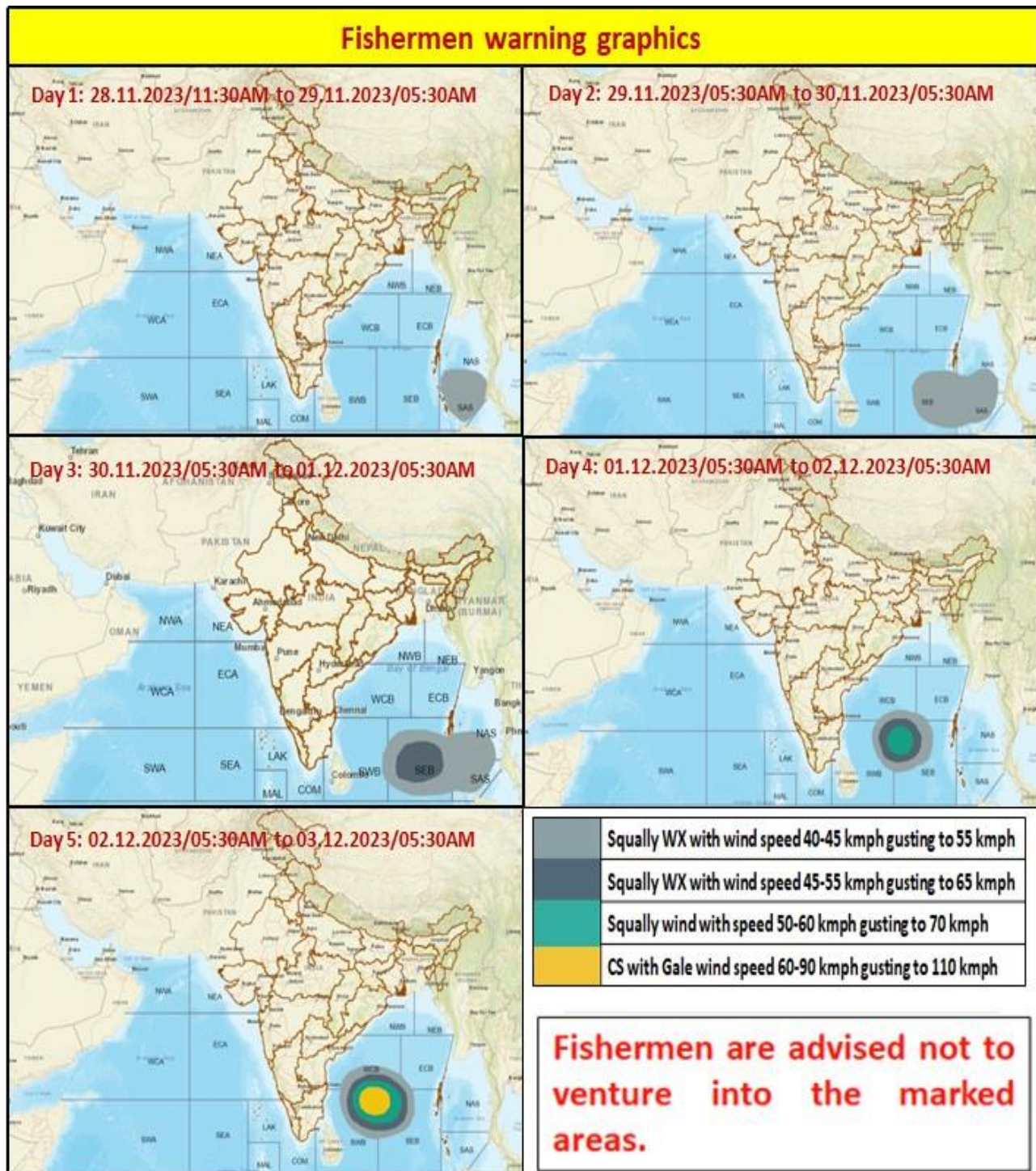
SCS: SEVERE CYCLONIC STORM (48-63KT)

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



Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **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.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **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)

Subdivision Warning	 Dust Storm	Subdivision color
 Heavy Rain	 Strong Surface Winds	 NO WARNING
 Heavy Snow	 Heat Wave	 WATCH(BE UPDATED)
 Thunderstorms & Lightning	 Cold wave	 ALERT (BE PREPARED)
 Hailstorm	 Fog	 WARNING (TAKE ACTION)

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)