

# India Meteorological Department (Ministry of Earth Sciences)

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# Sub: Severe Cyclonic Storm "Tauktae" (pronounced as Tau'Te) over Eastcentral Arabian Sea: Cyclone Alert for Gujarat & Diu coasts (Yellow message)

The **Severe Cyclonic Storm "Tauktae" (pronounced as Tau'Te)** over eastcentral Arabian Sea moved nearly northwards with a speed of about 13 kmph during past 06 hours and lay centred at 2030 hours IST of today, the 15<sup>th</sup> May, 2021 over eastcentral Arabian Sea near latitude 14.2°N and longitude 72.7°E, about 190 km southwest of Panjim-Goa, 550 km south of Mumbai, 780 km south-southeast of Veraval (Gujarat) and 910 km south-southeast of Karachi (Pakistan).

It is very likely to intensify into a Very Severe Cyclonic Storm during next 12 hours and intensify further. It is very likely to move north-northwestwards and reach Gujarat coast in the morning of 18<sup>th</sup> & cross Gujarat coast between Porbandar & Naliya around 18<sup>th</sup> May Afternoon / evening. Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. <sup>0</sup> N/ long. <sup>0</sup> E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
15.05.21/2030	14.2/72.7	100-110 gusting to 120	Severe Cyclonic Storm
15.05.21/2330	14.5/72.6	110-120 gusting to 130	Severe Cyclonic Storm
16.05.21/0530	15.3/72.3	115-125 gusting to 140	Very Severe Cyclonic Storm
16.05.21/1130	15.7/72.0	125-135 gusting to 150	Very Severe Cyclonic Storm
16.05.21/1730	16.4/71.5	135-145 gusting to 160	Very Severe Cyclonic Storm
17.05.21/0530	17.9/70.8	145-155 gusting to 170	Very Severe Cyclonic Storm
17.05.21/1730	19.4/70.1	150-160 gusting to 175	Very Severe Cyclonic Storm
18.05.21/0530	20.7/69.5	150-160 gusting to 175	Very Severe Cyclonic Storm
18.05.21/1730	22.3/69.4	145-155 gusting to 170	Very Severe Cyclonic Storm
19.05.21/0530	24.1/69.7	75-85 gusting to 95	Cyclonic Storm
19.05.21/1730	25.9/70.1	40-50 gusting to 60	Depression

### Warnings:

### (i) Rainfall:

- Lakshadweep Islands: Light to moderate rainfall at most places with heavy to very heavy falls at isolated places over northern Islands on 15<sup>th</sup> May and heavy falls at isolated places on 16<sup>th</sup> May.
- **Kerala:** Light to moderate rainfall at many places with heavy to very heavy falls at isolated places during next 12 hours, heavy to very heavy falls at isolated places on 16<sup>th</sup> and heavy falls at isolated places on 17<sup>th</sup> May.
- **Tamil Nadu (Ghat districts):** Light to moderate rainfall at many places with heavy to very heavy falls at isolated places on 15<sup>th</sup> May.
- Karnataka (coastal & adjoining Ghat districts): Light to moderate rainfall at most places with heavy to very heavy falls at a few paces and extremely heavy falls at isolated places on 15<sup>th</sup> and heavy to very heavy falls at isolated places on 16<sup>th</sup>.
- **Konkan & Goa:** Light to moderate rainfall at most places with heavy to very heavy falls at a few places over south Konkan & Goa and heavy to very heavy falls at isolated places over north Konkan on 15<sup>th</sup> and heavy to very heavy falls at a few places over Konkan & Goa & adjoining Ghat areas on 16<sup>th</sup> and heavy falls at isolated places on 17<sup>th</sup> May over north Konkan.
- **Gujarat:** Light to moderate rainfall at many places very likely to commence over coastal districts of Saurashtra from 16<sup>th</sup> May afternoon, with heavy to very heavy falls at isolated places over Saurashtra & Kutch and Diu and extremely heavy falls at isolated places in Junagarh & Gir Somnath Districts on 17<sup>th</sup> and with heavy to very heavy falls at a few places over Saurashtra & Kutch and Diu with extremely heavy falls (≥ 20 cm) at isolated places of Porbandar, Devbhoomi Dwarka, Jamnagar & Kutch districts on 18<sup>th</sup>.
- West Rajasthan: Light to moderate rainfall at many places with heavy to very heavy falls at isolated places very likely on 18<sup>th</sup> & 19<sup>th</sup> May.

## (ii) Wind warning

- Gale wind speed reaching 100–110 kmph gusting to 120 kmph is prevailing over east-central Arabian Sea. It is likely to increase over eastcentral Arabian Sea becoming 120-130 kmph gusting to 145 kmph from 16<sup>th</sup> May morning.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph along & off Kerala coast, southeast Arabian Sea and Lakshadweep area on 15<sup>th</sup> May and reduce gradually from tomorrow.
- Squally wind speed reaching 50-60 kmph gusting to 70 kmph likely along & off Karnataka south Maharashtra & Goa coasts on 15<sup>th</sup> and Gale winds speed reaching 60-70 kmph gusting to 80 kmph along & off Maharashtra –Goa coasts on16<sup>th</sup> & 17<sup>th</sup> May.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely over northeast Arabian Sea and along & off south Gujarat & Daman and Diu coasts on 17<sup>th</sup> morning and gradually increase becoming Gale winds speed reaching 150-160 kmph gusting to 175 kmph over northeast Arabian Sea from 18<sup>th</sup> morning and along & off Saurashtra & Kutch coasts (Devbhoomi Dwarka & Porbandar) and 120 -150 kmph gusting to 165 kmph over Kutch, Porbandar, Junagarh, Jamnagar districts of Gujarat from 18<sup>th</sup> May afternoon / evening for subsequent 06 hours.

# (iii) Sea condition

- Sea conditions will be very rough over southeast Arabian Sea and adjoining Lakshadweep -Maldives area & equatorial Indian Ocean during next 12 hours.
- Sea condition over eastcentral Arabian Sea will be high to very high on 15<sup>th</sup> & very high to Phenomenal on 16<sup>th</sup> May and over northeast Arabian Sea on 17<sup>th</sup> & 18<sup>th</sup> May.
- Sea conditions will be rough to very rough over Comorin area and along & off Kerala coast on 15<sup>th</sup>, very rough to High over east central Arabian Sea along & off Karnataka coast on 15<sup>th</sup> May and Maharashtra Goa coasts on 15<sup>th</sup> & 16<sup>th</sup> May. It is very likely to be very rough to High over

northeast Arabian Sea along & off south Gujarat coast from 17th May morning and very high to Phenomenal from 18<sup>th</sup> morning.

# (iv) Storm surge warning

Tidal wave of about 2- 3 m above astronomical tide is likely to inundate coastal areas of Morbi, Kutch, Devbhoomi Dwarka & Jamnagar districts and 1-2 meters along Porbandar, Junagarh, Diu, Gir Somnath, Amreli, Bhavnagar and 0.5 to 1m over the remaining coastal districts of Gujarat during the time of landfall..

### (v) Fishermen Warning

- Total suspension of fishing operations over eastcentral and adjoining southeast Arabian Sea and along & off Kerala – Karnataka – Goa – Maharashtra coasts.
- Total suspension of fishing operations over northeast Arabian Sea and along & off Gujarat coast from 17<sup>th</sup> May.
- The fishermen are advised not to venture into southeast Arabian Sea, Lakshadweep Maldives areas, east central Arabian Sea along & off Karnataka coast, eastcentral Arabian Sea and along & off Maharashtra Goa coasts and into eastcentral adjoining northeast Arabian Sea along & off Gujarat coast till 18<sup>th</sup> May.
- Those who are out at Sea over north Arabian Sea are advised to return to the coast.

# (vi) (A) Damage Expected over Devbhoomi Dwarka, Kutch, Porbandar, Junagarh, Gir Somnath & Jamnagar districts of Gujarat:

- ➤ Total destruction of thatched houses/ extensive damage to kutcha houses. Some damage to pucca houses. Potential threat from flying objects.
- Bending/ uprooting of power and communication poles.
- Major damage to Kutcha and Pucca roads. Flooding of escape routes. Minor disruption of railways, overhead power lines and signaling systems.
- Widespread damage to salt pans & standing crops,. Blowing down of bushy trees.
- Small boats, country crafts may get detached from moorings.
- Visibility severely affected.

#### (vi) (B) Damage Expected over Amreli, Rajkot & Morbi districts of Gujarat:

- Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
- 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.

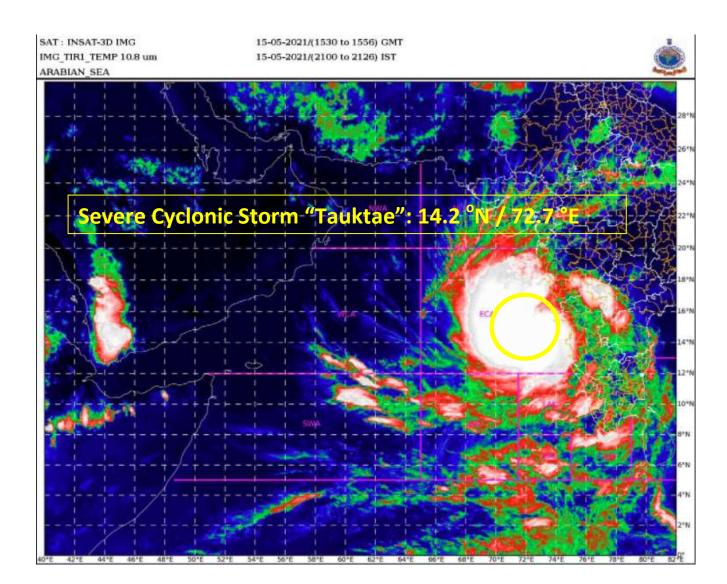
## (vii) Action Suggested:

- Total suspension of fishing operations.
- Judicious regulation of rail and road traffic.
- People in affected areas to remain indoors.
- Movement in motor boats and small ships unsafe.

The next bulletin will be issued at 0230 hrs IST of tomorrow, the 16<sup>th</sup> May, 2021.

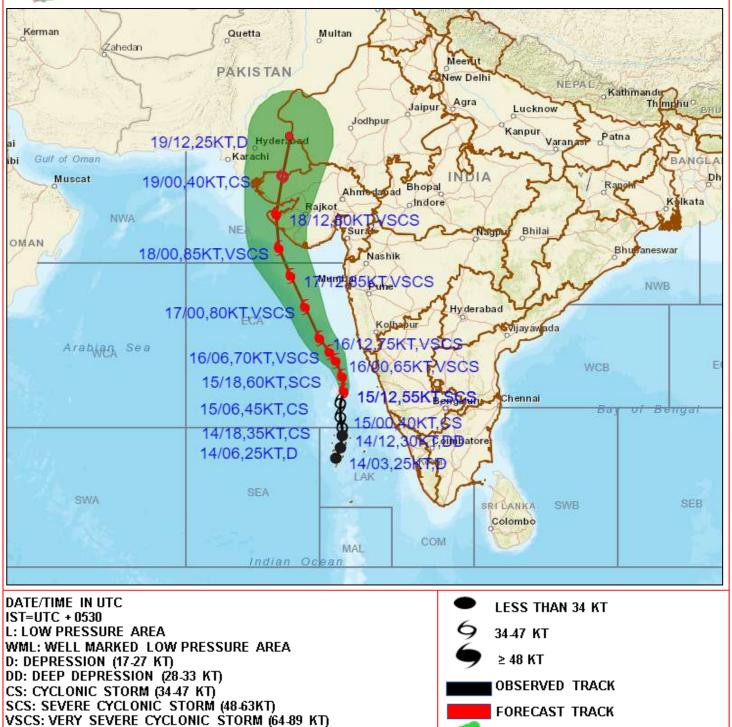
(DR Pattanaik) Scientist-F, RSMC, New Delhi

Copy to: ACWC Chennai/ ACWC Mumbai/ MC Goa/ MC Bengaluru/ CWC Ahmedabad/ Thiruvanathapuram.





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF SEVERE CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 1200 UTC OF 15<sup>TH</sup> MAY, 2021



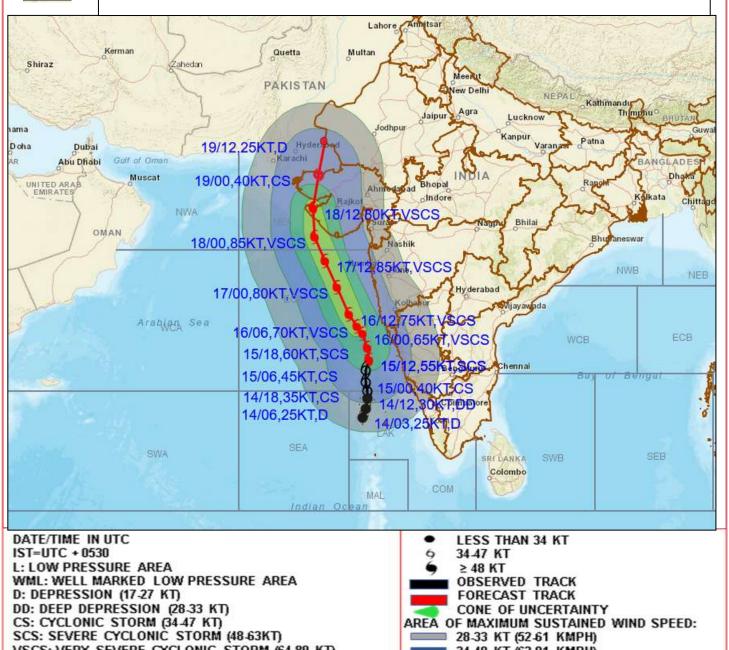
CONE OF UNCERTAINTY

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

Sucs: Super cyclonic storm (≥20 kt)



# **OBSERVED & FORECAST TRACK OF SEVERE CYCLONE 'TAUKTAE' WITH CONE** OF UNCERTAINTY OVER EAST CENTRAL ARABIAN SEA AT 1200 UTC OF 15<sup>TH</sup> **MAY 2021**



VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT) 34-49 KT (62-91 KMPH) ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT) 50-63 KT (92-117 KMPH) SuCS: SUPER CYCLONIC STORM (≥20 KT) ≥ 64 KT (≥118 KMPH)

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