

#### India Meteorological Department (Ministry of Earth Sciences)

#### BULLETIN NO. 86 (ARB/01/2023)

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DATED: 17.06.2023

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

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## Sub: Deep Depression (Remnant of Cyclonic Storm 'Biparjoy') over Southeast Pakistan adjoining Southwest Rajasthan and Kutch

The Cyclonic Storm "Biparjoy" (pronounced as "Biporjoy") over Southeast Pakistan adjoining Southwest Rajasthan and Kutch moved nearly northeastwards with a speed of 12 kmph during past 6-hours, weakened into a Deep Depression and lay centered at 2330 hours IST of yesterday, the 16<sup>th</sup> June, 2023 over Southeast Pakistan adjoining Southwest Rajasthan and Kutch near latitude 24.6°N and longitude 70.9°E, about 100 km northeast of Dholavira, 140 km west-northwest of Deesa and 130 km south-southwest of Barmer.

It is very likely to move nearly northeastwards and weaken further into a Depression during next 12 hours.

Date/Time(IST)	Position (Lat. <sup>0</sup> N/ long. <sup>0</sup> E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance	
16.06.23/2330	24.6/70.9	50-60 Gusting To 70	Deep Depression	
17.06.23/0530	25.1/71.8	50-60 Gusting To 70	Deep Depression	
17.06.23/1130	25.6/72.7	40-50 Gusting To 60	Depression	
17.06.23/1730	26.1/73.6	30-40 Gusting To 50	Depression	

#### Forecast track and intensity are given below:

#### Warnings:

#### (i) Heavy Rainfall warning:

• Light to moderate rainfall at most places with isolated heavy to extremely heavy rainfall is likely over south Rajasthan & adjoining north Gujarat & Kutch on 17<sup>th</sup> June.

#### (ii) Wind warning:

**Northeast Arabian Sea:** Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail during next 12 hours.

#### Wind warning for along & off Saurashtra & Kutch coasts, interior districts and Gulf of Kutch:

- Squally wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing over Kutch and northern districts of Saurashtra. It is likely to further decrease becoming 40-50 kmph gusting to 60 kmph from the forenoon.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely to prevail over southern districts of Saurashtra, Gulf of Kutch and adjoining areas during next 06 hours.

#### Wind Warning for South Rajasthan

• Squally wind speed reaching 45-55 kmph gusting to 65 kmph during next 12 hours and decrease thereafter becoming 35-45 kmph gusting to 55 kmph.

#### (iii) Sea condition

Rough to very rough sea condition prevailing over northeast Arabian Sea and along & off Saurashtra & Kutch coasts likely to continue for next 12 hours.

#### (iv) Damage expected over Kachchh and North Saurashtra districts during next 06 hours:

- Minor damage to loose / unsecured structures.
- Some breaches in Kutcha road due to flooding.
- Minor damage to Banana trees and near coastal agriculture due to salt spray. Damage to ripe paddy crops.
- Minor damage to Kutcha embankments.

# (v) Fishermen Warning & Action Suggested (Kachchh, Devbhumi Dwarka, Porbandar, Jamnagar, Rajkot, Junagarh and Morbi districts) and for Offshore & Onshore Industries till noon of 17<sup>th</sup> June: (Graphics Attached)

- > Total suspension of fishing operations over northeast Arabian Sea.
- > Ports along the Saurashtra & Kutch coasts may take necessary precautions.
- > Naval base operations may maintain necessary precautions.
- Movement in motor boats unsafe.
- > Judicious regulation of rail and road traffic.
- > Tourism activities may be regulated over these areas.
- People in affected areas to remain indoors.

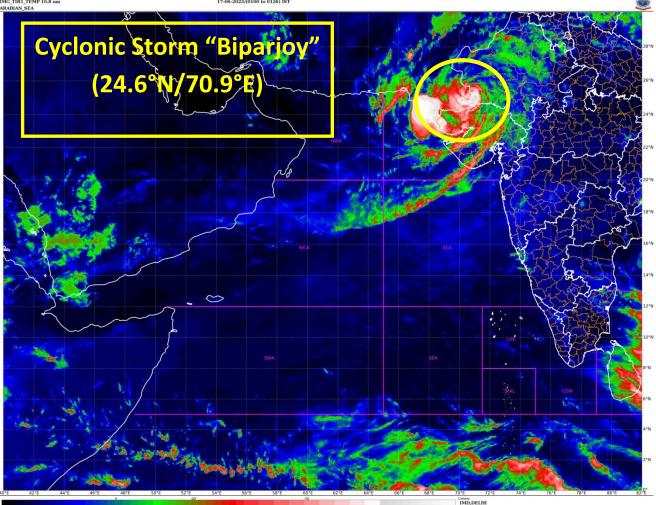
The system is under continuous surveillance and the next message will be issued at 0830 hours IST of today, the 17<sup>th</sup> June, 2023.

(Krishna Mishra) Scientist C, Cyclone Warning Division, New Delhi

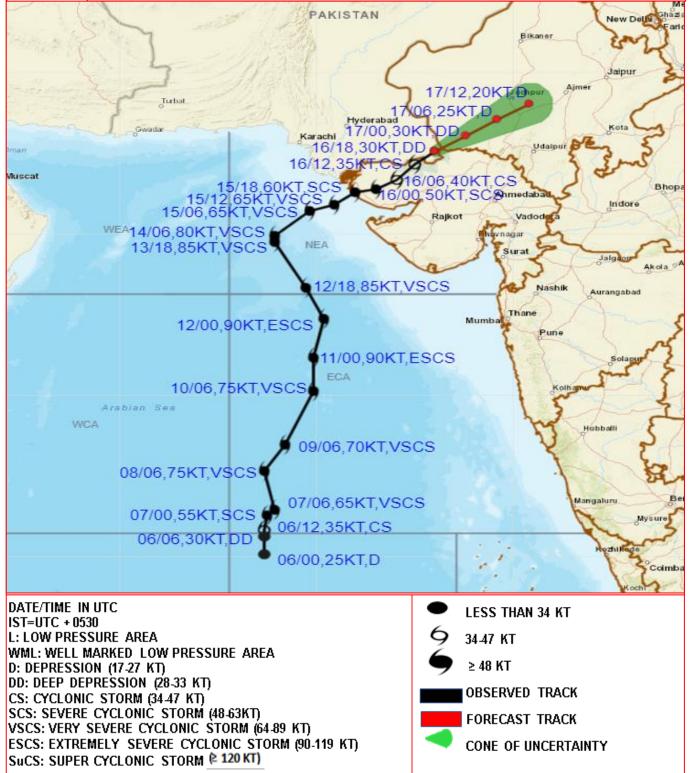
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/CWC Ahmedabad/ MO Port Blair/MC Raipur/MC Bhopal/MC Hyderabad/RMC Nagpur

*LEGEND*: Heavy Rainfall: 64.5 to 115.5mm, Very Heavy Rainfall: 115.6 to 204.4mm Most Places: more than 76% of total stations, Isolated Places: Less than 25% of total





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF DEEP DEPRESSION (REMANANT OF CYCLONIC STORM BIPARJOY) OVER SOUTHEAST PAKISTAN ADJOINING SOUTHWEST RAJASTHAN & KUTCH BASED ON 1800 UTC (2330 IST) OF 16<sup>TH</sup> JUNE 2023.

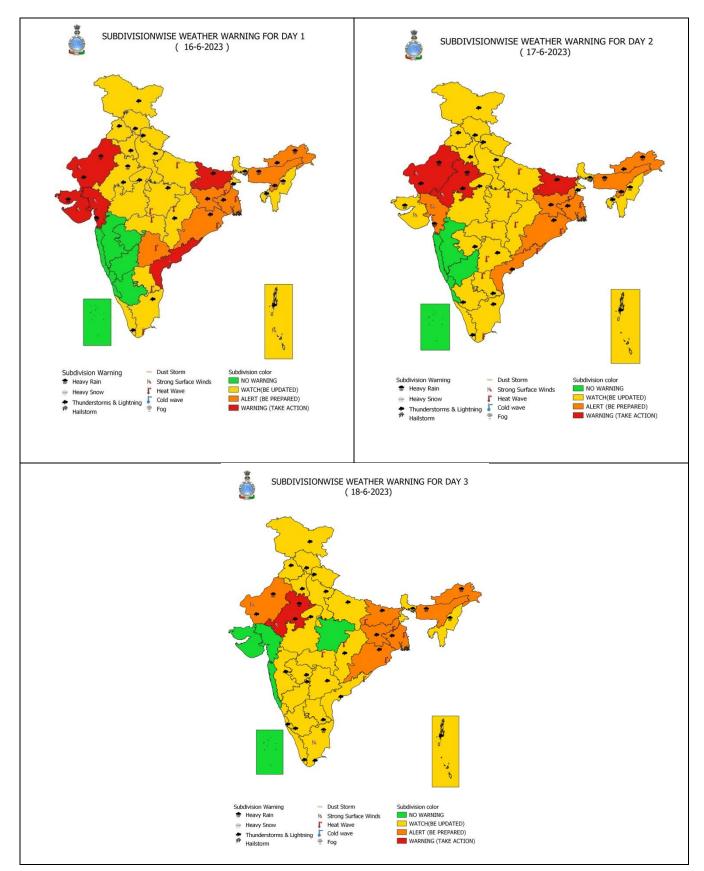




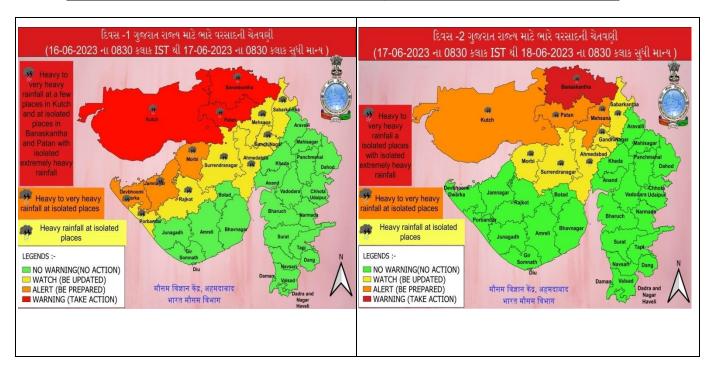
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION (REMANANT OF CYCLONIC STORM BIPARJOY) OVER SOUTHEAST PAKISTAN ADJOINING SOUTHWEST RAJASTHAN & KUTCH BASED ON 1800 UTC (2330 IST) OF 16TH JUNE 2023.



	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

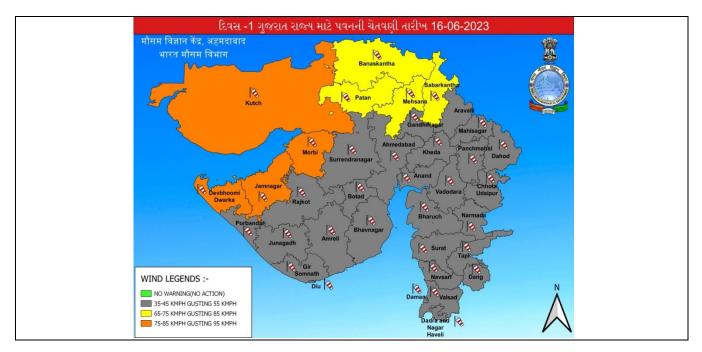


## All India Heavy Rainfall Warning for 16<sup>th</sup> to 18<sup>th</sup> June 2023



### District-wise Heavy Rainfall Warning Maps for 16<sup>th</sup> to 17<sup>th</sup> June

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



## District-wise Heavy Rainfall Warning Maps for 16<sup>th</sup> to 18<sup>th</sup> June for Rajasthan

