



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

BULLETIN NO. 25 (ARB/01/2023)

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Sub: A) Very Severe Cyclonic Storm "Biparjoy" (pronounced as "Biporjoy") over eastcentral Arabian Sea
B) Low Pressure Area over northeast Bay of Bengal off Myanmar coast

A) Very Severe Cyclonic Storm "Biparjoy" (pronounced as "Biporjoy") over eastcentral Arabian Sea

The very severe cyclonic storm "Biparjoy" (pronounced as "Biporjoy") over eastcentral Arabian Sea moved slowly north-northeastwards with a speed of 6 kmph during past 6-hours and lay centered at 0830 hours IST of today, the 09th June, 2023 over the same region near latitude 14.8°N and longitude 66.4°E, about 800 km west of Goa, 820 km west-southwest of Mumbai, 830 km south-southwest of Porbandar and 1120 km south of Karachi.

It would intensify further gradually during next 36 hours and move nearly north-northeastwards during next 48 hours and 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
09.06.23/0830	14.8/66.4	125-135 gusting to 150	Very Severe Cyclonic Storm
09.06.23/1130	14.9/66.5	125-135 gusting to 150	Very Severe Cyclonic Storm
09.06.23/1730	15.2/66.7	130-140 gusting to 155	Very Severe Cyclonic Storm
09.06.23/2330	15.6/66.8	135-145 gusting to 160	Very Severe Cyclonic Storm
10.06.23/0530	16.6/66.9	140-150 gusting to 165	Very Severe Cyclonic Storm
10.06.23/1730	16.8/67.0	145-155 gusting to 170	Very Severe Cyclonic Storm
11.06.23/0530	17.7/67.0	140-150 gusting to 165	Very Severe Cyclonic Storm
11.06.23/1730	18.5/66.9	135-145 gusting to 160	Very Severe Cyclonic Storm
12.06.23/0530	19.3/66.7	130-140 gusting to 155	Very Severe Cyclonic Storm
12.06.23/1730	20.1/66.4	125-135 gusting to 150	Very Severe Cyclonic Storm
13.06.23/0530	20.8/66.0	120-130 gusting to 145	Very Severe Cyclonic Storm
13.06.23/1730	21.5/65.6	115-125 gusting to 140	Very Severe Cyclonic Storm
14.06.23/0530	22.2/65.1	110-120 gusting to 135	Severe Cyclonic Storm

(i) Wind warning:

9th June: Gale wind speed reaching 125-135 kmph gusting to 160 kmph is likely to prevail over eastcentral Arabian Sea and adjoining areas of westcentral Arabian Sea and become 145-155 kmph gusting to 170 kmph over the region from night.

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely over adjoining areas of South Arabian Sea.

10th June: Gale wind speed reaching 145-155 kmph gusting to 170 kmph is likely to prevail over eastcentral & adjoining areas of westcentral Arabian Sea and 70-80 kmph gusting to 90 kmph likely to prevail over adjoining areas of northeast Arabian Sea.

11th June: Gale wind speed reaching 135-145 kmph gusting to 160 kmph is likely to prevail over eastcentral & adjoining westcentral Arabian Sea and becoming 130-140 kmph gusting to 155 kmph over the region from evening.

12th June: Gale wind speed reaching 125-135 kmph gusting to 150 kmph is likely to prevail over northeast and adjoining central & northwest Arabian Sea and becoming 120-130 kmph gusting to 145 kmph from evening.

13th June: Gale wind speed reaching 115-125 kmph gusting to 140 kmph is likely to prevail over northeast and adjoining central & northwest Arabian Sea.

14th June: Gale wind speed reaching 115-125 kmph gusting to 140 kmph is likely to prevail over central parts of north Arabian Sea and 70-80 kmph gusting to 90 kmph over adjoining areas of central Arabian Sea.

Along & off Saurashtra & Kutch coasts:

Squally wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail on 10th June and likely to increase becoming 40-50 kmph gusting to 60 kmph on 11th June, 45-55 kmph gusting to 65 kmph during 12th and 50-60 kmph gusting to 70 kmph 13th and 14th June.

(ii) Sea condition

9th & 10th June: Sea condition is likely to be phenomenal over eastcentral Arabian Sea and adjoining areas of westcentral Arabian Sea. Rough to very rough sea condition is likely to prevail over adjoining areas of south Arabian Sea.

11th June: Sea condition is likely to be phenomenal over northeast and adjoining central & northwest Arabian Sea.

12th & 13th June: Sea condition is likely to be phenomenal over northeast and adjoining northeast and adjoining central & northwest Arabian Sea.

14th June: Sea condition is likely to be phenomenal to very high over central parts of north Arabian Sea. Rough to very rough sea condition is likely over adjoining areas of central Arabian Sea.

Along & off Saurashtra & Kutch coasts:

Sea condition is likely to be rough on 10th June and likely to become rough to very rough during 11th to 14th June.

(iii) Fishermen Warning (Graphics Attached)

- Total suspension of fishing operations over
 - eastcentral and adjoining westcentral Arabian Sea till 13th June.
 - north and adjoining central Arabian Sea during 12th -14th June
- Fishermen are advised not to venture into:
 - Central Arabian Sea till 13th June.
 - Adjoining areas of north Arabian Sea during 12th -15th June.
 - **Along & off Saurashtra & Kutch coasts during 10th to 15th June.**
- Those out at sea are advised to return to coast.

B) Low Pressure Area over northeast Bay of Bengal off Myanmar coast

Under the influence of a cyclonic circulation over northeast and adjoining eastcentral Bay of Bengal, a low pressure formed over northeast Bay of Bengal off Myanmar coast at 0830 hours IST of 9th June, 2023. It is likely to become a well marked low pressure area during next 24 hours.

(i) Wind warning:

Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail over northeast Bay of Bengal during 9th and 10th June.

(ii) Sea condition

Sea condition is likely to be rough over northeast Bay of Bengal during 9th and 10th June.

(iii) Fishermen Warning (Graphics Attached)

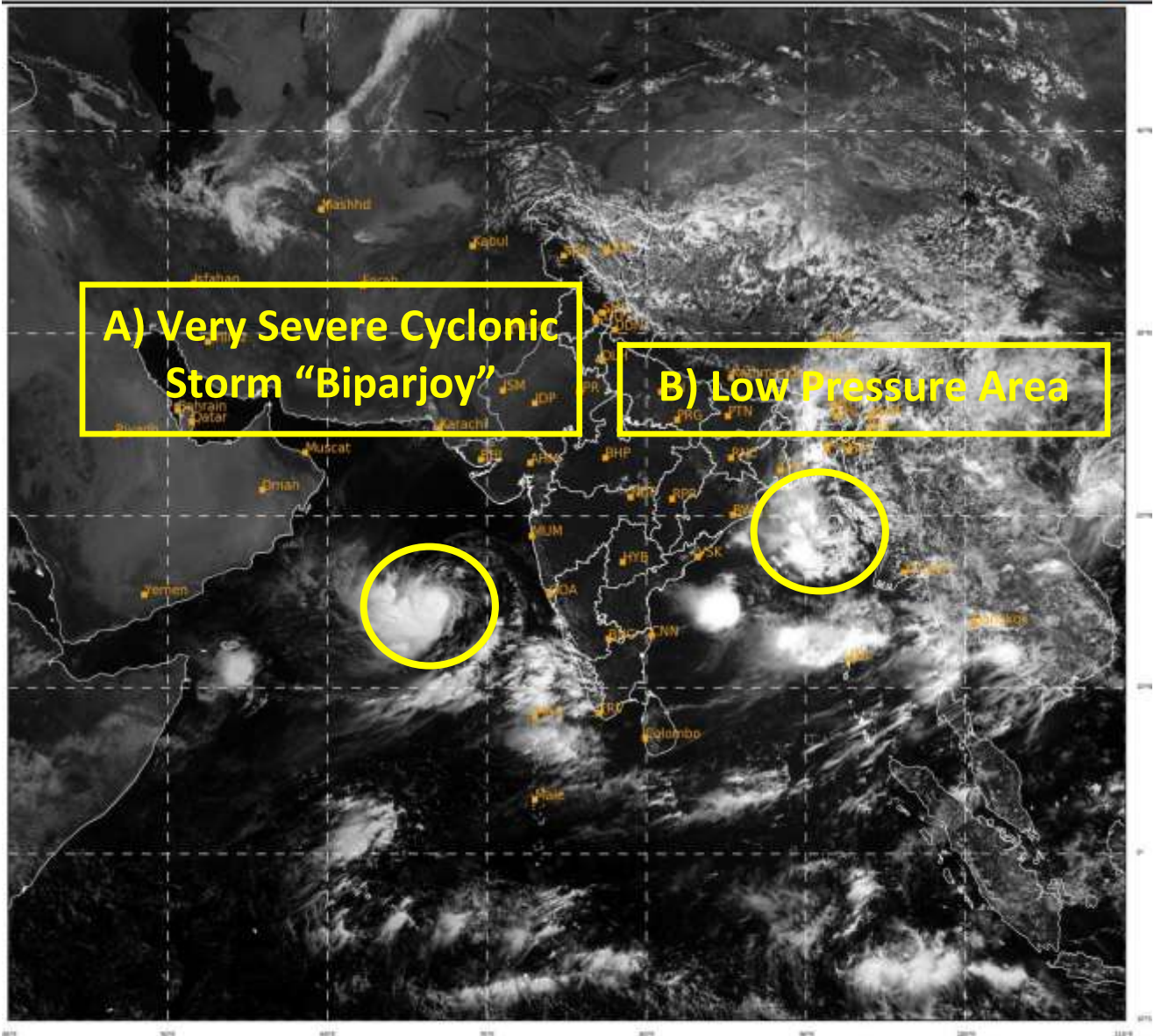
Fishermen are advised not to venture into northeast Bay of Bengal during 9th and 10th June.

The systems are under continuous surveillance and the next message will be issued at 1430 hours IST of today, the 9th June, 2023.

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

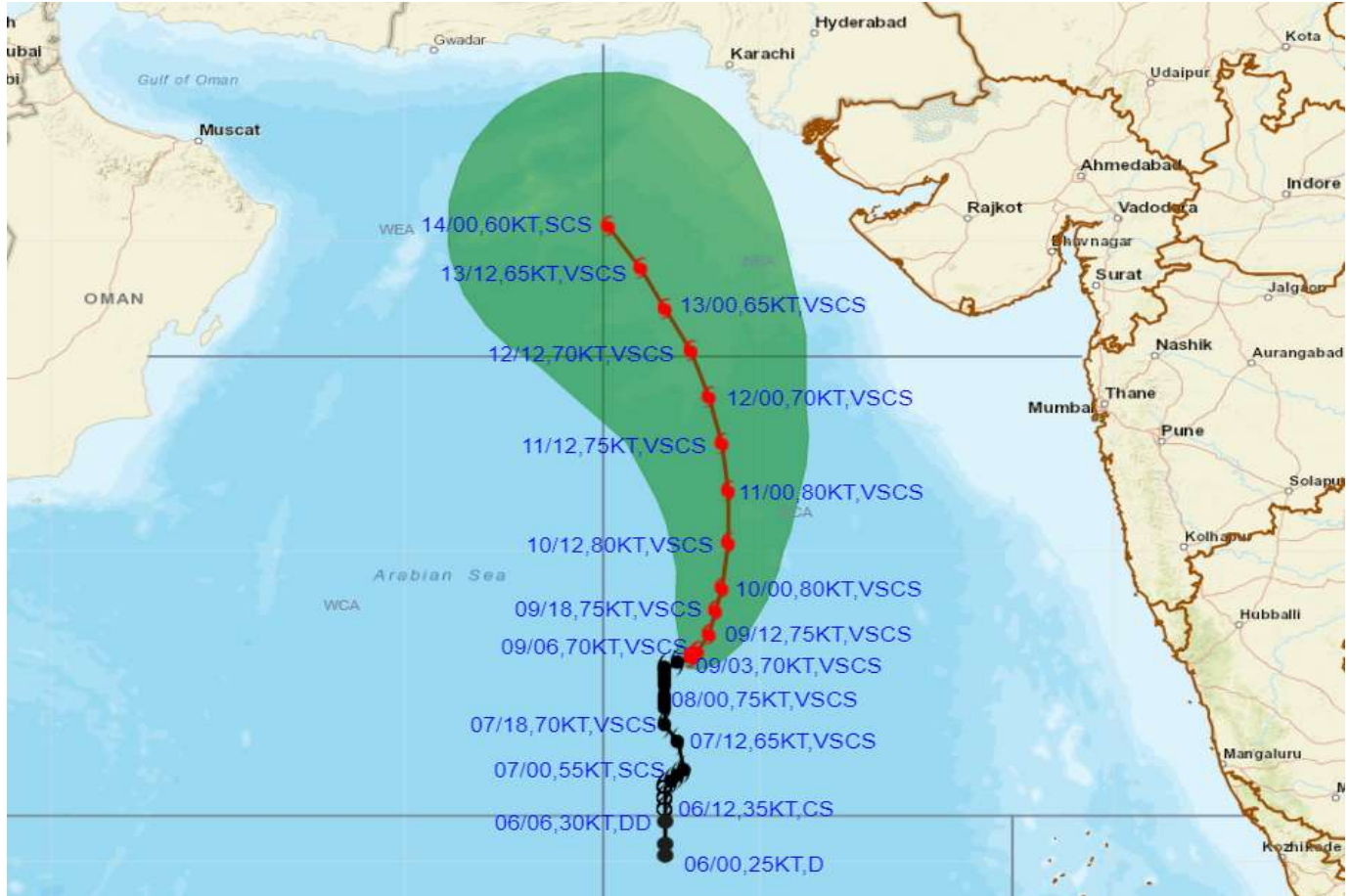
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/CWC Ahmedabad/ MO Port Blair/MC Raipur/MC Bhopal/MC Hyderabad/RMC Nagpur

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





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 09TH JUNE 2023.



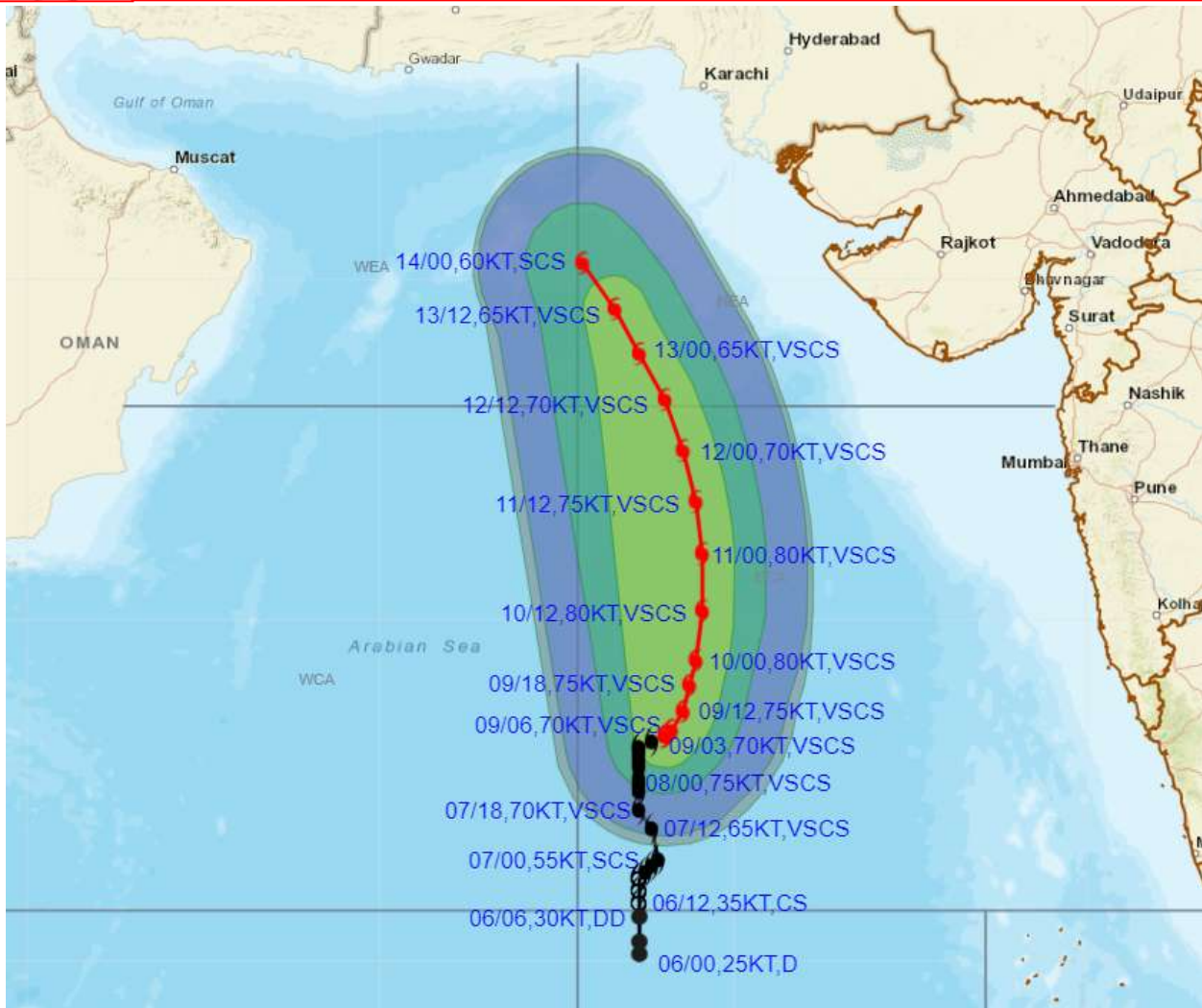
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS						
	Date and Time	Lead Period	PORBANDAR	BOMBAY / COLABA	GOA/PANJIM	KARACHI AIRPOR	MASIRAH
	10.06.23/0000	21	690, SSW	700, WSW	750, W	990, S	990, ESE
	11.06.23/0000	45	520, SSW	630, WSW	770, WNW	800, S	910, ESE
	12.06.23/0000	69	400, SW	650, W	870, WNW	620, S	820, E
	13.06.23/0000	93	400, WSW	750, WNW	1020, NW	470, SSW	730, E
	14.06.23/0000	117	470, W	880, WNW	1180, NW	360, SW	660, ENE



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER EASTCENTRAL ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 09TH 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)

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

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

SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

● ≥ 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)

— ≥ 64 KT (≥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
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

Fishermen warning graphics

