



India Meteorological Department
(Ministry of Earth Sciences)

BULLETIN NO. 91 (ARB/01/2023)

TIME OF ISSUE: 0130 HOURS IST

DATED: 18.06.2023

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

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Sub: Depression (Remnant of Cyclonic Storm 'Biparjoy') over central parts of South Rajasthan & neighbourhood

The Depression (Remnant of Cyclonic Storm 'Biparjoy') over Southwest Rajasthan and adjoining Gujarat moved east-northeastwards with a speed of 7 kmph during past 6-hours, and lay centered at 2330 hours IST of 17th June, 2023 over central parts of South Rajasthan & neighbourhood near latitude 25.8°N and longitude 72.8°E, about 60 km south-southwest of Jodhpur.

It is very likely to continue to move east-northeastwards and maintain the intensity of Depression till forenoon of 18th June.

Warnings:

(i) Heavy Rainfall Warning (Gujarat, Rajasthan and Madhya Pradesh):

- Light to moderate rainfall at most places is likely with isolated heavy to very heavy rainfall over **Southwest Rajasthan** on 18th June.
- Light to moderate rainfall at most places is likely with isolated heavy to extremely heavy rainfall over **Southeast Rajasthan** on 18th June and isolated heavy to very heavy rainfall on 19th June.
- Light to moderate rainfall at most places is likely with isolated heavy rainfall over **Northeast Rajasthan** on 18th and isolated heavy to very heavy rainfall on 19th June.
- Light to moderate rainfall at most places is likely with isolated heavy to very heavy rainfall over **West Madhya Pradesh** on 19th June.

- Light to moderate rainfall at many places is likely with isolated heavy rainfall over **North Gujarat Region** on 18th June.

(ii) Wind warning:

Wind Warning for Rajasthan and adjoining north Gujarat

- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely till morning of 18th June over **South Rajasthan and adjoining North Gujarat** and decrease thereafter becoming strong wind speed reaching 25-35 kmph gusting to 45 kmph thereafter over **East Rajasthan and adjoining areas** till evening of 18th June.

(iii) Damage expected over South Rajasthan and adjoining North Gujarat districts during next 12 hours:

- Inundation of low lying areas.
- Reduction in visibility causing difficulty in surface transport in heavy rain
- Some breaches in Kutch road due to flooding.
- Damage to loose / unsecured structures.
- Minor damage to Banana, papaya, drumstick trees and horticultural crops.

(iv) Action suggested:

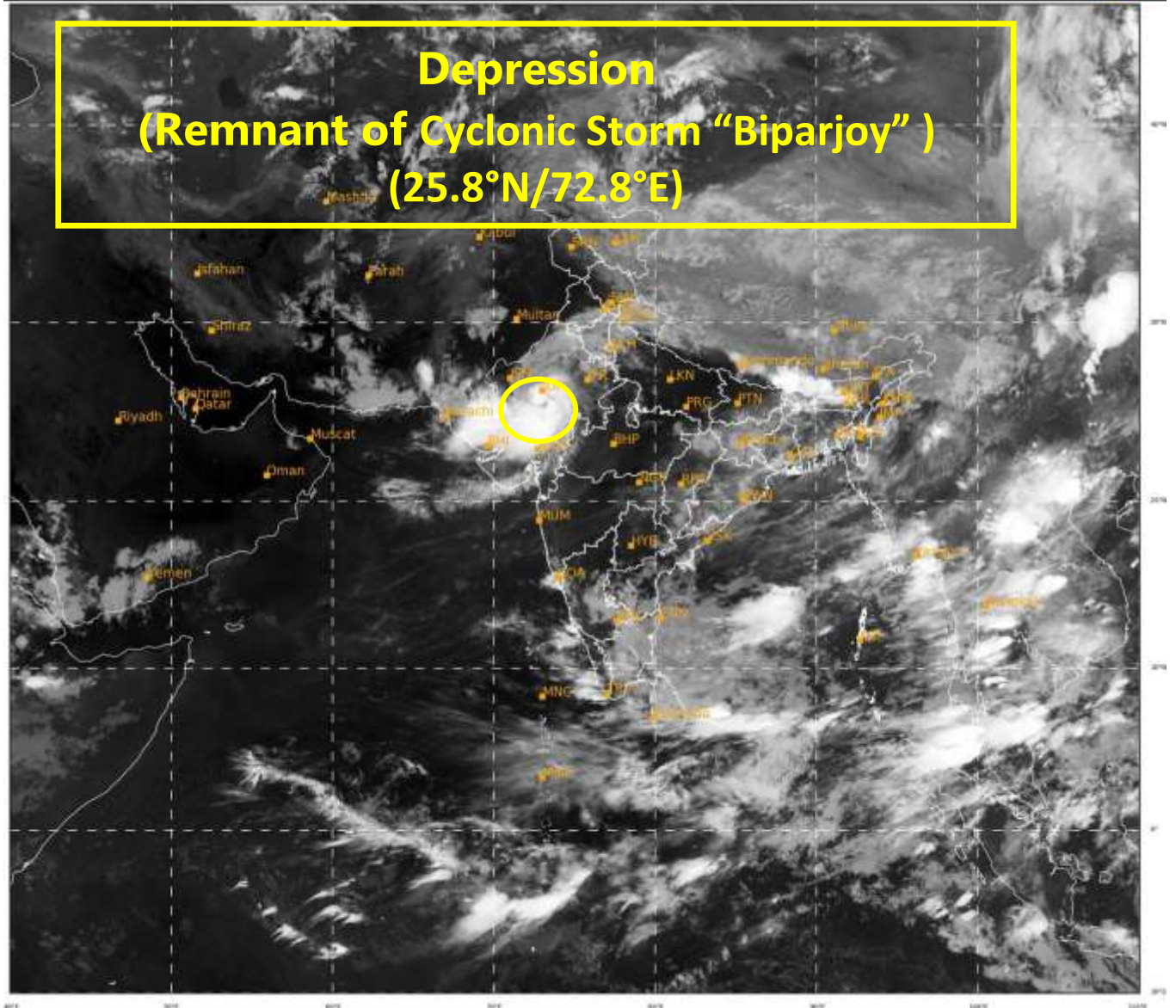
- Avoid staying in low lying areas which could be inundated due to heavy rain.
- Protect solar panels etc. from damage due to strong winds & lightning.
- Stay indoors, close windows & doors and avoid travel, if possible, during thunderstorms & gusty winds.
- Take safe shelters; do not take shelter under trees.
- Keep away from all the objects that conduct electricity during thunderstorm.
- Adventure activities & tourism trips may be avoided.

The system is under continuous surveillance and the next message will be issued at 0830 hours IST of today, the 18th June, 2023.

**(Shashi Kant)
Scientist C,
Cyclone Warning Division,
New Delhi**

Copy to: ACWC Mumbai/ CWC Ahmedabad/MC Jaipur/MC Bhopal/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



465

944

IMD, DELHI



OBSERVED AND FORECAST TRACK OF DEPRESSION (REMANANT OF CYCLONIC STORM BIPARJOY) OVER CENTRAL PARTS OF SOUTH RAJASTHAN AND NEIGHBOURHOOD BASED ON 1800 UTC (2330 IST) OF 17TH JUNE 2023.



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT)

CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

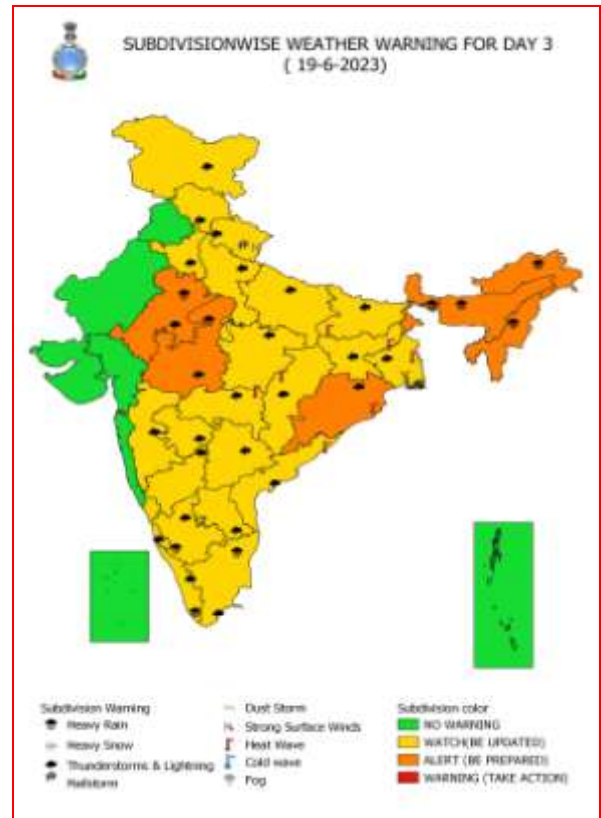
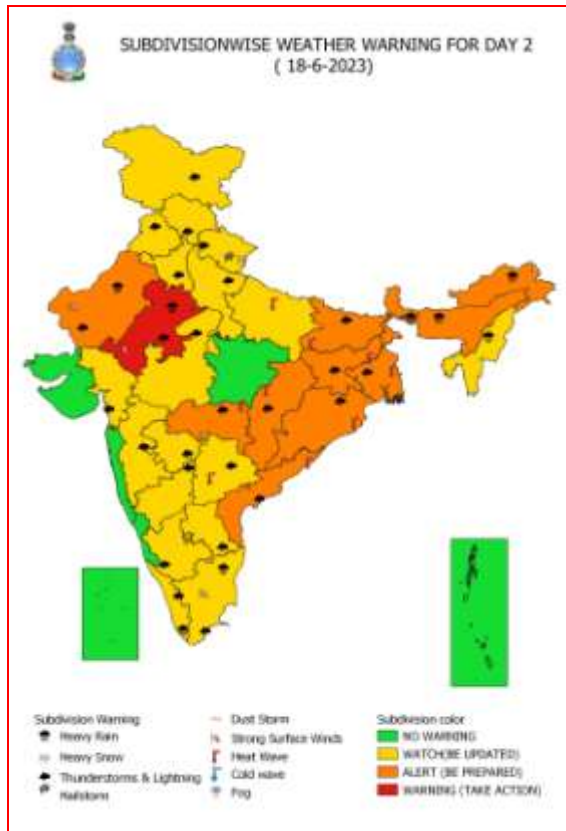
○ \geq 48 KT

— OBSERVED TRACK

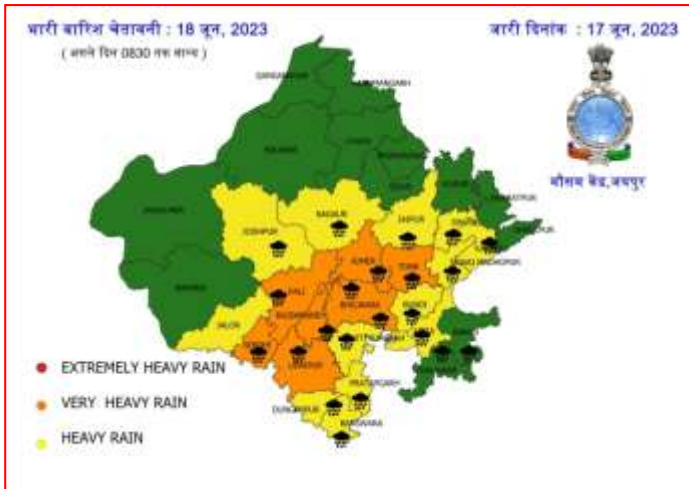
— FORECAST TRACK

▲ CONE OF UNCERTAINTY

All India Heavy Rainfall Warning Maps for 18th & 19th June



District-wise Heavy Rainfall Warning Maps for 18th & 19th June for Rajasthan



24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 18-06-2023

Moderate flash flood risk likely over few watersheds & neighbourhoods of West Rajasthan adjoining East Rajasthan Met Sub-divisions during next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern as shown in map due to expected rainfall occurrence in next 24 hours.

