



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

HOURLY UPDATE ON CYCLONIC STORM 'TAUKTAE' OVER SAURASHTRA

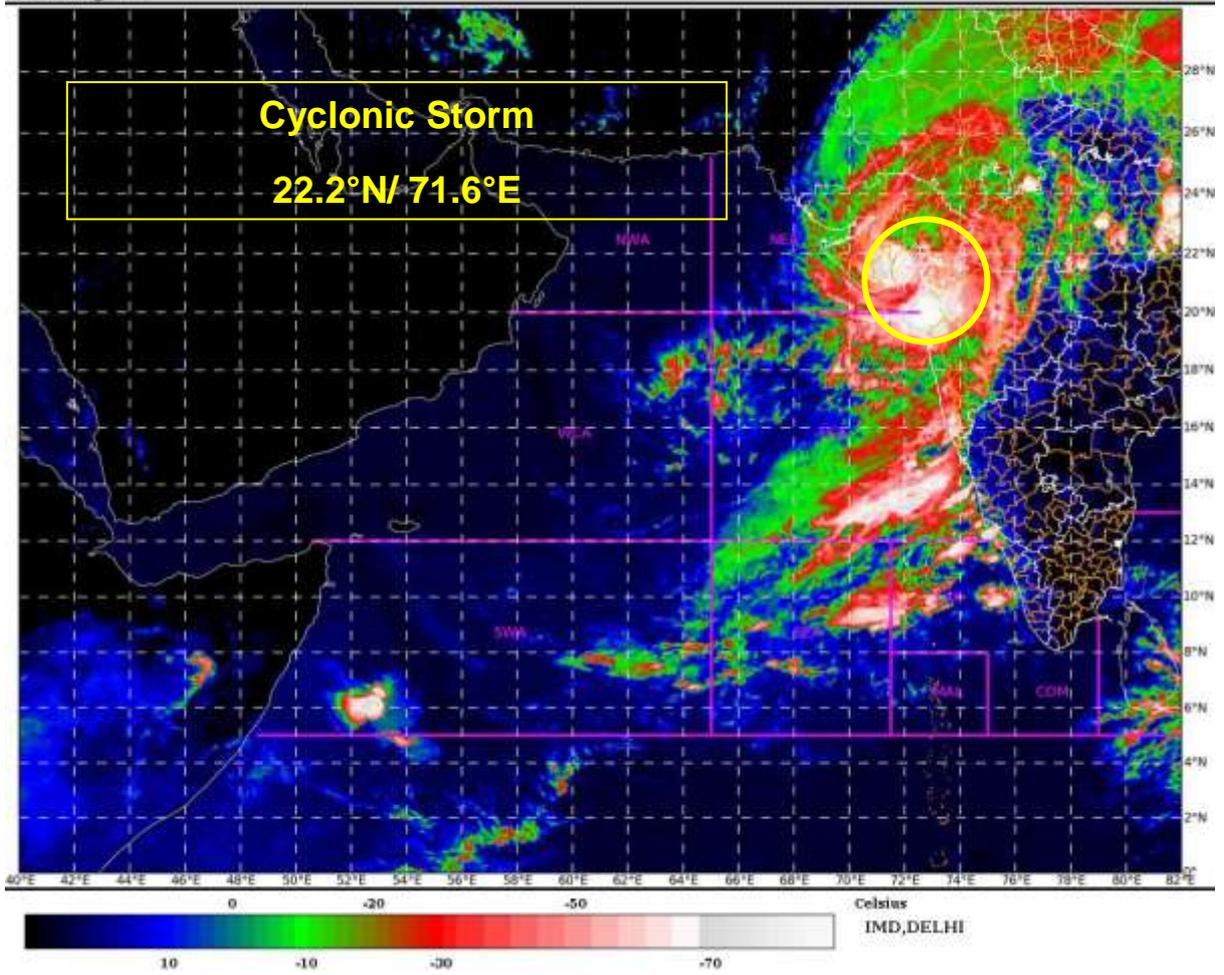
**BULLETIN NO. 28**

DATE: 18-05-2021

TIME OF ISSUE: 1430 HRS IST

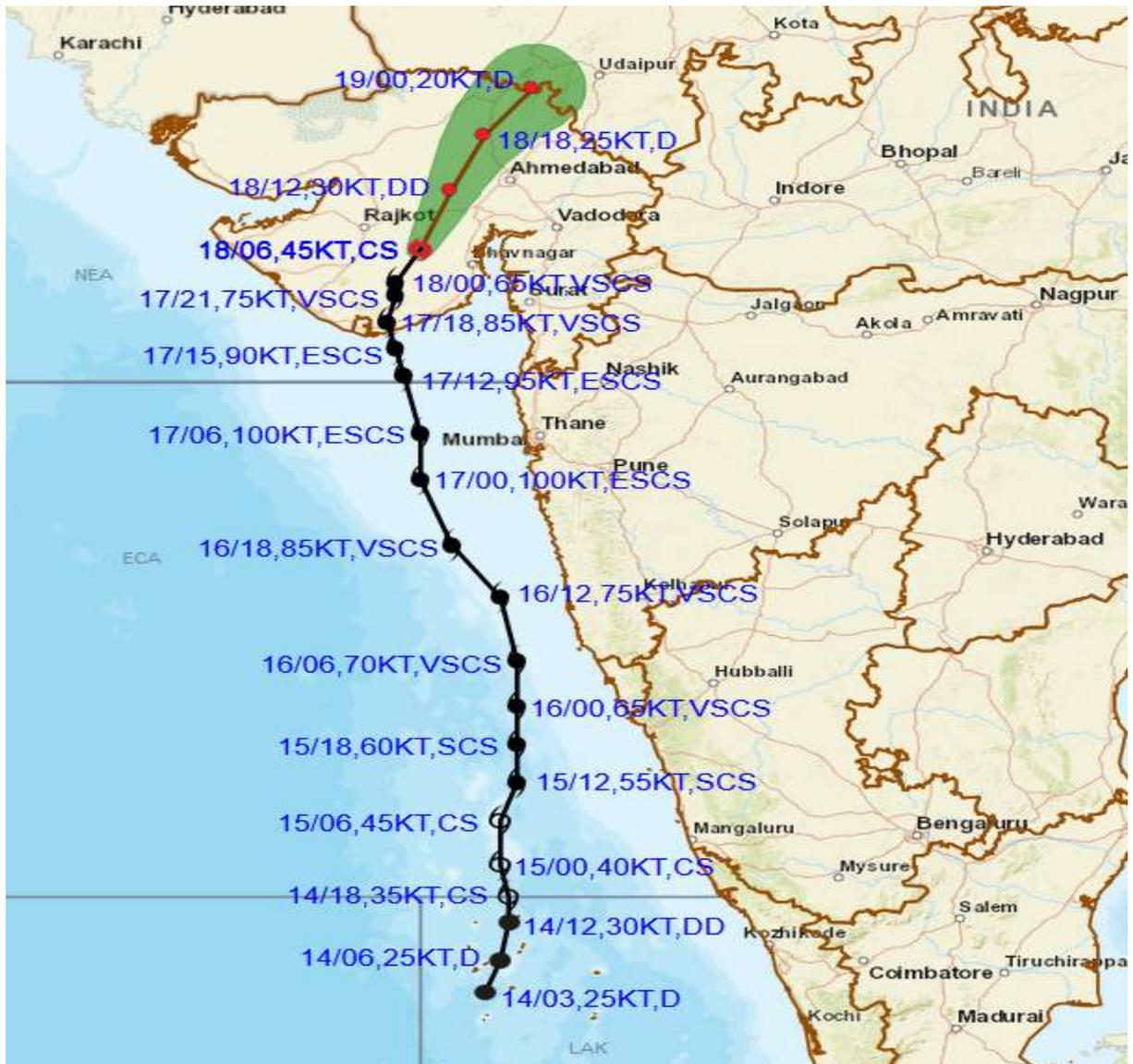
<b>DATE/TIME (IST) OF OBSERVATION</b>	<b>BASED ON 18-05-2021 (1330 HRS IST)</b>
LOCATION LATITUDE/LONGITUDE	<b>THE CYCLONIC STORM 'TAUKTAE' LAY CENTRED AT 1330 HRS IST OF 18<sup>TH</sup> MAY 2021 OVER SAURASHTRA, NEAR LAT. 22.2°N AND LONG. 71.6°E, ABOUT 140 KM SOUTHWEST OF AHMEDABAD, 60 KM SOUTH OF SURENDRANAGAR AND 75 KM NORTHEAST OF AMRELI.</b>
CURRENT INTENSITY NEAR CENTRE	75-85 KMPH GUSTING TO 95 KMPH
PAST MOVEMENT	MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 12 KMPH DURING PAST 06 HOURS.
FORECAST MOVEMENT AND INTENSITY	IT WOULD FURTHER MOVE NORTH-NORTHEASTWARDS AND WEAKEN GRADUALLY INTO A DEEP DEPRESSION DURING NEXT 06 HOURS.
FORECAST RAINFALL	LIGHT TO MODERATE RAINFALL AT MANY PLACES WITH HEAVY TO VERY HEAVY FALLS AT ISOLATED PLACES OVER GUJARAT REGION AND SAURASHTRA ON 18 <sup>TH</sup> MAY.
FORECAST WIND SPEED (KMPH)	<p>GALE WIND SPEED REACHING 80-90 KMPH GUSTING TO 100 KMPH IS LIKELY TO PREVAIL OVER GULF OF KHAMBAT &amp; ADJOINING NORTHEAST ARABIAN SEA DURING NEXT 06 HOURS. IT IS LIKELY TO REDUCE GRADUALLY THEREAFTER.</p> <p>SQUALLY WIND SPEED REACHING 40-50 GUSTING TO 60 KMPH ALONG &amp; OFF EXTREME NORTH MAHARASHTRA COAST DURING NEXT 06 HOURS.</p> <p>GALE WINDS SPEED REACHING 80-90 KMPH GUSTING TO 100 KMPH LIKELY TO PREVAIL OVER AMRELI, BHAVNAGAR, BOTAD, 70-80 KMPH GUSTING TO 90 KMPH OVER SURENDRANAGAR, RAJKOT, ANAND, SOUTH AHMEDABAD: 55-65 KMPH GUSTING TO 75 KMPH OVER DIU, GIR SOMNATH, JUNAGARH, KHEDA, BHARUCH, JAMNAGAR, PORBANDAR &amp; MORBI DURING NEXT 06 HOURS AND GRADUALLY DECREASE THEREAFTER.</p> <p>SQUALLY WIND SPEED REACHING 45-55 KMPH GUSTING TO 65</p>

	<p>KMPH LIKELY TO PREVAIL ALONG AND OFF DADRA, NAGAR HAVELI, DAMAN, VALSAD, NAVSARI, SURAT, DISTRICTS AND 35-45 KMPH GUSTING TO 55 KMPH OVER DEVBHOOMI DWARKA &amp; KUTCH DURING NEXT 06 HOURS AND GRADUALLY DECREASE THEREAFTER.</p> <p>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>
FORECAST STORM SURGE	<p>TIDAL WAVE ABOVE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE COASTAL AREAS DURING NEXT 03 HOURS, AS PER DETAILS BELOW:</p> <p>ABOUT 1-2 METER (M) OVER ANAND, AMRELI, GIR SOMNATH, DIU &amp; BHAVNAGAR, BHARUCH, SOUTHERN PARTS OF AHMEDABAD DURING NEXT 03 HOURS.</p>
REALISED WEATHER  GUJARAT & DIU	<p><b>WIND REPORTED AT 1230 HOURS IST OF 18.05.2021:</b> SURAT: 78 KMPH, BHAVNAGAR: 67 KMPH, RAJKOT: 42 KMPH AND PORBANDAR: 37 KMPH</p> <p><b>RAINFALL IN CM (REPORTED DURING 0830 HOURS IST OF 17.05.2021 TO 0830 HOURS IST OF 18.05.2021):</b> BAGASARA (AMRELI DISTT): 21.2 CM, SURAT- 9.3 CM, DIU: 8.6 CM, BHAVNAGAR: 7.8 CM, AMRELI – 12.5, GIR GADHADA (GIR SOMENATH)-18.5, UNA (GIR SOMENATH): 17.5 CM, UMERGAM (VALSAD): 18.3 CM, SAVARKUNDLA (AMRELI): 16.7 CM, PALITANA (BHAVNAGAR): 15.8 CM, AMRELI (AMRELI); 13..1 CM, MAHUA (BHAVNAGAR): 12.8 CM, RAJULA (AMRELI): 12.7; KHAMBHA (AMRELI): 12.7 CM, BABRA (AMRELI): 12.7 CM, GADHDA (BOTAD): 10.5 CM, VISAVDAR (JUNAGARH): 9.7 CM, UMRALA (BHAVNAGAR): 8.5 CM, DHARI (AMRELI): 7.2 CM, BHAVNAGAR (BHAVNAGAR): 7.1 CM, JESAR (BHAVNAGAR): 6.8 CM. .</p>





## OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM "TAUKTAE" OVER SAURASHTRA BASED ON 0600 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 (≥ 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY



## OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "TAUKTAE" OVER SAURASHTRA BASED ON 0600 UTC OF 18TH MAY, 2021



DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
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 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
 SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

● LESS THAN 34 KT  
 ○ 34-47 KT  
 ⊙ ≥ 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)  
 ■ ≥ 64 KT (≥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
≥ 64 (≥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

