

India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON EXTREMELY SEVERE CYCLONIC STORM '**TAUKTAE**' OVER EASTCENTRAL ARABIAN SEA

BULLETIN NO. 02

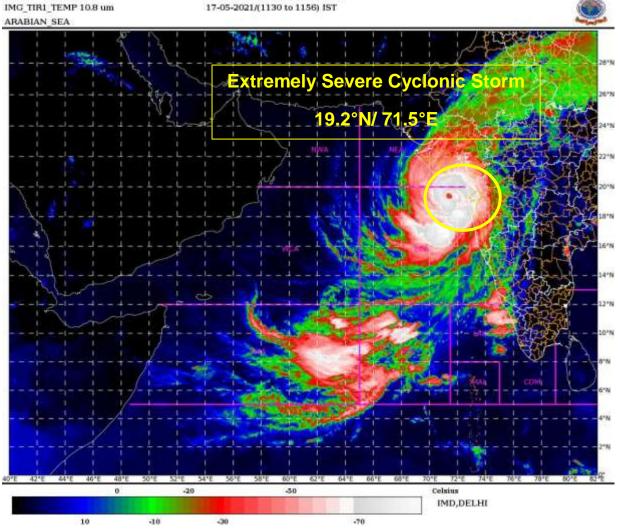
DATE: 17-05-2021

TIME OF ISSUE: 1230 hrs IST

DATE/TIME (IST) OF	Based on 17-05-2021 (1130 HRS IST)
OBSERVATION	
LOCATION	THE EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE'
LATITUDE/LONGITUDE	LAY CENTRED AT 1130 HRS IST OF TODAY, THE 17TH MAY
	2021, NEAR LAT.19.2°N AND LONG. 71.5°E ABOUT
	• 145 KM WEST OF MUMBAI (MAHARASHTRA),
	180 SOUTHEAST OF DIU
PAST MOVEMENT	EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' IS MOVING NEARLY NORTHWARDS WITH A SPEED OF 15 KMPH DURING PAST 06 HOURS
FORECAST MOVEMENT,	IT IS LIKELY TO MOVE NORTH-NORTHWESTWARDS AND
INTENSITY AND	CROSS GUJARAT COAST BETWEEN PORBANDAR & MAHUVA (BHAHVNAGAR DISTRICT) EAST OF DIU DURING THE NIGHT
LANDFALL	(2000- 2300 IST) OF 17^{TH} 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 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 TONIGHT 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.
REALISED WEATHER	HEAVY TO VERY HEAVY RAINFALL IS CONTNUING OVER NORTH KONKAN INCLUDNG MUMBAI. WINDSPEED: 80-90 GUSTING TO 100 KMPH PREVAILING ALONG & OFF NORTH MAHARASHTRA COAST.

SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um



17-05-2021/(0600 to 0626) GMT



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF EXTREMELY SEVERE CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 0300 UTC OF 17TH MAY, 2021

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and and and	PAKISTAN	15	New Delhi	NEPA	Charles 1
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1. 1.15	18/12,40KT,CS	unnegapad	dore	3 3	n n
WEA	18/00,60KT.SCS	75/	Mr. Le	5	wh
	17/18,80KT,VSOS	Surat	Nagpy	Bhilai	C
	17/12,90KT,ESCS	Nashik	- 1.2	I S	Bhuda
		CA A	2mg	3	1
$\sim N$		Pune	S U	Josh	1
		0,100KT,ESC	Hyderabad	4 mg	1
	16/18,85KT,VSCS	Kolbabur	15 ma	vijayavada	
trabian Sea	16/12,75KT,VSCS	15h	Son C	8	
WCA OUD	16/06,70KT,VSCS	UX	SAR		WCB
	15/18,60KT,SCS	16/00,65KT,V	Sra /		
	4	15/12 55KT,S	Benghunn	hennai	
	15/06,45KT,CS	15/00,40KT,C			Bay of
	14/18,35KT,CS	14	and the second		
	14/06,25KT,D	14/12,300 15	8 7 / 1		
		14/03,25KT,0	depi /		
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SWA	JOEN .	•	SPIL	ANKA SWB	Go to Settio
DATE/TIME IN UTC			 LESS THA 	N 34 KT	
IST=UTC + 0530 L: LOW PRESSURE A	REA		6 3447 KT	0.000.000 0.000 ⁰ 0	
WML: WELL MARKED	LOW PRESSURE AREA		6		
D: DEPRESSION (17-2 DD: DEEP DEPRESSIO			🤊 ≥ 48 KT		
CS: CYCLONIC STOR			OBSERVE	D TRACK	
SCS: SEVERE CYCLO	NIČ STORM (48-63KT)		FORECAS	T TRACK	
	CYCLONIC STORM (64-89 KT) EVERE CYCLONIC STORM (90-119	КП		UNCERTAINTY	
	NIC STORM (2 120 KT)		cone or	oncentranti	

OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF EXTREMELY SEVERE CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 0300 UTC OF 17TH MAY, 2021

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	FARISTAN	New Delhi NEPAD
Carlow States	- A	Agra Kathman
7		Jochpter Jaipur gra Lucknow
		Ranpur Datas
- fine	Hyderabed	19/00,20KT,D
of Oman	Karachi	By 5 the month
Muscat	18/12 40KT.CS	Bhopal INDIA Ranger
	AI TOIL AI	Indore
NWA	18/00,60KT,SCS	s and s and
	(NEA) FS	Nagpur Bhilai
6 10 12	17/18,80KT,VSCS	Bhurn
0	-17/12,90KT,ESC\$	Nashik a gas share
m = p	17/06,100KT,ESCS	and and had
	17/03,100KT,ESCS 17/0	
8. 6	16/18,85KT,VSCS	Hyderabad
1.1	16/12,75KT,VSCS	Kolhabur SVijayavada
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THUR .	16/06,70KT,VSCS	16/00,65KT,VSCS
	15/18 60KT SCS	
1 A 1	15/06,45KT,CS	15/12,55KT,Senguru Chennai
	61	5/00,49KT,CS
	14/18,35KT,CB	14/12,30K REEbimbatore
	14/06,25KT,D 🖉	·
Li da	14/01	3,25KT,D
		LARCH, D C C
SWA	SEA	SRI LANKA SWB
14 March 1997		Colombo
DATE/TIME IN UTC		 LESS THAN 34 KT
IST=UTC + 0530 L: LOW PRESSURE AREA		6 34.47 KT
WML: WELL MARKED LOW	PRESSURE AREA	● ≥ 48 KT OBSERVED TRACK
D: DEPRESSION (17-27 KT)		FORECAST TRACK
DD: DEEP DEPRESSION (28		CONE OF UNCERTAINTY
CS: CYCLONIC STORM (34- SCS: SEVERE CYCLONIC S		AREA OF MAXIMUM SUSTAINED WIND SPEED: 28-33 KT (52-61 KMPH)
VSCS: VERY SEVERE CYCL		34.49 KT (62.91 KMPH)
	E CYCLONIC STORM (90-119 KT)	50-63 KT (92-117 KMPH)
SuCS: SUPER CYCLONIC S	TORM (2 120 KT)	≥ 64 KT (≥118 KMPH)
	IMPACT OV	ER 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

Total suspension of fishing operations

Total suspension of fishing operations Total suspension of fishing operations

High to very high seas

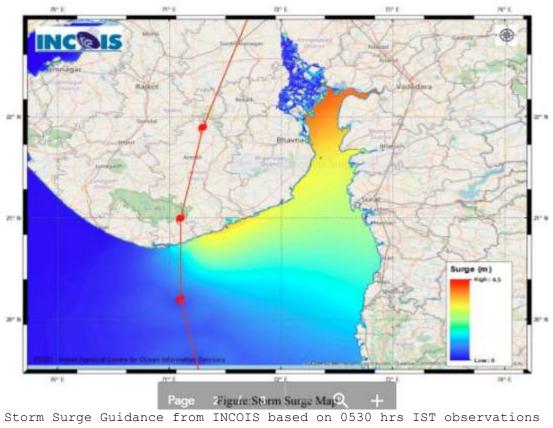
Very high seas

Phenomenal

34-49 (62-91)

50-63 (92-117)

 $\geq 64 (\geq 118)$



STORM SURGE HEIGHT INFORMATION:

Open with 👻

* The below listed surge heights are over and above ast the surge height are over and above ast

MANDAL/TALUK	AL/TALUK DISTRICT STATE / UNION TERRITORY OF HABITATION *		STORM SURGE (m)	(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	Kasvá	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	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
Weda	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	Borti	0.5-0.7	Upto 0.21
Dapoli	Ratnagiri	Maharashtra	Tadachakond	0.4-0.5	Upto 0.11
Mandangarh	Ratnugiri	Maharashtra	Danda	0.4-0.5	Nil