

India Meteorological Department (Ministry of Earth Sciences)

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

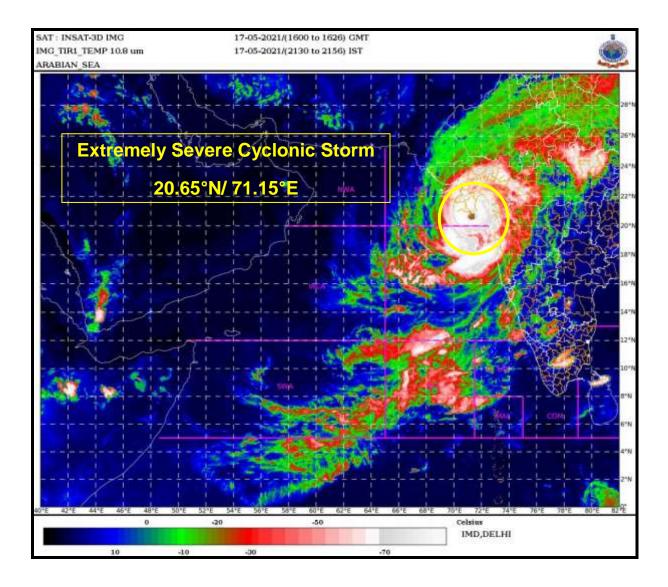
BULLETIN NO. 12

DATE: 17-05-2021

TIME OF ISSUE: 2230 HRS IST

DATE/TIME (IST) OF	BASED ON 17-05-2021 (2130 HRS IST)
OBSERVATION	
LOCATION	THE EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' LAY
LATITUDE/LONGITUDE	CENTRED AT 2130 HRS IST OF TODAY, THE 17TH MAY 2021
	OVER NORTHEAST ARABIAN SEA, NEAR LAT. 20.65°N AND
	LONG. 71.15°E, ABOUT 25 KM EAST OF DIU.
CURRENT INTENSITY	160-170 KMPH GUSTING TO 190 KMPH
NEAR CENTRE	
PAST MOVEMENT	EXTREMELY SEVERE CYCLONIC STORM 'TAUKTAE' MOVED
	NORTH-NORTHWESTWARDS WITH A SPEED OF 16 KMPH
	DURING PAST 06 HOURS
FORECAST MOVEMENT,	LANDFALL PROCESS IS CONTINUING.
INTENSITY AND	• IT WILL TAKE ANOTHER 02 HOURS TO COMPLETE THE
LANDFALL	LANDFALL PROCESS.
	• FORWARD SECTOR OF EYE IS ENTERING INTO THE LAND.
	OUTER CLOUD BAND LIES OVER SAURASHTRA.
	• THE CENTRE OF THE CYCLONE WILL CROSS SAURASHTRA
	COAST TO THE EAST OF DIU WITHIN NEXT 02 HOURS.
	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 AND 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 WINDS SPEED REACHING 160-170 KMPH GUSTING TO
(KMPH)	190 KMPH likely to prevail 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 TILL 18 TH
	EARLY hours. 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 TILL 18 TH early hours.
FORECAST STORM	TIDAL WAVE ABOVE ASTRONOMICAL TIDE IS LIKELY TO
SURGE	INUNDATE COASTAL AREAS during next 06 hours, 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 0.5-1 M 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 2130 HOURS IST OF
MAHARASHTRA	TODAY: MUMBAI (COLABA): 20.3 CM, SANTACRUZ: 21.5 CM
REALISED WEATHER	HEAVY TO VERY HEAVY RAINFALL WILL CONTINUE OVER
	COASTAL DISTRICTS OF SAURASHTRA, SOUTH GUJARAT &
	DIU.
GUJARAT & DIU	WIND REPORTED AT 2130 HOURS IST OF TODAY: DIU: 133
	KMPH, BHAVNAGAR: 46 KMPH, PORBANDAR: 35 KMPH.

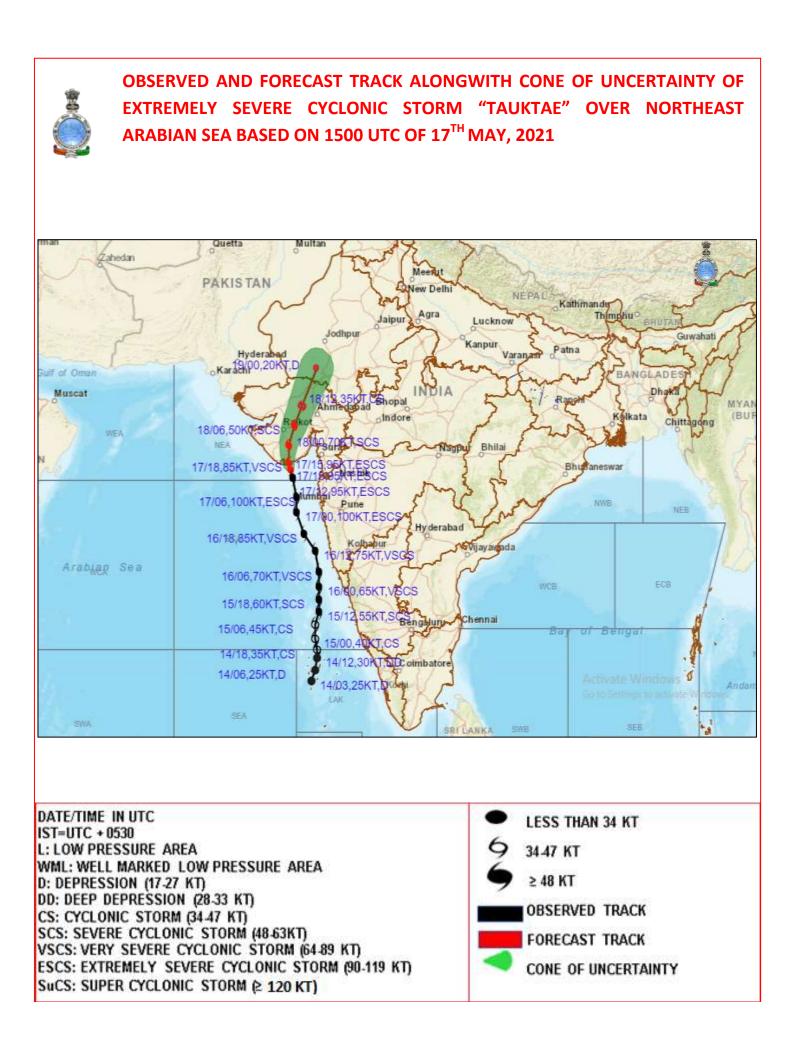


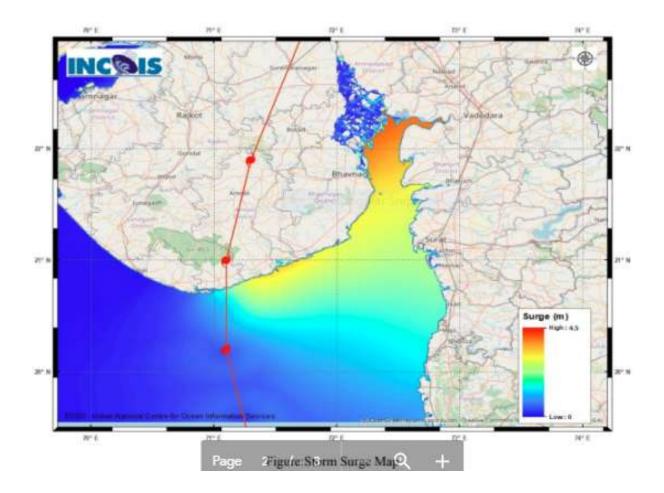


OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF EXTREMELY SEVERE CYCLONIC STORM "TAUKTAE" OVER NORTHEAST ARABIAN SEA BASED ON 1500 UTC OF 17TH MAY, 2021

rabijan Sea	Hyderabsd Kar 19/00,20KT,D 18/06,50KT,SCS 18/06,50KT,SCS 18/06,100KT,ESCS 17/18,85KT,VSCS 17/16,100KT,ESCS 17/18,85KT,VSCS 17/18,85KT,VSCS 17/18,85KT,VSCS 16/18,85KT,VSCS 15/18,60KT,SCS 15/06,45KT,CS 14/18,35KT,CS 14/18,25KT,D	Meret NEPAL NE
D: DEPRESSION (DD: DEEP DEPRES CS: CYCLONIC ST SCS: SEVERE CYC VSCS: VERY SEVE ESCS: EXTREMEL	e Area (Ed Low Pressure Area 17-27 KT) Ssion (28-33 KT)	(90-119 KT) 50-63 KT (92-117 KMPH) ≥ 64 KT (≥118 KMPH)
MSW (knot/k	mph) Impact	IMPACT OVER THE SEA
20 22 (52 64)		Total succession of fishing enerations

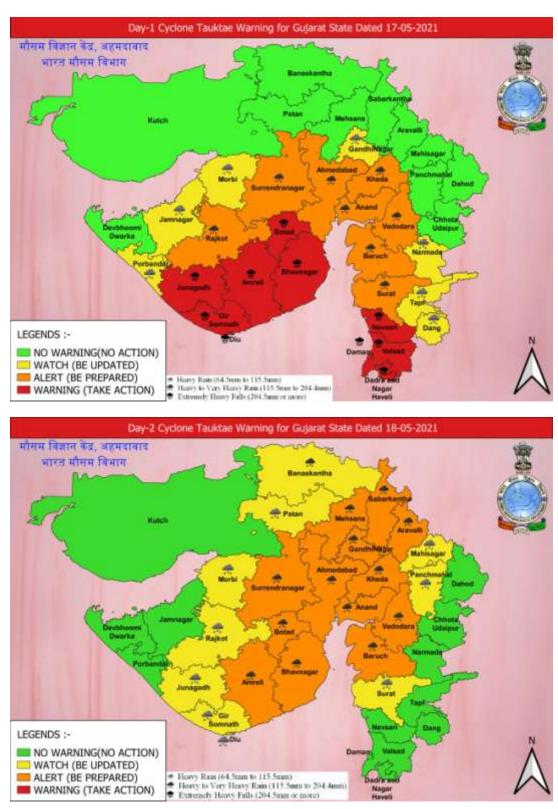
MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations





STORM SURGE GUIDANCE FROM INCOIS BASED ON 0530 HRS IST OBSERVATIONS

	HEIGHT INFORM	Open	with 🚽		
· The below listed	surge heights are over	er and above astronomics			
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
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	Borli	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



HEAVY RAINFALL WARNING FOR GUJARAT STATE FOR 17TH AND 18TH MAY

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

