

# India Meteorological Department (Ministry of Earth Sciences)

## HOURLY UPDATE ON SEVERE CYCLONIC STORM 'BIPARJOY'

#### **BULLETIN NO. 16**

DATE: 16-06-2023 TIME OF ISSUE: 0330 HRS IST

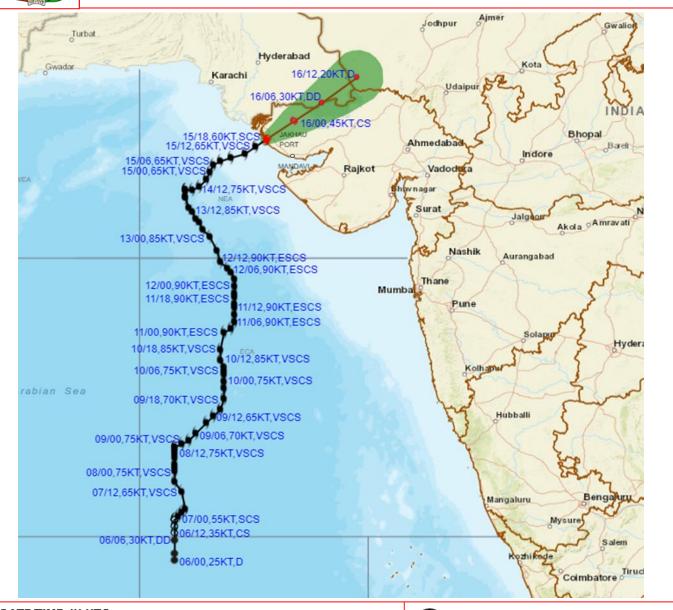
DATE/TIME (IST) OF OBSERVATION	BASED ON 16-06-2023 (0230 HRS IST)	
CURRENT LOCATION (LATITUDE/LONGITUDE)	SAURASHTRA-KUTCH NEAR <b>LATITUDE 23.5°N AND LONGITUDE 68.9°E</b> .	
(L/TITODE/LONGITODE)	<ul> <li>40 KM NORTHEAST OF JAKHAU PORT (GUJARAT),</li> <li>30 KM NORTH OF NALIYA</li> </ul>	
CURRENT INTENSITY NEAR CENTRE	90-100 KMPH GUSTING TO 110 KMPH	
FORECAST MOVEMENT AND INTENSITY	IT WOULD MOVE NORTHEASTWARDS AND WEAKEN INTO A CYCLONIC STORM BY EARLY MORNING OF 16 <sup>TH</sup> JUNE OVER SAURASHTRA-KUTCH WITH WIND SPEED OF 75-85 KMPH GUSTING 95 KMPH AND INTO A DEPRESSION BY THE EVENING OF 16 <sup>TH</sup> JUNE OVER SOUTH RAJASTHAN WITH WIND SPEED OF 40-50 KMPH GUSTING TO 60 KMPH.	

This is the last hourly bulletin for this system; however its National bulletin will continue.

Celsius IMD,DELHI



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF SEVERE CYCLONIC STORM "BIPARJOY" OVER SAURASHTRA & KUTCH BASED ON 1800 UTC (2330 IST) OF 15<sup>TH</sup> 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 № 120 KT)

LESS THAN 34 KT



34.47 KT



≥ 48 KT



OBSERVED TRACK



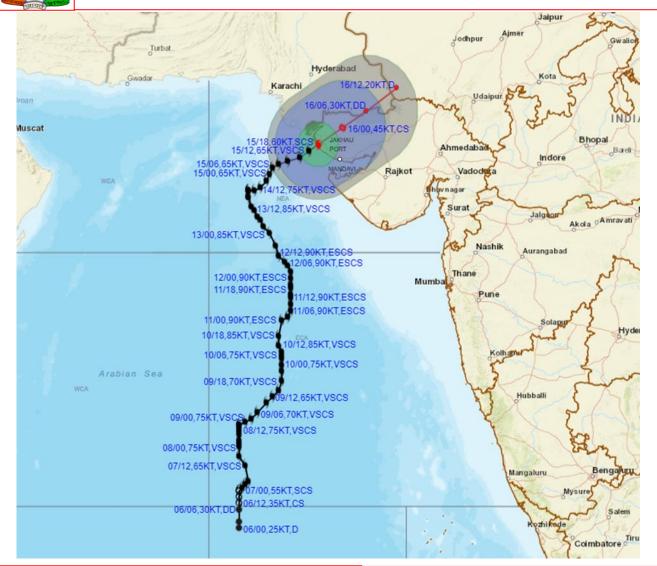
FORECAST TRACK



CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "BIPARJOY" OVER SAURASHTRA & KUTCH BASED ON 1800 UTC (2330 IST) OF 15<sup>TH</sup> JUNE 2023.



DATE/TIME IN UTC IST=UTC + 0530

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Sucs: SUPER CYCLONIC STORM @ 120 KT)

LESS THAN 34 KT

6 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

