

India Meteorological Department (Ministry of Earth Sciences)

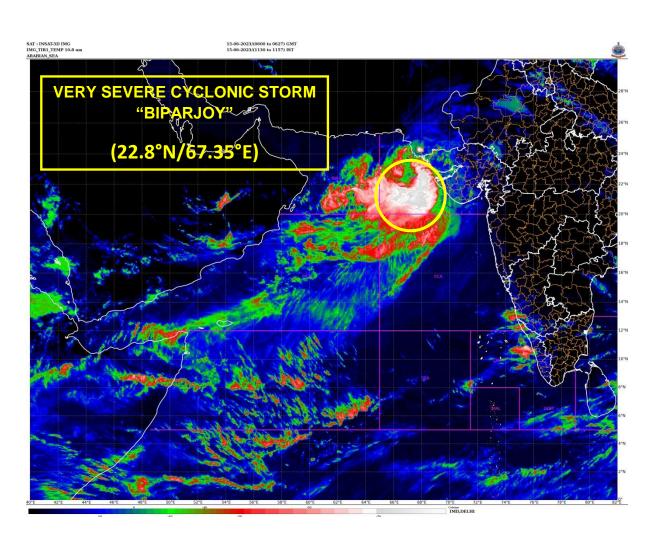
HOURLY UPDATE ON VERY SEVERE CYCLONIC STORM 'BIPARJOY'

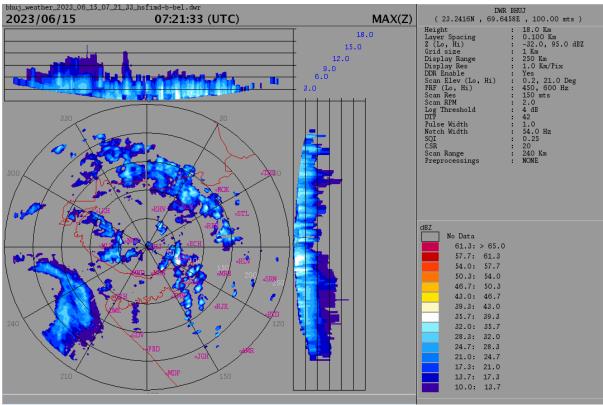
BULLETIN NO. 02

DATE: 15-06-2023

TIME OF ISSUE: 1400 HRS IST

DATE/TIME (IST) OF OBSERVATION	BASED ON 15-06-2023 (1230 HRS IST)			
CURRENT LOCATION (LATITUDE/LONGITUDE)	NORTHEAST ARABIAN SEA NEAR LATITUDE 22.8°N AND LONGITUDE 67.35°E, 135 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 TH JUNE (MM)	PORBANDAR-14;NALIYA-11.			
CURRENT WIND SPEED OBSERVED ALONG SAURASHTRA & KUTCH (KMPH)	 NALIYA-24;BHUJ – 26;KANDLA - 30 OKHA -30; DWARAKA – 40; PORBANDAR - 36 VERAVAL -56; DIU - 52 			
PAST MOVEMENT	MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 08 KMPH DURING PAST 06 HOURS.			
LANDFALL FORECAST	 LANDFALL AREA: SAURASHTRA & KUTCH AND ADJOINING PAKISTAN COASTS. LANDFALL POINT: BETWEEN MANDVI AND KARACHI NEAR JAKHAU PORT LANDFALL TIME: BY TONIGHT. LANDFALL PROCESS WILL COMMENCE FROM EVENING OF TODAY, THE 15TH JUNE AND WILL CONTINUE TILL MIDNIGHT. WIND DURING LANDFALL: 115-125 KMPH GUSTING TO 140 KMPH 			
FORECAST STORM SURGE	 2 -3 M ABOVE THE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE THE LOW LYING AREAS OF ABOVE DISTRICTS DURING THE TIME OF LANDFALL. NOTE: ASTRONOMICAL TIDES ALONG THESE DISTRICTS COULD BE UPTO 3-6 METERS IN DIFFERENT PLACES 			

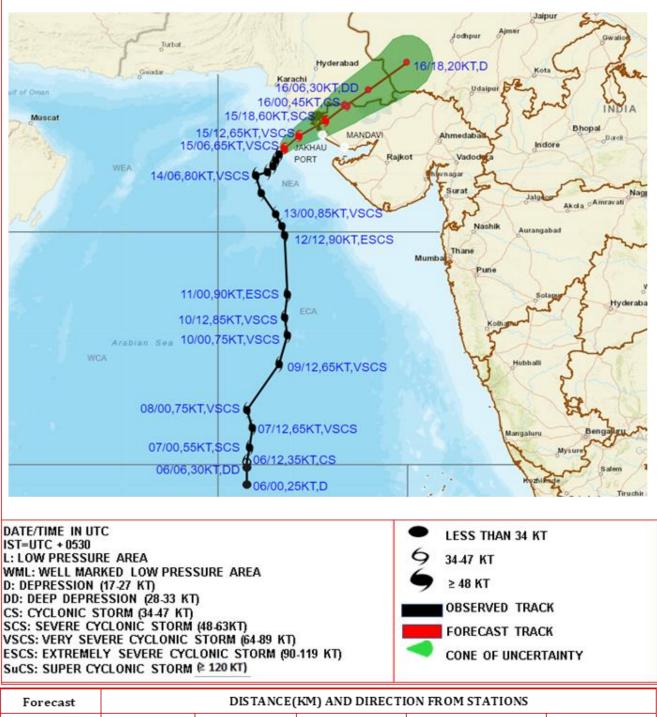




Reflectivity imagery from Doppler weather Radar -Bhuj based on 1250 hrs IST of 15thJune 2023.



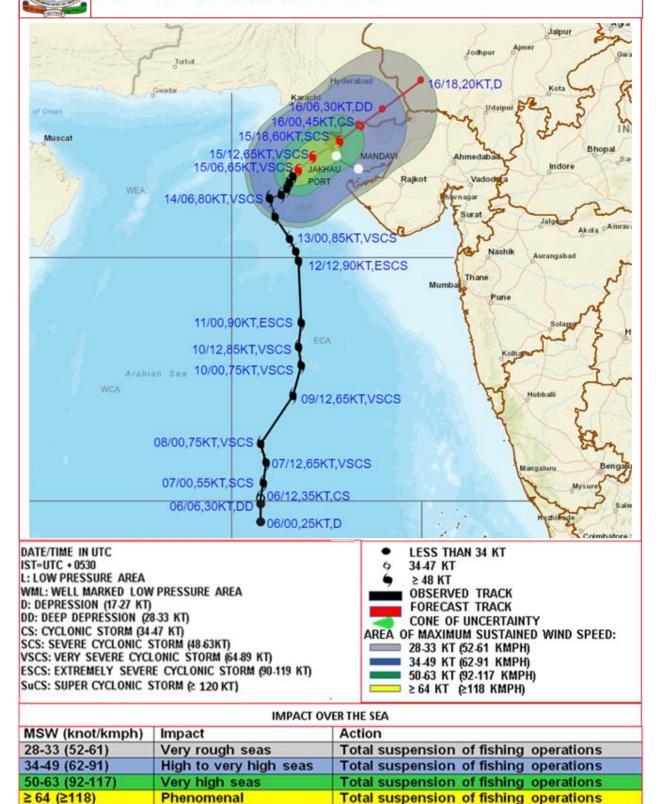
OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER NORTHEAST ARABIAN SEA BASED ON 0600 UTC (1130 IST) OF 15TH JUNE 2023.



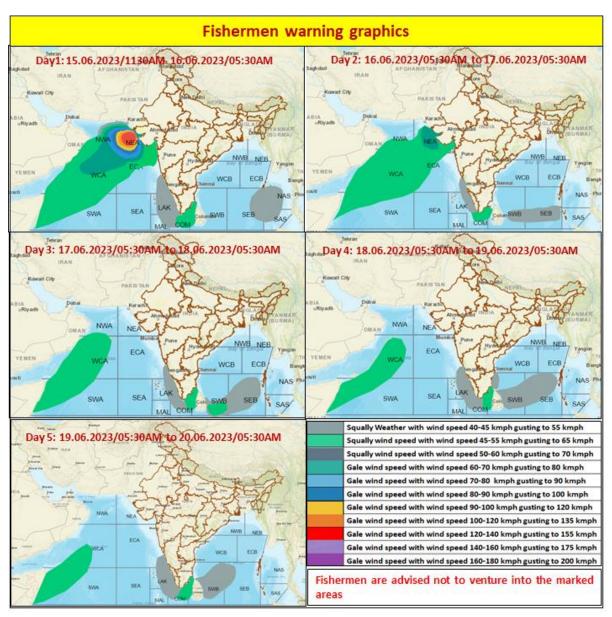
Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS				
Date and Time	NALIYA	JAKHAU PORT	DWARKA	KARACHI AIRPORT	PORBANDAR
16.06.23/0600	210, NE	230, NE	280, NNE	310, E	340, N

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER NORTHEAST ARABIAN SEA BASED ON 0600 UTC (1130 IST) OF 15TH JUNE 2023.

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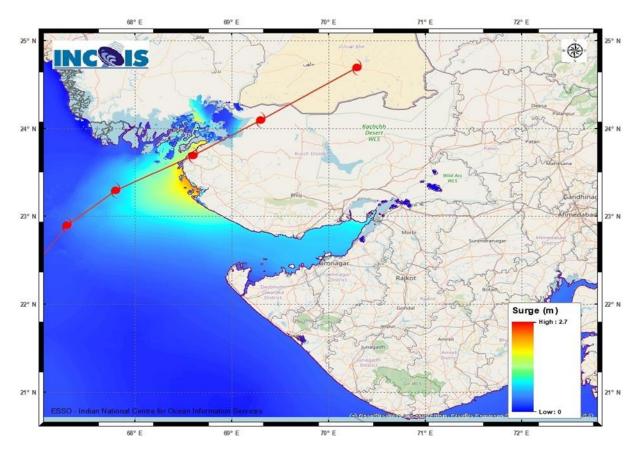
FISHERMEN WARNING GRAPHICS



STORM SURGE HEIGHT INFORMATION:

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

Astronomical Tide On 15 th 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