

India Meteorological Department (Ministry of Earth Sciences)

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

BULLETIN NO. 04

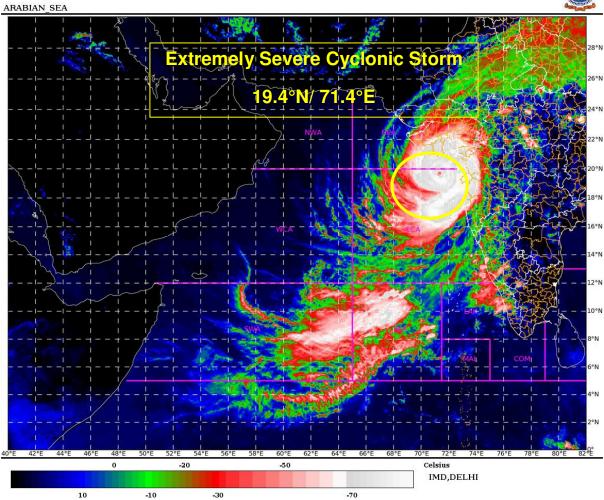
DATE: 17-05-2021 TIME OF ISSUE: 1440 hrs IST

DATE/TIME (IST) OF Based on 17-05-2021 (1330 HRS IST)				
OBSERVATION				
LOCATION	THE EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' LAY			
LATITUDE/LONGITUDE	CENTRED AT 1330 HRS IST OF TODAY, THE 17TH MAY 2021,			
	NEAR LAT.19.4°N AND LONG. 71.4°E ABOUT			
	• 155 KM WEST-NORTHWEST OF MUMBAI			
	(MAHARASHTRA),			
	154 SOUTH-SOUTHEAST OF DIU			
PAST MOVEMENT	EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' MOVED			
	NEARLY NORTHWARDS WITH A SPEED OF 13 KMPH DURING			
	PAST 06 HOURS			
FORECAST MOVEMENT,	IT IS LIKELY TO MOVE NORTH-NORTHWESTWARDS AND			
INTENSITY AND	CROSS GUJARAT COAST BETWEEN PORBANDAR & MAHUVA			
LANDFALL	(BHAHVNAGAR DISTRICT) EAST OF DIU DURING THE NIGHT			
27.11.71.71.22	(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 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.				
REALISED WEATHER	HEAVY TO VERY HEAVY RAINFALL IS CONTINUING OVER				
COASTAL	NORTH KONKAN INCLUDING MUMBAI. IT WILL CONTINUE FOR				
MAHARASHTRA	NEXT 12 HRS,				
	RAINFALL REPORTED DURING 0830 TO 1330 HOURS IST OF				
	TODAY: MUMBAI (COLABA): 15.7 , SANTACRUZ: 10.2 AND JUHU				
	AIRPORT: 15 CM				
	WINDSPEED: 90-100 GUSTING TO 110 KMPH PREVAILING				
	ALONG & OFF NORTH MAHARASHTRA COAST. IT WILL				
	GRADUALLY DECREASE FROM TODAY EVENING				

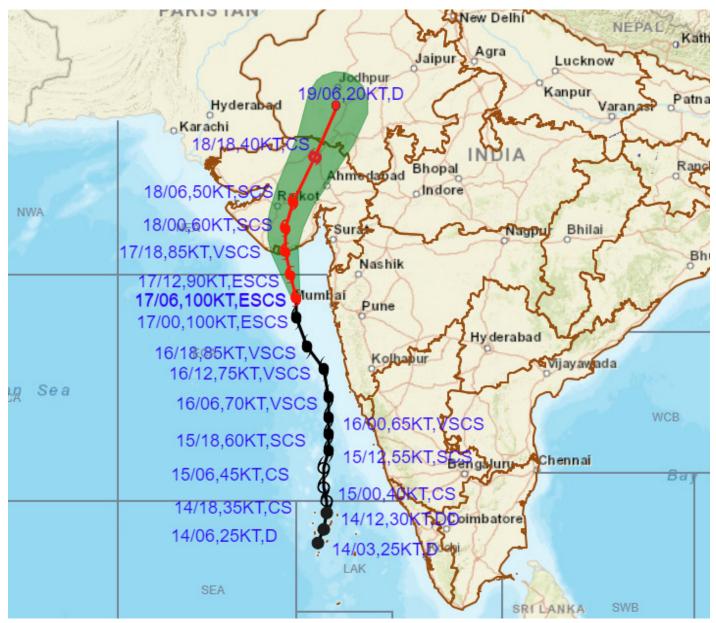
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OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF EXTREMELY SEVERE CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 0600 UTC OF 17TH MAY. 2021



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)

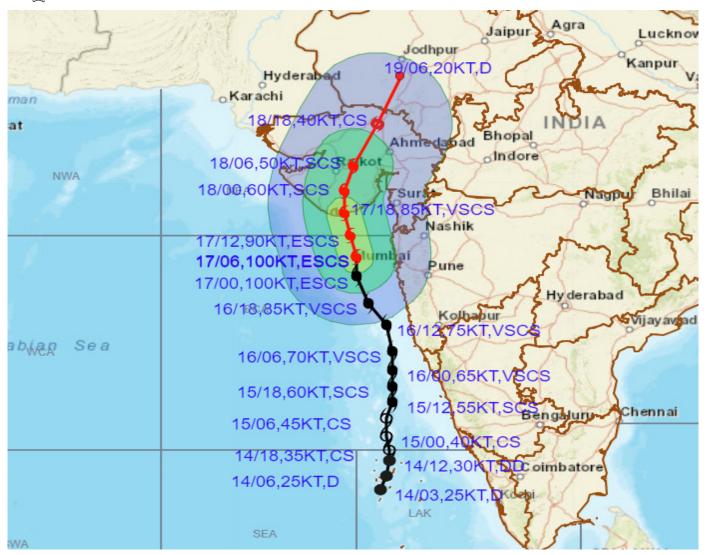
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM (2 120 KT)





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

SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

LESS THAN 34 KT

5 34.47 KT

 ≥ 48 KT

OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY

AREA OF MAXIMUM SUSTAINED WIND SPEED:

28.33 KT (52.61 KMPH)

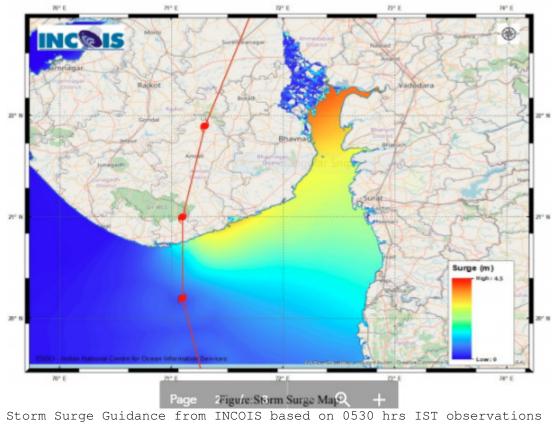
34.49 KT (62.91 KMPH)

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



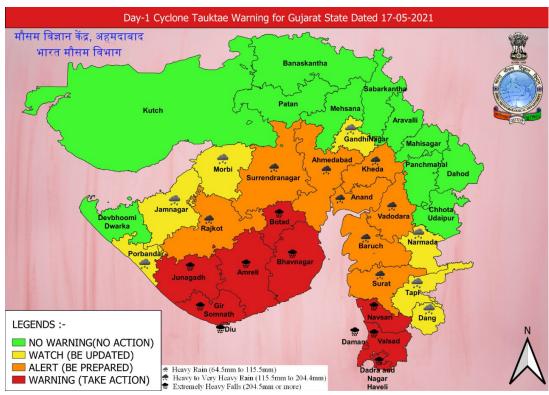
STORM SURGE HEIGHT INFORMATION:

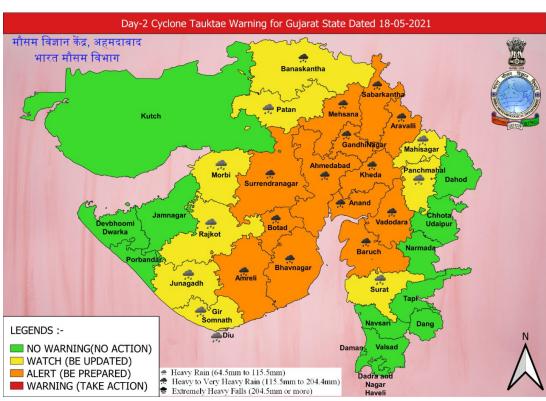
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* The below listed surge heights are over and above astron

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
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
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	Raigarh	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

