

India Meteorological Department (Ministry of Earth Sciences)

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

BULLETIN NO. 10

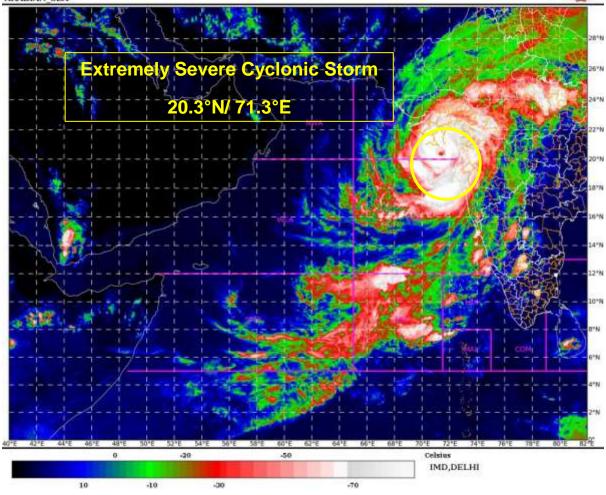
DATE: 17-05-2021 TIME OF ISSUE: 2030 HRS IST

DATE/TIME (IST) OF	BASED ON 17-05-2021 (1930 HRS IST)
OBSERVATION	
LOCATION	THE EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' LAY
LATITUDE/LONGITUDE	CENTRED AT 1930 HRS IST OF TODAY, THE 17TH MAY 2021
	OVER NORTHEAST & ADJOINING EASTCENTRAL ARABIAN
	SEA, NEAR LAT. 20.3°N AND LONG. 71.3°E ABOUT
	60 SOUTHEAST OF DIU
	• 205 KM WEST-NORTHWEST OF MUMBAI
	(MAHARASHTRA),
CURRENT INTENSITY	165-175 KMPH GUSTING TO 195 KMPH
NEAR CENTRE	
PAST MOVEMENT	EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' MOVED
	NORTH-NORTHWESTWARDS WITH A SPEED OF 175 KMPH
	DURING PAST 06 HOURS
FORECAST MOVEMENT,	OUTER CLOUD BAND LIES OVER SAURASHTRA. LANDFALL
INTENSITY AND	PROCESS STARTED AND WILL COMPLETE WITHIN 04 HOURS.
LANDFALL	THE SYSTEM IS LIKELY TO CONTINUE TO MOVE NORTH-
	NORTHWESTWARDS AND CROSS GUJARAT COAST BETWEEN
	PORBANDAR & MAHUVA (BHAHVNAGAR DISTRICT) EAST OF DIU 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 TH & 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 TH 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 - 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 TH 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 TH EVENING TILL 18 TH 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 1730 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
REALISED WEATHER	KMPH, SANTACRUZ: 46 KMPH, DAHANU: 31 KMPH RAINFALL HAS COMMENCED OVER COASTAL AREAS OF
KEALISED WEATHER	GUJARAT & DIU. IT IS LIKELY TO INCREASE FROM TONIGHT.
	WIND REPORTED AT 1930 HOURS IST OF TODAY: DIU: 92
GUJARAT & DIU	KMPH
GOUZINAT & DIO	IXIII II

SAT: INSAT-3D IMG IMG_TIR1_TEMP 10.8 um ARABIAN_SEA







OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF EXTREMELY SEVERE CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 1200 UTC OF 17TH 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)

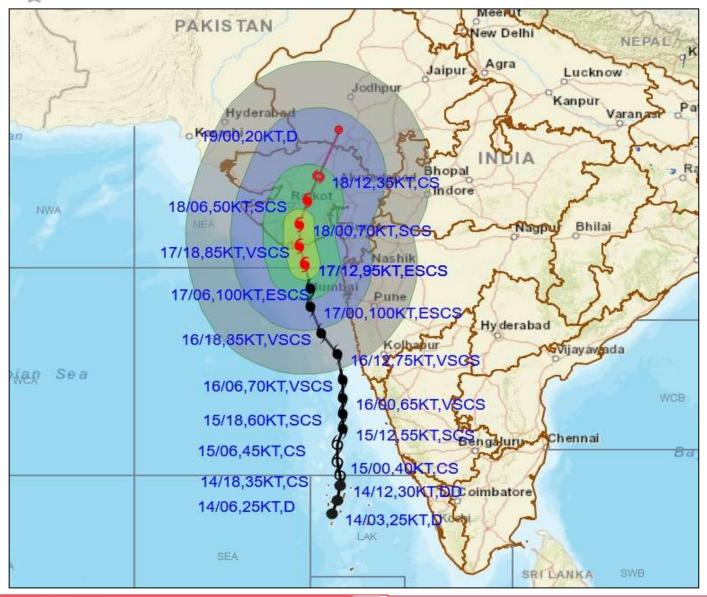
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM (2 120 KT)





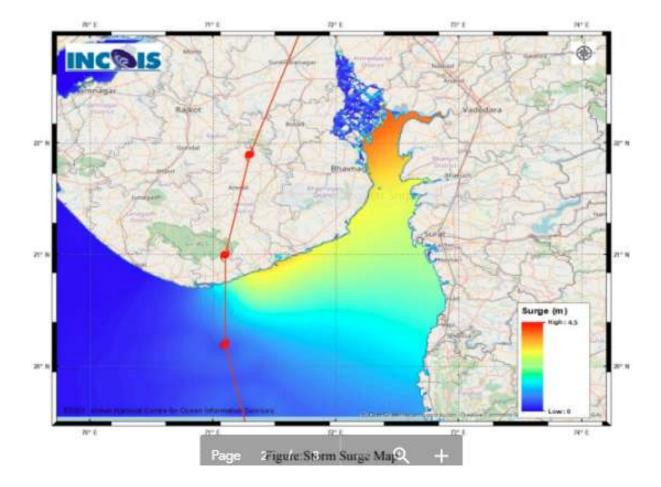
OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF EXTREMELY SEVERE CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 1200 UTC OF 17TH MAY, 2021





 LESS THAN 34 KT 	
6 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 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:

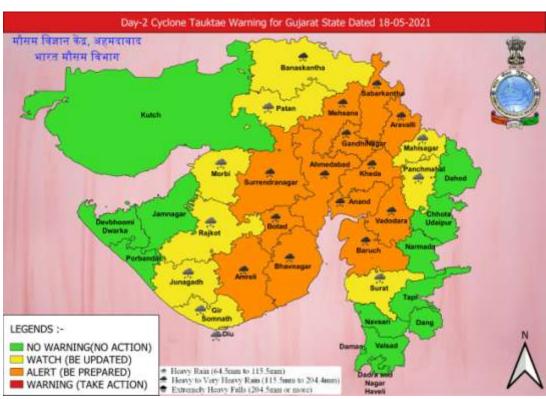
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* The below listed surge heights are over and above ast

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
Jafarabad	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
Hanset 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	Akkarpatti	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	Gujarnt	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 17TH AND 18TH MAY





WIND WARNING FOR GUJARAT STATE FROM 17TH NIGHT TO 18TH MAY

