

## India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON VERY SEVERE CYCLONIC STORM 'BIPARJOY'

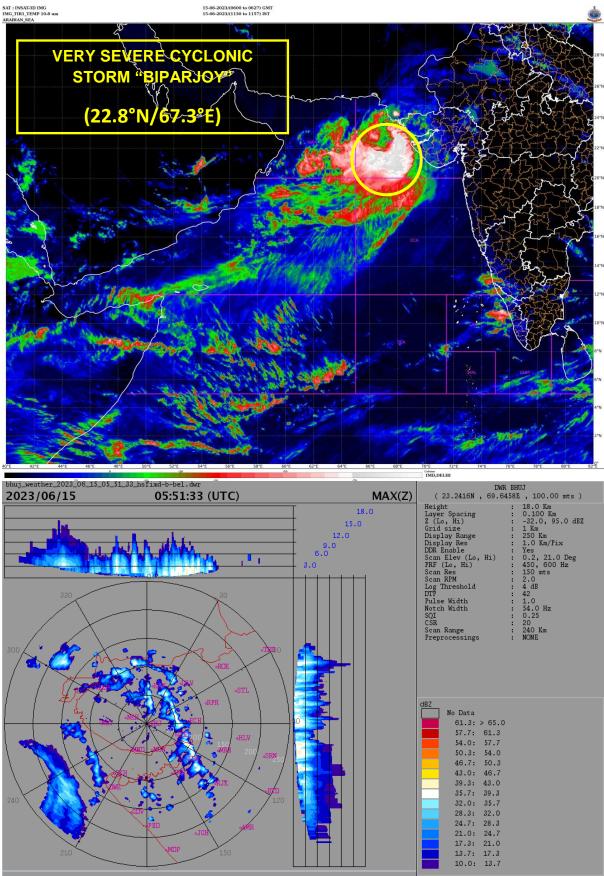
## **BULLETIN NO. 01**

DATE: 15-06-2023

TIME OF ISSUE: 1245 HRS IST

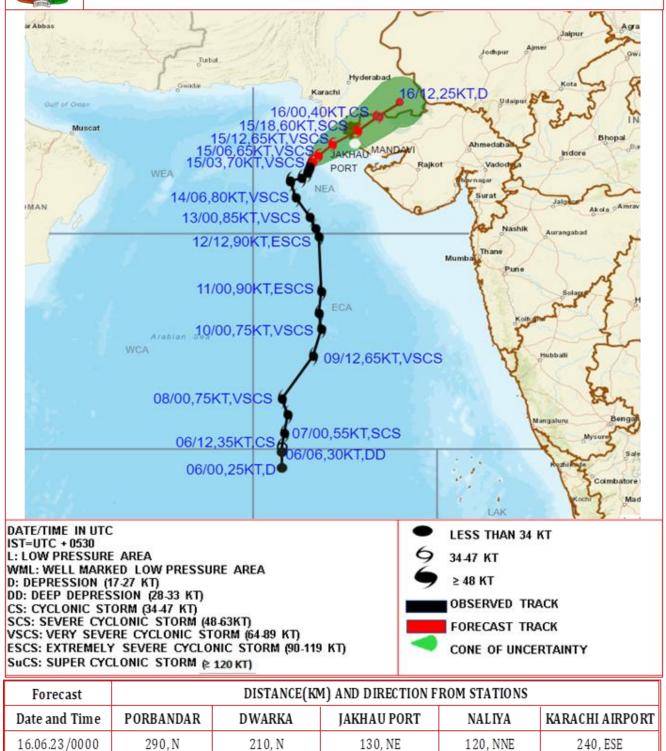
DATE/TIME (IST) OF OBSERVATION	BASED ON 15-06-2023 (1130 HRS IST)		
CURRENT LOCATION (LATITUDE/LONGITUDE)	NORTHEAST ARABIAN SEA NEAR LATITUDE 22.8°N AND LONGITUDE 67.3°E, • 140 KM WEST-SOUTHWEST OF JAKHAU PORT (GUJARAT), • 190 KM WEST-NORTHWEST OF DEVBHUMI DWARKA, • 170 KM WEST-SOUTHWEST OF NALIYA, • 280 KM WEST-NORTHWEST OF PORBANDAR • 230 KM SOUTH OF KARACHI (PAKISTAN)		
CURRENT INTENSITY NEAR CENTRE	120-130 KMPH GUSTING TO 145 KMPH		
REALIZED RAINFALL FROM 0830 HRS IST OF 15 <sup>TH</sup> JUNE (MM)	<ul><li>PORBANDAR-14;</li><li>NALIYA-11.</li></ul>		
CURRENT WIND SPEED OBSERVED ALONG SAURASHTRA & KUTCH (KMPH)	<ul> <li>NALIYA-28;BHUJ – 26;KANDLA - 32</li> <li>OKHA -30; DWARAKA – 36; PORBANDAR - 38</li> <li>VERAVAL -52; DIU - 48</li> </ul>		
PAST MOVEMENT	MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 07 KMPH DURING PAST 06 HOURS.		
LANDFALL FORECAST	<ul> <li>LANDFALL AREA: SAURASHTRA &amp; KUTCH AND ADJOINING PAKISTAN COASTS.</li> <li>LANDFALL POINT: BETWEEN MANDVI AND KARACHI NEAR JAKHAU PORT</li> <li>LANDFALL TIME: BY TONIGHT. LANDFALL PROCESS WILL COMMENCE FROM EVENING OF TODAY, THE 15TH JUNE AND WILL CONTINUE TILL MIDNIGHT.</li> <li>WIND DURING LANDFALL: 115-125 KMPH GUSTING TO 140 KMPH</li> </ul>		
FORECAST STORM SURGE	<ul> <li>2 -3 M ABOVE THE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE THE LOW LYING AREAS OF ABOVE DISTRICTS DURING THE TIME OF LANDFALL.</li> <li>NOTE: ASTRONOMICAL TIDES ALONG THESE DISTRICTS COULD BE UPTO 3-6 METERS IN DIFFERENT PLACES</li> </ul>		





Reflectivity imagery from Doppler weather Radar -Bhuj based on 1120 hrs IST of 15<sup>th</sup>June 2023.

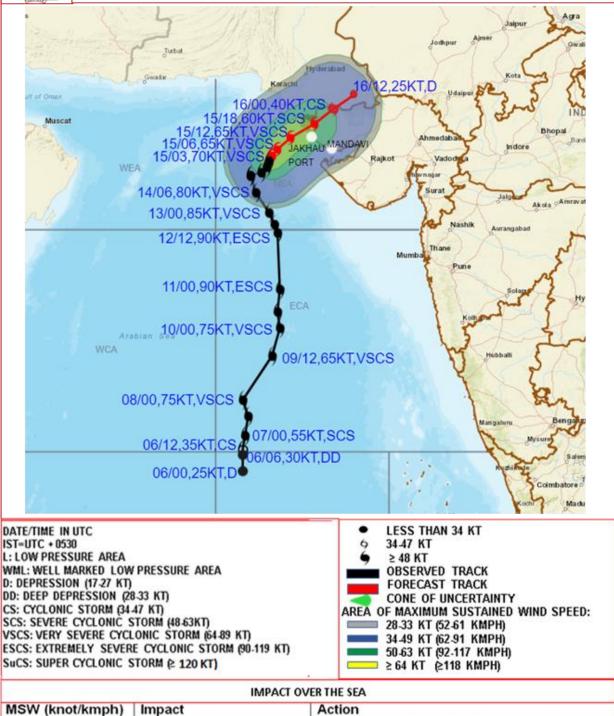




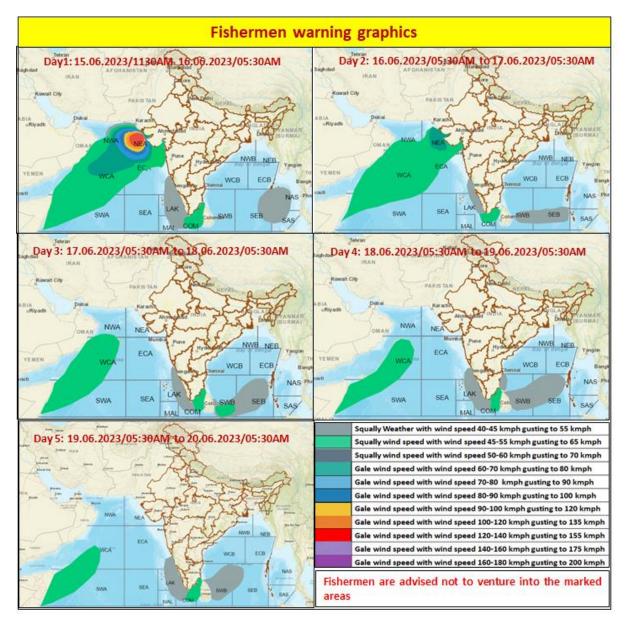
210, N

240, ESE

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER NORTHEAST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 15<sup>TH</sup> JUNE 2023.



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

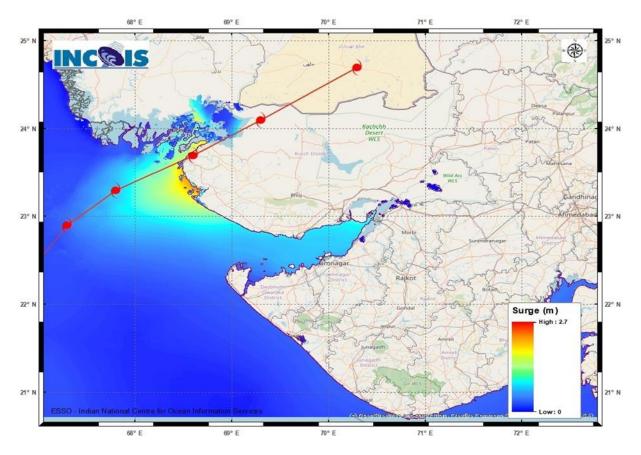


## **FISHERMEN WARNING GRAPHICS**

## **STORM SURGE HEIGHT INFORMATION:**

\* The below listed surge heights are over and above astronomical tide.

Astronomical Tide On 15 <sup>th</sup> June 2023				
Station	Time (IST)	Height (M)		
Porbandar	09:37	2.61		
Navlakhi	13:38	7.54		
Okha	11:36	3.74		
Deendayal Port (Kandla)	13:02	6.79		



Storm surge graphics from INCOIS for VSCS-Biparjoy