

India Meteorological Department (Ministry of Earth Sciences)

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

## **BULLETIN NO. 03**

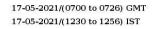
DATE: 17-05-2021

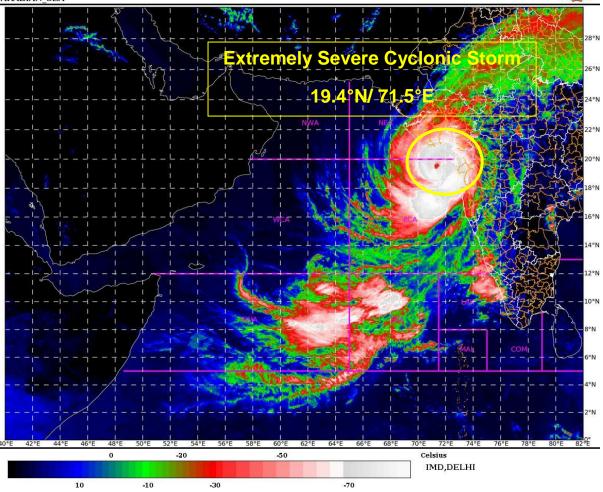
TIME OF ISSUE: 1340 hrs IST

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 1230 HRS IST OF TODAY, THE 17TH MAY
	2021, NEAR LAT.19.4°N AND LONG. 71.5°E ABOUT
	145 KM WEST-NORTHWEST OF MUMBAI
	(MAHARASHTRA),
	162 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 (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 - 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.
REALISED WEATHER	HEAVY TO VERY HEAVY RAINFALL IS CONTNUING OVER
COASTAL	NORTH KONKAN INCLUDNG MUMBAI. IT WILL CONTINUE FOR NEXT 12 HRS
MAHARASHTRA	NEAT 12 TING
	WINDSPEED: 80-90 GUSTING TO 100 KMPH PREVAILING ALONG & OFF NORTH MAHARASHTRA COAST. IT WILL GRADUALLY DECREASE FROM TODAY EVENING

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 0300 UTC OF 17<sup>TH</sup> MAY, 2021

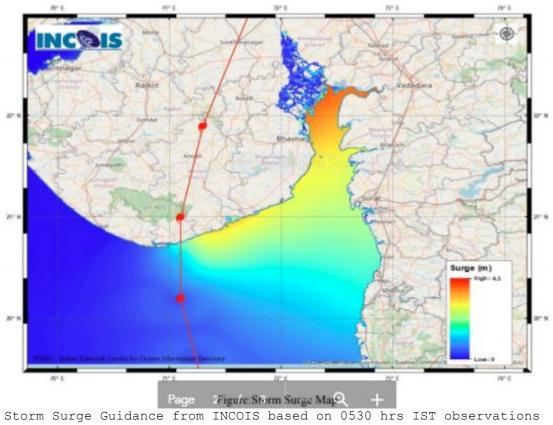
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7		60	New Delhi	NEPAL Kathma
4	CINE CC		aipur Agra Luc	know
~		Jodhpur	Kanp	ur S Patna
Oman	Hyderabad 19/00 Karachi	20KT,D	3 Review	Varanasi Patha
Iscat	most	3 53	INDIA .	June
	18/12,40KT,CS	nmeqapad	ndore	> ~ Rangh
WEA	18/00,60KT.SCS	5	N L	for
	17/18,80KT,VSOS	Surat	Nagpus BI	hilai
9		Nashik	- ( v 3/2-	Bhura
1	17/06,100KT,ESCS	ai Pune	Smy	Sal
	17/03,100KT,ESCS	0,100KT,ES	CS Hyderabad	sw Z
1	16/18;85KT,VSCS	Kolbabu		avada
Arabian Sea	16/12,75KT,VSCS	15t	Son or	1000
WCA	16/06,70KT,VSCS	16/00,65KT	VECS	WCB
	15/18,60KT,SCS		Sru /	
	15/06,45KT,CS	and the second se	SCB Bengalury Chenn	ai Bay of
	14/18,35KT,CS	15/00,40KT	a set to the My	
	14/06.25KT.D		DCoimbatore	
		14/03,25KT, LAK	Kong K	
SWA	SEA		V SDICLANK	Activate Go.td Settin
DATE/TIME IN UTC			LESS THAN 34	
IST=UTC + 0530 L: LOW PRESSURE A	REA		6 34.47 KT	
WML: WELL MARKED D: DEPRESSION (17-2	LOW PRESSURE AREA			
DD: DEEP DEPRESSIO	DN (28-33 KT)		OBSERVED T	RACK
CS: CYCLONIC STOR SCS: SEVERE CYCLO	NIČ STORM (48-63KT)			
	CYCLONIC STORM (64-89 KT)	KTD.		COTABITY

CONE OF UNCERTAINTY

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT) SuCS: SUPER CYCLONIC STORM (≥ 120 KT) OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF EXTREMELY SEVERE CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 0300 UTC OF 17<sup>TH</sup> MAY, 2021

of Oman Muscat	Hyderabad 10 Karachi	Meenut New Delhi Jaipur odhpur 0/00,20KT,D	NEPAL Kathiman Lucknow anpur Varan si Patna
NWA	18/00,60KT,SCS 17/18,80KT,VSCS 17/12,90KT,ESCS 17/06,100KT,ESCS 17/03,100KT,ESCS 16/18,85KT,VSCS 16/12,75KT,VSCS 16/06,70KT,VSCS 15/18,60KT,SCS 15/18,60KT,SCS	Nashik Nashik Nashik Nobebur 6/00,65KT,VSCS 5/12,55KT,SSS Bengalun 00,49KT,CS	Ranoli Bhilai Bhuan N Ajayawada WCB
SWA DATE/TIME IN UTC IST=UTC + 0530 L: LOW PRESSURE AREA WML: WELL MARKED LOW P D: DEPRESSION (17-27 KT) DD: DEEP DEPRESSION (28-3	PRESSURE AREA 13 KT)	25KT,D Kan sert	KT ACK ACK
CS: CYCLONIC STORM (34.47 SCS: SEVERE CYCLONIC ST VSCS: VERY SEVERE CYCLO ESCS: EXTREMELY SEVERE SuCS: SUPER CYCLONIC ST	ORM (48-63KT) NIC STORM (64-89 KT) CYCLONIC STORM (90-119 KT)	AREA OF MAXIMUM SU 28-33 KT (52-61 34-49 KT (62-91 50-63 KT (92-11 ≥ 64 KT (≥118	STAINED WIND SPEED: KMPH) KMPH) 7 KMPH)

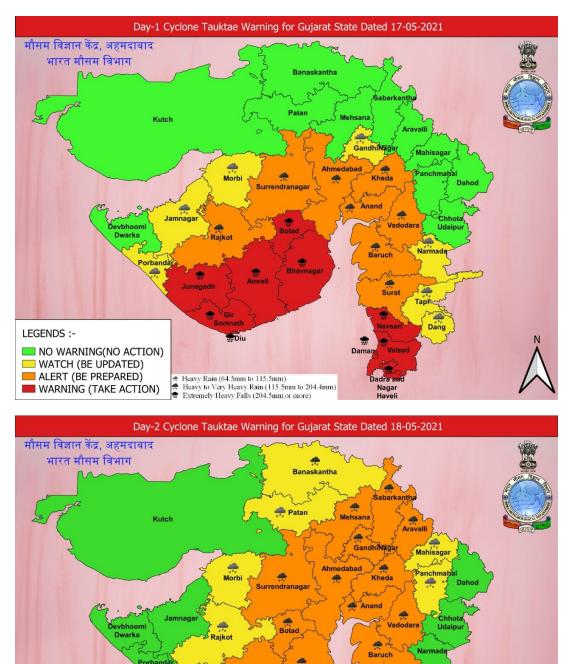
IMPACI OVER THE SEA				
MSW (knot/kmph)	Impact	Action		
28-33 (52-61)	Very rough seas	Total suspension of fishing operations		
34-49 (62-91)	High to very high seas	Total suspension of fishing operations		
50-63 (92-117)	Very high seas	Total suspension of fishing operations		
≥ 64 (≥118)	Phenomenal	Total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



	STORM	SU	RGE	HEIGHT	<b>INFORM</b>	ATION:
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* The below	listed	surge h	eights	are over	and	above	astronon
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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



Bhavnagar

Surat

Navsari

Valsad

Dadr<del>a and</del> Nagar Haveli

Dam

Tank

Dang

Amreli

Heavy Rain (64.5mm to 115.5mm)
Heavy to Very Heavy Rain (115.5mm to 204.4mm)
Extremely Heavy Falls (204.5mm or more)

4

Gir Somnath

Diu

Junagadh

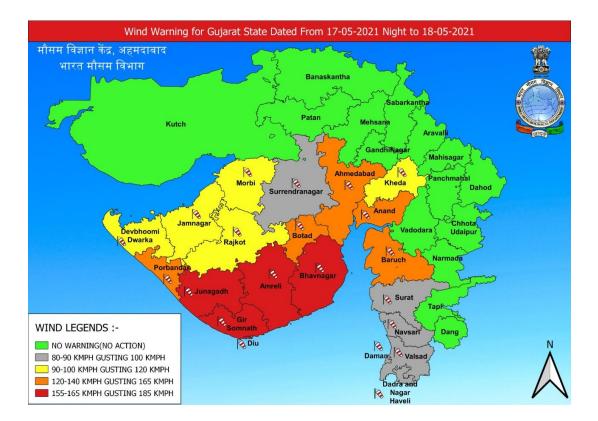
LEGENDS :-

NO WARNING(NO ACTION)

WARNING (TAKE ACTION)

WATCH (BE UPDATED)

## 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