



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

**Press Release  
Date: 13<sup>th</sup> June, 2023  
Time of Issue: 1330 hours IST**

**Subject: i) The Very severe cyclonic storm “Biparjoy” is very likely to cross between Mandvi (Gujarat) and Karachi (Pakistan) near Jakhau Port (Gujarat) around evening of 15th June with maximum sustained wind speed of 125-135 kmph gusting to 150 kmph.  
ii) Heat wave conditions likely over Uttar Pradesh, East and north Peninsular India during next 4-5 days.  
iii) Widespread rainfall with isolated heavy to very heavy falls over northeast India during next 5 days.**

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

**Advance of Southwest Monsoon (Annexure II)**

- ❖ The Northern Limit of Monsoon (NLM) continues to pass through lat. 16.5°N/ Long. 55°E, lat. 17.0°N/ Long. 60°E, lat. 17°N/ Long. 65°E, lat. 17°N/ Long. 70°E, Ratnagiri, Koppal, Puttaparthi, Shriharikota, lat. 15.0°N/ Long. 83.0°E, 18.0°N/87.0°E, 22°N/89.0°E, Malda and Forbesganj, 28°N/86°E.

**Very Severe Cyclonic Storm “Biparjoy” (pronounced as “Biporjoy”) over Northeast and adjoining Eastcentral Arabian Sea**

The Very Severe Cyclonic Storm “Biparjoy” (pronounced as “Biporjoy”) over Northeast and adjoining Eastcentral Arabian Sea moved nearly north-northwestwards with a speed of 12 kmph during past 6-hours and lay centered at 0830 hours IST of today, the 13<sup>th</sup> June, 2023 over the same region near latitude 20.9°N and longitude 66.9°E, about 280 km southwest of Devbhumi Dwarka, 300 km west-southwest of Porbandar, 310 km southwest of Jakhau Port, 330 km southwest of Naliya and 450 km south of Karachi (Pakistan).

It is very likely to move nearly northwards till 13<sup>th</sup> midnight, then move north-northeastwards and cross Saurashtra & Kutch and adjoining Pakistan coasts between Mandvi (Gujarat) and Karachi (Pakistan) near Jakhau Port (Gujarat) around evening of 15<sup>th</sup> June as a very severe cyclonic storm with maximum sustained wind speed of 125-135 kmph gusting to 150 kmph.

**Heavy Rainfall warning:**

- ❖ Light to moderate rainfall at many places in Kutch, Devbhumi Dwarka, Porbandar, Jamnagar, Junagarh and Rajkot districts of Saurashtra & Kutch with isolated heavy to very heavy rainfall on 13th June.
- ❖ Light to moderate rainfall at most places with heavy to very heavy rainfall and extremely heavy falls at isolated places very likely over Kutch, Devbhumi Dwarka, Porbandar, Jamnagar, Rajkot, Junagarh and Morbi districts of Saurashtra & Kutch on 14th June.

- ❖ The intensity of rainfall would increase with heavy to very heavy rainfall at a few places and extremely heavy falls at isolated places very likely over Kutch, Devbhumi Dwarka & Jamnagar and heavy to very heavy rainfall at a few places over Porbandar, Rajkot, Morbi & Junagarh districts of Gujarat and Isolated heavy to very heavy rainfall is very likely over remaining districts of Saurashtra and north Gujarat region on 15th June.
- ❖ Light to moderate rainfall at most places with heavy to extremely heavy rainfall at isolated places very likely over north Gujarat and adjoining south Rajasthan on 16th June.

**Damage expected over Kutch, Devbhumi Dwarka, Porbandar, Jamnagar, Morbi & Junagarh & Rajkot districts of Gujarat on 15<sup>th</sup> June:**

- Total destruction of thatched houses/ extensive damage to kutcha houses. Some damage to Pucca houses.
- Potential threat from flying objects.
- Bending/ uprooting of power and communication poles.
- Major damage to Kutcha and Pucca roads. Flooding of escape routes. Disruption of railways, overhead power lines and signalling systems.
- Widespread damage to standing crops, plantations, orchards, falling of green coconuts and tearing of palm fronds. Blowing down of bushy trees like mango.
- Small boats, country crafts may get detached from moorings.
- Visibility severely affected due to salt spray.

**Fishermen Warning & Action Suggested (Kutch, Devbhumi Dwarka, Porbandar, Jamnagar, Rajkot, Junagarh and Morbi districts of Gujarat) and for Offshore & Onshore Industries (Graphics Attached):**

- Total suspension of fishing operations over
  - Eastcentral and adjoining Westcentral Arabian Sea till 15<sup>th</sup> June.
  - Northeast Arabian Sea during 13<sup>th</sup> -15<sup>th</sup> June
- Those out at sea are advised to return to coast.
- Judicious regulation of offshore and onshore activities.
- Ports along the west coast of India may take necessary precautions.
- Naval base operations may maintain necessary precautions.
- Movement in motor boats and small ships all & off these coasts to be avoided.
- Mobilise evacuation from coastal areas of Saurashtra and Kutch (Kutch, Devbhumi Dwarka, Porbandar, Jamnagar, Rajkot, Junagarh and Morbi districts).
- Judicious regulation of rail and road traffic.
- People in affected areas to remain indoors.
- Tourism activities may be restricted over these areas.
- Preparatory actions before the cyclones.

**Weather forecast and warning over the country during next 5 days:**

**Northeast India:**

- ❖ Widespread light/moderate rainfall at most places with isolated **Heavy to Very Heavy falls** very likely over the region during next 5 days. Isolated **extremely heavy rainfall** also likely over Meghalaya during 15<sup>th</sup>-17<sup>th</sup> June.

### East India:

- ❖ Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 5 days.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim during next 5 days. **Heavy rainfall** also very likely at isolated places over Andaman & Nicobar Islands on 17<sup>th</sup> June.

### Northwest India:

- ❖ Light/moderate isolated to scattered rainfall with **hailstorm**, thunderstorm & lightning very likely in isolated places over Himachal Pradesh on 14<sup>th</sup> & 15<sup>th</sup> June and over Uttarakhand on 14<sup>th</sup> & 15<sup>th</sup> June. **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over southwest Rajasthan on 16<sup>th</sup> & 17<sup>th</sup> June and over southeast Rajasthan on 17<sup>th</sup> June.

### South India:

- ❖ Light/moderate scattered to fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over the region during next 5 days. **Heavy rainfall** very likely at isolated places over Kerala on 13<sup>th</sup> June next 2 days.

**No significant weather 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 42-44°C over parts of East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh and Odisha.
- ❖ Yesterday, **Heat Wave to Severe Heat Wave conditions** prevailed over some parts of Chhattisgarh, Odisha; in isolated pockets of Bihar and Gangetic West Bengal. **Heat Wave conditions** also observed over some parts of Coastal Andhra Pradesh & Yanam and in isolated pockets over Telangana, Madhya Pradesh, Jharkhand and south Uttar Pradesh.
- ❖ No significant change in maximum temperatures very likely over most parts of the country during next 5 days except over Gujarat state, where temperatures are likely to fall by 5-6°C during next 5 days and by 2-3°C over Rajasthan on 16<sup>th</sup> & 17<sup>th</sup> June.
- ❖ **Heat Wave conditions** very likely to continue in isolated pockets over Odisha, Gangetic West Bengal, Bihar, Jharkhand, Chhattisgarh, Coastal Andhra Pradesh & Yanam during next 5 days; south Uttar Pradesh, Vidarbha during next 3 days; Madhya Pradesh, Telangana during next 2 days.
- ❖ Hot and humid conditions very likely over Tamil Nadu and Rayalaseema during next 2 days.

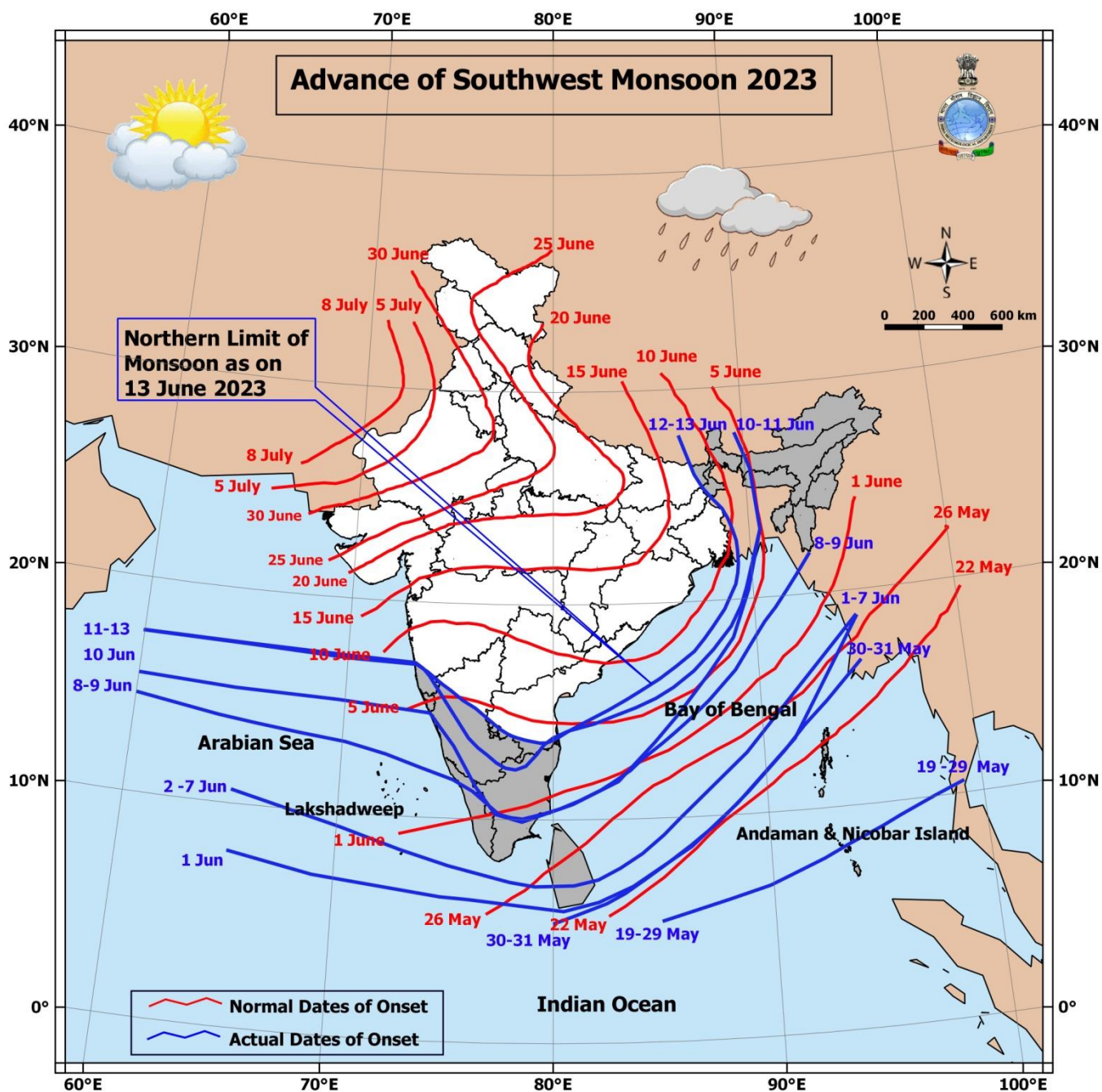
For more details kindly refer:

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

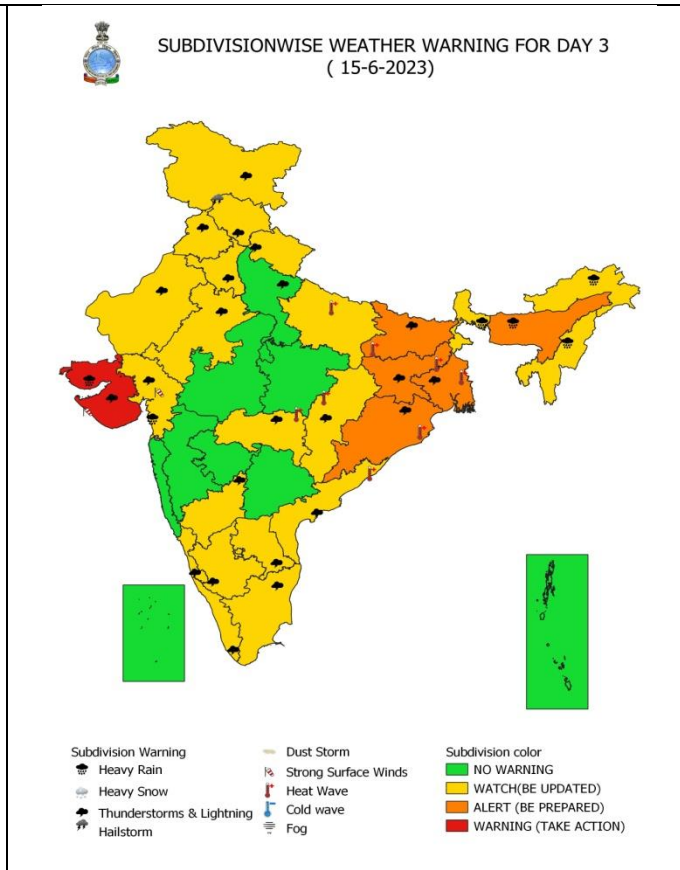
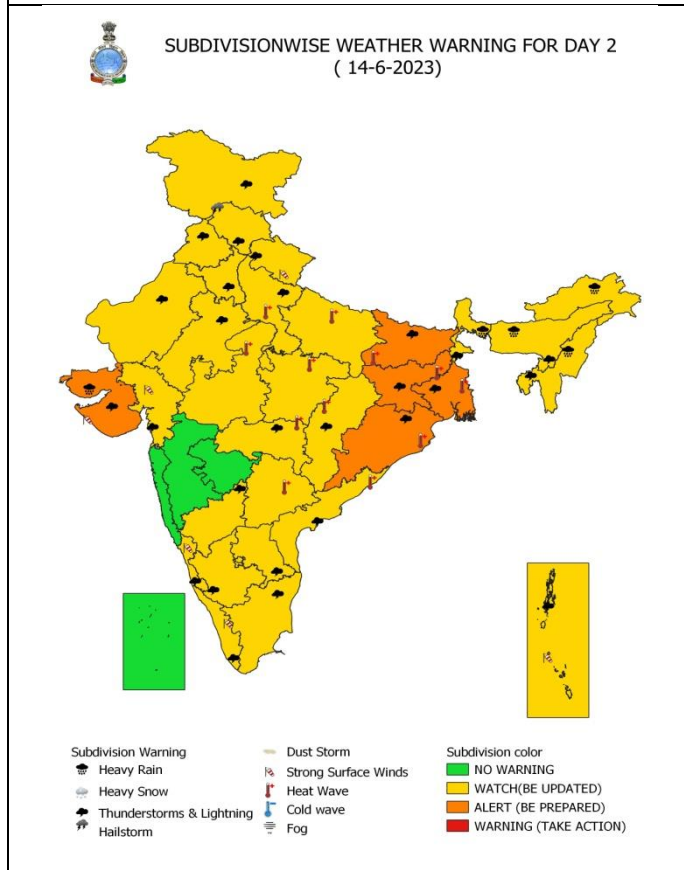
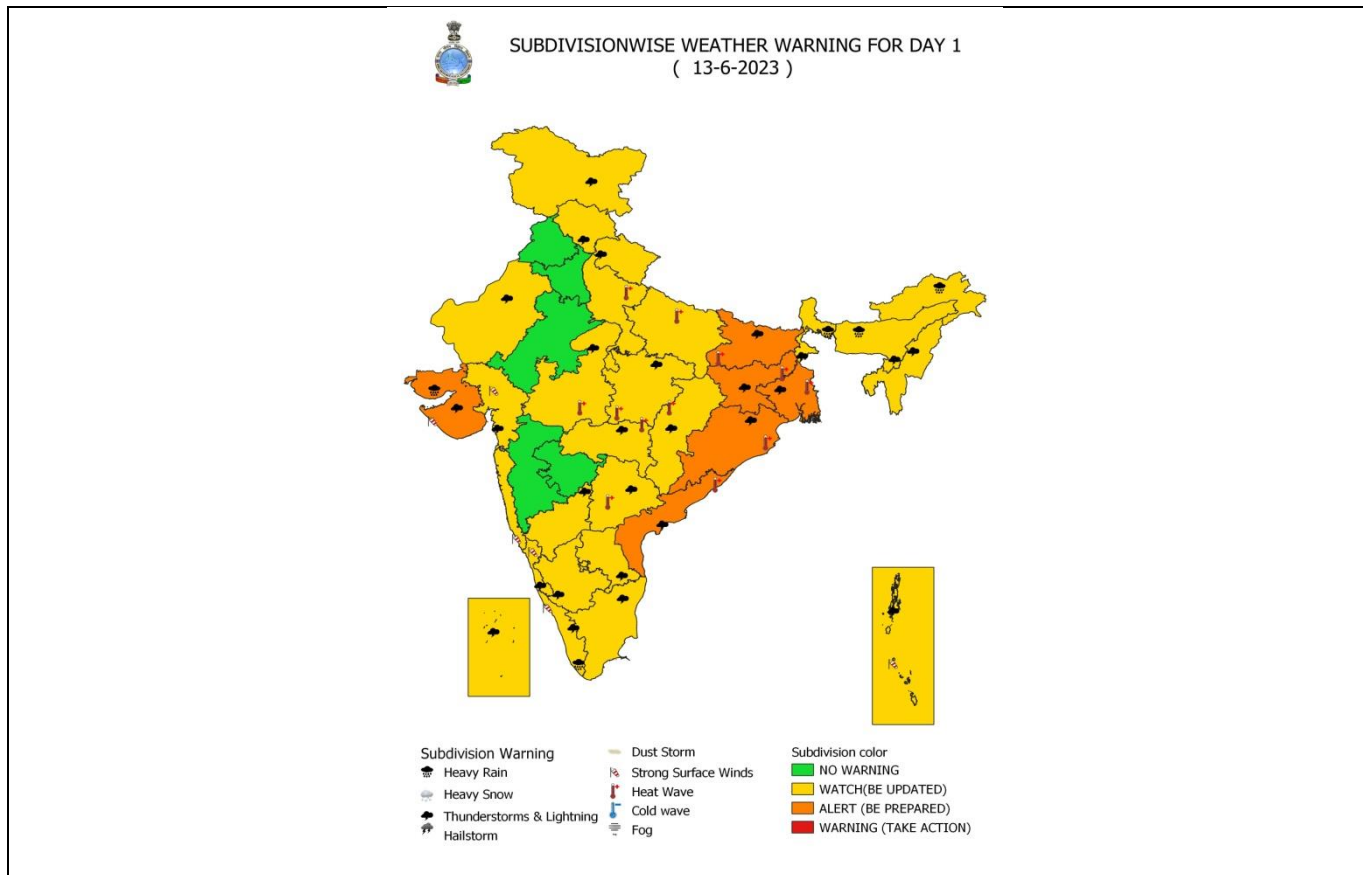
<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

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

- ❖ **Rainfall/thundershowers observed:** at most places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Lakshadweep, Coastal Karnataka, Kerala & Mahe; at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch; at a few places over Uttarakhand, Gangetic West Bengal, Odisha, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka.
- ❖ **Heavy rainfall observed:** Extremely Heavy rainfall at isolated places over Saurashtra & Kutch; Heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Kerala & Mahe, South Interior Karnataka.
- ❖ **Significant rainfall recorded (in cm): Saurashtra & Kutch:** Sutrapada (dist Gir Somnath) 21, Veraval (dist Gir Somnath) 20, Keshod (dist Junagadh) 20, Mendarda (dist Junagadh) 19, Malia (dist Junagadh) 18, Mangrol(j) (dist Junagadh) 14, Talala (dist Gir Somnath) 13, Vanthali (dist Junagadh) 12, Manavadar (dist Junagadh) 11, Junagarh\_aws (dist Junagadh) 10, **Arunachal Pradesh:** Tuting (dist Upper Siang) 7, Bhalukpong (dist West Kameng) 4, **Assam & Meghalaya:** Karimganj (dist Karimganj) 9, Lakhipur (dist Cachar) 8, Nongpuh (dist Ri Bhoi) 8, Silchar (dist Cachar) 7, Chauldhowaghat (dist Lakhimpur) 7, A P Ghat (dist Cachar) 7 Manipur: Jiribam\_ Aws (dist Imphal East) 5, Tuli Nsdma\_aws (dist Mokokchung) 5, **Kerala:** Pirappancode AWS (Thiruvananthapuram district) 7; **South Interior Karnataka:** Bengaluru Hal Ap Obsy (dist Bengaluru Urban) 8, **Tamilnadu:** Avalanche (dist Nilgiris), Taluk Office Pandalur (dist Nilgiris), Adayamadai (dist Kanyakumari) 6 each, Ketti (dist Nilgiris), Chinnakalar (dist Coimbatore), Cincona (dist Coimbatore), Sirkali (dist Mayiladuthurai) 5 each, Bihar: Forbesganj, Raniganj-6 each; Odisha: Balimundali (dist Mayurbhanj) 6, Puri (dist Puri) 5, **Andaman & Nicobar Islands:** Long Islands, Hut Bay-5 each.
- ❖ **Thundersquall** observed at isolated places over Gangetic West Bengal (Kolkata).

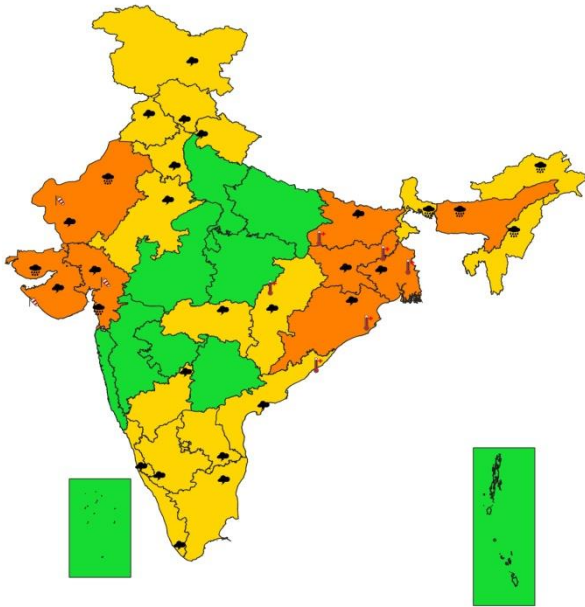








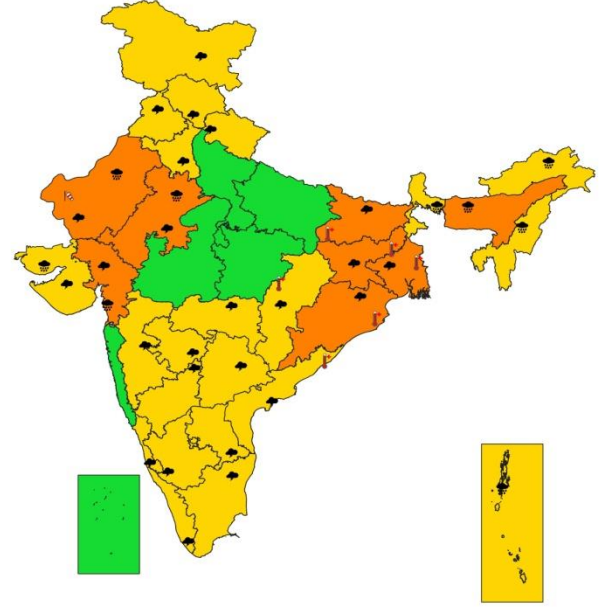
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
( 16-6-2023)**



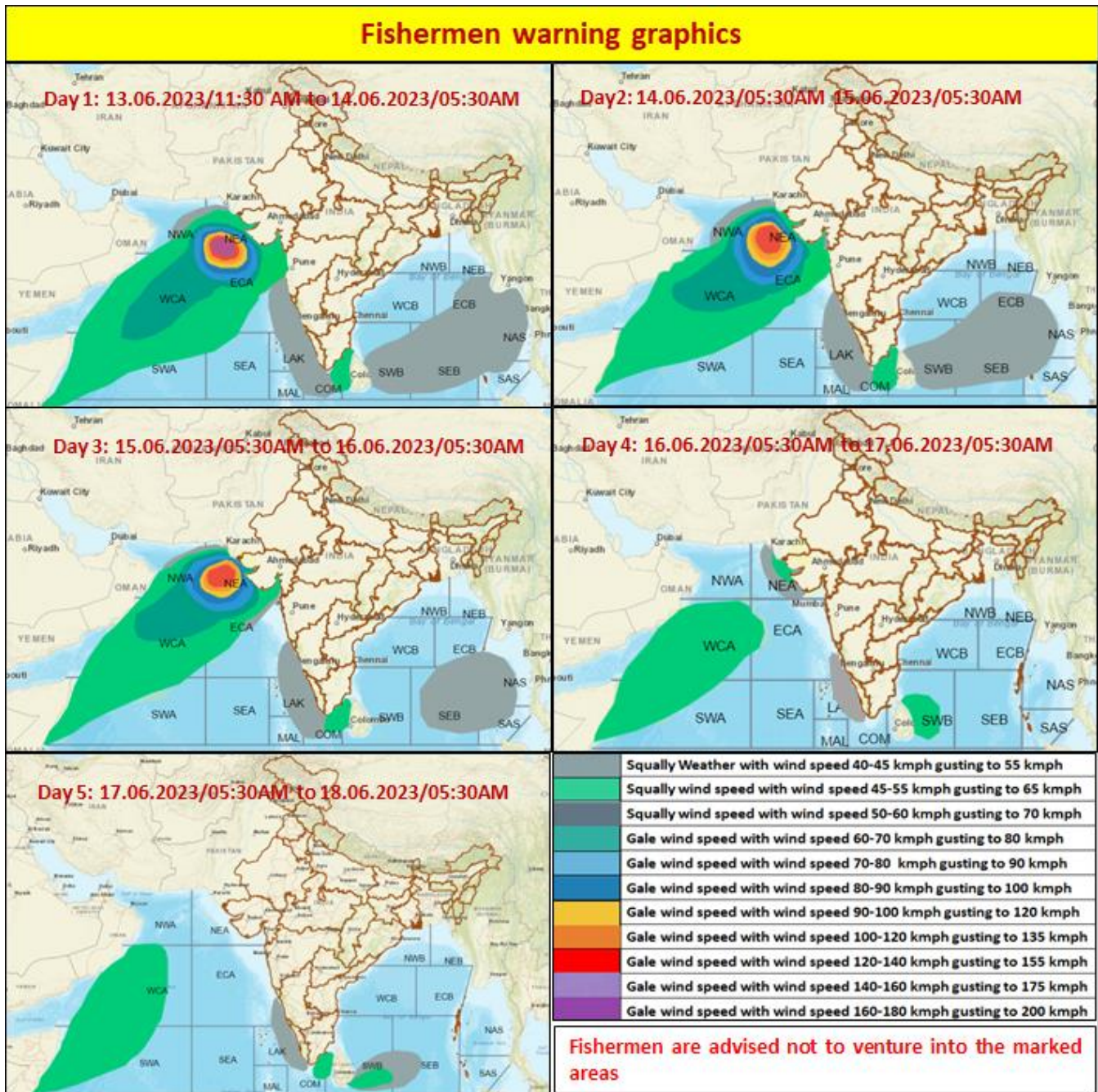
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|----------------------------|----------------------|--------------------------|
| <b>Subdivision Warning</b> | Dust Storm           | <b>Subdivision color</b> |
| Heavy Rain                 | Strong Surface Winds | NO WARNING               |
| Heavy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



**SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 5  
( 17-6-2023)**

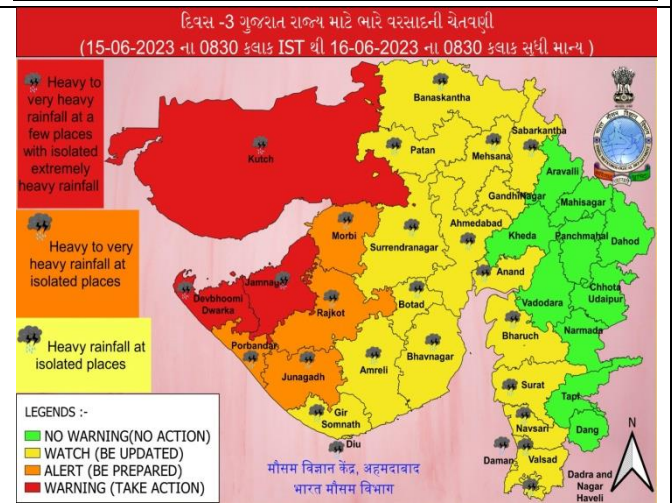
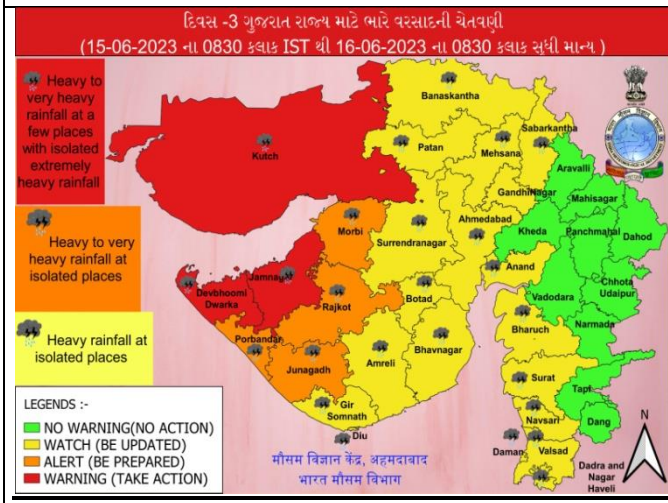


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|----------------------------|----------------------|--------------------------|
| <b>Subdivision Warning</b> | Dust Storm           | <b>Subdivision color</b> |
| Heavy Rain                 | Strong Surface Winds | NO WARNING               |
| Heavy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



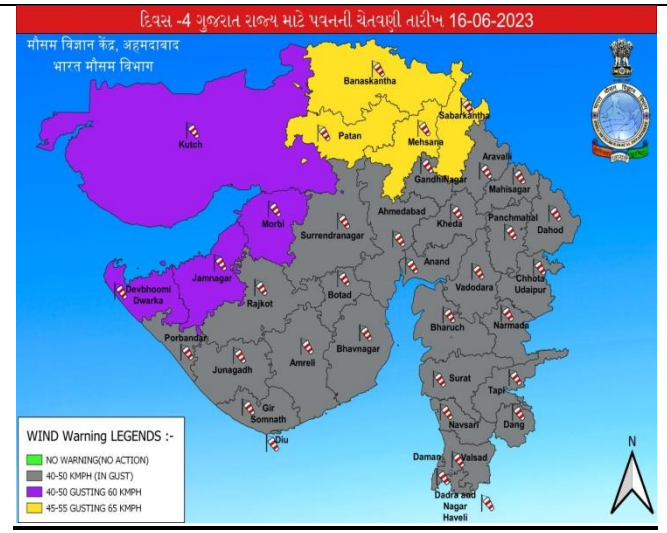
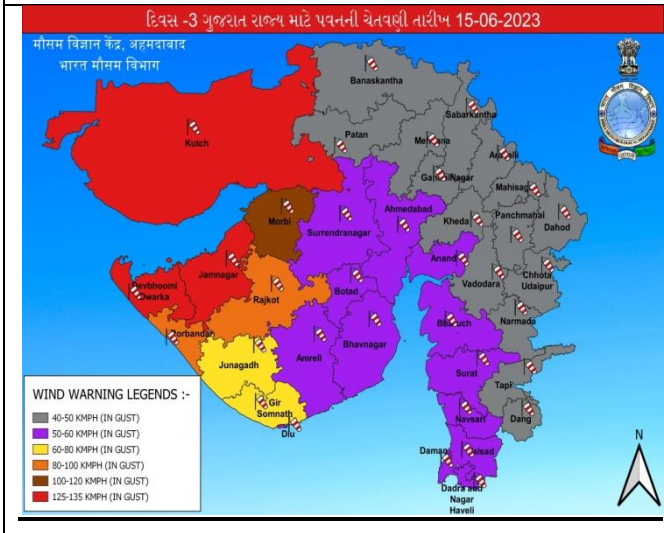
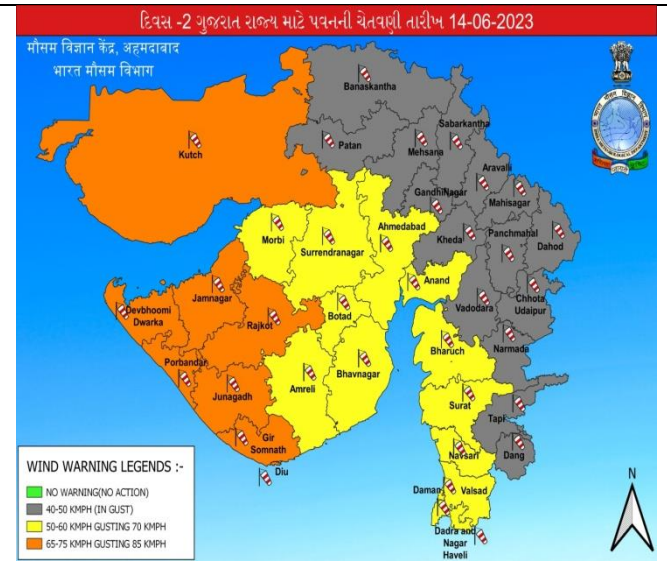
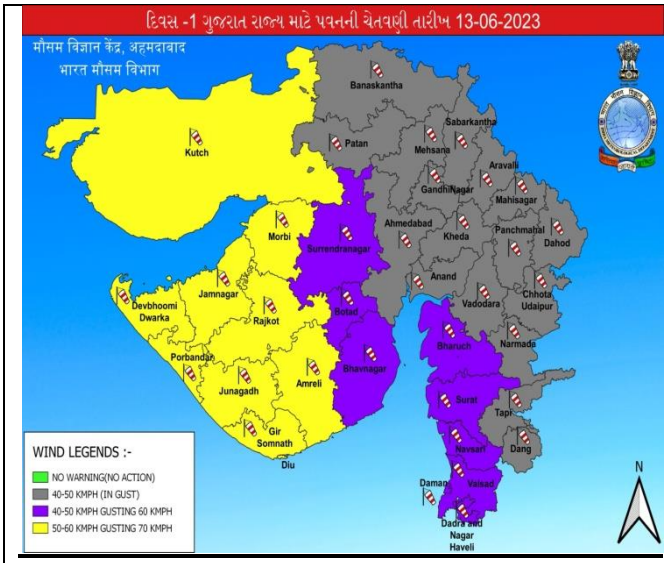


## District-wise Heavy Rainfall Warning Maps for 13<sup>th</sup> to 17<sup>th</sup> June





## District-wise Wind Warning Maps for 13<sup>th</sup> to 16<sup>th</sup> June



**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.

<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)

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)

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