



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

BULLETIN NO. 10 (ARB/01/2023)

TIME OF ISSUE: 1515 HOURS IST

DATED: 07.06.2023

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Sub: Severe Cyclonic Storm “Biparjoy” (pronounced as “Biporjoy”) intensified into a Very Severe Cyclonic Storm over eastcentral and adjoining southeast Arabian Sea

The severe cyclonic storm “**Biparjoy**” (pronounced as “**Biporjoy**”) over eastcentral and adjoining southeast Arabian Sea moved nearly north-northeastwards with a speed of 5 kmph during last 6 hours, intensified into a very severe cyclonic storm and lay centered at 1130 hours IST of today, the 07th June, 2023 over the same region near latitude 12.8°N and longitude 66.3 °E, about 860 km west-southwest of Goa, 970 km southwest of Mumbai, 1050 km south-southwest of Porbandar and 1350 km south of Karachi.

It would move nearly northwards during next 24 hours and then north-northwestwards during subsequent 3 days.

Forecast track and intensity are given below:

| Date/Time(IST) | Position (Lat. °N/ long. °E) | Maximum sustained surface wind speed (Kmph) | Category of cyclonic disturbance |
|-----------------------|---|--|---|
| 07.06.23/1130 | 12.8/66.3 | 115-125 gusting to 140 | Very Severe Cyclonic Storm |
| 07.06.23/1730 | 13.0/66.4 | 120-130 gusting to 145 | Very Severe Cyclonic Storm |
| 07.06.23/2330 | 13.3/66.3 | 125-135 gusting to 150 | Very Severe Cyclonic Storm |
| 08.06.23/0530 | 13.7/66.2 | 130-140 gusting to 155 | Very Severe Cyclonic Storm |
| 08.06.23/1130 | 14.0/66.1 | 135-145 gusting to 160 | Very Severe Cyclonic Storm |
| 08.06.23/2330 | 14.6/65.9 | 135-145 gusting to 160 | Very Severe Cyclonic Storm |
| 09.06.23/1130 | 15.3/65.6 | 145-155 gusting to 170 | Very Severe Cyclonic Storm |
| 09.06.23/2330 | 16.0/65.2 | 145-155 gusting to 170 | Very Severe Cyclonic Storm |
| 10.06.23/1130 | 16.7/64.8 | 145-155 gusting to 170 | Very Severe Cyclonic Storm |
| 10.06.23/2330 | 17.4/64.4 | 135-145 gusting to 160 | Very Severe Cyclonic Storm |
| 11.06.23/1130 | 18.2/64.0 | 130-140 gusting to 155 | Very Severe Cyclonic Storm |
| 11.06.23/2330 | 18.9/63.6 | 125-135 gusting to 150 | Very Severe Cyclonic Storm |
| 12.06.23/1130 | 19.5/63.1 | 120-130 gusting to 145 | Very Severe Cyclonic Storm |

(i) Wind warning:

7th June: Gale wind speed reaching 115-125 kmph gusting to 140 kmph is prevailing over eastcentral Arabian Sea and adjoining areas of westcentral & southeast Arabian Sea. It is likely to increase and become 125-135 kmph gusting to 150 kmph during night of 7th June over the same area.

Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely over adjoining areas of south Arabian Sea and along & off north Kerala-Karnataka-Goa coasts.

8th June: Gale wind speed reaching 130-140 kmph gusting to 155 kmph is likely to prevail over eastcentral Arabian Sea and adjoining areas of westcentral & south Arabian and it is likely to increase and become 135-145 kmph gusting to 160 kmph during night of 8th June over the same area.

Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely along & off Karnataka-Goa-Maharashtra coasts.

9th June: Gale wind speed reaching 145-155 kmph gusting to 170 kmph is likely to prevail over central Arabian Sea.

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over adjoining areas of South Arabian Sea. Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely along & off Karnataka-Goa-Maharashtra coasts.

10th June: Gale wind speed reaching 145-155 kmph gusting to 170 kmph is likely to prevail over central Arabian Sea.

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over adjoining areas of north Arabian Sea. Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely along & off Karnataka-Goa-Maharashtra coasts.

11th June: Gale wind speed reaching 130-140 kmph gusting to 155 kmph is likely to prevail over central & adjoining north Arabian Sea.

Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely along & off Maharashtra-Gujarat coasts.

12th June: Gale wind speed reaching 120-130 kmph gusting to 145 kmph is likely to prevail over central & adjoining northwest Arabian Sea.

Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely along & off Maharashtra-Gujarat coasts.

(iii) Sea condition

7th June: Phenomenal Sea condition is likely to prevail over eastcentral Arabian Sea and adjoining westcentral & southeast Arabian. Sea condition is likely to be rough to very rough over south Arabian Sea and along & off north Kerala-Karnataka-Goa coasts.

8th June:

Sea condition is likely to be phenomenal over central Arabian Sea and adjoining south Arabian Sea. Sea condition is likely to be rough over Arabian Sea along & off Karnataka-Goa-Maharashtra coasts.

9th June: Sea condition is likely to be phenomenal over central Arabian Sea. Sea condition is likely to be rough over adjoining areas of Arabian Sea and along & off Karnataka-Goa-Maharashtra coasts.

10th June: Sea condition is likely to be phenomenal over central Arabian Sea. Sea condition is likely to be rough over adjoining areas of north Arabian Sea and along & off Karnataka-Goa-Maharashtra coasts.

11th June: Sea condition is likely to be phenomenal to very high over central & adjoining north Arabian Sea. Sea condition is likely to be rough to very rough over adjoining areas of northeast Arabian Sea and rough along & off Maharashtra-Gujarat coasts.

12th June: Sea condition is likely to be phenomenal over central & adjoining northwest Arabian Sea. Sea condition is likely to be rough to very rough over adjoining areas of northeast Arabian Sea and rough along & off Maharashtra-Gujarat coasts.

(iv) Fishermen Warning (Graphics Attached)

- Total suspension of fishing operations over
 - eastcentral and adjoining westcentral & south Arabian Sea till 12th June.
 - westcentral and adjoining northwest Arabian Sea during 12-14th June
- Fishermen are advised not to venture into:
 - Central Arabian Sea till 13th June.
 - Adjoining areas of north Arabian Sea during 12th -13th June.
 - Adjoining areas of south Arabian Sea till 7th June.
- Those out at sea are advised to return to coast.

The system is under continuous surveillance and the next message will be issued at 1730 hours IST of today, the 7th June, 2023.

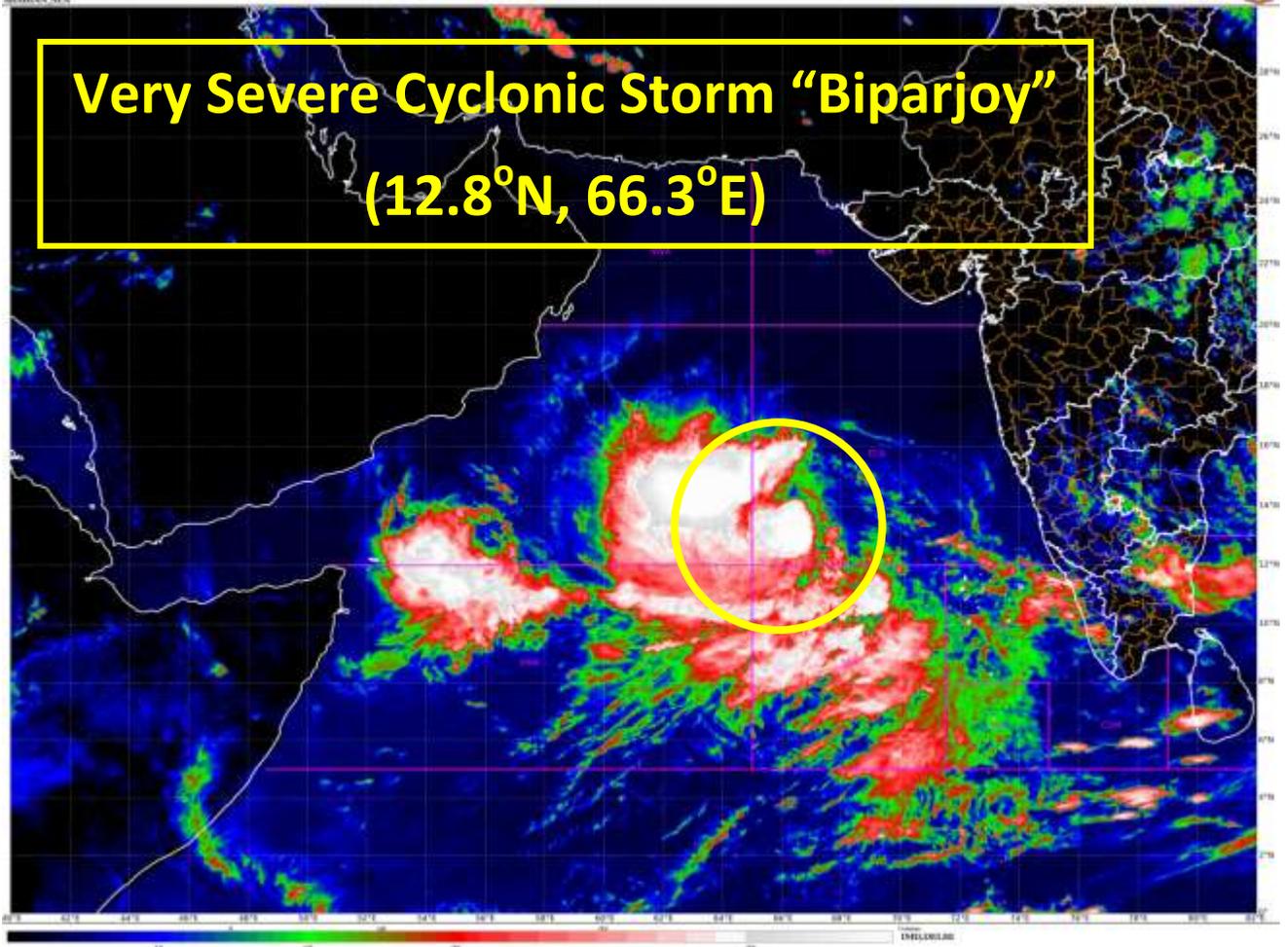
(Ananda Kumar Das)
Scientist F, Cyclone Warning Division, New Delhi

Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/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

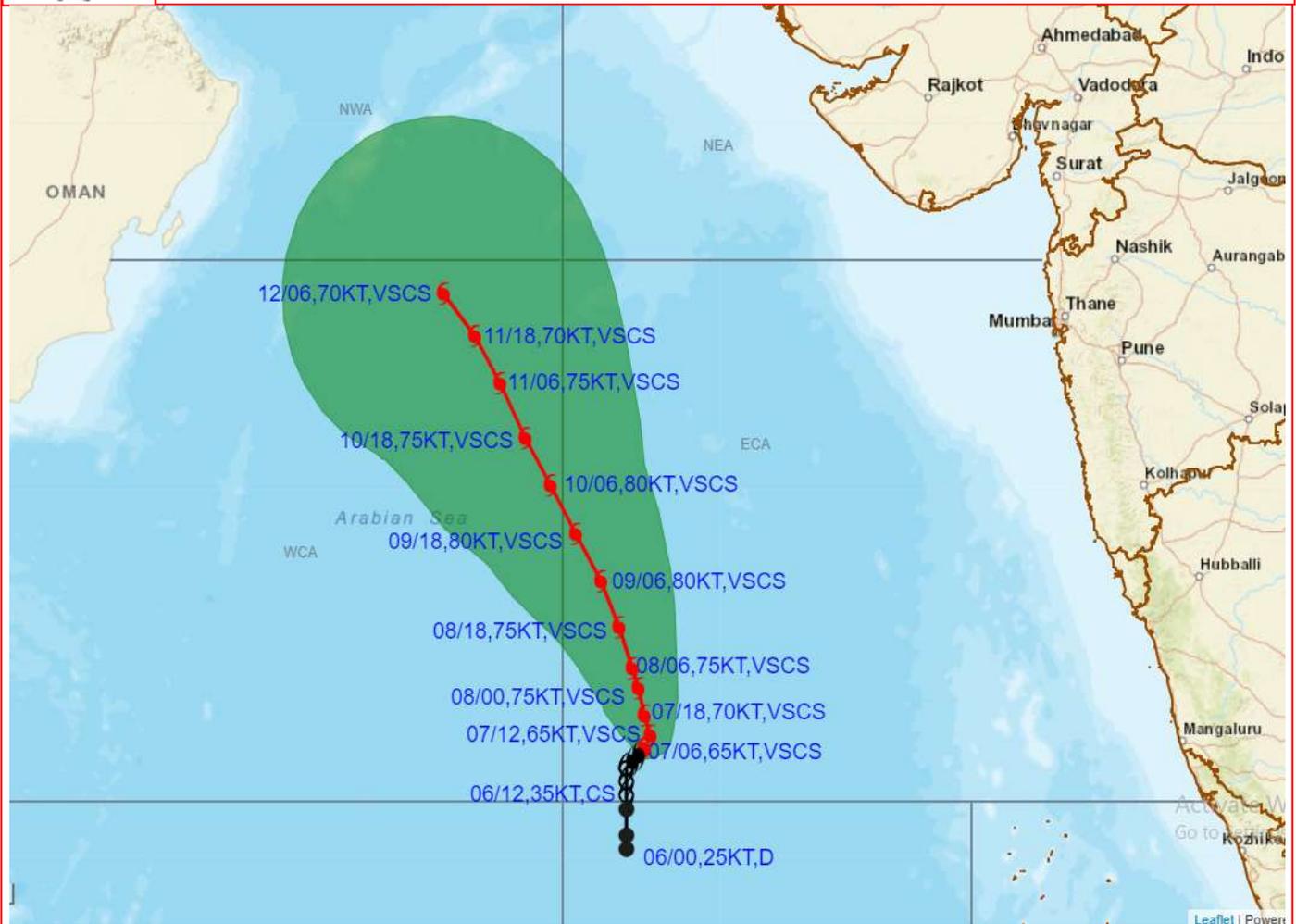


Very Severe Cyclonic Storm "Biparjoy"
(12.8°N, 66.3°E)





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA BASED ON 0600 UTC (1130 IST) OF 07TH JUNE 2023



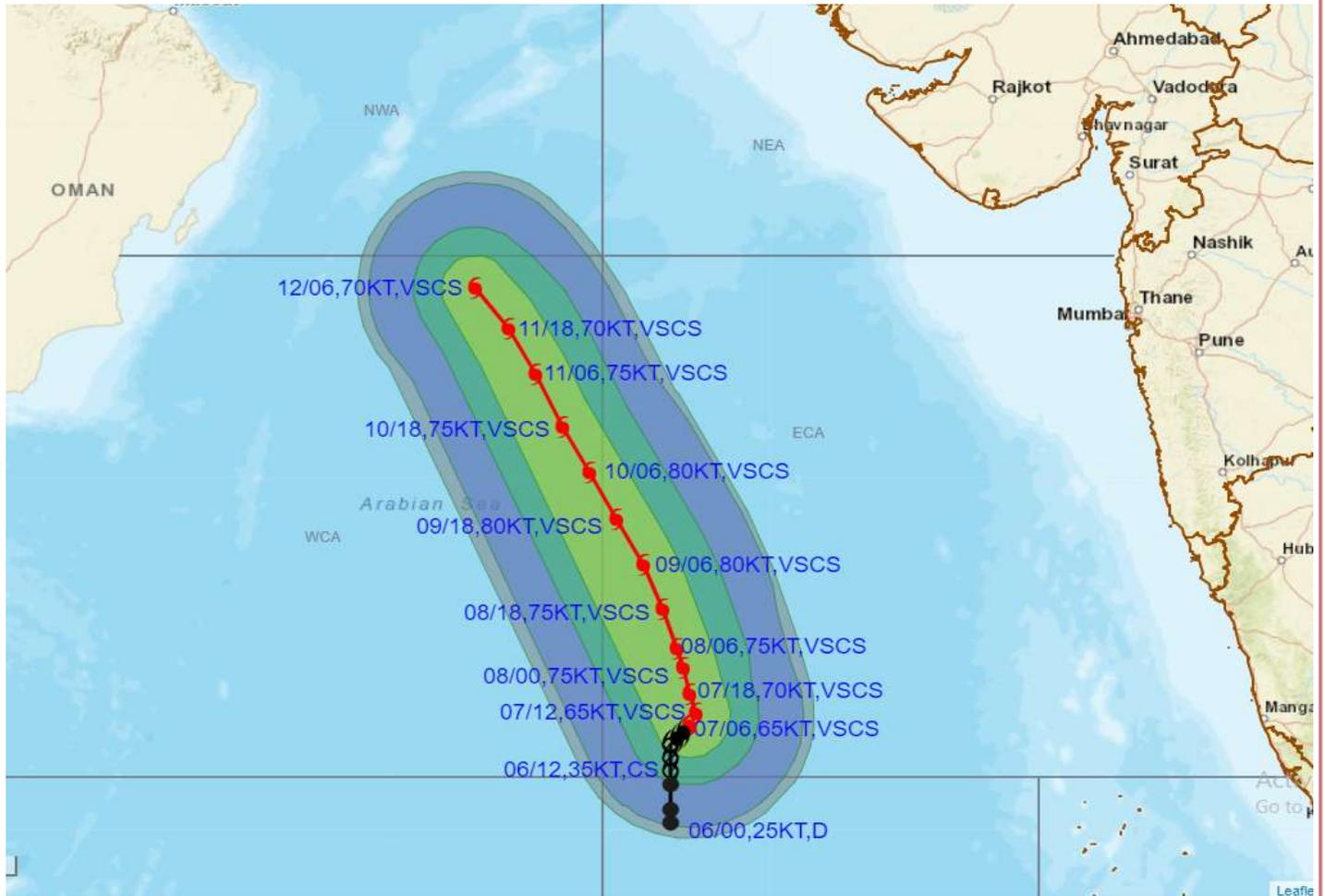
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (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

| STATIONS | DISTANCE(KM) AND DIRECTION FROM STATIONS | | |
|-----------------|--|---------------|---------------|
| | 08.06.23/0600 | 09.06.23/0600 | 10.06.23/0600 |
| PORBANDAR | 930, SSW | 820, SSW | 750, SW |
| BOMBAY / COLABA | 900, SW | 870, WSW | 880, WSW |
| GOA/PANJIM | 850, W | 890, W | 970, W |
| KARACHI AIRPORT | 1210, S | 1080, S | 940, SSW |
| MASIRAH | 1060, SE | 920, SE | 760, SE |



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL AND ADJOINING SOUTHEAST ARABIAN SEA BASED ON 0600 UTC (1130 IST) OF 07TH 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
 AREA OF MAXIMUM SUSTAINED WIND SPEED:
 ■ 28-33 KT (52-61 KMPH)
 ■ 34-49 KT (62-91 KMPH)
 ■ 50-63 KT (92-117 KMPH)
 ■ \geq 64 KT (\geq 118 KMPH)

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 |
| \geq 64 (\geq 118) | Phenomenal | Total suspension of fishing operations |

Fishermen warning graphics

