

## India Meteorological Department (Ministry of Earth Sciences)

## BULLETIN NO.: 09(ARB/01/2021)

TIME OF ISSUE: 1430 HOURS IST

DATED: 15.05.2021

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

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23092398/23093750) CONTROL ROOM NDMA (FAX.NO. 26701729) CABINET SECRETARIAT (FAX.NO.23012284, 23018638) PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745) SECRETARY, MOES (FAX NO. 24629777) H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147) DIRECTOR GENERAL, DOORDARSHAN (23385843) DIRECTOR GENERAL, AIR (23421101, 23421105, 23421219) PIB MOES (FAX NO. 23389042) UNI (FAX NO. 23355841) D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260) DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503) CHIEF SECRETARY, KERALA (FAX NO. 0471-2327176) ADMINISTRATOR, LAKSHADWEEP ISLANDS (FAX NO. 0413-262184) CHIEF SECRETARY, KARNATAKA (FAX NO. 080-22258913) CHIEF SECRETARY, GOA (FAX NO. 0832-2415201) CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022- 22028594) CHIEF SECRETARY, GUJARAT (FAX NO. 079-23250305) CHIEF SECRETARY, DAMAN & DIU (FAX NO. 0260-2230775) CHIEF SECRETARY, DADRA & NAGAR HAVELI (FAX NO. 0260-2645466) CHIEF SECRETARY, TAMIL (FAX NO. 044-25672304)

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

The **Cyclonic Storm "Tauktae" (pronounced as Tau'Te)** over eastcentral and adjoining southeast Arabian Sea moved nearly northwards with a speed of about 13 kmph during past 06 hours and lay centred at 1130 hours IST of today, the 15<sup>th</sup> May, 2021 over eastcentral Arabian Sea near latitude 13.2°N and longitude 72.5°E, about 290 km southwest of Panjim-Goa, 650 km south-southwest of Mumbai, 880 km south-southeast of Veraval (Gujarat) and 980 km south-southeast of Karachi (Pakistan).

It is very likely to intensify further into a Severe Cyclonic Storm during next 3 hours and into a Very Severe Cyclonic Storm during the subsequent 12 hours. It is very likely to move northnorthwestwards 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.

Date/Time(IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
15.05.21/1130	13.2/72.5	80-90 gusting to 100	Cyclonic Storm
15.05.21/1730	13.8/72.4	95-105 gusting to 115	Severe Cyclonic Storm
15.05.21/2330	14.5/72.3	110-120 gusting to 135	Severe Cyclonic Storm
16.05.21/0530	15.3/72.0	115-125 gusting to 140	Very Severe Cyclonic Storm
16.05.21/1130	15.7/71.7	125-135 gusting to 150	Very Severe Cyclonic Storm
16.05.21/2330	17.2/71.1	135-145 gusting to 160	Very Severe Cyclonic Storm
17.05.21/1130	18.7/70.3	145-155 gusting to 170	Very Severe Cyclonic Storm
17.05.21/2330	20.1/69.7	150-160 gusting to 175	Very Severe Cyclonic Storm
18.05.21/1130	21.4/69.2	150-160 gusting to 175	Very Severe Cyclonic Storm
18.05.21/2330	23.2/69.5	125-135 gusting to 150	Very Severe Cyclonic Storm
19.05.21/1130	25.0/70.0	60-70 gusting to 80	Cyclonic Storm

Forecast track and intensity are given in the following table:

# 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 most places with heavy to very heavy falls at a few places and extremely heavy falls at isolated places on 15<sup>th</sup>, 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, at many places 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

- Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over Maldives area and equatorial Indian Ocean during next 06 hours.
- Gale wind speed reaching 80 –90 kmph gusting to 100 kmph is prevailing over east-central Arabian Sea and adjoining southeast Arabian Sea and Lakshadweep area. 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 50-60 kmph gusting to 70 kmph along & off Kerala coast on 15<sup>th</sup> May.
- 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> 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 06 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.

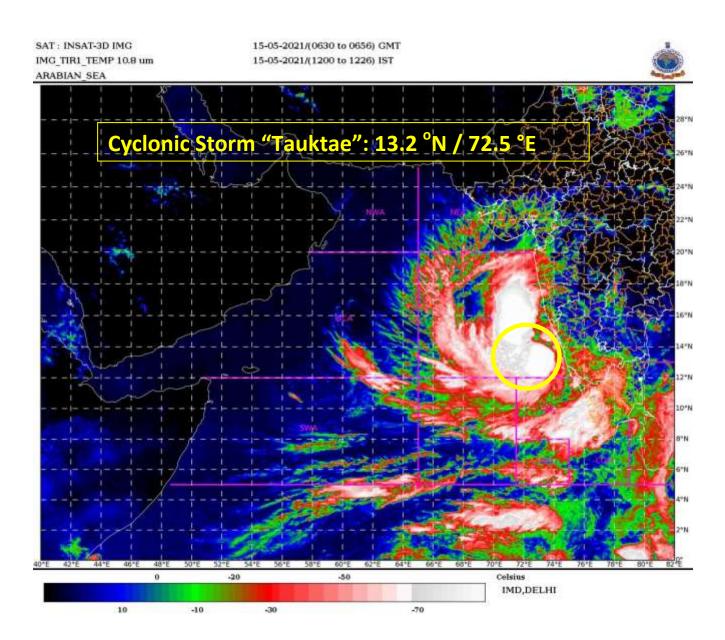
### (vii) Action Suggested:

- 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 1730 hrs IST of 15<sup>th</sup> May, 2021.

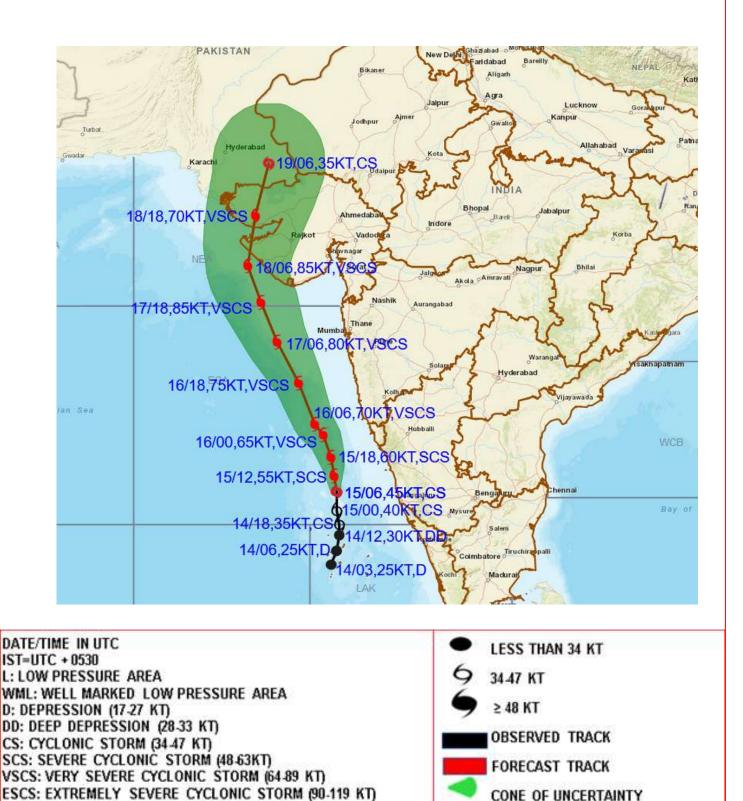
(Sunitha Devi. S) Scientist-F, RSMC, New Delhi

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

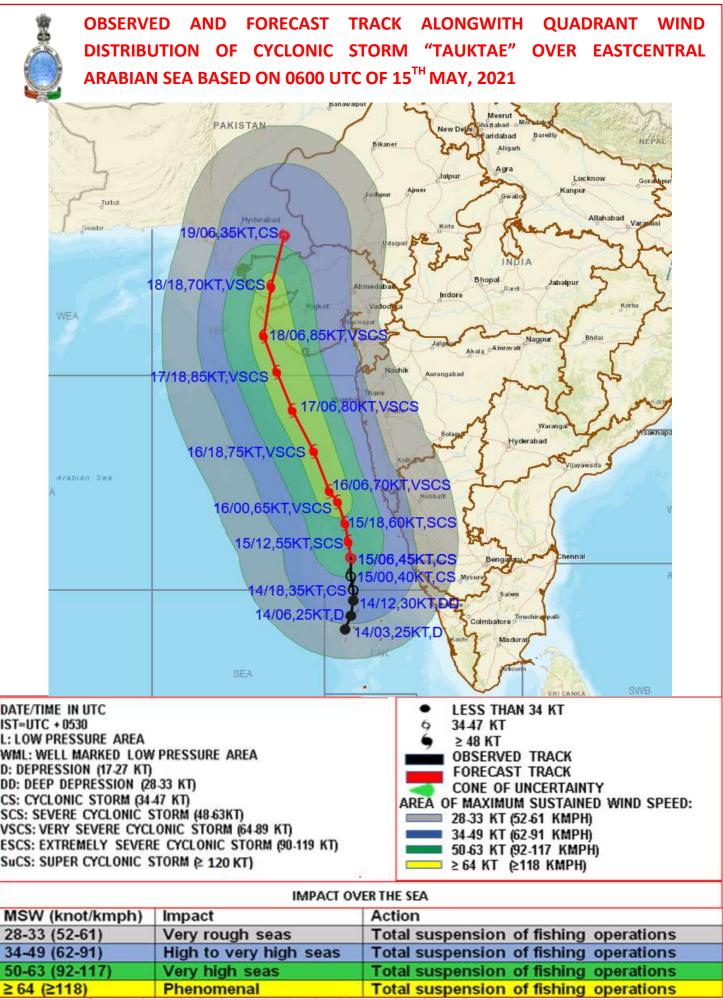




OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 0600 UTC OF 15<sup>TH</sup> MAY, 2021



SuCS: SUPER CYCLONIC STORM (≥ 120 KT)



Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100% Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.