

# India Meteorological Department (Ministry of Earth Sciences)

## HOURLY UPDATE ON VERY SEVERE CYCLONIC STORM 'BIPARJOY'

### **BULLETIN NO. 06**

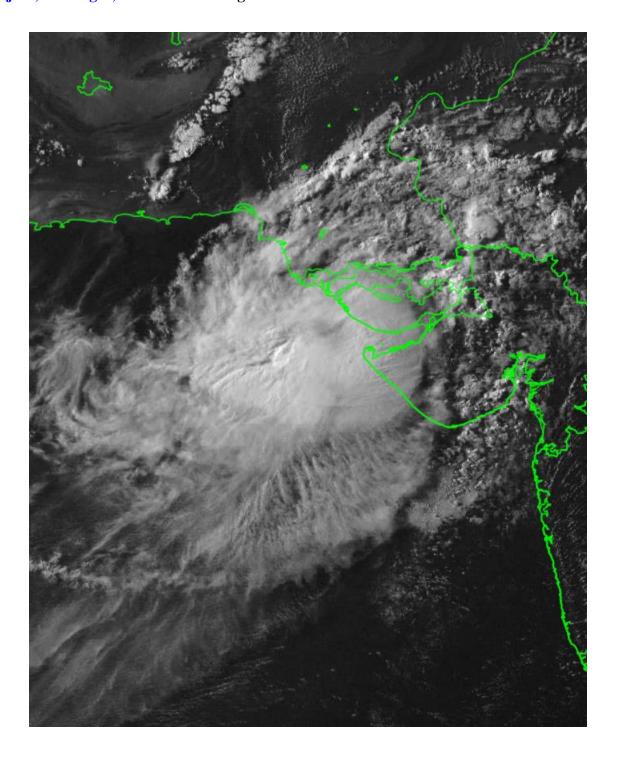
DATE: 15-06-2023 TIME OF ISSUE: 1715 HRS IST

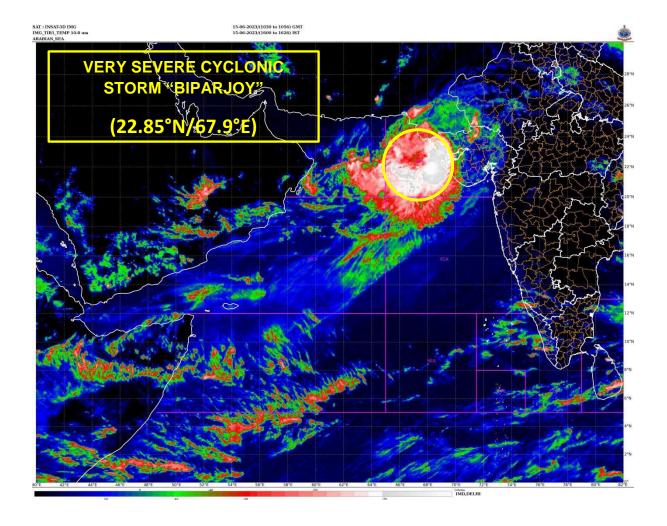
DATE/TIME (IST) OF	BASED ON 15-06-2023 (1630 HRS IST)			
OBSERVATION	BASED ON 15-00-2023 (1030 HKS 131)			
CURRENT LOCATION (LATITUDE/LONGITUDE)	NORTHEAST ARABIAN SEA NEAR LATITUDE 22.85°N AND LONGITUDE 67.9°E,  • 80 KM WEST-SOUTHWEST OF JAKHAU PORT (GUJARAT),  • 130 KM WEST-NORTHWEST OF DEVBHUMI DWARKA,  • 110 KM WEST-SOUTHWEST OF NALIYA,  • 240 KM SOUTH-SOUTHEAST OF KARACHI (PAKISTAN)  • WALL CLOUD REGION OF THE CYCLONE IS TOUCHING THE SAURASHTRA COAST.			
CURRENT INTENSITY NEAR CENTRE	120-130 KMPH GUSTING TO 145 KMPH			
REALIZED RAINFALL FROM 0830 HRS IST OF 15 <sup>TH</sup> JUNE (MM)	DWARKA-23;OKHA-19; NALIYA-32; BHUJ-61; PORBANDAR-28; KANDLA-30;			
CURRENT WIND SPEED OBSERVED ALONG SAURASHTRA & KUTCH (KMPH)	<ul> <li>DWARAKA – 48; OKHA -39; DIU – 52;</li> <li>NALIYA - 30; VERAVAL – 45; BHUJ - 34;</li> <li>PORBANDAR – 47; KANDLA -</li> </ul>			
PAST MOVEMENT	MOVED EAST-NORTHEASTWARDS WITH A SPEED OF 12 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>			

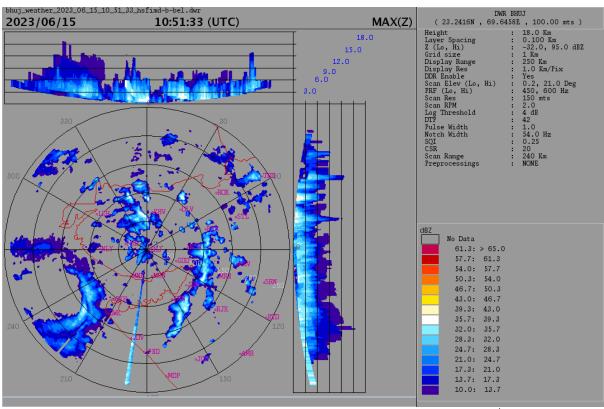
## **Nowcast issued:-**

Heavy rain/thundershower (15-20mm/h) accompanied with maximum surface wind speed 90-110 kmph (In gusts) very likely in the district of Gujarat State namely Kutch, Devbhoomi Dwarka, during next 1 hours.

Moderate rain/thundershower (05-15 mm/hour) accompanied with maximum surface wind speed between 65-75 kmph (In gusts) very likely in the district of Gujarat State namely Junagadh, Rajkot, Jamnagar, Porbandar during next 1 hours.



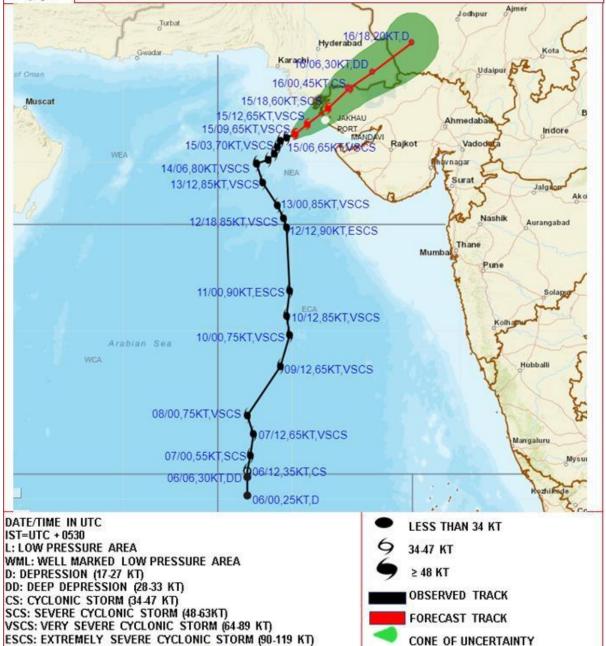




Reflectivity imagery from Doppler weather Radar -Bhuj based on 1620 hrs IST of 15<sup>th</sup> June 2023.



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER NORTHEAST ARABIAN SEA BASED ON 0900 UTC (1430 IST) OF 15<sup>TH</sup> JUNE 2023.

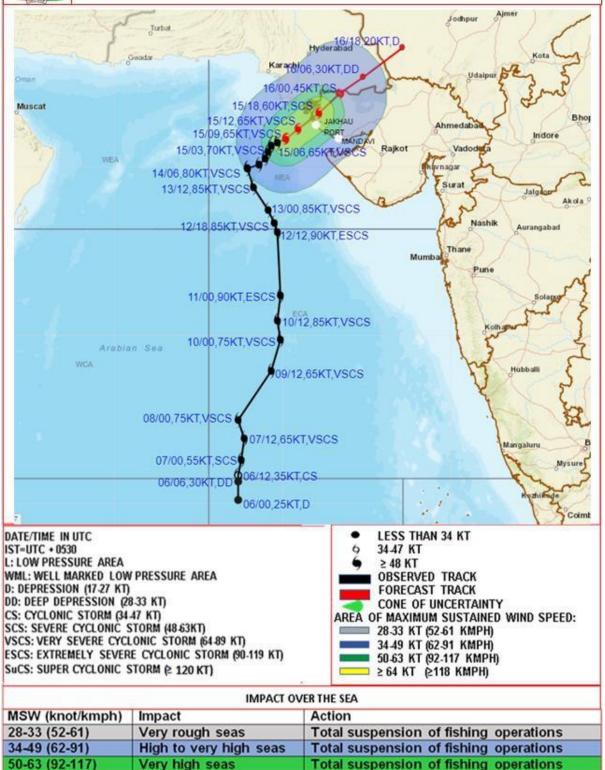


Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS			
Date and Time	NALIYA	JAKHAU PORT	DWARKA	KARACHI AIRPORT
16.06.23/0600	210, NE	230, NE	280, NNE	310, E

SuCS: SUPER CYCLONIC STORM € 120 KT)



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER NORTHEAST ARABIAN SEA BASED ON 0900 UTC (1430 IST) OF 15<sup>TH</sup> JUNE 2023.

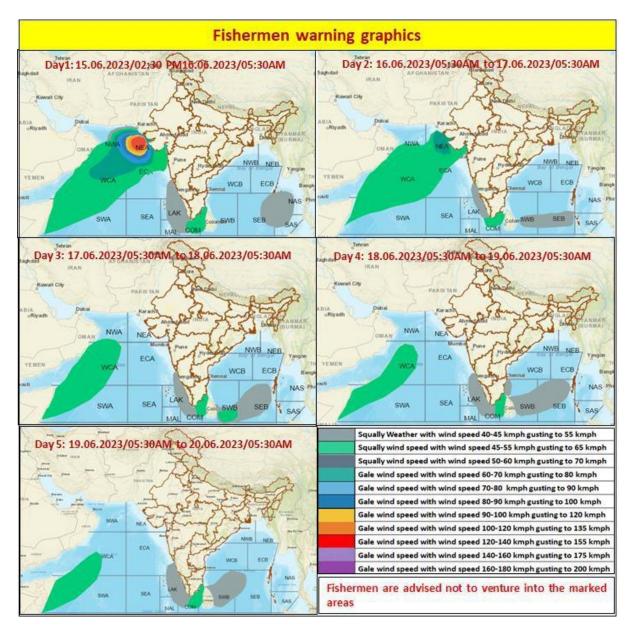


Total suspension of fishing operations

Phenomenal

≥ 64 (≥118)

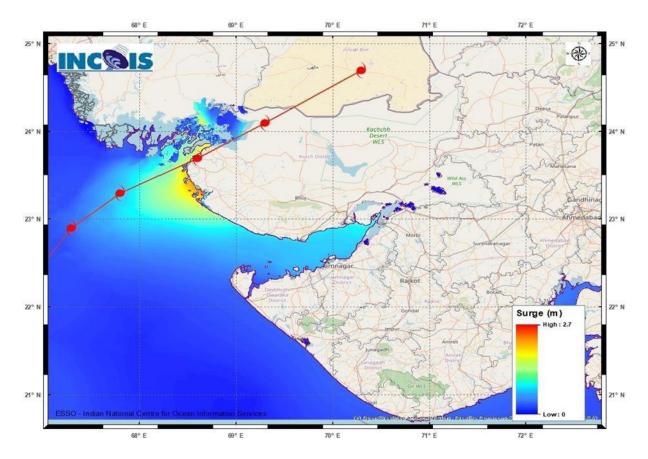
## FISHERMEN WARNING GRAPHICS



#### **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