

India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON SEVERE CYCLONIC STORM 'TAUKTAE' OVER SAURASHTRA

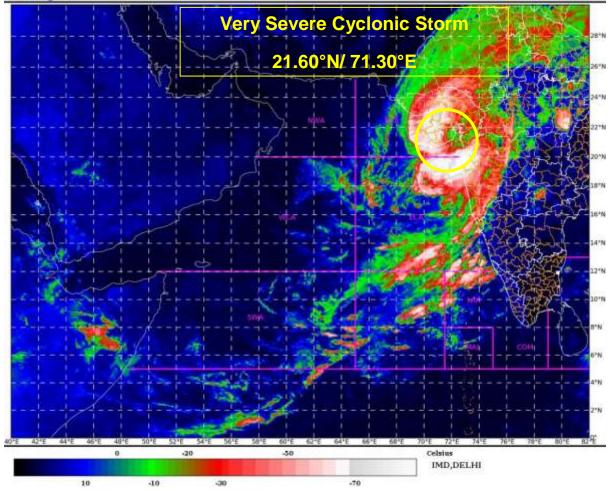
BULLETIN NO. 23

DATE: 18-05-2021 TIME OF ISSUE: 0950 HRS IST

DATE/TIME (IST) OF	BASED ON 18-05-2021 (0830 HRS IST)
OBSERVATION	
LOCATION	THE SEVERE CYCLONIC STORM 'TAUKTAE' LAY CENTRED AT
LATITUDE/LONGITUDE	0830 HRS IST OF 18 TH MAY 2021 OVER SAURASHTRA, NEAR
	LAT. 21.6°N AND LONG. 71.30°E, ABOUT 210 KM SOUTHWEST
	OF AHMEDABAD, 130 KM SOUTH-SOUTHWEST OF
	SURENDRANAGAR AND 10 KM EAST OF AMRELI.
CURRENT INTENSITY	105-115 KMPH GUSTING TO 125 KMPH
NEAR CENTRE	
PAST MOVEMENT	SEVERE CYCLONIC STORM 'TAUKTAE' MOVED NORTH-
	NORTHEAST WARDS WITH A SPEED OF 10 KMPH DURING
	PAST 06 HOURS.
FORECAST MOVEMENT	IT WOULD MOVE NORTH-NORTHEASTWARDS AND WEAKEN
AND INTENSITY	GRADUALLY INTO A CYCLONIC STORM DURING NEXT 03
AND INTENSITI	HOURS.
	HOUKS.
	LIGHT TO MODERATE RAINFALL AT MANY PLACES WITH
FORECAST RAINFALL	HEAVY TO VERY HEAVY FALLS AT ISOLATED PLACES OVER
FORECAST RAINFALL	GUJARAT REGION AND SAURASHTRA ON 18 TH MAY.
FORECAST WIND SPEED	GALE WINDS SPEED REACHING 105-115 KMPH GUSTING TO
(KMPH)	125 KMPH LIKELY TO PREVAIL ALONG & OFF GUJARAT COAST
	AMRELI, BHAVNAGAR, BOTAD; 90-110 KMPH GUSTING TO 120
	KMPH OVER DIU, GIR SOMNATH, JUNAGARH, KHEDA,
	BHARUCH, ANAND, SOUTH AHMEDABAD AND 60-70 KMPH
	GUSTING TO 80 KMPH OVER JAMNAGAR, PORBANDAR,
	RAJKOT & MORBI DURING NEXT 3 HOURS AND GRADUALLY
	DECREASE THEREAFTER.
	SQUALLY WIND SPEED REACHING 45-55 KMPH GUSTING TO 65
	KMPH LIKELY TO PREVAIL ALONG & OFF DADRA, NAGAR
	HAVELI, DAMAN, VALSAD, NAVSARI, SURAT, SURENDRA
	NAGAR AND RAJKOT DISTRICTS AND 40-50 KMPH GUSTING TO
	60 KMPH OVER DEVBHOOMI DWARKA & KUTCH TILL DURING
	NEXT 3 HOURS AND GRADUALLY DECREASE THEREAFTER.

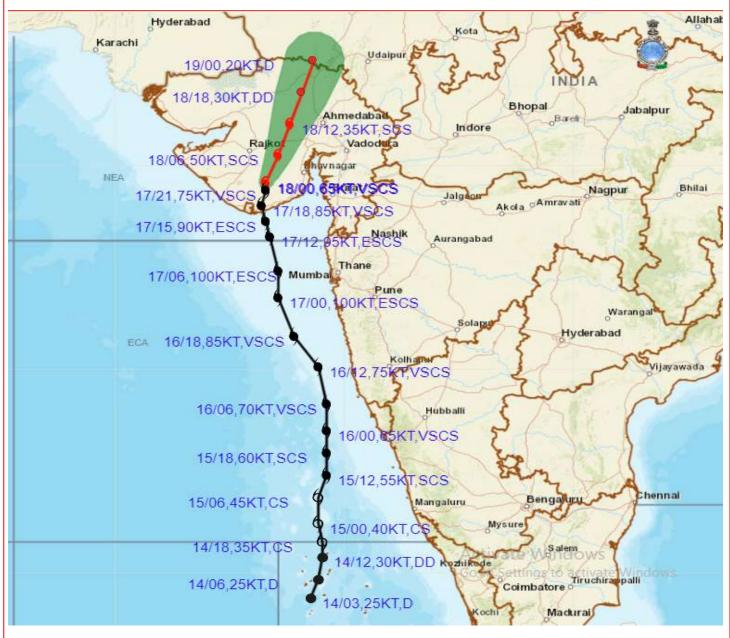
FORECAST STORM	TIDAL WAVE ABOVE ASTRONOMICAL TIDE IS LIKELY TO
SURGE	INUNDATE COASTAL AREAS DURING NEXT 03 HOURS, AS PER
	DETAILS BELOW:
	ABOUT 1-2 METER (M) OVER ANAND, AMRELI, GIR SOMNATH,
	DIU & BHAVNAGAR, BHARUCH, SOUTHERN PARTS OF
FORFOACT FOR	AHMEDABAD DURING NEXT 03 HOURS.
FORECAST FOR	ISOLATED HEAVY RAINFALL LIKELY OVER NORTH KONKAN DURING NEXT 06 HOURS.
COASTAL	SQUALLY WIND SPEED REACHING 45-55 GUSTING TO 65 KMPH
MAHARASHTRA	ALONG & OFF EXTREME NORTH MAHARASHTRA COAST AND
	SPEED REACHING 40-50 GUSTING TO 60 KMPH ALONG & OFF
	REMAINING PARTS OF NORTH MAHARASHTRA COAST DURING
	NEXT 03 HOURS.
REALISED WEATHER	WIND REPORTED AT 0830 HOURS IST OF 18.05.2021:
	BHAVNAGAR: 74 KMPH, AMRELI: 41 KMPH, SURAT: 46 KMPH,
	RAJKOT: 46 KMPH, KESHOD: 30 KMPH, PORBANDER: 44 KMPH
GUJARAT & DIU	AND SURAT: 52 KMPH.
	RAINFALL IN CM (REPORTED DURING 0830 HOURS IST OF 17.05.2021 TO 0830 HOURS IST OF 18.05.2021): 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): 131 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.







OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM "TAUKTAE" OVER SAURASHTRA BASED ON 0000 UTC OF 18TH MAY, 2021





L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

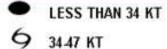
DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

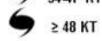
SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

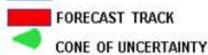
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM (2 120 KT)



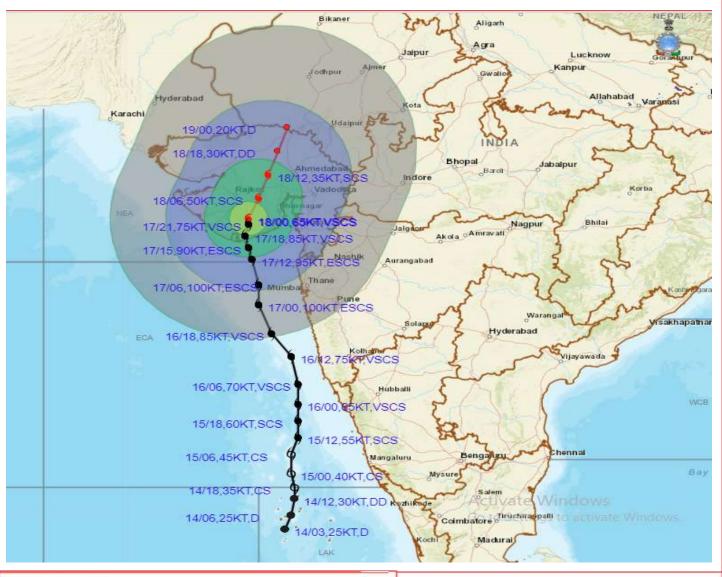








OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM "TAUKTAE" OVER SAURASHTRA BASED ON 0000 UTC OF 18TH MAY, 2021



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT) 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 AREA OF MAXIMUM SUSTAINED WIND SPEED:

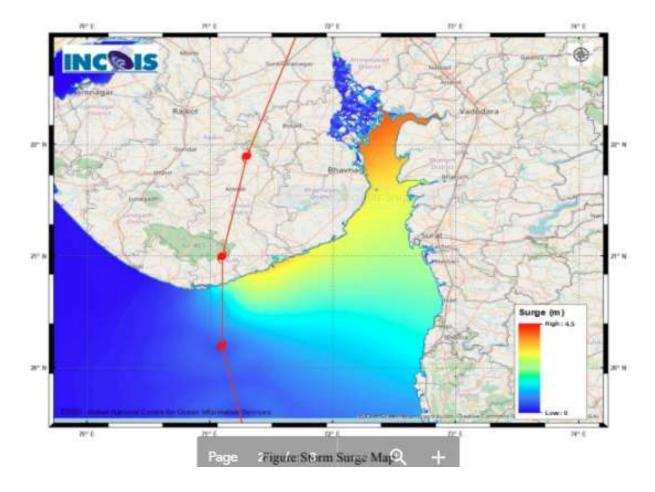
28-33 KT (52-61 KMPH)

34-49 KT (62-91 KMPH) 50-63 KT (92-117 KMPH)

≥ 64 KT (≥118 KMPH)

IMPACT OVE	KIHE SEA
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MSW (knot/kmph)	Impact	Action Total suspension of fishing operations		
28-33 (52-61)	Very rough seas			
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		



STORM SURGE GUIDANCE FROM INCOIS BASED ON 0530 HRS IST OBSERVATIONS

STORM SURGE HEIGHT INFORMATION:

Open with 🔻

* The below listed surge heights are over and above ast

MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m)	EXPECTED INUNDATION EXTENT (km)
Khambhat	Anand	Gujarat	Mitli	3.0-4.5	Upto 9.15
Bhavnagar	Bhavnagar	Gujarat	Narbad	3.0-4.2	Upto 2.90
Rajula	Amreli	Gujarat	Patva	2.1-3.8	Upto 1.08
Mundra	Bhavnagar	Gujarat	Vadgam	3.5-3.7	Upto 1.36
Jafarahad	Amreli	Gujarat	Rohisa	1.9-3.5	Upto 0.23
Vagra	Bharuch	Gujarat	Harinagar	1.8-3.4	Upto 0.88
Mahuva	Bhavnagar	Gujarat	Gadhada	1.6-3.3	Upto 0.31
Talaja	Bhavnagar	Gujarat	Talaja	1.6-3.2	Upto 0.39
Bharuch	Bharuch	Gujarat	Kasva	1.9-3	Upto 0.19
Hansot Mahal	Bharuch	Gujarat	Kantiyajal	1.7-3	Upto 4.41
Olpad	Surat	Gujarat	Vansva	2.1-2.7	Upto 1.16
Una	Junagadh	Gujarat	Una	0.8-2.7	Upto 0.56
Hazira	Surat	Gujarat	Hajira Ina (ina)	1.8-2.6	Upto 1.33
Chorasi	Surat	Gujarat	Bhimpor	0.8-2.5	Upto 2.31
Navsari	Navsari	Gujarat	Borsi	1.5-2.4	Upto 0.64
Gandevi.	Navsari	Gujarat	Mendhar	1.9-2.1	Upto 1.26
Valsad	Valsad	Gujarat	Malvan	1.6-2.1	Upto 0.51
Daman	Daman	Daman and Diu	Daman	1.4-1.8	Upto 0.12
Umargam	Valsad	Gujarat	Umargam	1.6-1.7	Upto 0.21
Dahanu	Palghar	Maharashtra	Narpad	0.7-1.5	Upto 1.05
Palghar	Palghar	Maharashtra	Akkarputti	0.5-1.2	Upto 0.75
Diu	Diu	Daman and Diu	Diu	0.9-1.1	Upto 0.32
Vasai	Palghar	Maharashtra	Jalsar	0.6-1.1	Upto 1.13
Wada	Thane	Maharashtra	Juchandra	1.1-1.1	Upto 0.21
Borsad	Anand	Gujarat	Tithor	1.4-1.5	Upto 0.52
Alibag	Raigarh	Maharashtra	Ranjankhar Davali	0.3-0.9	Upto 1.90
Bombay	Mumbai City	Maharashtra	Greater Bombay	0.7-0.9	Nil
Kodinar	Gir Somnath	Gujarat	Chhara	0.4-0.8	Upto 0.32
Panvel	Raigarh	Maharashtra	Gavhan	0.7-0.8	Upto 0.72
Uran	Raigath	Maharashtra	Jasai	0.7-0.8	Upto 2.40
Murud	Raigarh	Maharashtra	Borli	0.5-0.7	Upto 0.21
Dapoli	Ratnagiri	Maharashtra	Tadachakond	0.4-0.5	Upto 0.11
Mandangarh	Ratnagiri	Maharashtra	Danda	0.4-0.5	Nil

HEAVY RAINFALL WARNING FOR GUJARAT STATE TILL 0830 HOURS IST OF 19TH MAY

