



India Meteorological Department

(Ministry of Earth Sciences)

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Extremely Severe Cyclonic Storm “Biparjoy” (pronounced as “Biporjoy”) over eastcentral and adjoining northeast Arabian Sea: Cyclone Warning for Saurashtra & Kutch Coasts (Orange Message)

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The extremely severe cyclonic storm “Biparjoy” (pronounced as “Biporjoy”) over eastcentral and adjoining northeast Arabian Sea moved nearly northwards with a speed of 08 kmph during past 6-hours and lay centered at 1130 hours IST of today, the 12th June, 2023 over the same region near latitude 19.6°N and longitude 67.6°E, about 310 km southwest of Porbandar, 340 km south-southwest of Devbhumi Dwarka, 430 km south-southwest of Jakhau Port, 430 km south-southwest of Naliya and 590 km south of Karachi (Pakistan).

It is very likely to move nearly northwards till 14th morning, then move north-northeastwards and cross Saurashtra & Kutch and adjoining Pakistan coasts between Mandvi (Gujarat) and Karachi (Pakistan) near Jakhau Port (Gujarat) by noon of 15th June as a very severe cyclonic storm with maximum sustained wind speed of 125-135 kmph gusting to 150 kmph.

Warnings

(i) Rainfall warning

- Light to moderate rainfall at most places with heavy to very heavy rainfall 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 on 15th June.
- Isolated 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 very heavy rainfall at isolated places very likely over north Gujarat and adjoining south Rajasthan on 16th June.

(ii) Wind warning

- **12th June:** Gale wind speed reaching 165-175 kmph gusting to 195 kmph is likely to prevail over northeast and adjoining eastcentral Arabian Sea becoming 145-155 kmph gusting to 175 kmph from night. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over adjoining areas of westcentral Arabian Sea.
- **13th June:** Gale wind speed reaching 145-155 kmph gusting to 175 kmph is likely to prevail over northeast Arabian Sea. Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely to prevail over adjoining areas of eastcentral Arabian Sea. Squally wind

speed reaching 40-50 kmph gusting to 60 kmph is likely over adjoining areas of northwest Arabian Sea.

- **14th June:** Gale wind speed reaching 130-140 kmph gusting to 155 kmph is likely to prevail over northeast Arabian Sea. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over adjoining areas of eastcentral Arabian Sea.
- **15th June:** Gale wind speed reaching 125-135 kmph gusting to 150 kmph is likely to prevail over northeast Arabian Sea and likely to decrease becoming 90-100 kmph gusting to 110 kmph from evening. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over adjoining areas of eastcentral Arabian Sea.

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

- Squally wind speed reaching 45-55 kmph gusting to 65 kmph on 12th and becoming 50-60 kmph gusting to 70 kmph from 13th evening to 14th June.
- Gale wind speed reaching 65-75 kmph gusting to 85 kmph very likely to prevail from 14th June evening and becoming 125-135 kmph gusting to 150 kmph from 15th early morning for subsequent 12 hours. It would decrease gradually becoming 45-55 kmph gusting to 65 kmph over north Gujarat and adjoining south Rajasthan from 16th morning to evening.
- Squally wind speed reaching 55-65 kmph gusting to 75 kmph very likely to prevail along & off remaining districts Saurashtra coast on 14th & 15th June and 30-40 kmph gusting to 50 kmph during 16th morning to evening.

(iii) Sea condition

- **12th June:** Sea condition is likely to be phenomenal over northeast and adjoining eastcentral Arabian Sea and rough over adjoining westcentral Arabian Sea.
- **13th June:** Sea condition is likely to be phenomenal over northeast and adjoining eastcentral Arabian Sea and rough over adjoining northwest Arabian Sea.
- **14th June:** Sea condition is likely to be phenomenal over northeast Arabian Sea and rough to very rough sea condition is likely over adjoining areas of eastcentral Arabian Sea.
- **15th June:** Sea condition is likely to be phenomenal to high over northeast Arabian Sea and very rough to rough over adjoining eastcentral Arabian Sea till 15th June noon and improve thereafter.

Along & off Saurashtra & Kutch coasts:

Sea conditions likely to be rough to very rough till 14th morning and high to phenomenal thereafter till 15th June noon and improve thereafter.

(iv) Storm Surge Warning (Kutch, Devbhumi Dwarka, Porbandar, Jamnagar and Morbi districts)

Storm surge of about 2-3 m above the astronomical tide is likely to inundate the low lying areas of above districts during the time of landfall.

(v) Fishermen Warning

- Total suspension of fishing operations over
 - Eastcentral and adjoining Westcentral Arabian Sea till 15th June.
 - Northeast Arabian Sea during 12th -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 (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.

Special Agromet Advisories

Gujarat

Kachchh district

- Shift the harvested produce of crops like castor to safer places or cover them with polythene sheets in the fields.
- Arrange for extensive drainage facilities to remove excess water from standing crop fields.
- Provide mechanical support to plantation and horticultural crops.

Jamnagar and Devbhoomi Dwarka districts

- Provide mechanical support to plants to avoid lodging and being uprooted.
- Provide adequate drainage facilities to drain out excess water from cotton and groundnut.
- Arrange windbreaks on border of fields to prevent loss by strong winds.
- Provide mechanical support to bloom in date palm or tie bloom with leaf.

Morbi, Rajkot, Surendranagar and Amreli districts

- Harvest matured mango and vegetables and keep them in safer places.
- Make provision to drain out excess water from standing crop fields.
- Provide mechanical support to young fruit plants to prevent lodging.
- Postpone spraying operations.

Gir Somnath, Junagadh and Porbandar districts

- Harvest the matured fruits of mango, jamun and banana immediately and store them in safer places.
- Withhold sowing of groundnut.
- Maintain good drainage facilities in standing crop fields to avoid water stagnation.
- Provide mechanical support to young fruit plants to prevent lodging.
- Postpone irrigation, application of fertilizers and spraying of pesticides.

Banaskantha, Sabarkantha, Mehsana, Patan, Gandhinagar and Aravalli districts

- Harvest matured mango and vegetables and keep them in safer places.
- Postpone harvesting of groundnut, pearl millet and green gram and shift already harvested produce to safer places.
- Make arrangement to drain out excess water from standing crop fields.

Ahmedabad, Bhavnagar and Botad districts

- Postpone sowing of cotton, groundnut and pigeon pea.
- Provide adequate drainage facilities to drain out excess water from standing crop fields.
- Provide mechanical support to orchards.

Livestock and Poultry

- Keep the livestock indoors during the rainfall period.
- Store sufficient amount of quality fodder and keep at safer place to avoid spoilage from rainfall.
- Remove all the old branches of trees around animal shelter to prevent damage.

Fishery

- Cover the pond outlets with net to avoid escaping of fishes/fingerlings in case of overflowing of ponds due to heavy rain.