

# India Meteorological Department (Ministry of Earth Sciences)

# HOURLY UPDATE ON EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' OVER NORTHEAST & ADJOINING EASTCENTRAL ARABIAN SEA

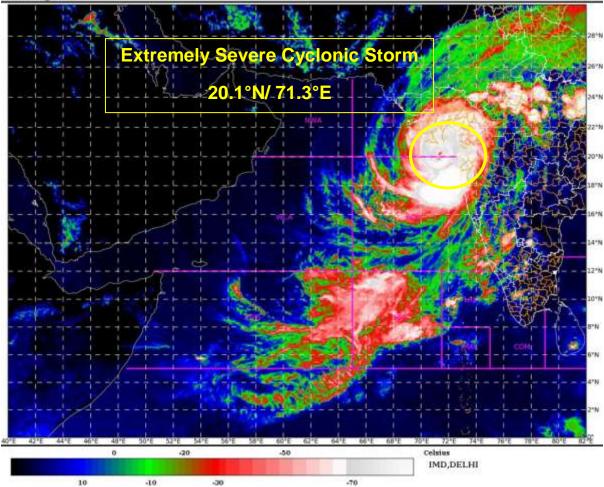
## **BULLETIN NO. 08**

DATE: 17-05-2021 TIME OF ISSUE: 1850 HRS IST

	DAGED ON 45 OF COOK (4500 UPO 105)	
DATE/TIME (IST) OF	BASED ON 17-05-2021 (1730 HRS IST)	
OBSERVATION	THE EVEDENCE V OF VEDE OVOLONIO OTODA (TALIKTAELLA)	
LOCATION	THE EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' LAY	
LATITUDE/LONGITUDE	CENTRED AT 1730 HRS IST OF TODAY, THE 17TH MAY 2021	
	OVER NORTHEAST & ADJOINING EASTCENTRAL ARABIAN	
	SEA, NEAR LAT. 20.1°N AND LONG. 71.3°E ABOUT	
	• 195 KM WEST-NORTHWEST OF MUMBAI	
	(MAHARASHTRA),	
	80 SOUTH-SOUTHEAST OF DIU	
CURRENT INTENSITY	170-180 KMPH GUSTING TO 200 KMPH	
NEAR CENTRE		
PAST MOVEMENT	EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' MOVED	
	NORTH-NORTHWESTWARDS WITH A SPEED OF 17 KMPH	
	DURING PAST 06 HOURS	
FORECAST MOVEMENT,	IT IS LIKELY TO MOVE NORTH-NORTHWESTWARDS AND	
INTENSITY AND	ROSS GUJARAT COAST BETWEEN PORBANDAR & MAHUVA	
LANDFALL	(BHAHVNAGAR DISTRICT) EAST OF DIU DURING THE NIGHT	
	(2000- 2300 IST) OF 17 <sup>TH</sup> MAY WITH MAXIMUM SUSTAINED	
	WIND SPEED OF 155-165 KMPH GUSTING TO 185 KMPH.	
	LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH	
FORECAST RAINFALL	HEAVY TO VERY HEAVY FALLS AT A FEW PLACES AND	
	EXTREMELY HEAVY FALLS AT ISOLATED PLACES VERY LIKELY	
	OVER SAURASHTRA, DIU AND ADJOINING GUJARAT REGION	
	ON 17 <sup>TH</sup> & HEAVY TO VERY HEAVY FALLS AT A FEW PLACES	
	OVER GUJARAT REGION AND HEAVY TO VERY HEAVY FALLS	
	AT ISOLATED PLACES OVER SAURASHTRA ON 18 <sup>TH</sup> MAY.	
	ISOLATED HEAVY TO VERY HEAVY RAINFALL ALSO LIKELY	
	OVER KUTCH DURING THE SAME PERIOD.	
FORECAST WIND SPEED	GALE WIND SPEED REACHING 70-80 KMPH GUSTING TO 90	
(KMPH)	KMPH IS PREVAILING ALONG AND OFF SOUTH GUJARAT &	
	DAMAN AND DIU COASTS. IT IS LIKELY TO INCREASE	
	BECOMING GALE WINDS SPEED REACHING 155-165 KMPH	
	GUSTING TO 185 KMPH ALONG & OFF GUJARAT COAST	
	(AMRELI, BHAVNAGAR) JUNAGARH, GIR SOMNATH AND 120 -	

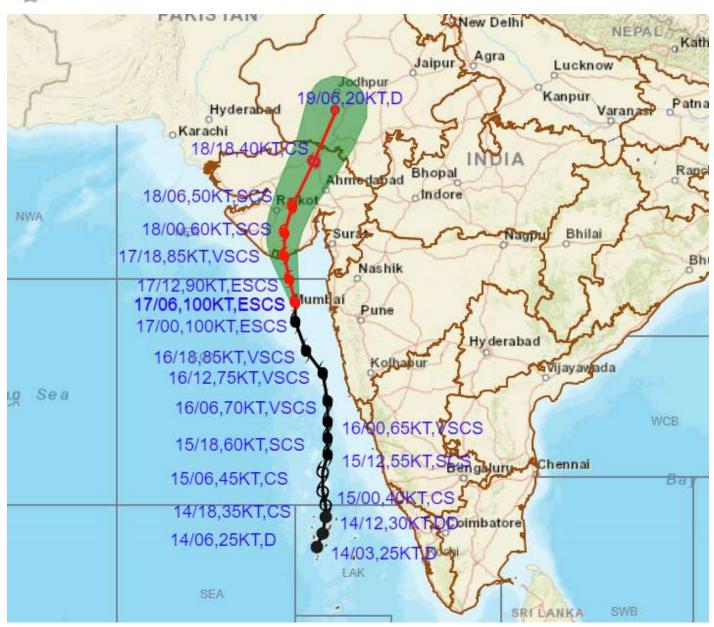
	TARGET AND TO THE TARGET AND THE PLANT AND THE
	140 KMPH GUSTING TO 165 KMPH OVER BHARUCH, ANAND,
	SOUTH AHMEDABAD, BOTAD, 90 -100 KMPH GUSTING TO 120
	KMPH OVER DEVBHOOMI DWARKA, JAMNAGAR, PORBANDAR,
	RAJKOT, MORBI, KHEDA DISTRICTS OF GUJARAT FROM TODAY
	EVENING TILL 18 <sup>TH</sup> EARLY MORNING. GALE WINDS SPEED
	REACHING 80-90 KMPH GUSTING TO 100 KMPH LIKELY TO
	PREVAIL ALONG & OFF DADRA, NAGAR HAVELI, DAMAN,
	VALSAD, NAVSARI, SURAT, SURENDRANAGAR, DISTRICTS
	FROM 17 <sup>TH</sup> EVENING TILL 18 <sup>TH</sup> MORNING.
FORECAST STORM	TIDAL WAVE ABOVE ASTRONOMICAL TIDE IS LIKELY TO
SURGE	INUNDATE COASTAL AREAS AS PER DETAILS BELOW:
	ABOUT 3 - 4 METER (M) OVER ANAND & AMRELI, GIR
	SOMNATH, DIU, BHAVNAGAR, 2-3 M OVER BHARUCH,
	SOUTHERN PARTS OF AHMEDABAD, 1-2 M OVER SURAT,
	NAVSARI, VALSAD, AND 0.5 - 1M OVER THE REMAINING
	COASTAL DISTRICTS OF GUJARAT DURING THE TIME OF
	LANDFALL.
REALISED WEATHER	HEAVY TO VERY HEAVY RAINFALL IS CONTINUING OVER
	NORTH KONKAN INCLUDING MUMBAI. IT WILL CONTINUE FOR
	NEXT 12 HRS.
COASTAL	RAINFALL REPORTED DURING 0830 TO 1430 HOURS IST OF
MAHARASHTRA	TODAY: MUMBAI (COLABA): 18.9 CM, SANTACRUZ: 19.4 CM,
	ALIBAG:10.5 CM AND DAHANU: 7.3 CM
	WIND REPORTED AT 1730 HOURS IST OF TODAY: ALIBAGH: 78
	KMPH, SANTACRUZ: 46 KMPH, DAHANU: 31 KMPH
REALISED WEATHER	RAINFALL HAS COMMENCED OVER COASTAL AREAS OF
	GUJARAT & DIU. IT IS LIKELY TO INCREASE FROM TONIGHT.
	WIND REPORTED AT 1730 HOURS IST OF TODAY: DIU: 40
GUJARAT & DIU	KMPH, PORBANDAR: 30 KMPH, BHAVNAGAR: 26 KMPH AND
	DWARKA: 22 KMPH
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# OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF EXTREMELY SEVERE CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 0600 UTC OF 17<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)

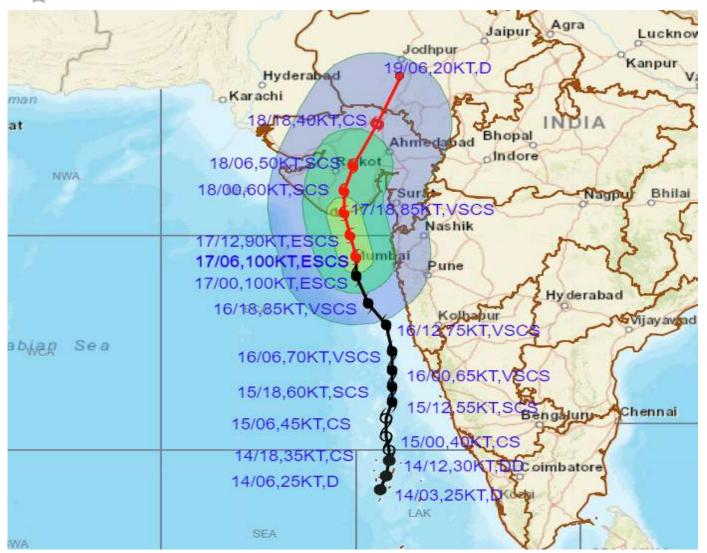
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM № 120 KT)





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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

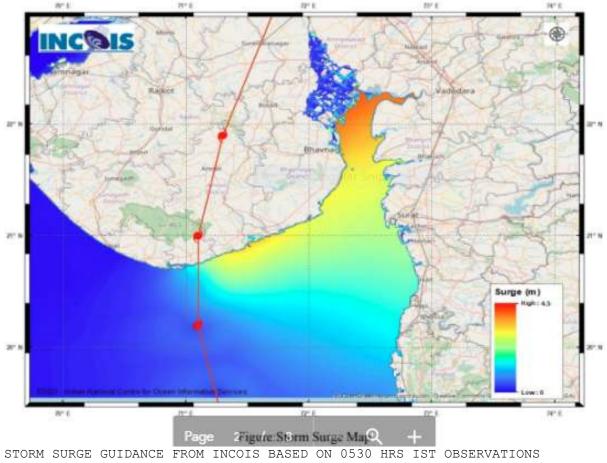
AREA OF MAXIMUM SUSTAINED WIND SPEED:

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

BOOM (Investigate to be a second					
MSW (knot/kmph)	Impact	Action			
28-33 (52-61)	Very rough seas High to very high seas	Total suspension of fishing operations			
34-49 (62-91)		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 HEIGHT INFORMATION:

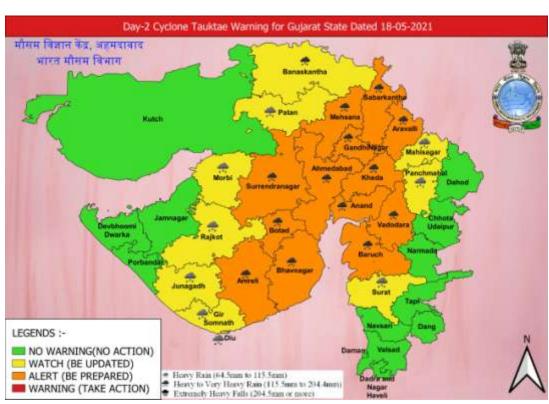
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\* The below listed surge heights are over and above ast

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	Duman 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	Raigath	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 FOR 17<sup>TH</sup> AND 18<sup>TH</sup> MAY





# WIND WARNING FOR GUJARAT STATE FROM 17<sup>TH</sup> NIGHT TO 18<sup>TH</sup> MAY

