



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

**Press Release
Date: 07th June, 2023
Time of Issue: 1300 hours IST**

- Subject: i) Conditions are becoming favourable for Monsoon onset over Kerala during next 48 hours.**
ii) Heat wave conditions likely to continue over Bihar, Jharkhand, West Bengal, Andhra Pradesh and Telangana during next 4-5 days.
iii) A Severe Cyclonic Storm “Biparjoy” over eastcentral & adjoining southeast Arabian Sea.

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**).
- ❖ Latest meteorological features associated with Monsoon onset over Kerala show:
- ❖ There is (a) Persistence of westerly winds over south Arabian Sea (b) Increase in the depth of westerly winds upto middle tropospheric levels and (c) Increase in cloudiness over the areas covering southeast Arabian Sea, Lakshadweep and Kerala coasts.
Under such Scenario; the conditions are becoming favourable for Monsoon onset over Kerala during next 48 hours.
- ❖ The conditions are also favourable for further advance of Southwest Monsoon into some more parts of South Arabian Sea, entire Lakshadweep, Maldives and Comorin area, some more parts Southwest, Central & Northeast Bay of Bengal and some parts of Northeastern states during next 48 hours.

Severe Cyclonic Storm “Biparjoy” (pronounced as “Biporjoy”) over eastcentral & adjoining southeast Arabian Sea

Yesterday’s Depression over Southeast Arabian Sea, intensified into a Deep Depression over Southeast & adjoining Eastcentral Arabian Sea at 1130 hours IST of yesterday, into a Cyclonic storm over Eastcentral & adjoining Southeast Arabian Sea at 1730 hours IST of yesterday and into a **Severe Cyclonic Storm** over the same region at 0530 hrs IST of today, the 07th June, It lay centered at 0830 hours IST of today, over the same region near latitude 12.7°N and longitude 66.2 °E, about 880 km west-southwest of Goa, 990 km southwest of Mumbai, 1060 km south-southwest of Porbandar and 1360 km south of Karachi.

It is very likely to intensify into a **Very Severe Cyclonic Storm** during next 12 hours. It would move nearly northwards during next 24 hours and then north-northwestwards during subsequent 3 days.

Fishermen Warning (Annexure IV)

- Total suspension of fishing operations over
 - eastcentral and adjoining westcentral & south Arabian Sea till 12th June.
 - westcentral and adjoining northwest Arabian Sea during 12-14th June
- Fishermen are advised not to venture into:
 - Central Arabian Sea till 13th June.
 - Adjoining areas of north Arabian Sea during 12th -13th June.
 - Adjoining areas of south Arabian Sea till 7th June.

Those out at sea are advised to return to coast.

Other Significant Meteorological features

- ❖ A Western Disturbance lies over Himachal Pradesh at middle tropospheric levels.
- ❖ A trough runs from north Chhattisgarh to North Interior Karnataka in lower tropospheric levels.
- ❖ A cyclonic circulation lies over south Tamilnadu & neighbourhood at middle 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, Coastal & South Interior Karnataka; isolated to scattered activity over North Interior Karnataka, Tamil Nadu and Andhra Pradesh during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands during 07th-09th; Kerala during 07th-11th; Tamil Nadu on 07th; Lakshadweep during 09th-11th; and Karnataka on 10th & 11th 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 & Mizoram during 07th-09th and Arunachal Pradesh, Assam & Meghalaya on 10th & 11th 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 parts of Vidarbha, Chhattisgarh, East India, Andhra Pradesh and Telangana. Maximum temperatures are above normal by 3-5°C over parts of Northeast India, Bihar and West Bengal.
- ❖ Yesterday, **Heat Wave to severe heat wave conditions** prevailed in some pockets over Bihar and **heat wave conditions** in some pockets over West Bengal. This is 7th day of Heat Wave conditions over the above areas. **Heat wave conditions** also observed in isolated pockets over Jharkhand, Coastal Andhra Pradesh and Telangana.
- ❖ Rise in maximum temperatures by 2-3°C very likely over plains of Northwest India (except Rajasthan) during next 4 days and no significant change thereafter.
- ❖ **Heat wave to severe heat wave conditions** very likely to continue in some pockets over Bihar during 07th to 09th June and heat wave in isolated pockets thereafter till 11th June.
- ❖ **Heat wave conditions** very likely to continue in isolated pockets over West Bengal till 10th, Jharkhand, Andhra Pradesh & Yanam till 11th; Telangana till 09th; Rayalaseema till 08th and south Uttar Pradesh during 08th-10th June.

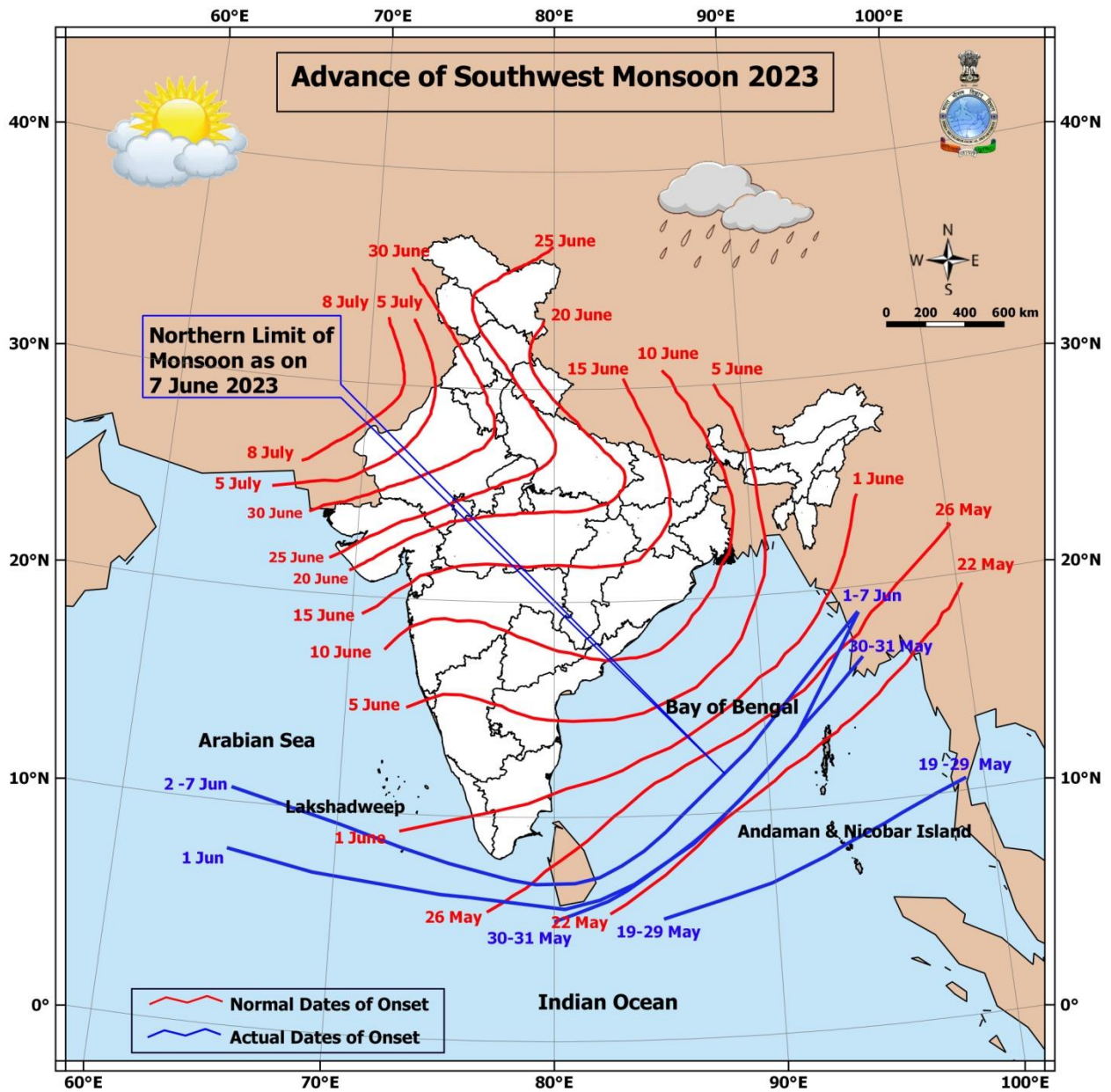
For more details kindly refer:

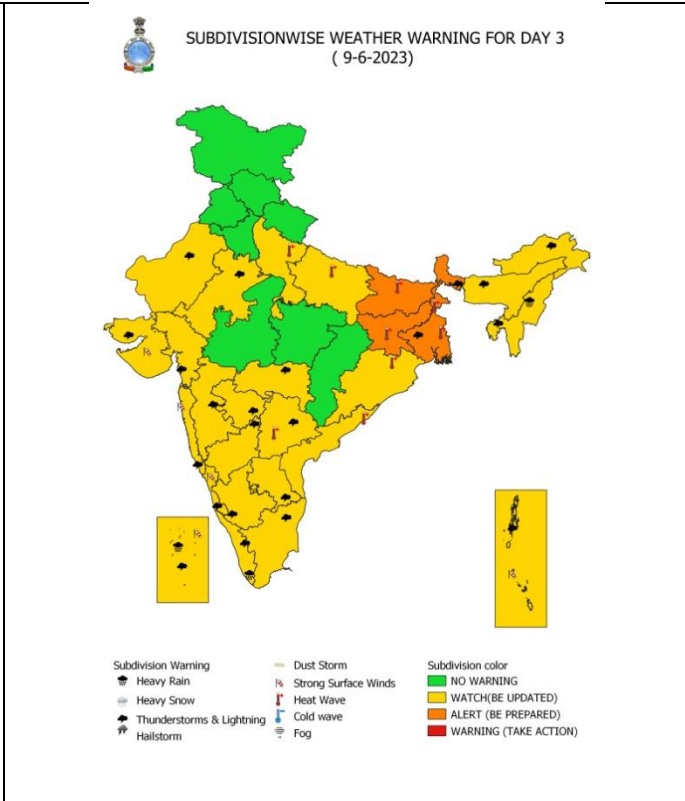
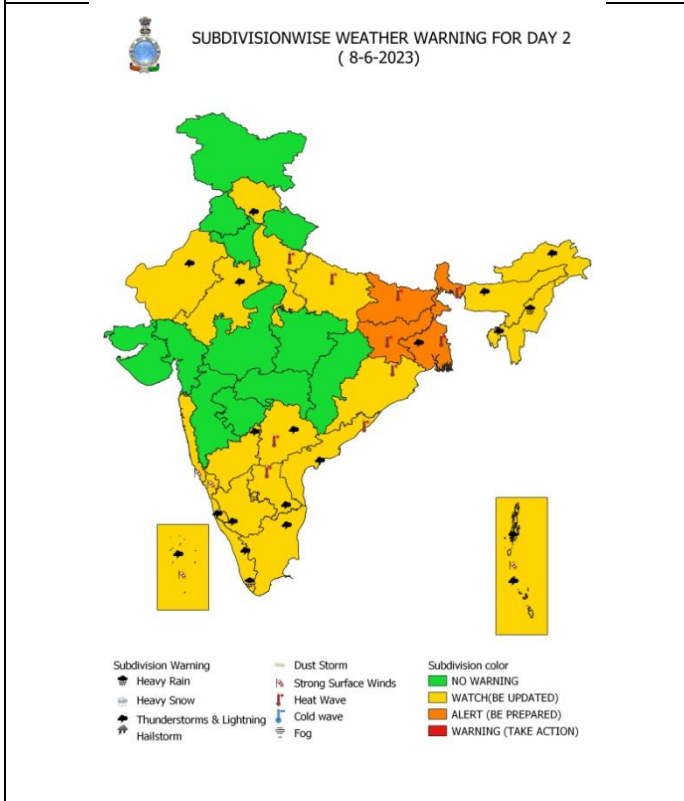
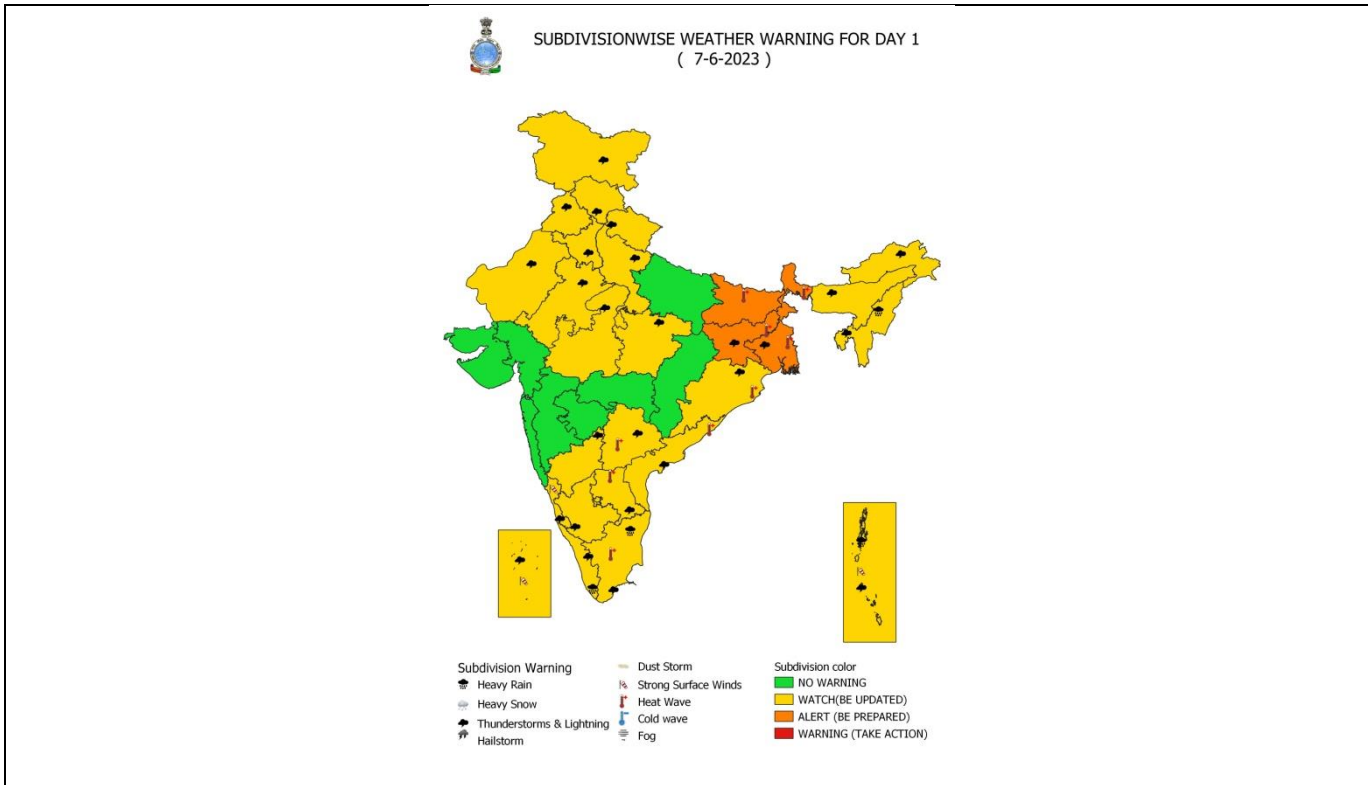
https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

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

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

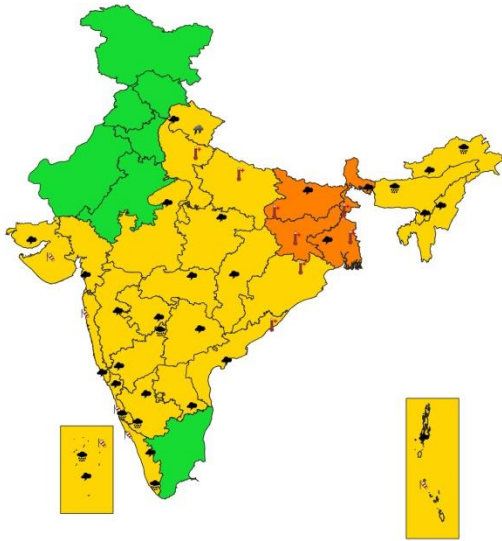
- **Rainfall/thundershowers** observed at most places over Andaman & Nicobar Islands and Lakshadweep; at many places over Kerala & Mahe; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, West Rajasthan and Nagaland, Manipur, Mizoram & Tripura.
- **Heavy rainfall observed** at isolated places over Kerala and Andaman & Nicobar Islands.
- **Significant rainfall recorded (in cm): Andaman & Nicobar Islands:** Port Blair-7, Maya Bandar-4; **Kerala:** Idukki 10, Enadimangalam AWS (Pathanamthitta district) 5, Peerumedu (Idukki district) 4, **Tamil Nadu:** Jamunamarathur (dist Tiruvannamalai) 5, **Odisha:** Kantapada (dist Cuttack) 5, Balipatna (dist Khurda) 4, **Nagaland, Manipur, Mizoram & Tripura:** Tuensang (dist Tuensang) 4, Saiha (dist Saiha) 4, Lawngtlai (dist Lawngtlai) 4.
- **Hailstorm observed** at isolated places over Himachal Pradesh, Uttarakhand and West Madhya Pradesh.







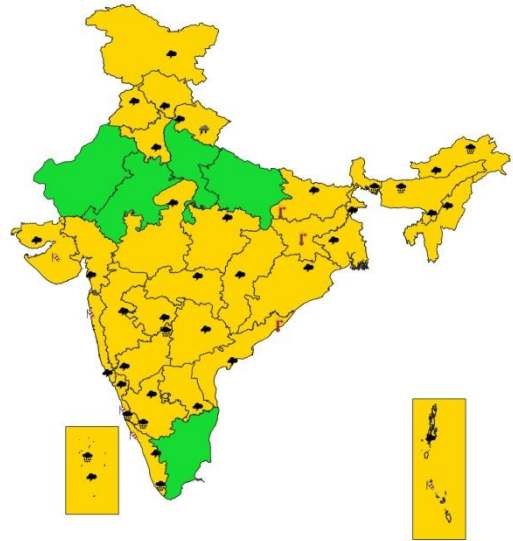
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(10-6-2023)**



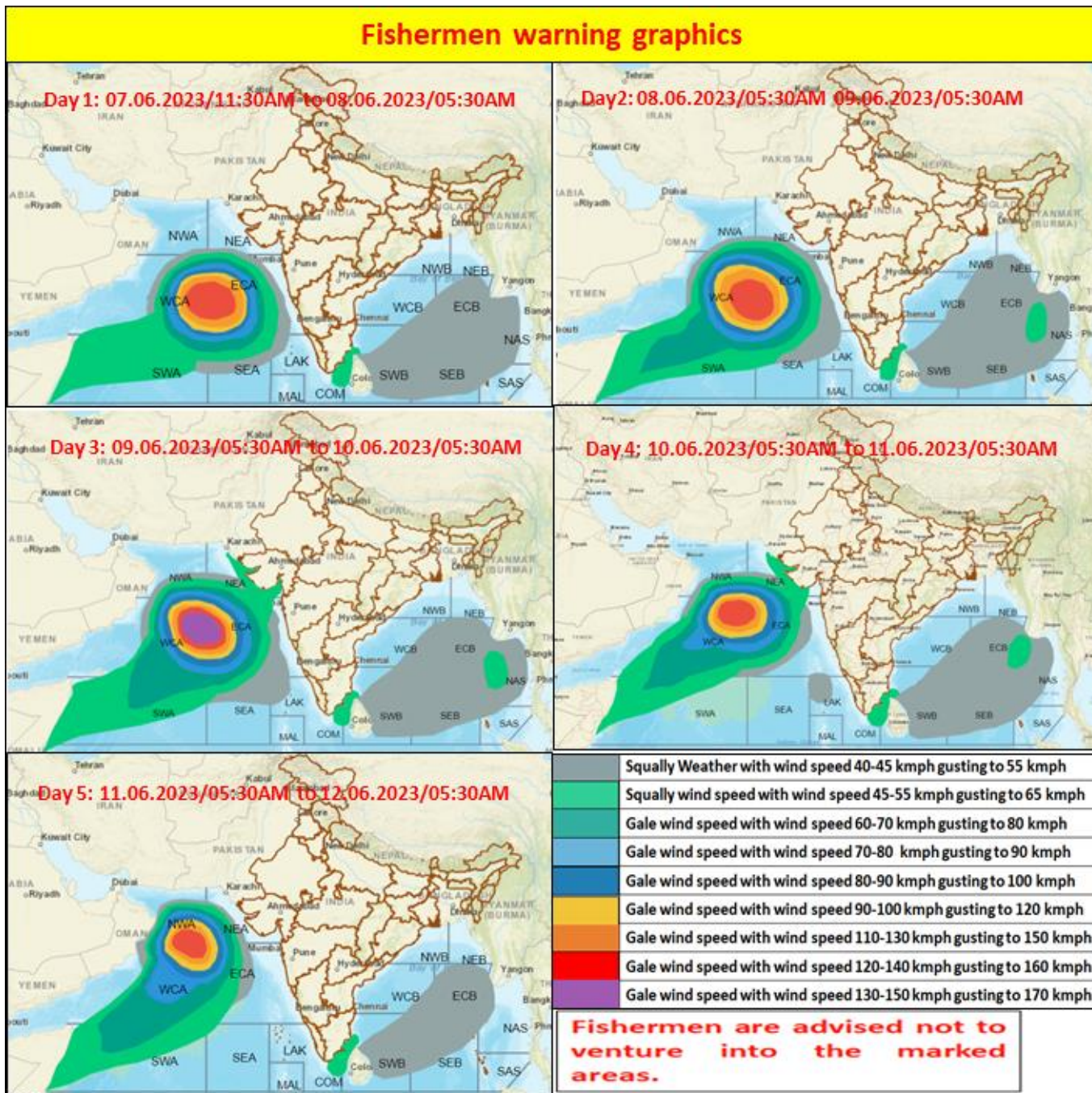
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|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH(BE UPDATED) |
| Thunderstorms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



**SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 5
(11-6-2023)**

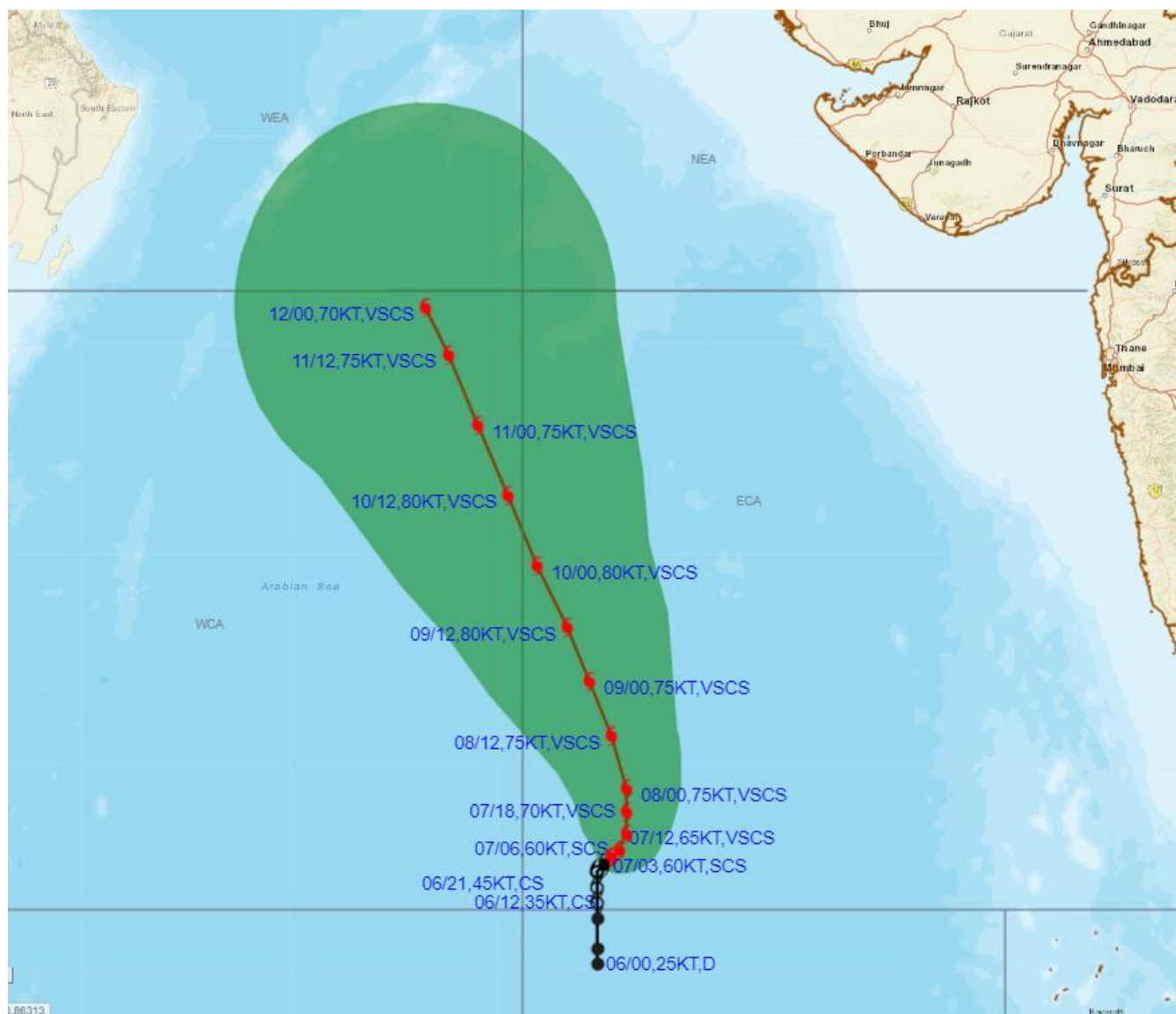


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|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH(BE UPDATED) |
| Thunderstorms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





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 07TH JUNE 2023.

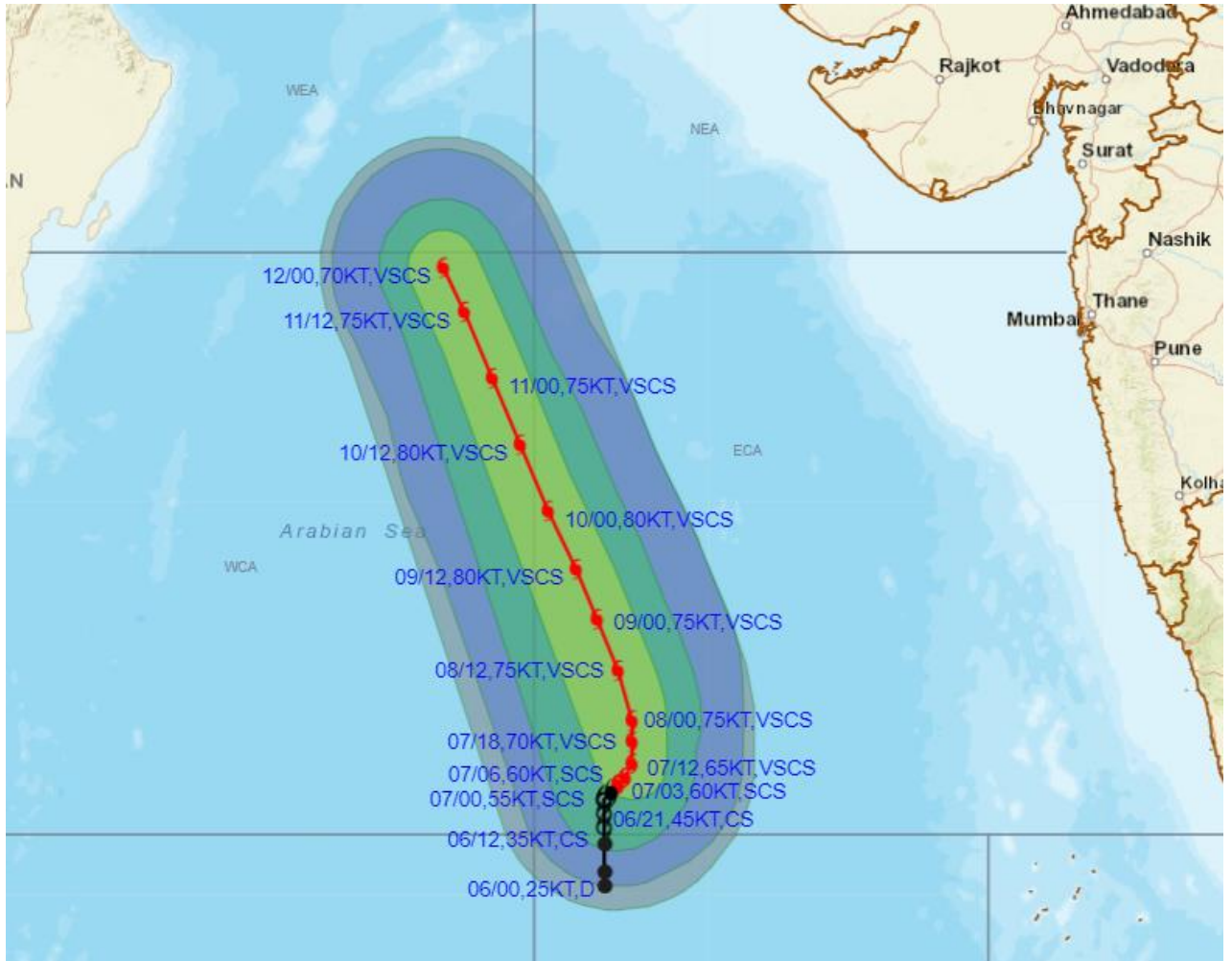


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (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 SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 07TH 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)
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● 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