

India Meteorological Department (Ministry of Earth Sciences)

BULLETIN NO. 84 (ARB/01/2023)

TIME OF ISSUE: 2015 HOURS IST

DATED: 16.06.2023

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

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750) CONTROL ROOM NDMA (FAX.NO. 26701729) CABINET SECRETARIAT (FAX.NO.23012284, 23018638) PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745) SECRETARY, MOES (FAX NO. 24629777) H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147) DIRECTOR GENERAL, DOORDARSHAN (23385843) DIRECTOR GENERAL, AIR (23421105, 23421219) PIB MOES (FAX NO. 23389042) UNI (FAX NO. 23355841) D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260) DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503) CHIEF SECRETARY, KERALA (FAX NO. 0471-2327176) ADMINISTRATOR, LAKSHADWEEP ISLANDS (FAX NO. 0413-262184) CHIEF SECRETARY, TAMILNADU (FAX NO. 044-25672304) CHIEF SECRETARY, GOA (FAX NO. 0832-2415201) CHIEF SECRETARY, KARNATAKA (FAX NO. 080-22258913) CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022- 22028594) CHIEF SECRETARY, GUJARAT (FAX NO. 079-23250305) CHIEF SECRETARY, DAMAN & DIU (FAX NO. 0260-2230775) CHIEF SECRETARY, DADRA & NAGAR HAVELI (FAX NO. 0260-2645466)

Sub: Cyclonic Storm "Biparjoy" (pronounced as "Biporjoy") over Kutch and adjoining Pakistan

The Cyclonic Storm "Biparjoy" (pronounced as "Biporjoy") over Saurashtra & Kutch moved nearly northeastwards with a speed of 13 kmph during past 6-hours and lay centered at 1730 hours IST of today, the 16th June, 2023 over Kutch and adjoining Pakistan near latitude 24.2°N and longitude 70.3°E, about 30 km northeast of Dholavira, 190 km west of Deesa and 200 km south-southwest of Barmer.

It is very likely to move nearly northeastwards and weaken further into a deep depression around midnight of today, the 16th June.

- rereaded that and interiorly are given below				
Date/Time(IST)		Maximum sustained surface	Category of cyclonic	
	(Lat. ⁰N/ long. ⁰E)	wind speed (Kmph)	disturbance	
16.06.23/1730	24.2/70.3	65-75 Gusting To 85	Cyclonic Storm	
16.06.23/2330	24.7/71.0	50-60 Gusting To 70	Deep Depression	
17.06.23/0530	25.1/71.8	40-50 Gusting To 60	Depression	

Forecast track and intensity are given below:

Warnings:

(i) Heavy Rainfall warning:

• Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places is very likely over Saurashtra & Kutch, isolated heavy to extremely heavy rainfall is likely over north Gujarat region and south Rajasthan on 16th and over south Rajasthan & adjoining north Gujarat region on 17th June.

(ii) Wind warning:

Northeast Arabian Sea: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail till 17th June morning.

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

- Gale wind speed reaching 65-75 kmph gusting to 85 kmph is prevailing over Kachchh, 60-70 kmph gusting to 80 kmph is likely to prevail over northern districts of Saurashtra till midnight, squally wind speed reaching 50-60 kmph gusting to 70 kmph thereafter and 40-50 kmph gusting to 60 kmph till forenoon of 17th June.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph over southern districts of Saurashtra, iGulf of Kutch and adjoining areas during next six hours.

Wind Warning for South Rajasthan

• Squally wind speed reaching 45-55 kmph gusting to 65 kmph during evening to night. It would decrease thereafter becoming 35-45 kmph gusting to 55 kmph on 17th June.

(iii) Sea condition

Very rough to rough sea condition is prevailing over northeast Arabian Sea and along & off Saurashtra & Kutch coasts is likely to become rough by 16th June night and improve thereafter.

(iv) Damage expected over Kachchh and North Saurashtra districts during next 6 hours:

- Damage to thatched huts.
- Minor damage to power and communication lines due to breaking of branches.
- > Major damage to Kutcha and minor damage to Pucca roads.
- Some damage to paddy crops, banana, papaya trees and orchards.

(v) Fishermen Warning & Action Suggested (Kachchh, Devbhumi Dwarka, Porbandar, Jamnagar, Rajkot, Junagarh and Morbi districts) and for Offshore & Onshore Industries on 16th June: (Graphics Attached)

- > Total suspension of fishing operations over northeast and adjoining eastcentral 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.

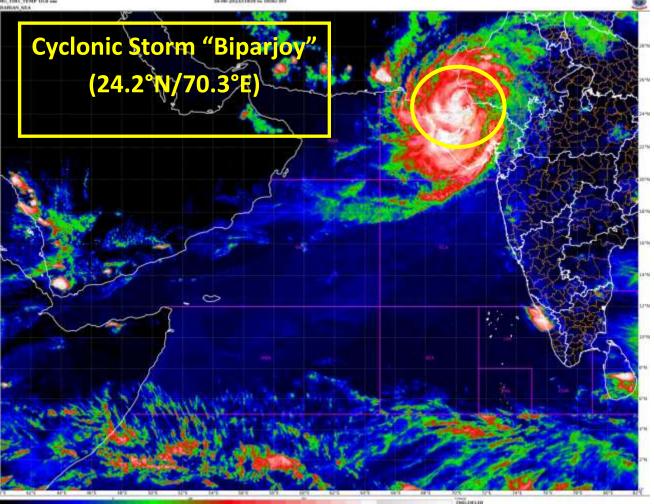
The system is under continuous surveillance and the next message will be issued at 2330 hours IST of today, the 16th June, 2023.

(Ananda Kumar Das) Scientist F, Cyclone Warning Division, New Delhi

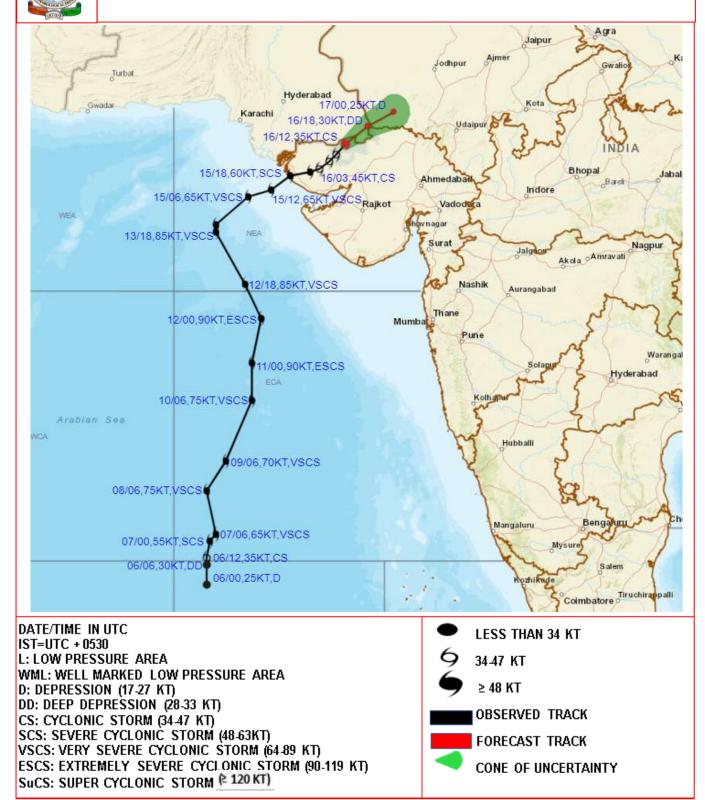
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/CWC Ahmedabad/ MO Port Blair/MC Raipur/MC Bhopal/MC Hyderabad/RMC Nagpur

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



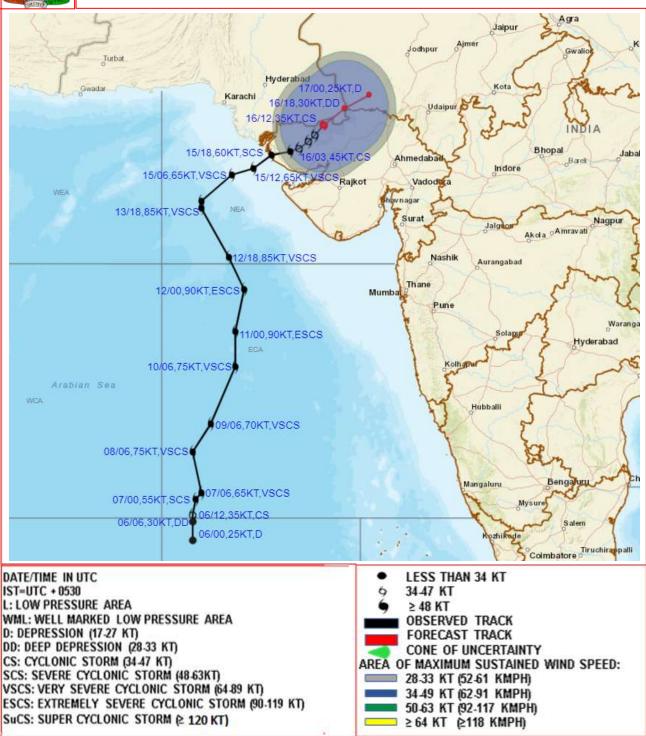


OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF CYCLONIC STORM "BIPARJOY" OVER KUTCH AND ADJOINING PAKISTAN BASED ON 1200 UTC (1730 IST) OF 16TH JUNE 2023.

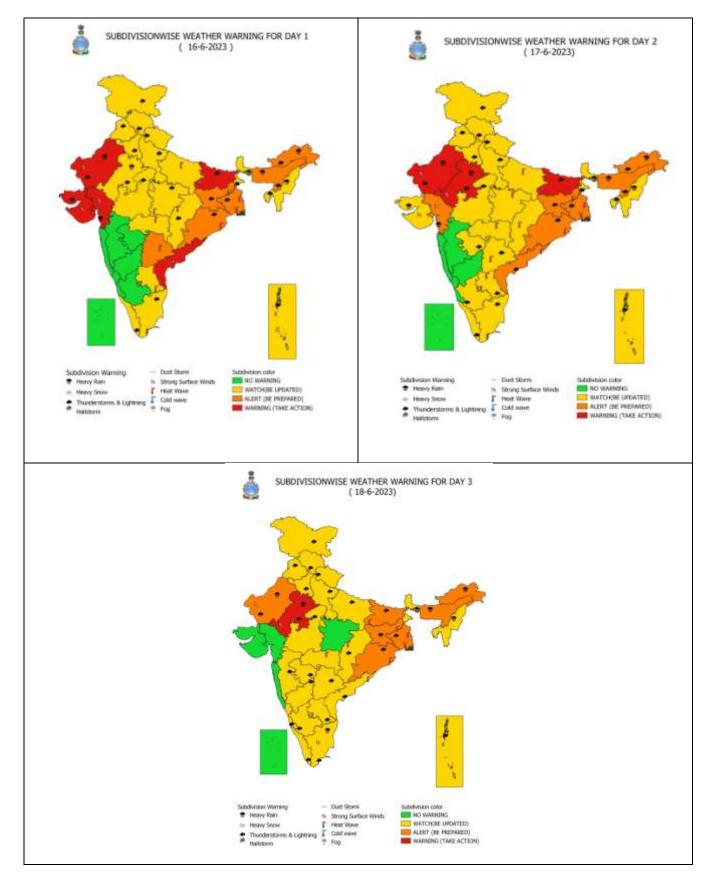




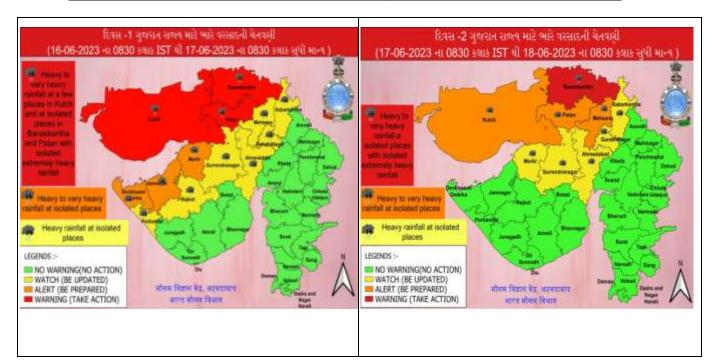
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "BIPARJOY" OVER KUTCH AND ADJOINING PAKISTAN BASED ON 1200 UTC (1730 IST) OF 16TH JUNE 2023.



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		

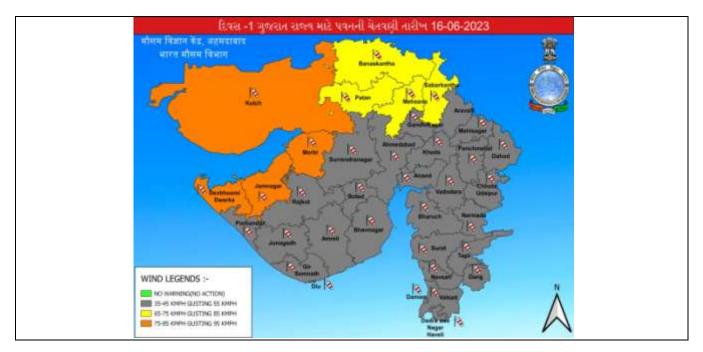


All India Heavy Rainfall Warning for 16th to 18th June 2023



District-wise Heavy Rainfall Warning Maps for 16th to 17th June

District-wise Wind Warning Maps for 16th June



District-wise Heavy Rainfall Warning Maps for 16th to 18th June for Rajasthan

