



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

Press Release

Date: 14th June, 2023

Time of Issue: 1400 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) by evening of 15th June with maximum sustained wind speed of 125-135 kmph gusting to 150 kmph.
ii) Heat wave conditions likely to continue over East India during next 5 days.
iii) Widespread rainfall activity with isolated heavy to very heavy falls likely to continue 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.
- ❖ Conditions are becoming favourable for further advance of Southwest Monsoon over some more parts of south Peninsular & East India and adjoining areas during 18th -21st June.

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

The Very Severe Cyclonic Storm “Biparjoy” (pronounced as “Biporjoy”) over Northeast Arabian Sea moved slowly northwards with a speed of 3 kmph during past 6-hours and lay centered at 0830 hours IST of today, the 14th June, 2023 over the same region near latitude 21.9°N and longitude 66.3°E, about 280 km west-southwest of Jakhau Port (Gujarat), 290 km west-southwest of Devbhumi Dwarka, 300 km west-southwest of Naliya, 350 km west-northwest of Porbandar, and 340 km south-southwest of Karachi (Pakistan).

It is very likely to move nearly northeastwards and cross Saurashtra & Kutch and adjoining Pakistan coasts between Mandvi (Gujarat) and Karachi (Pakistan) near Jakhau Port (Gujarat) by evening of 15th 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 most places with heavy to extremely heavy rainfall at isolated places very likely over Devbhumi Dwarka and heavy to very heavy at isolated places over Kachchh, 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 Kachchh, 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 and southeast Rajasthan & adjoining North Gujarat region on 17th June.

Wind warning along & off Saurashtra & Kutch coasts (Kachchh, Devbhumi Dwarka, Porbandar, Jamnagar, Rajkot, Junagarh and Morbi districts) including Gulf of Kutch:

- Gale wind speed reaching 65-75 kmph gusting to 85 kmph will prevail along & off Porbandar & Devbhoomi Dwarka district coasts from forenoon of today, the 14th June.
- It would gradually increase becoming gale wind speed reaching 125-135 kmph gusting to 150 kmph during 15th forenoon to night along & off Kachchh, Devbhumi Dwarka, Porbandar, Jamnagar, Rajkot, Junagarh and Morbi districts. Thereafter, it would decrease gradually becoming 85-95 kmph gusting to 105 kmph over Kachchh and adjoining districts of Saurashtra & Kutch by 16th early morning and squally wind speed reaching 50-60 kmph gusting to 70 kmph by 16th afternoon.
- Squally wind speed reaching 55-65 kmph gusting to 75 kmph very likely to prevail along & off remaining districts of Saurashtra coast on 14th & 15th June.

Damage expected over Kachchh, Devbhumi Dwarka, Porbandar, Jamnagar, Morbi & Junagarh & Rajkot districts of Gujarat on 15th 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 (Kachchh, 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 15th June and over northeast Arabian Sea during 14th -15th 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 (Kachchh, 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 14th-16th June.

East India:

- ❖ Light/moderate fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands 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 14th June.

Northwest India:

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

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, Vidarbha, Chhattisgarh and Odisha.
- ❖ Yesterday, **Heat Wave to Severe Heat Wave conditions** prevailed over many parts of Coastal Andhra Pradesh & Yanam and in some parts of Telangana. **Heat Wave conditions** also observed over some parts of Jharkhand, Odisha & Vidarbha and in isolated pockets over Bihar, Gangetic West Bengal, East Madhya Pradesh and East 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 2-4°C over Northwest India (except Uttar Pradesh) on 16th to 18th June.
- ❖ **Heat Wave conditions** very likely to continue in isolated pockets over Odisha, Gangetic West Bengal, Bihar, Jharkhand, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam during next 4-5 days; southeast Uttar Pradesh, Madhya Pradesh, Telangana during next 2 days.
- ❖ **Warm night** likely to prevail over East Uttar Pradesh, East Madhya Pradesh, Odisha and Chhattisgarh on 14th & 15th June.
- ❖ Hot and humid conditions very likely over Tamil Nadu and Rayalaseema during next 3 days.

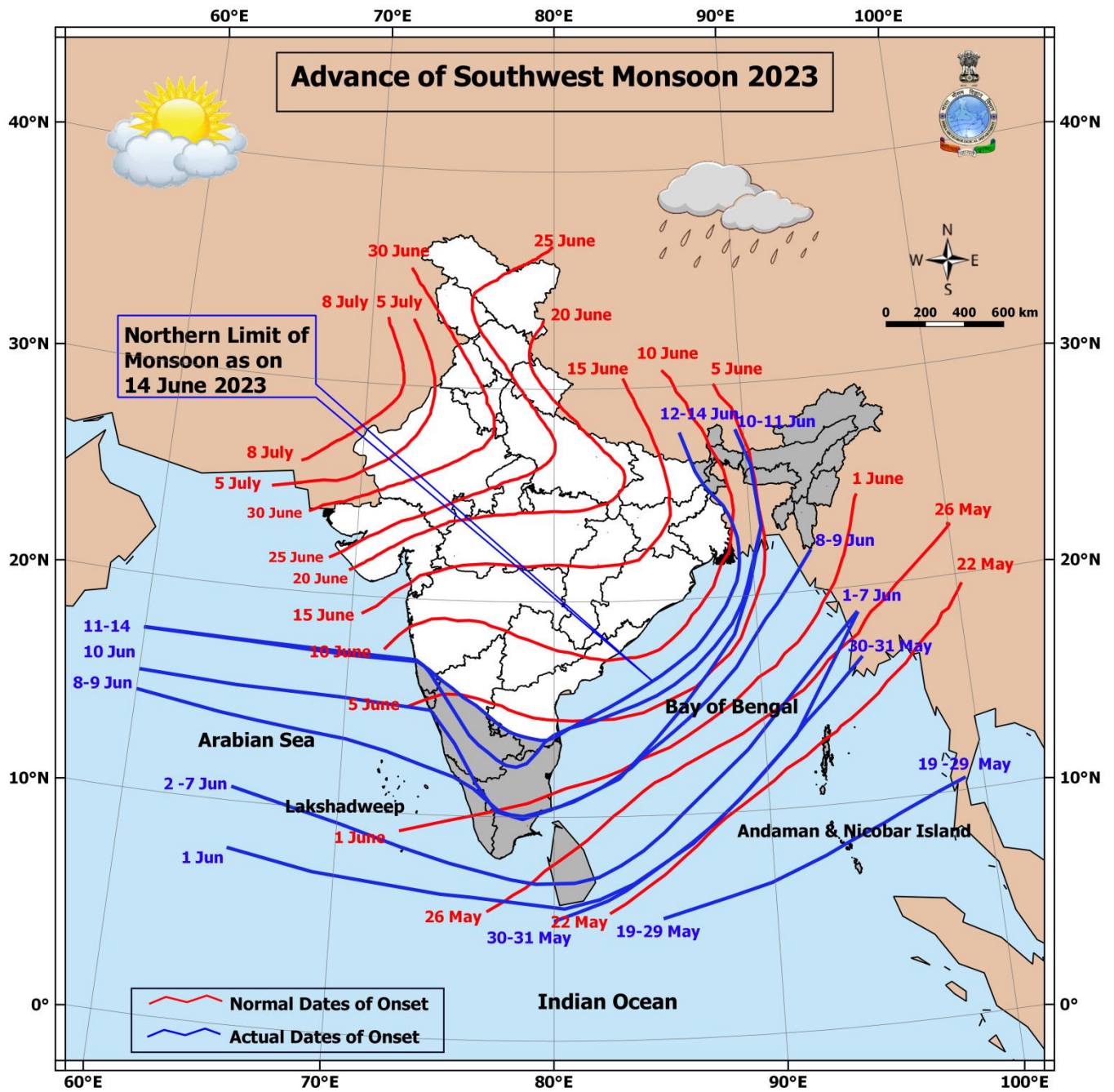
For more details kindly refer:

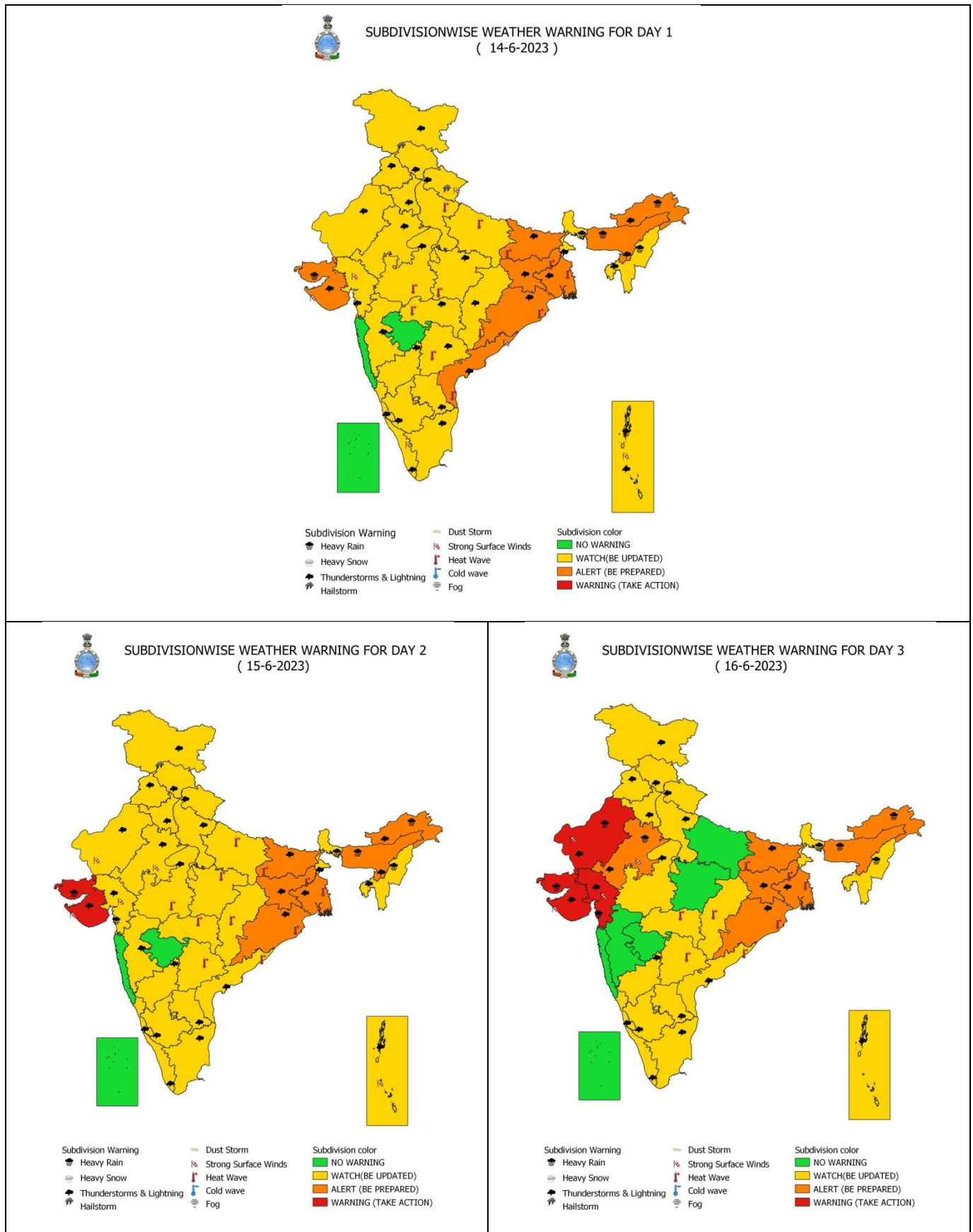
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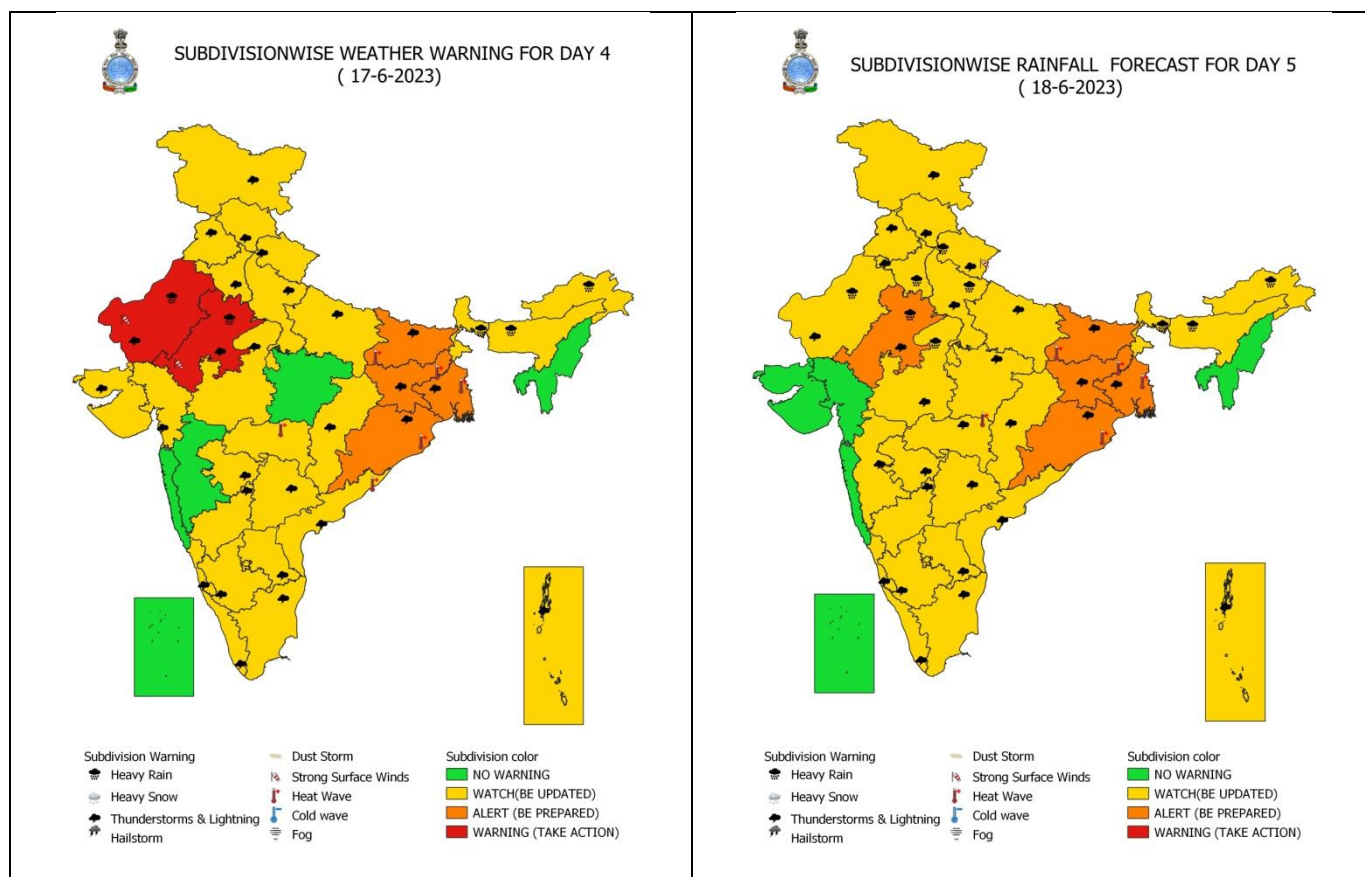
<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

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 Meghalaya; Very Heavy rainfall at isolated places over Saurashtra & Kutch, Arunachal Pradesh; Heavy rainfall at isolated places over Assam.
- ❖ **Significant rainfall recorded (in cm): Saurashtra & Kutch:** Khambhalia (dist Devbhoomi Dwarka) 12, Okha (dist Devbhoomi Dwarka) 11, Kalyanpur (dist Devbhoomi Dwarka) 7, Dwarka (dist Devbhoomi Dwarka) 7, Upleta (dist Rajkot) 7, Jamjodhpur (dist Jamnagar) 7, **Arunachal Pradesh:** Itanagar (dist Papumpara) 11, Tuting (dist Upper Siang) 10, **Assam & Meghalaya:** Mawsynram (dist East Khasi Hills) 31, Mawkyrwat_arg (dist South West Khasi Hills) 24, Khliehriat (dist East Jaintia Hills) 22, Mawkyrwat (dist South West Khasi Hills) 21, Cherrapunji (dist East Khasi Hills) 20, **Tamilnadu:** Vazhapadi (dist Salem) 6, Vadapudupattu (dist Tirupattur), Rasipuram (dist Namakkal), Thaluthalai (dist Perambalur), Erumapatti (dist Namakkal) 5 each, **Konkan & Goa:** Roha (dist Raigad) 5, Mhasla (dist Raigad) 5, **Punjab:** Hoshiarpur-5, **Jammu:** Katra (dist Reasi) 4, Reasi Kvk Aws (dist Reasi) 4, Gund (dist Ganderbal) 4, **Himachal Pradesh:** Mandi-5, hamirpur-4; **Uttarakhand:** Rudraprayag-4, Chamoli-3; **Odisha:** G B Nagar (dist Mayurbhanj) 5.
- ❖ **Thundersquall** observed at isolated places over Gangetic West Bengal.





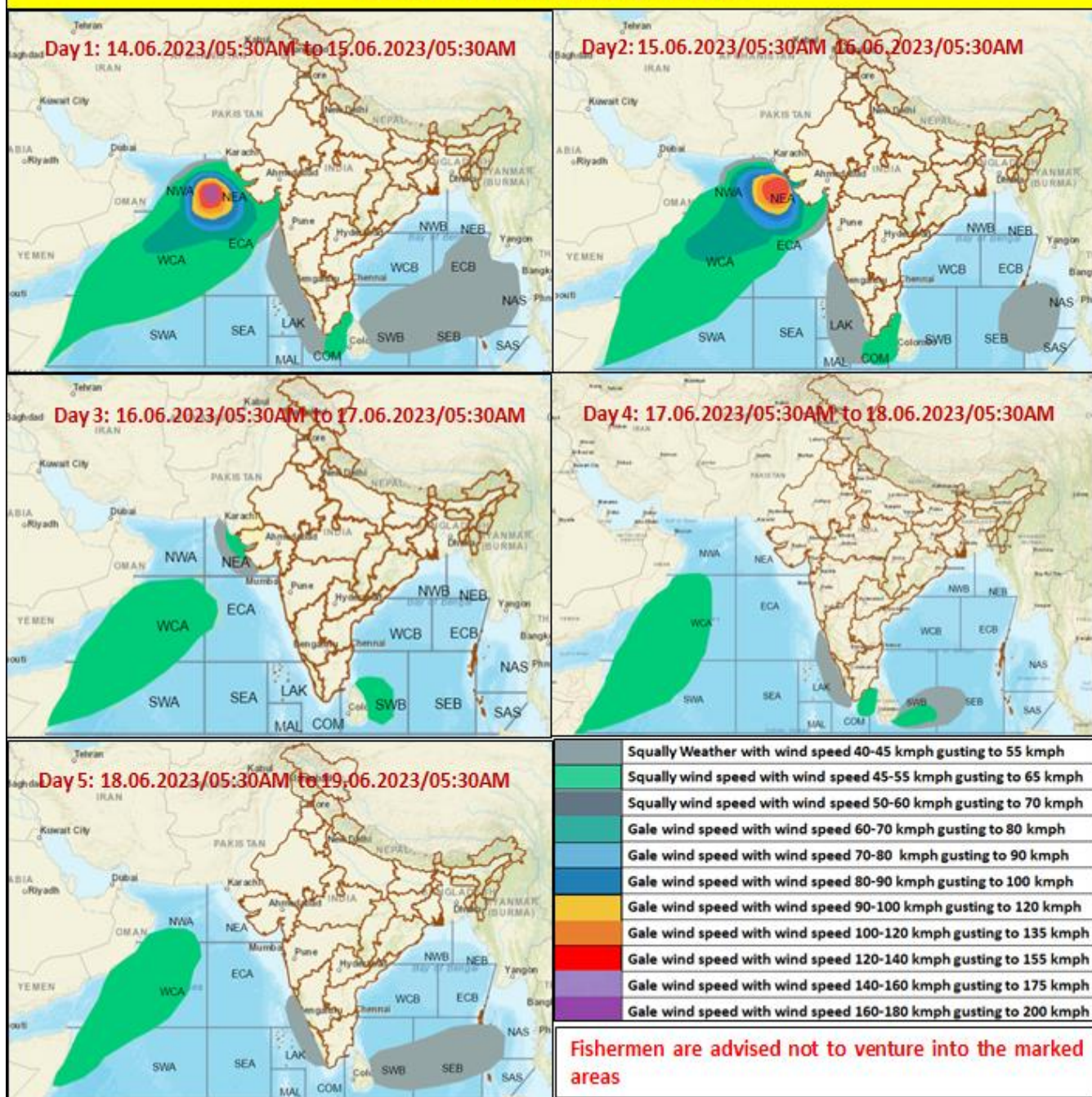


Agromet advisories for Gujarat and Rajasthan in view of Cyclonic storm “Biparjoy”

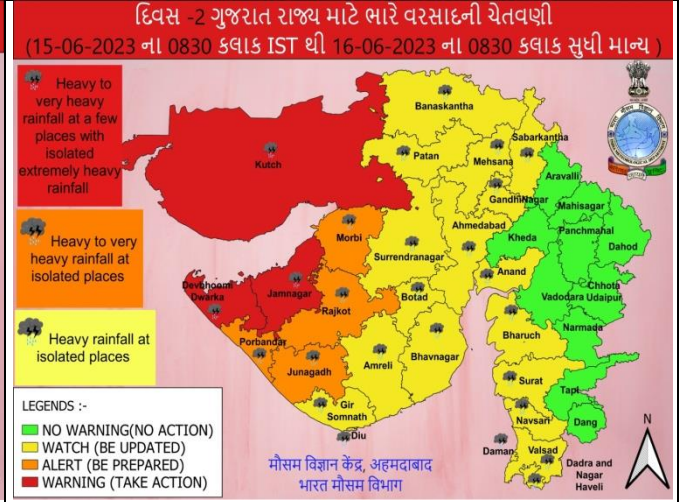
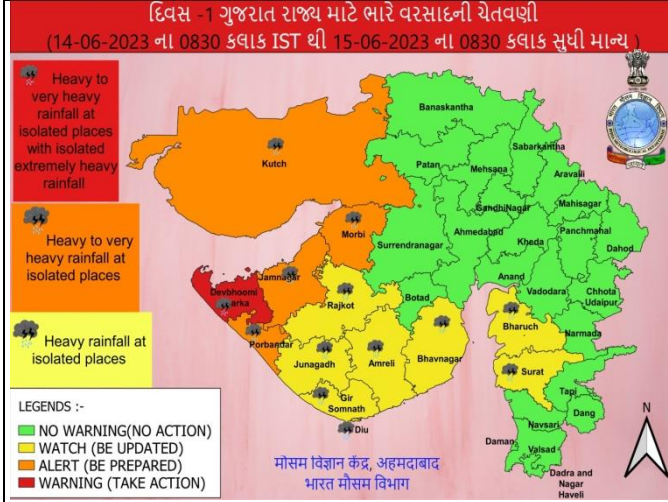
(Based on the IBF and advisories issued by different AMFUs and DAMUs)

- Harvest matured vegetables and fruits such as mango, banana immediately and store them in safer places.
- Shift to safer places the harvested produce of crops like castor, groundnut, pearl millet and green gram in Gujarat and summer pearl millet in Rajasthan.
- Make arrangements for adequate drainage to avoid water logging in crop fields.
- Postpone sowing of cotton, groundnut and pigeon pea in Gujarat and cotton and groundnut in Rajasthan.
- Provide mechanical support to young fruit plants and staking in vegetables to avoid lodging.
- Keep the livestock indoors during the rainfall period.
- Provide a net around the fish pond to avoid escape of fish / spawn.

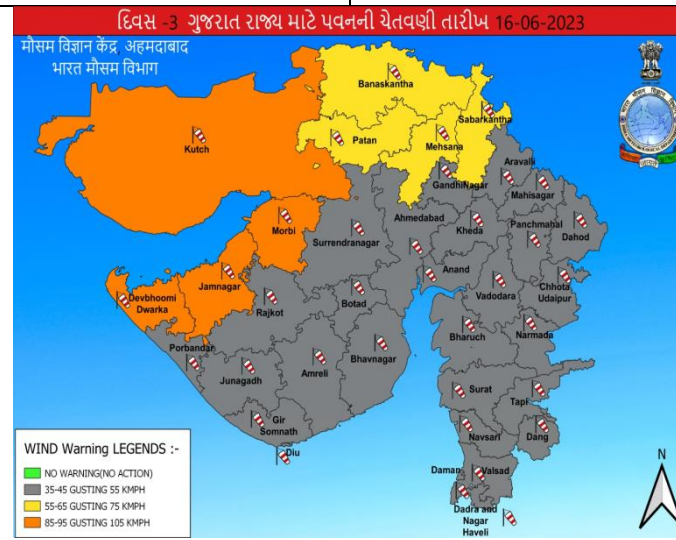
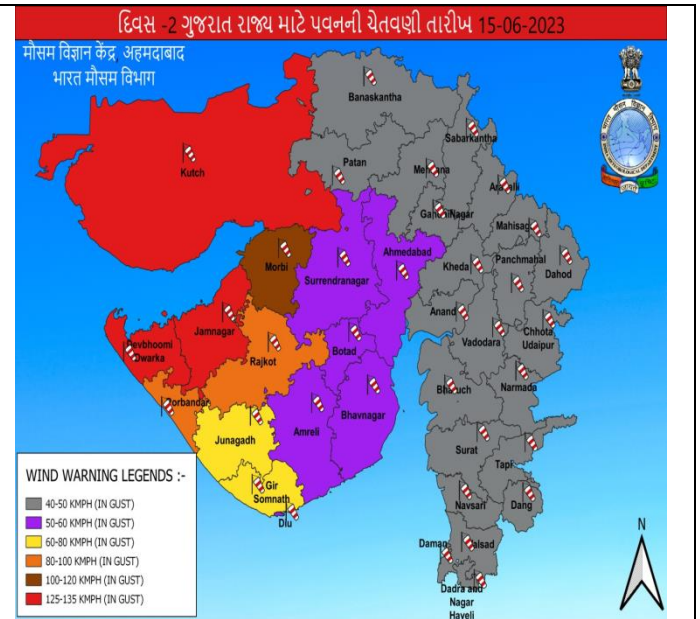
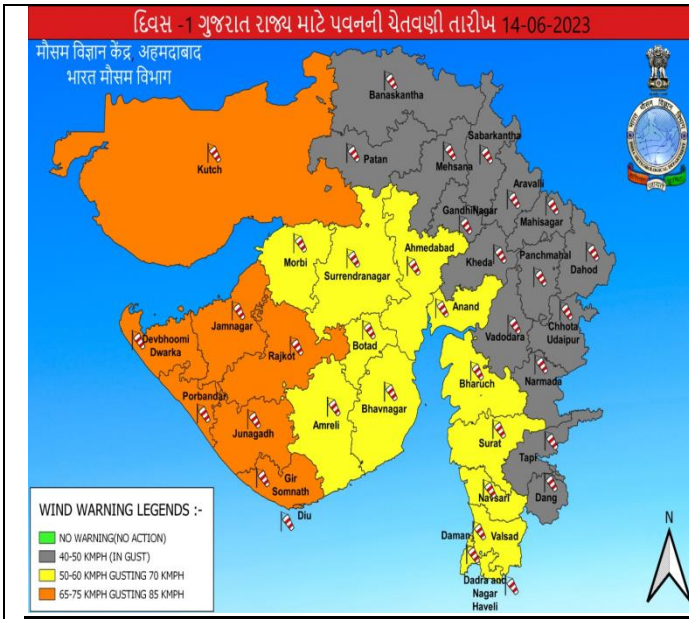
Fishermen warning graphics



District-wise Heavy Rainfall Warning Maps for 14th to 17th June



District-wise Wind Warning Maps for 14th to 16th 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.

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