



**India Meteorological Department  
(Ministry of Earth Sciences)**

HOURLY UPDATE ON CYCLONIC STORM 'TAUKTAE' OVER SAURASHTRA

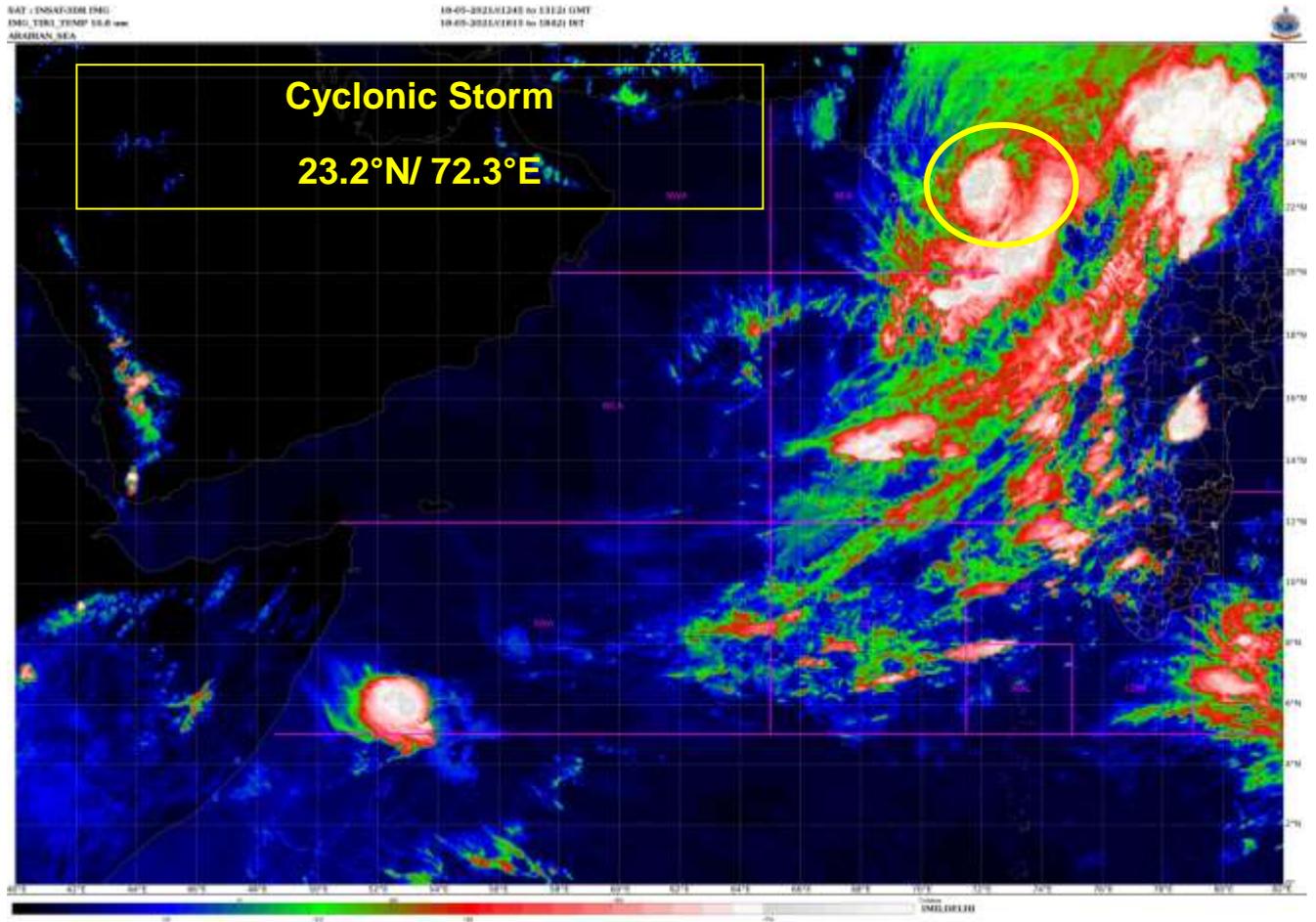
**BULLETIN NO. 33**

DATE: 18-05-2021

TIME OF ISSUE: 1950 HRS IST

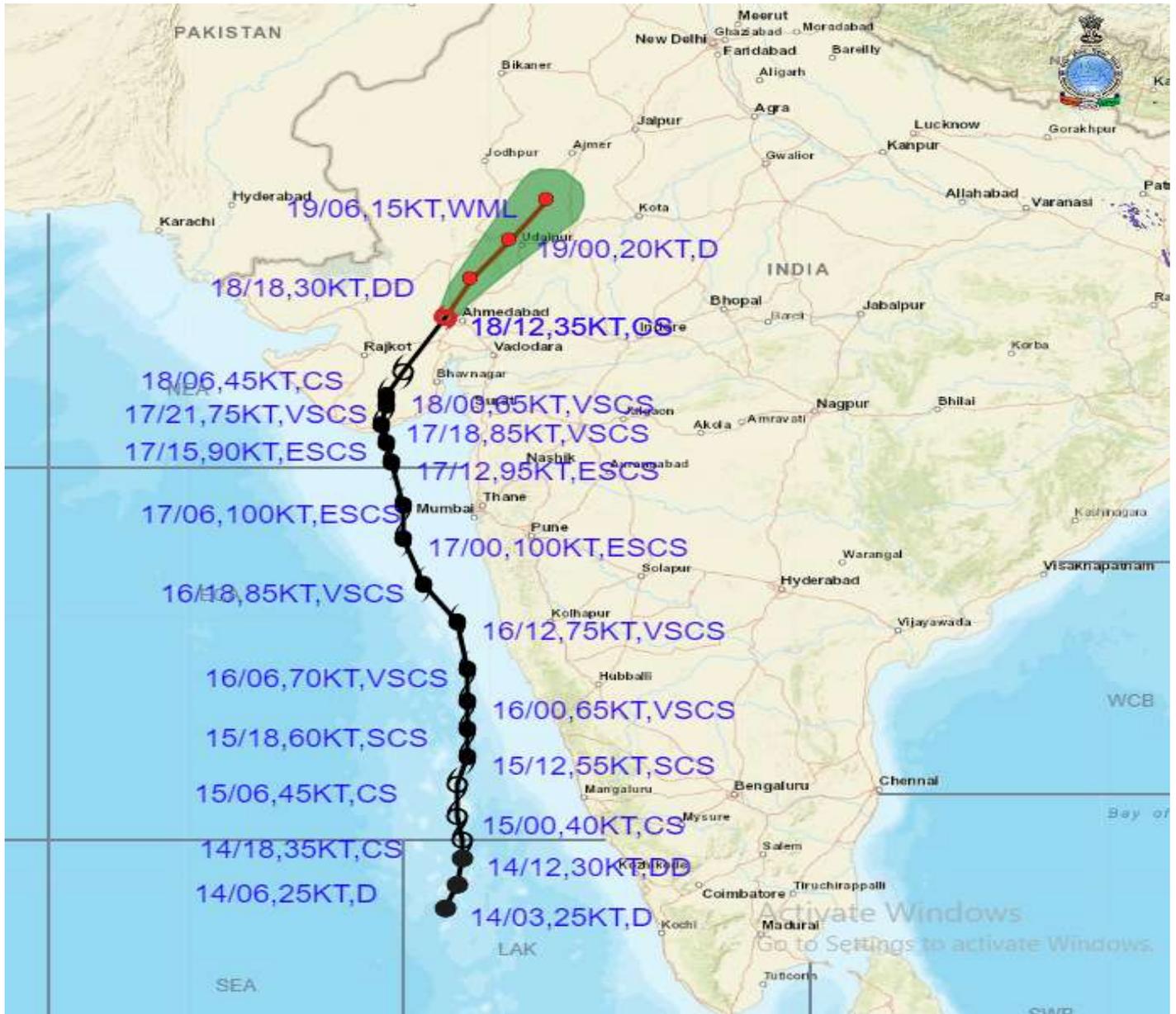
DATE/TIME (IST) OF OBSERVATION	BASED ON 18-05-2021 (1830 HRS IST)
LOCATION LATITUDE/LONGITUDE	<b>THE CYCLONIC STORM 'TAUKTAE' LAY CENTRED AT 1830 HRS IST OF 18<sup>TH</sup> MAY 2021 OVER SAURASHTRA, NEAR LAT. 23.2°N AND LONG. 72.3°E, ABOUT 40 KM WEST-NORTHWEST OF AHMEDABAD.</b>
CURRENT INTENSITY NEAR CENTRE	60-70 KMPH GUSTING TO 90 KMPH
PAST MOVEMENT	MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 23 KMPH DURING PAST 06 HOURS.
FORECAST MOVEMENT AND INTENSITY	IT WOULD FURTHER MOVE NORTH-NORTHEASTWARDS AND WEAKEN GRADUALLY INTO A DEEP DEPRESSION DURING NEXT 3 HOURS.
FORECAST RAINFALL	LIGHT TO MODERATE RAINFALL AT MANY PLACES WITH HEAVY TO VERY HEAVY FALLS AT ISOLATED PLACES OVER GUJARAT REGION AND ADJOINING SAURASHTRA ON 18 <sup>TH</sup> MAY.
FORECAST WIND SPEED (KMPH)	<p>GALE WIND SPEED REACHING 60-70 KMPH GUSTING TO 80 KMPH IS LIKELY TO PREVAIL OVER GULF OF KHAMBAT &amp; ADJOINING NORTHEAST ARABIAN SEA DURING NEXT FEW HOURS. IT IS LIKELY TO REDUCE GRADUALLY THEREAFTER.</p> <p>GALE WINDS SPEED REACHING 60-70 KMPH GUSTING TO 80 KMPH LIKELY TO PREVAIL OVER SURENDRANAGAR, RAJKOT, ANAND, AHMEDABAD: 45-55 KMPH GUSTING TO 65 KMPH OVER AMRELI, BHAVNAGAR, BOTAD, DIU, GIR SOMNATH, JUNAGARH, KHEDA, BHARUCH, JAMNAGAR, PORBANDAR &amp; MORBI DURING NEXT FEW HOURS AND GRADUALLY DECREASE THEREAFTER.</p> <p>SQUALLY WIND SPEED REACHING 40-50 KMPH GUSTING TO 60 KMPH LIKELY TO PREVAIL ALONG AND OFF DADRA, NAGAR HAVELI, DAMAN, VALSAD, NAVSARI, SURAT, DISTRICTS SQUALLY WIND SPEED REACHING 45-55 KMPH GUSTING TO 65 KMPH IS LIKELY TO PREVAIL OVER SOUTH RAJASTHAN FROM THE EVENING OF 18<sup>TH</sup> TILL 19<sup>TH</sup> EARLY MORNING.</p>

<p><b>REALISED WEATHER</b></p> <p>GUJARAT &amp; DIU</p>	<p><b>WIND REPORTED AT 1730 HOURS IST OF 18.05.2021:</b> SURAT: 22 KMPH, BHAVNAGAR: 39 KMPH, AHMEDABAD: 51 KMPH AND DEESA: 26 KMPH</p> <p><b>RAINFALL IN CM (REPORTED DURING 0830 HOURS IST TO 1730 HOURS IST OF 18.05.2021):</b> AHMEDABAD: 9, SURAT:4, BHAVNAGAR:11, VADODARA:6, SURENDRANAGAR:2</p>
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# OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM "TAUKTAE" OVER GUJARAT BASED ON 1200 UTC OF 18<sup>TH</sup> MAY, 2021



**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 ( $\geq$  120 KT)

● LESS THAN 34 KT

⊙ 34-47 KT

⊙  $\geq$  48 KT

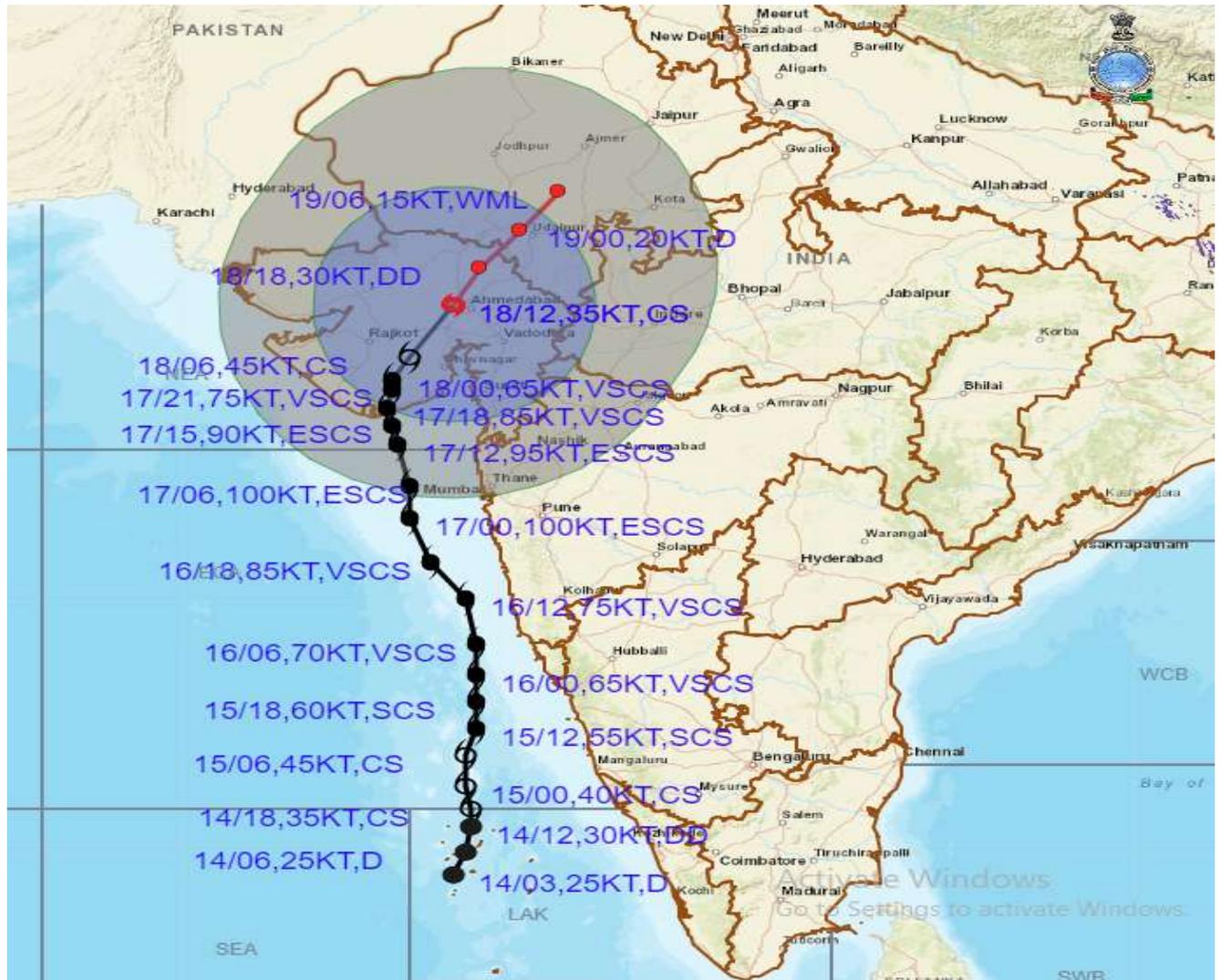
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



# OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "TAUKTAE" OVER GUJARAT BASED ON 1200 UTC OF 18TH MAY, 2021



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○ 34-47 KT

○  $\geq$  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)

■  $\geq$  64 KT ( $\geq$ 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
$\geq$ 64 ( $\geq$ 118)	Phenomenal	Total suspension of fishing operations

**HEAVY RAINFALL WARNING FOR GUJARAT STATE TILL 0830 HOURS IST OF 19<sup>TH</sup> MAY**



**HEAVY RAINFALL WARNING FOR GUJARAT STATE FROM 0830 HOURS IST OF 18<sup>TH</sup> TO 0830 HOURS IST OF 19<sup>TH</sup> MAY**

## WIND WARNING FOR GUJARAT STATE FOR NEXT 06 HOURS

