



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

**Press Release
Date: 06th June, 2023
Time of Issue: 1330 hours IST**

**Subject: i) Heat wave conditions likely to continue over Bihar, Jharkhand, West Bengal, Andhra Pradesh and Telangana during next 5 days.
ii) Depression over Southeast Arabian Sea is likely to move nearly northwards and intensify into a cyclonic storm over Eastcentral Arabian Sea & adjoining southeast during next 12 hours.**

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

Advance of southwest monsoon:

- ❖ The Northern Limit of Southwest Monsoon continues to pass through 10°N/65°E, 9°N/70°E, Minicoy, 7°N/81°E, 11°N/87°E, 14°N/90°E, 17°N/93°E & 19°N/95°E. (Annexure II).

Significant Meteorological features:

- ❖ Yesterday's cyclonic circulation over Southeast Arabian Sea has become Low Pressure Area at 1730 hours IST of yesterday and intensified into depression over the same area at 0530 hours IST of today. It is likely to move nearly northwards and intensify into a cyclonic storm over Eastcentral Arabian Sea & adjoining southeast during next 12 hours. (Annexure IV)
- ❖ A Western Disturbance lies over Jammu & Kashmir at middle tropospheric levels.
- ❖ A trough runs from northeast Madhya Pradesh to North Interior Karnataka in lower tropospheric levels.

Forecast and warning over the country during next 5 days:

South India:

- ❖ Light/moderate fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Kerala, Lakshadweep, South Interior Karnataka; isolated to scattered activity over Coastal & North Interior Karnataka, Tamil Nadu and Andhra Pradesh during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands on 06th, 07th & 10th; Kerala during 06th-10th and South Interior Karnataka on 09th & 10th June.

Northeast India:

- ❖ Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning very likely over the region during next 5 days. Isolated **heavy rainfall** very likely over Manipur on 06th, Manipur & Mizoram on 07th and Arunachal Pradesh, Assam & Meghalaya on 10th June.

Northwest India:

- ❖ Light/moderate isolated rainfall with thunderstorm/lightning very likely over Northwest India on 06th & 07th June. Thundersquall (speed 50-60 kmph) likely over West Rajasthan on 06th & 07th and over East Rajasthan on 06th June.

No significant weather is likely over rest parts of the country during next 5 days.

Maximum Temperatures and Heat Wave warning (Graphics in Annexure III):

- ❖ Yesterday, **Maximum Temperatures** were in the range of 40-42°C over many parts of central, east & north Peninsular India. Maximum temperatures are above normal by 3-5°C over parts of East India, Andhra Pradesh, Karnataka, Tamil Nadu and Kerala.
- ❖ Yesterday, **Heat Wave to severe heat wave conditions** prevailed in some pockets over Bihar and **heat wave conditions** in isolated pockets over West Bengal. This is 6th day of Heat Wave conditions over the above areas.

- ❖ Rise in maximum temperatures by 2-4°C very likely over plains of Northwest India during next 5 days and by 2-3°C over Central India during next 3 days.
- ❖ **Heat wave to severe heat wave conditions** very likely to continue in some pockets over Bihar during 06th to 10th June.
- ❖ **Heat wave conditions** very likely to continue in isolated pockets over West Bengal, east Jharkhand, Andhra Pradesh & Yanam, Telangana during 06th-10th June; East Uttar Pradesh during 07th to 10th June and West Uttar Pradesh during 08th-10th June.

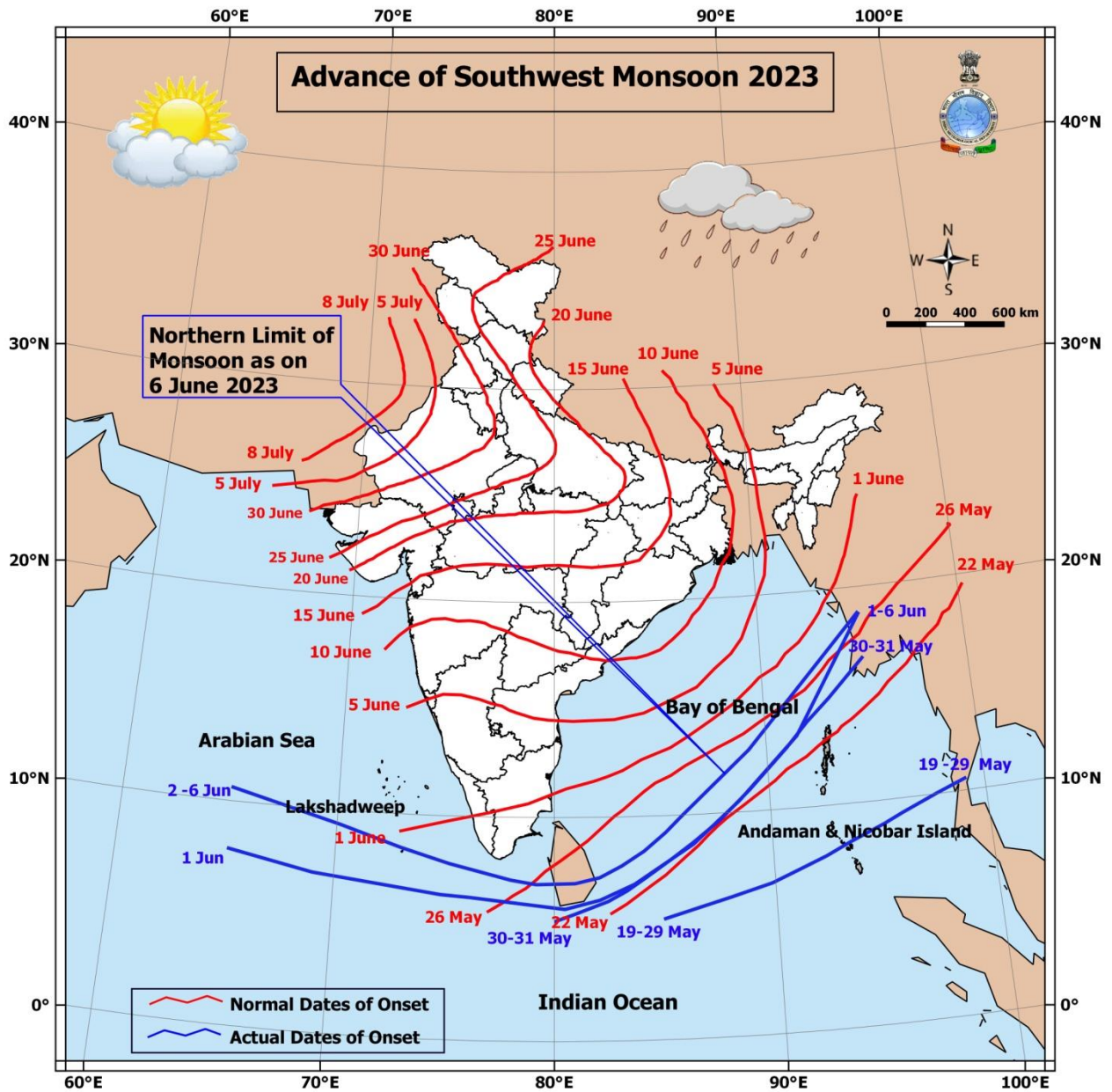
For more details kindly refer:

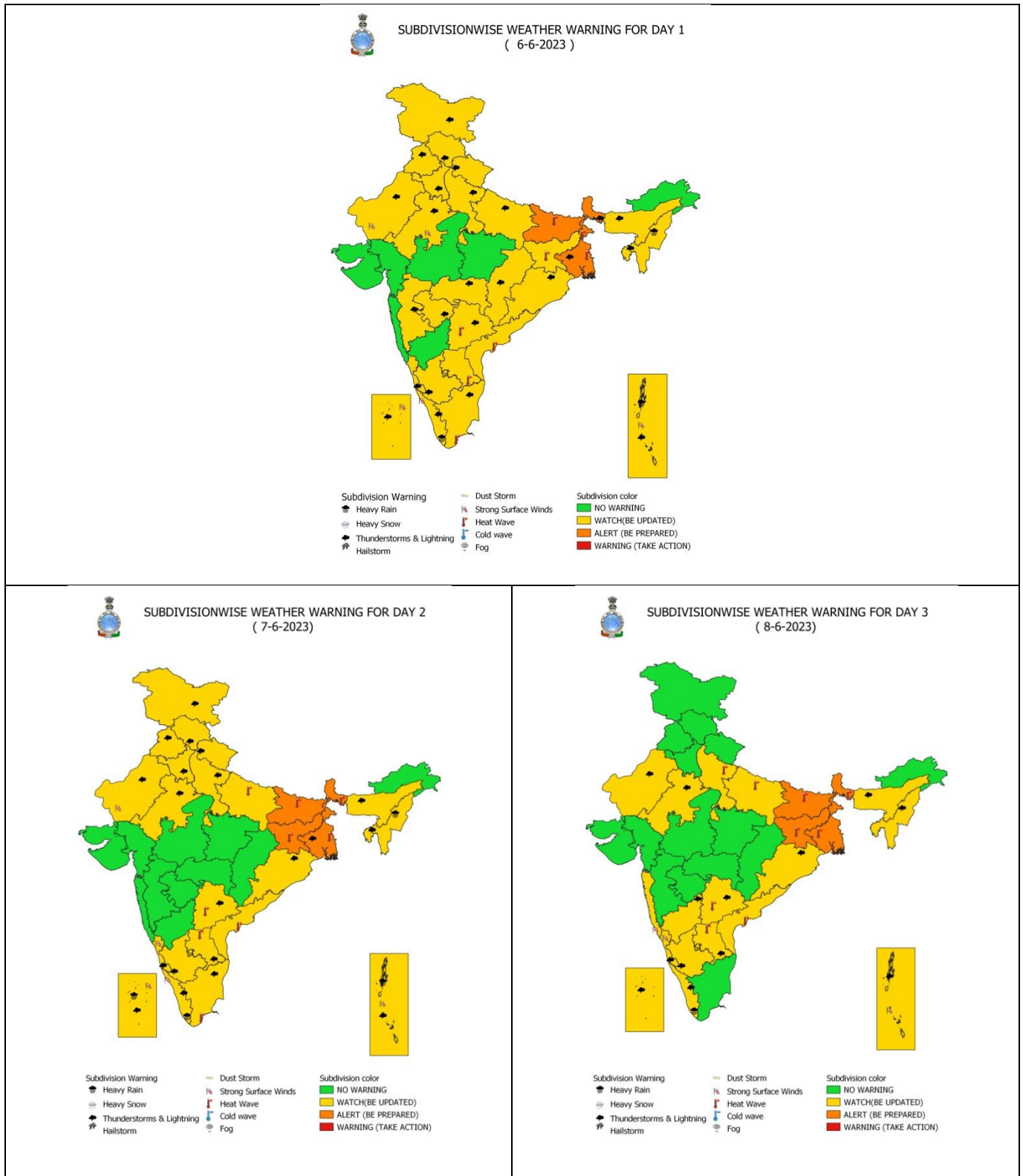
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

Weather Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

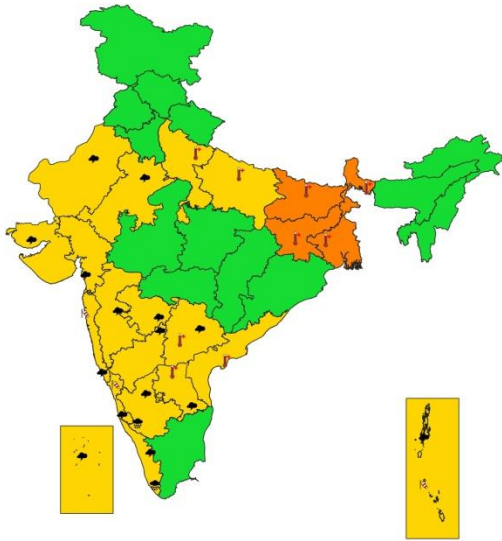
- **Rainfall/thundershowers** observed **at most places** over Andaman & Nicobar Islands; **at many places** over Uttarakhand, Kerala & Mahe, Lakshadweep; **at a few places** over Himachal Pradesh, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad.
- **Heavy rainfall observed** at isolated places over Himachal Pradesh, Kerala and Tamil Nadu.
- **Significant rainfall recorded (in cm):** **Tamil Nadu:** Budalur (dist Thanjavur) 10, Vepur (dist Cuddalore), Nannilam (dist Tiruvarur), Panruti (dist Cuddalore), Tirukattupalli (dist Thanjavur) 7 each, **Kerala:** Ranni AWS (Pathanamthitta district) 7, Mancompu (Alappuzha district) 6, Kayamkulam (Alappuzha district) & Paripalli AWS (Kollam district) 5 each, **Himachal Pradesh:** Mandi-7, Shimla-3; **Uttarakhand:** Tehri, Mussoorie-3 each; **West Rajasthan:** Sinderi Sr (dist Barmer) 6, **West Bengal:** Birbhum, Jalpaiguri-4 each; **Odisha:** Narla (dist Kalahandi) 5; **Gujarat region:** Palanpur (dist Banaskantha) 4, **Nagaland, Manipur, Mizoram & Tripura:** Tuensang (dist Tuensang) 4, Saiha (dist Saiha) 4, Lawngtlai (dist Lawngtlai) 4.
- **Hailstorm observed** at isolated places over Jammu, Himachal Pradesh, Uttarakhand, West Rajasthan and West Madhya Pradesh.







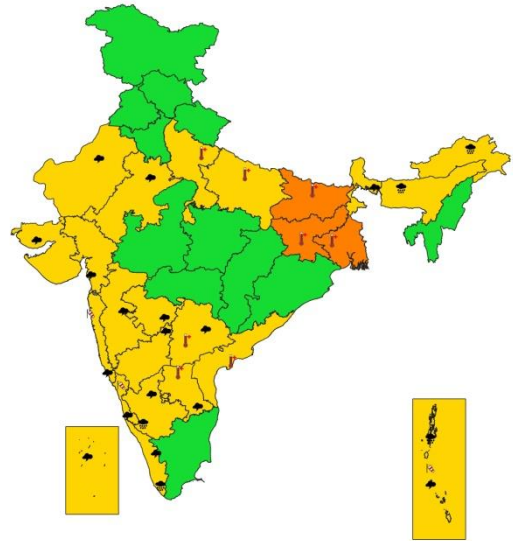
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(9-6-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| 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) |
| Hallstorm | Fog | WARNING (TAKE ACTION) |



**SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 5
(10-6-2023)**

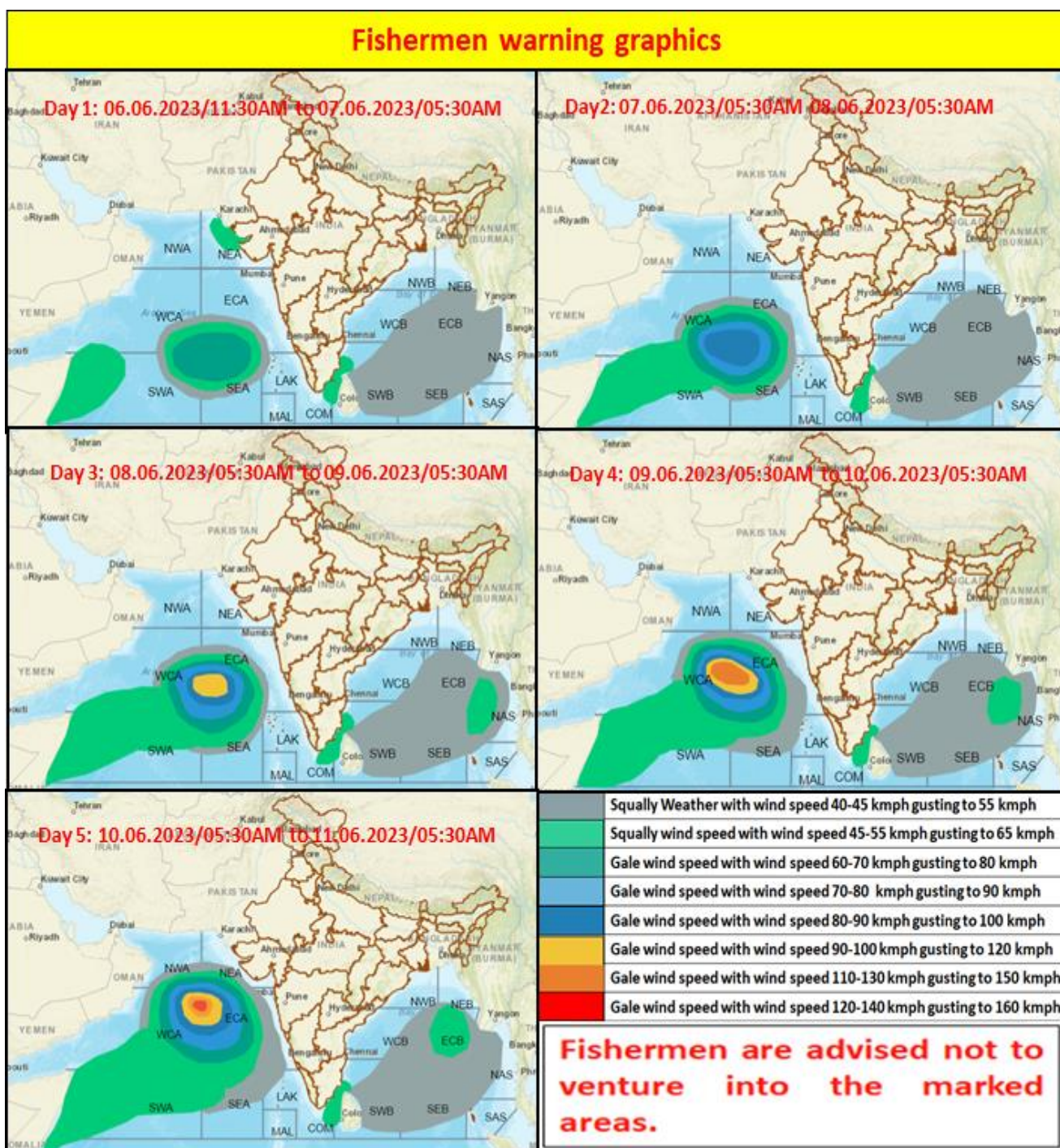


- | | | |
|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH (BE UPDATED) |
| Thunderstorms & Lightning | Cold wave | ALERT (BE PREPARED) |
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Fishermen warning:

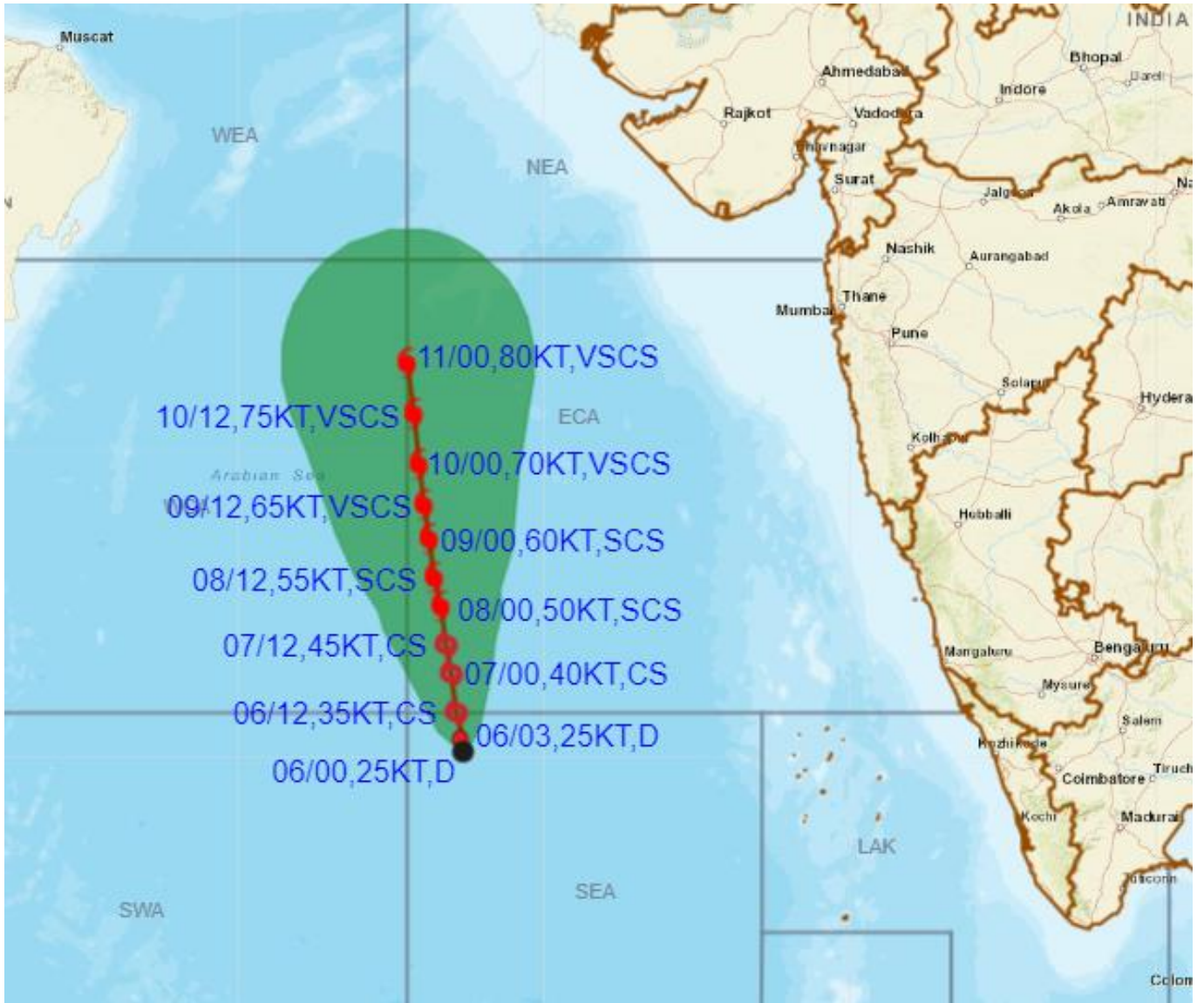
Fishermen are advised not to venture into:

- (i) Southeast and adjoining central & southwest Arabian Sea on 6th June
- (ii) Eastcentral and adjoining areas of westcentral & south Arabian Sea during 7th-9th June
- (iii) Eastcentral and adjoining areas of westcentral Arabian Sea on 10th June.
- (iv) Along & off along & off Kerala-Karnataka coasts, Lakshadweep-Maldives areas during 6th and 7th and along & off Konkan-Goa- Maharashtra coasts during 8th-10th June.
- (v) Those out at sea are advised to return to coast by today afternoon.





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHEAST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 06TH JUNE 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

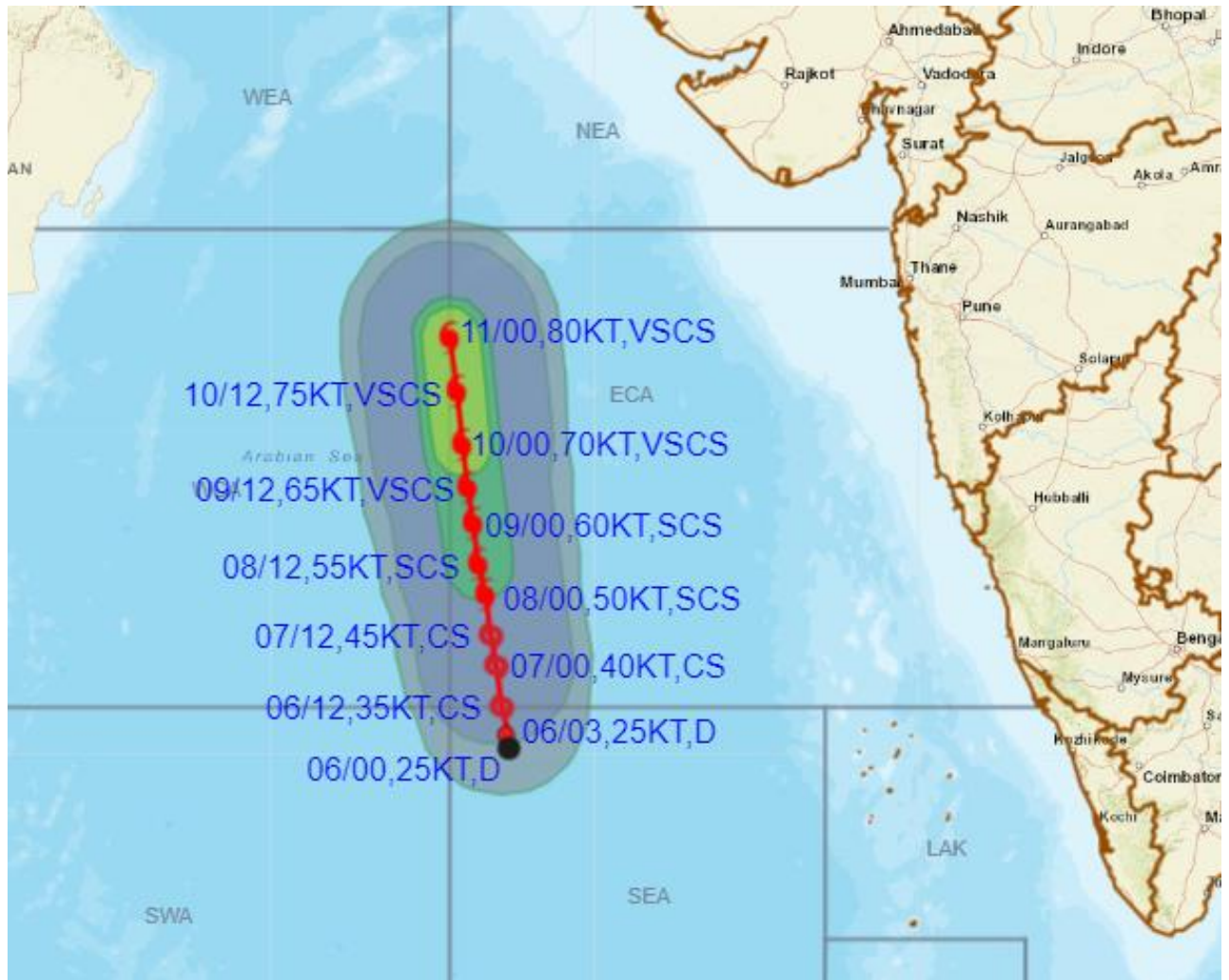
■ OBSERVED TRACK

■ FORECAST TRACK

▲ CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER SOUTHEAST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 06TH JUNE 2023.



DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
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 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:** >204.4mm.

❖ **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, Tamilnadu, 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