

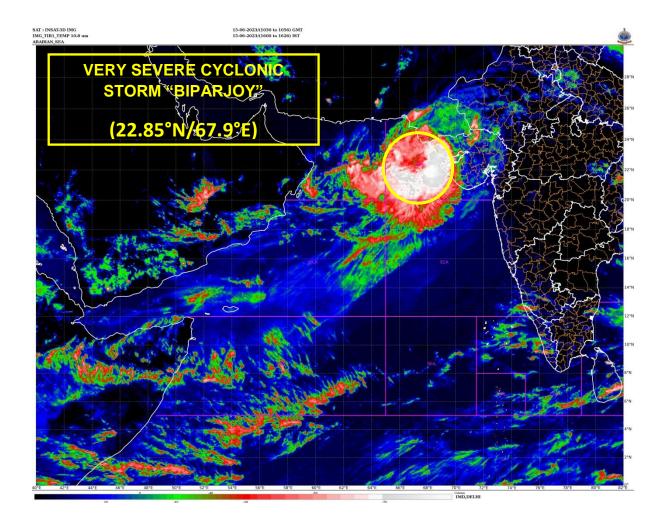
India Meteorological Department (Ministry of Earth Sciences)

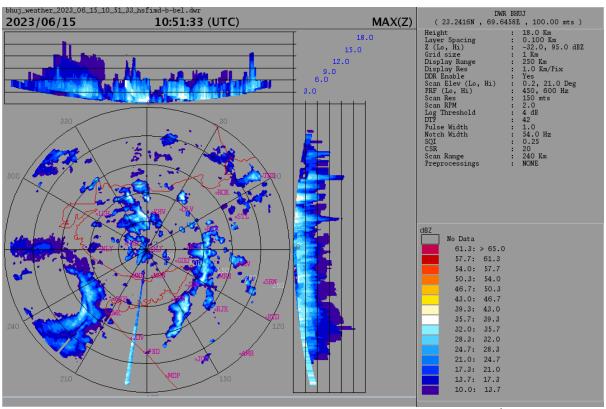
HOURLY UPDATE ON VERY SEVERE CYCLONIC STORM 'BIPARJOY'

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	,				
CURRENT LOCATION	NORTHEAST ARABIAN SEA NEAR LATITUDE 22.85°N AND				
(LATITUDE/LONGITUDE)	 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 CALL THE CAL				
	SAURASHTRA COAST.				
CURRENT INTENSITY	120-130 KMPH GUSTING TO 145 KMPH				
NEAR CENTRE REALIZED RAINFALL FROM	DWARKA-23;OKHA-19; NALIYA-32; BHUJ-61; PORBANDAR-28;				
0830 HRS IST OF 15 TH JUNE	KANDLA-30;				
(MM)	IVANULA-30,				
CURRENT WIND SPEED	• DWARAKA – 48; OKHA -39; DIU – 52;				
OBSERVED ALONG	• NALIYA - 30; VERAVAL – 45; BHUJ - 34;				
SAURASHTRA & KUTCH (KMPH)	PORBANDAR – 47; KANDLA - 34;				
PAST MOVEMENT	MOVED EAST-NORTHEASTWARDS WITH A SPEED OF 12 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.				
FORECAST STORM SURGE	WIND DURING LANDFALL: 115-125 KMPH GUSTING TO 140 KMPH 2 -3 M ABOVE THE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE				
I OKLOASI STOKWISOKGE	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				

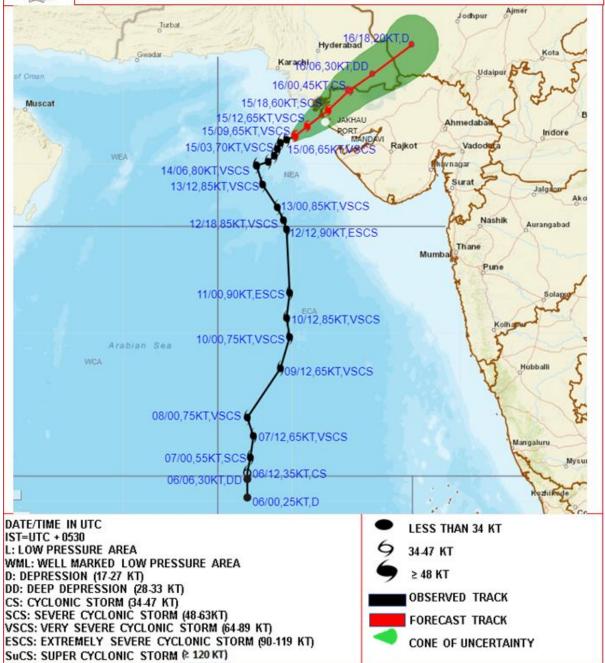




Reflectivity imagery from Doppler weather Radar -Bhuj based on 1620 hrs IST of 15th June 2023.



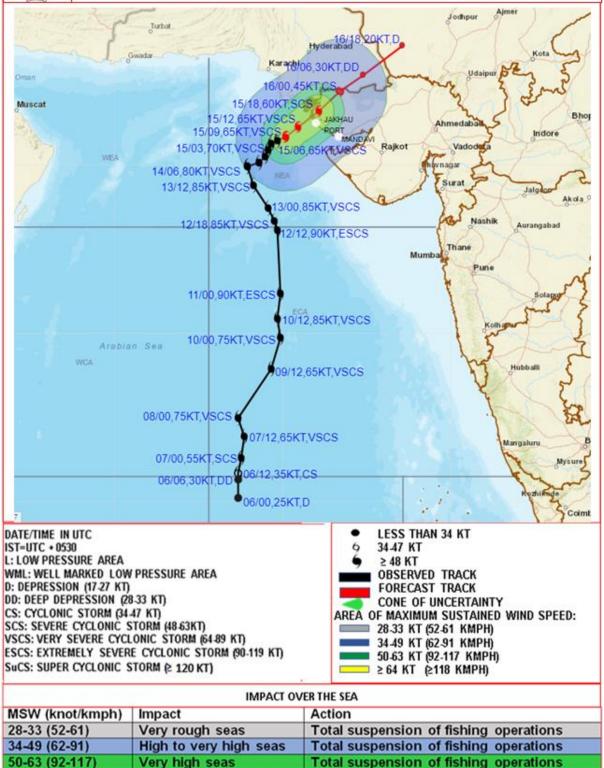
OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF VERY SEVERE CYCLONIC STORM "BIPARJOY" OVER NORTHEAST ARABIAN SEA BASED ON 0900 UTC (1430 IST) OF 15TH JUNE 2023.



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



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 15TH JUNE 2023.

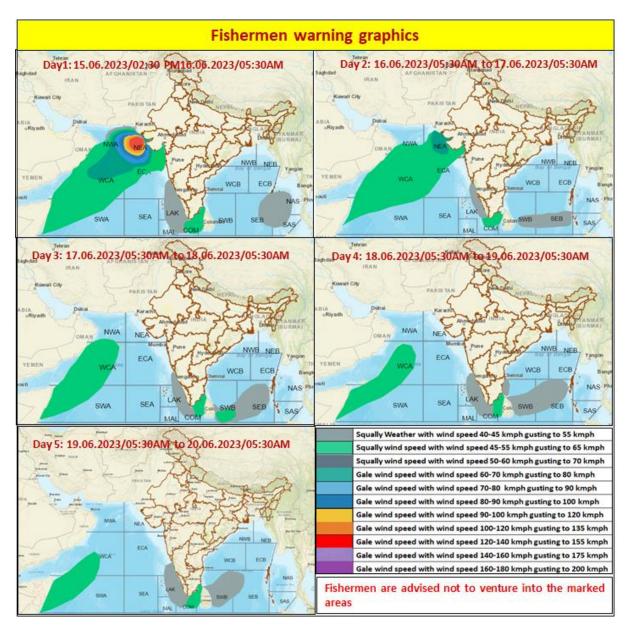


Total suspension of fishing operations

Phenomenal

≥ 64 (≥118)

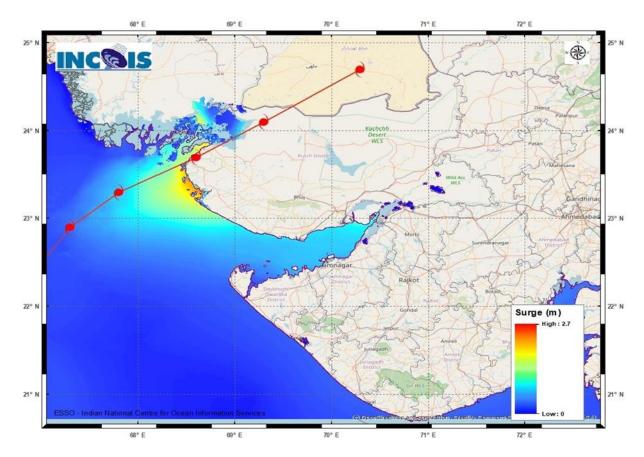
FISHERMEN WARNING GRAPHICS



STORM SURGE HEIGHT INFORMATION:

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

Astronomical Tide On 15 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