



**India Meteorological Department
(Ministry of Earth Sciences)**

BULLETIN NO.32: (ARB/01/2021)

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DATED: 18.05.2021

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

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CHIEF SECRETARY, DADRA & NAGAR HAVELI (FAX NO. 0260-2645466)

CHIEF SECRETARY, RAJASTHAN (FAX NO. 0141-2227114)

Subject: Severe Cyclonic Storm "Tauktae" (pronounced as Tau'Te) over Saurashtra

The **Very Severe Cyclonic Storm "Tauktae" (pronounced as Tau'Te)** over Saurashtra moved north-northeastwards with a speed of about 10 kmph during past 06 hours, weakened into a **Severe Cyclonic Storm** and lay centred at 0830 hours IST of today, the 18th May, 2021 over Saurashtra near latitude 21.6°N and longitude 71.3°E, about 10 km east of Amreli, 130 km south-southwest of Surendranagar and 210 km southwest of Ahmedabad.

It is very likely to move north-northeastwards and weaken gradually into a cyclonic storm during next 03 hours and into a Depression by today evening. The remnant of the system is very likely to move north-eastwards across Rajasthan to west Uttar Pradesh during 19th & 20th May.

Gale force winds & heavy to very heavy rainfall and extremely heavy falls occurred at isolated places over north Konkan (including Mumbai) and Coastal districts of Saurashtra during the past 24 hours ending at 0830 Hrs IST of today.

Chief amounts of rainfall in centimetres are:

Coastal Maharashtra: Juhu – 33.0, Ram Mandir – 30.4, Palghar – 29.8, Dahanu – 28.3, Mumbai (Santacruz) – 23.0, Devgarh – 22.6, Sawantwadi – 21.0, Mumbai (Colaba) – 20.1, Mira Road – 22.4, Zari – 19.2, Talasari – 16.7, Kanchad – 14.3, Alibagh – 13.5, Ratnagiri – 10.1

Gujarat: Bagasara (Amreli Distt): 21.2, Surat- 9.3, Diu: 8.6, Bhavnagar: 7.8, Amreli – 12.5, Gir Gadhada (Gir Somenath)-18.5, Una (Gir Somenath): 17.5, Umergam (Valsad): 18.3, Savarkundla (Amreli): 16.7, Palitana (Bhavnagar): 15.8, Amreli (Amreli): 13.1, Mahua (Bhavnagar): 12.8, Rajula (Amreli): 12.7; Khambha (Amreli): 12.7, Babra (Amreli): 12.7,

Gadhda (Botad): 10.5 , Visavdar (Junagarh): 9.7 , Umralla (Bhavnagar): 8.5 , Dhari (Amreli): 7.2 , Bhavnagar (Bhavnagar): 7.1 , Jesar (Bhavnagar): 6.8 .

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
18.05.21/0830	21.6/71.3	105-115 gusting to 125	Severe Cyclonic Storm
18.05.21/1130	22.2/71.5	80-90 gusting to 100	Cyclonic Storm
18.05.21/1730	23.0/71.8	55-65 gusting to 75	Deep Depression
18.05.21/2330	23.8/72.1	45-55 gusting to 65	Depression
19.05.21/0530	24.6/72.4	35-45 gusting to 55	Depression

Warnings:

(i) Rainfall:

- **Gujarat:** Light to moderate rainfall at most places with heavy to very heavy falls isolated places very likely over Gujarat region and Saurashtra on 18th May.
- **Rajasthan:** Light to moderate rainfall at many places with heavy to very heavy falls at isolated places very likely over south Rajasthan on 18th & heavy falls at isolated places over north Rajasthan on 19th May.

(ii) Wind warning

- Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely to prevail over Gulf of Khambat and adjoining northeast Arabian Sea during next 06 hours. It is likely to reduce gradually thereafter.
- Gale wind speed reaching 40-50 gusting to 60 kmph along & off extreme north Maharashtra coast during next 06 hours.
- Gale winds speed reaching 100-110 kmph gusting to 120 kmph likely to prevail over Amreli, Bhavnagar, Botad, 90-100 kmph gusting to 110 kmph over Surendranagar, Rajkot, Anand, South Ahmedabad : 60-70 kmph gusting to 80 kmph over Diu, Gir Somnath, Junagarh, Kheda, Bharuch, Jamnagar, Porbandar & Morbi during next 06 hours and gradually decrease thereafter.
Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail along and off Dadra, Nagar Haveli, Daman, Valsad, Navsari, Surat, districts and 35-45 kmph gusting to 55 kmph over Devbhoomi Dwarka & Kutch during next 06 hours and gradually decrease thereafter.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail over south Rajasthan from the evening of 18th till 19th early morning.

(iii) Sea condition

- Sea conditions will be very rough to High over Gulf of Khambhat and adjoining northeast Arabian Sea and along & off south Gujarat, Daman, Diu, Dadra & Nagar Haveli coasts during next 12 hours and improve gradually thereafter.
- Sea conditions will be rough to very rough along & off north Maharashtra coast during next 12 hours and improve thereafter.

(iv) Storm surge warning

Tidal wave above astronomical tide is likely to inundate coastal areas during next 06 hours, as per details below:

About 1-2 meter (m) over Anand & Amreli, Gir Somnath, Diu, Bhavnagar, 1 m over Bharuch, southern parts of Ahmedabad, Surat, Navsari, Valsad, during next 06 hours.

(v) Fishermen Warning

- The fishermen are advised not to venture into northeast & adjoining eastcentral Arabian Sea along & off north Maharashtra, south Gujarat, Daman, Diu, Dadra & Nagar Haveli coasts till the evening of 18th May.

(vi) (A) Damage Expected over Amreli Junagarh, Gir Somnath, Botad, Bhavnagar Ahmedabad, Rajkot, Bharuch, Anand, Kheda districts of Gujarat,:

- Damage to thatched houses/ huts.
- Minor damage to power and communication lines.
- Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
- Breaking of tree branches, uprooting of large avenue trees. Moderate damage to banana and papaya trees. Large dead limbs blown from trees.
- Major damage to coastal crops.
- Damage to embankments/ salt pans.

(vi) (B) Damage expected over interior districts of Gujarat (Districts apart from those mentioned under warning) and over southern districts of Rajasthan on 18th May 2021.

- (i) Minor damage to power and communication lines. (ii) Damage to Kutcha Roads. (iii) Breaking of tree branches, uprooting of small trees. (iv) Damage to banana and papaya trees.

(vii) Action Suggested:

- Judicious regulation of rail and road traffic.
- People in affected areas to remain indoors.

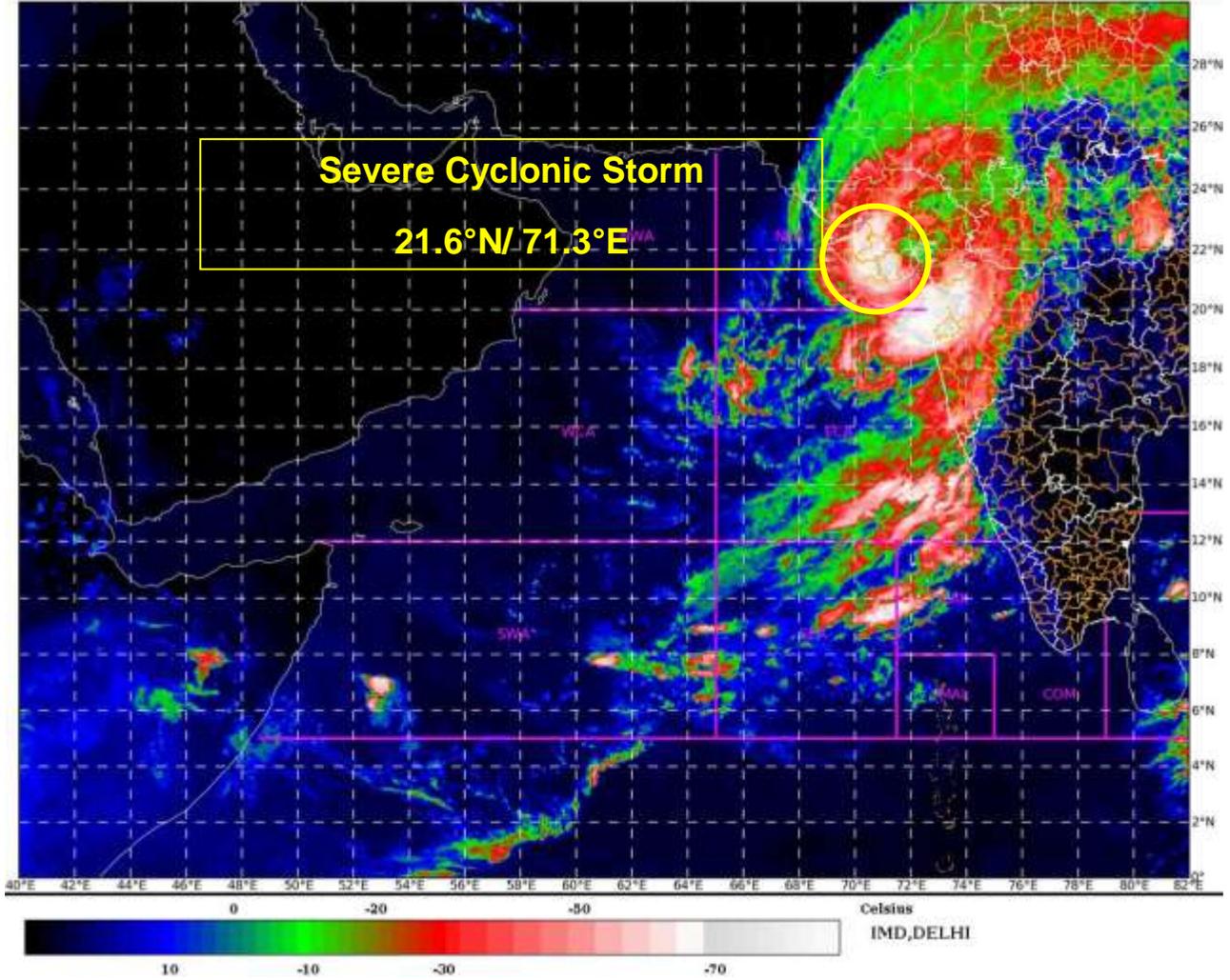
The next bulletin will be issued at 1430 hrs IST of 18th May, 2021.

**(Sunitha Devi.S)
Scientist-F, RSMC, New Delhi**

Copy to: MC Jaipur /ACWC Mumbai /CWC Ahmedabad.

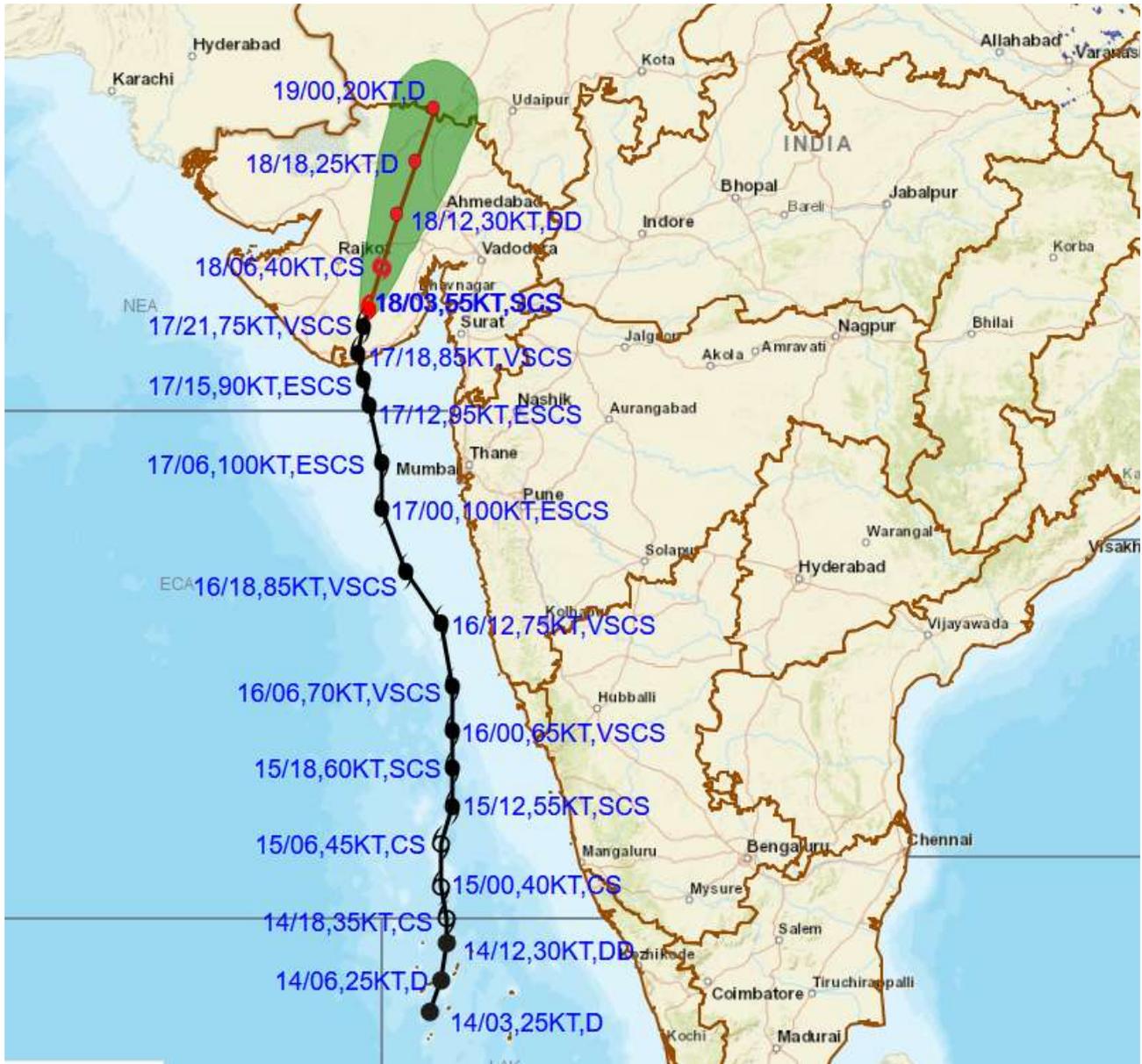
SAT : INSAT-3D IMG
IMG_TIR1_TEMP 10.8 um
ARABIAN_SEA

18-05-2021/(0500 to 0527) GMT
18-05-2021/(1030 to 1057) IST





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "TAUKTAE" OVER SAURASHTRA BASED ON 0300 UTC OF 18TH MAY, 2021

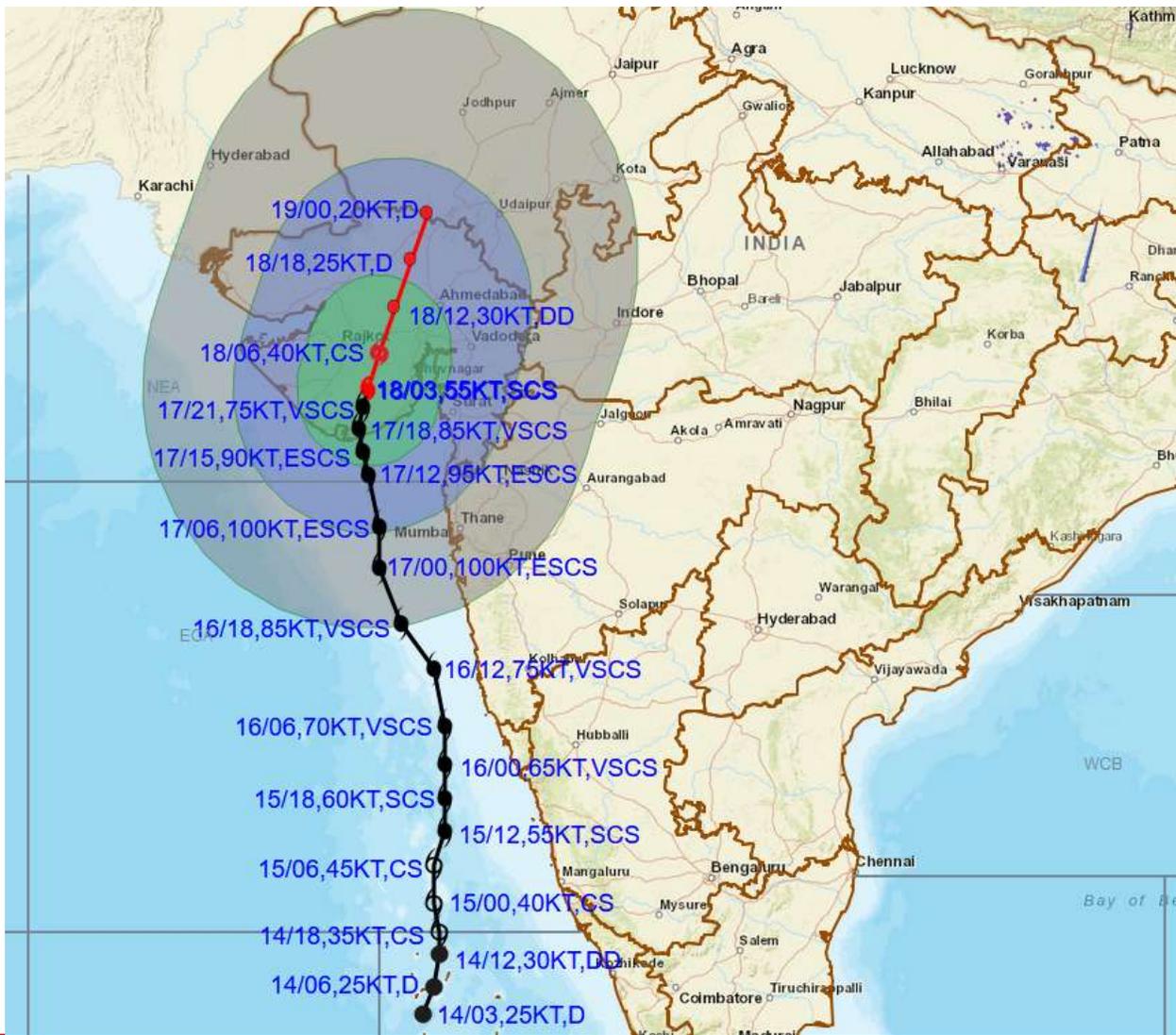


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "TAUKTAE" OVER SAURASHTRA BASED ON 0300 UTC OF 18TH 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 (\geq 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

● \geq 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)

— \geq 64 KT (\geq 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
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations

HEAVY RAINFALL WARNING FOR GUJARAT STATE TILL 0830 HOURS IST OF 19TH MAY



HEAVY RAINFALL WARNING FOR GUJARAT STATE FROM 0830 HOURS IST OF 18TH TO 0830 HOURS IST OF 19TH MAY

WIND WARNING FOR GUJARAT STATE FOR NEXT 06 HOURS

