



India Meteorological Department  
(Ministry of Earth Sciences)

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

The **Cyclonic Storm "Tauktae" (pronounced as Tau'Te)** over eastcentral Arabian Sea moved nearly northwards with a speed of about 12 kmph during past 06 hours, intensified into a **Severe Cyclonic storm** and lay centred at 1730 hours IST of today, the 15<sup>th</sup> May, 2021 over eastcentral Arabian Sea near latitude 13.8°N and longitude 72.7°E, about 220 km south-southwest of Panjim-Goa, 590 km south-southwest of Mumbai, 820 km south-southeast of Veraval (Gujarat) and 940 km south-southeast of Karachi (Pakistan).

It is very likely to intensify further 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. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
15.05.21/1730	13.8/72.7	95-105 gusting to 115	Severe Cyclonic Storm
15.05.21/2330	14.5/72.6	105-115 gusting to 125	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

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.

## 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 places 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 ( $\geq 20$  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 95 – 105 kmph gusting to 115 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 on 16<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

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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:**

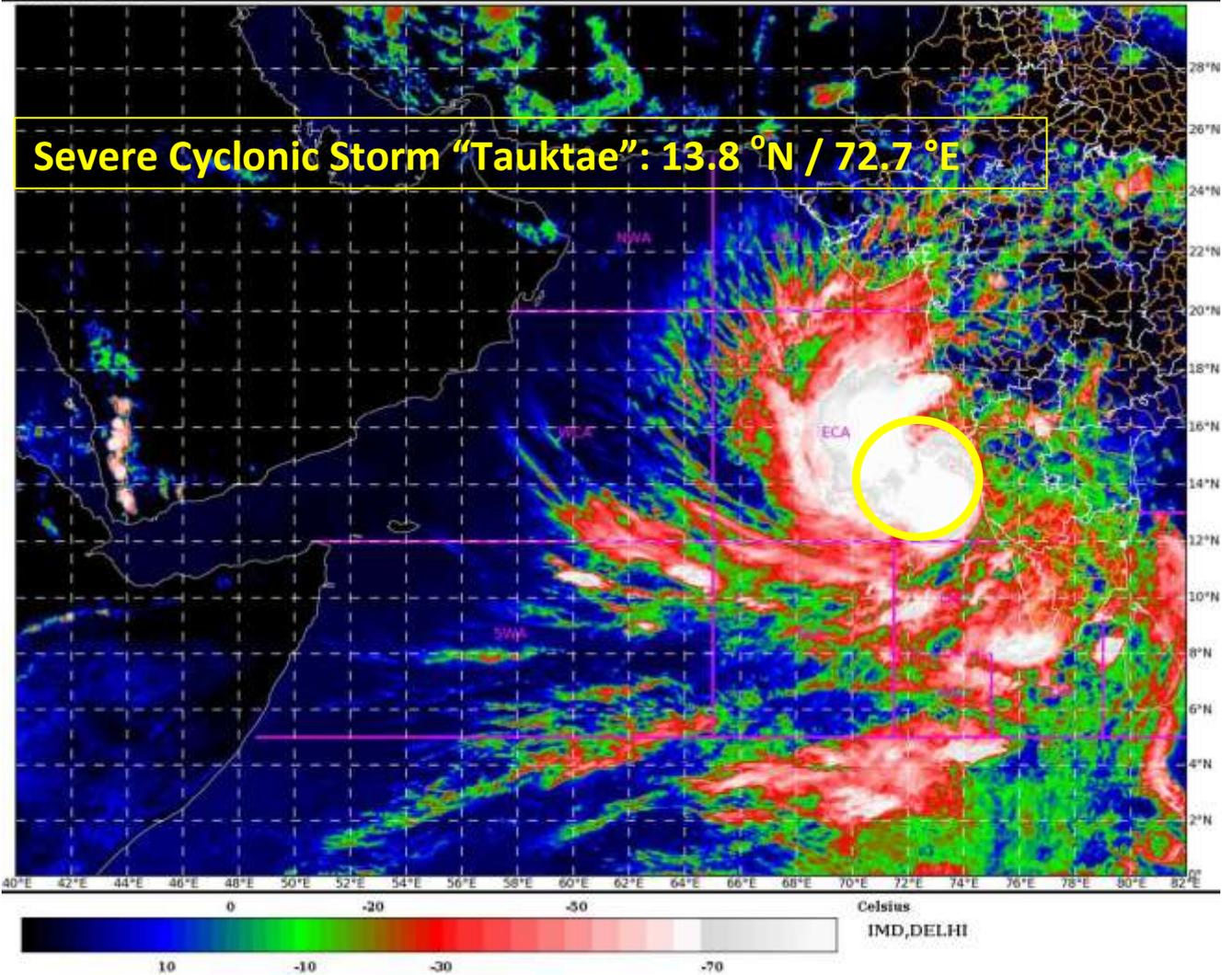
- Total suspension of fishing operations.
- Judicious regulation of rail and road traffic.
- People in affected areas to remain indoors.
- Movement in motor boats and small ships unsafe.

*The next bulletin will be issued at 2330 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/ Thiruvananthapuram.**

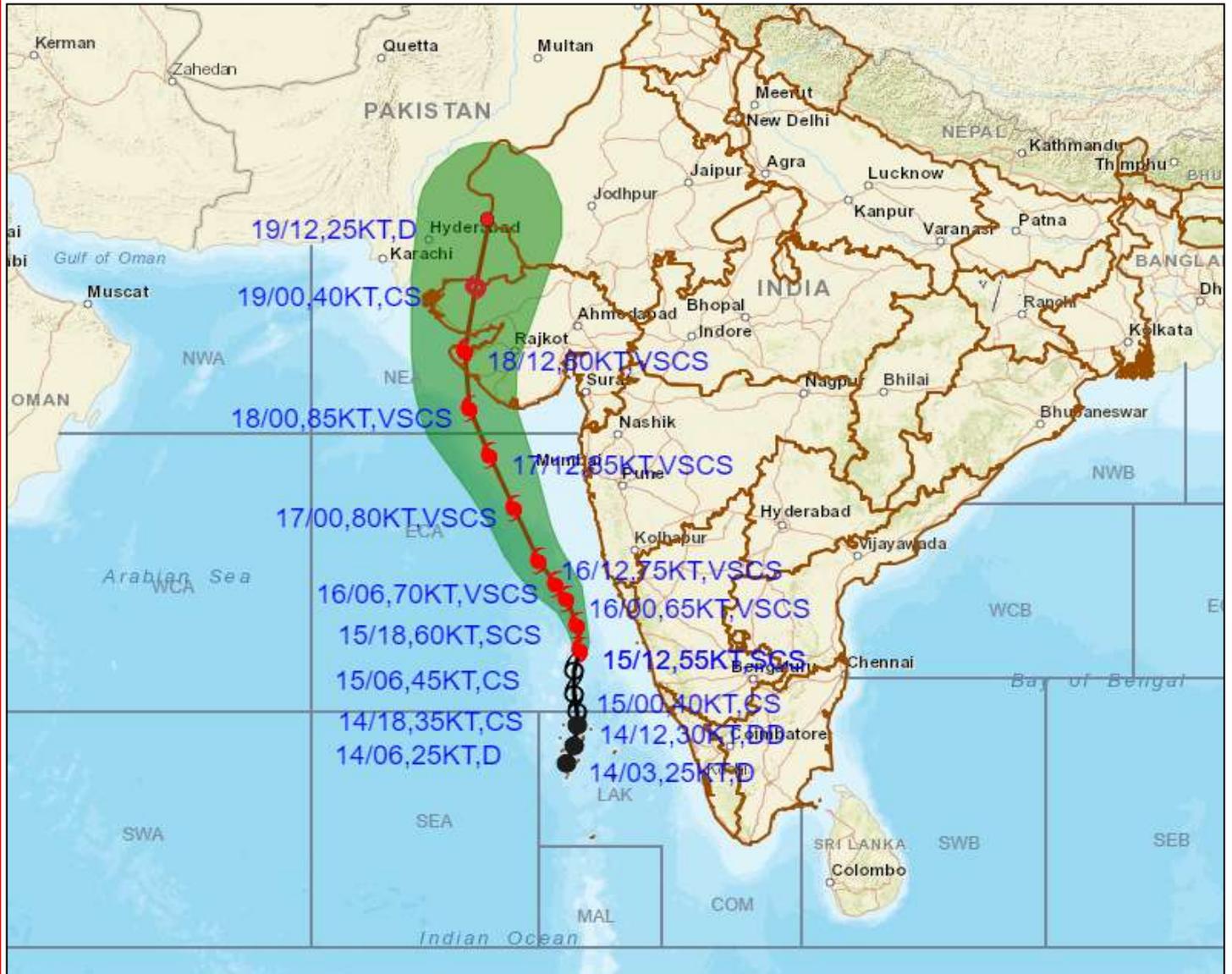
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**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "TAUKTAE" OVER EASTCENTRAL ARABIAN SEA BASED ON 1200 UTC OF 15<sup>TH</sup> MAY, 2021**



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 (≥20 KT)

● LESS THAN 34 KT

○ 34-47 KT

⊕ ≥ 48 KT

— OBSERVED TRACK

— FORECAST TRACK

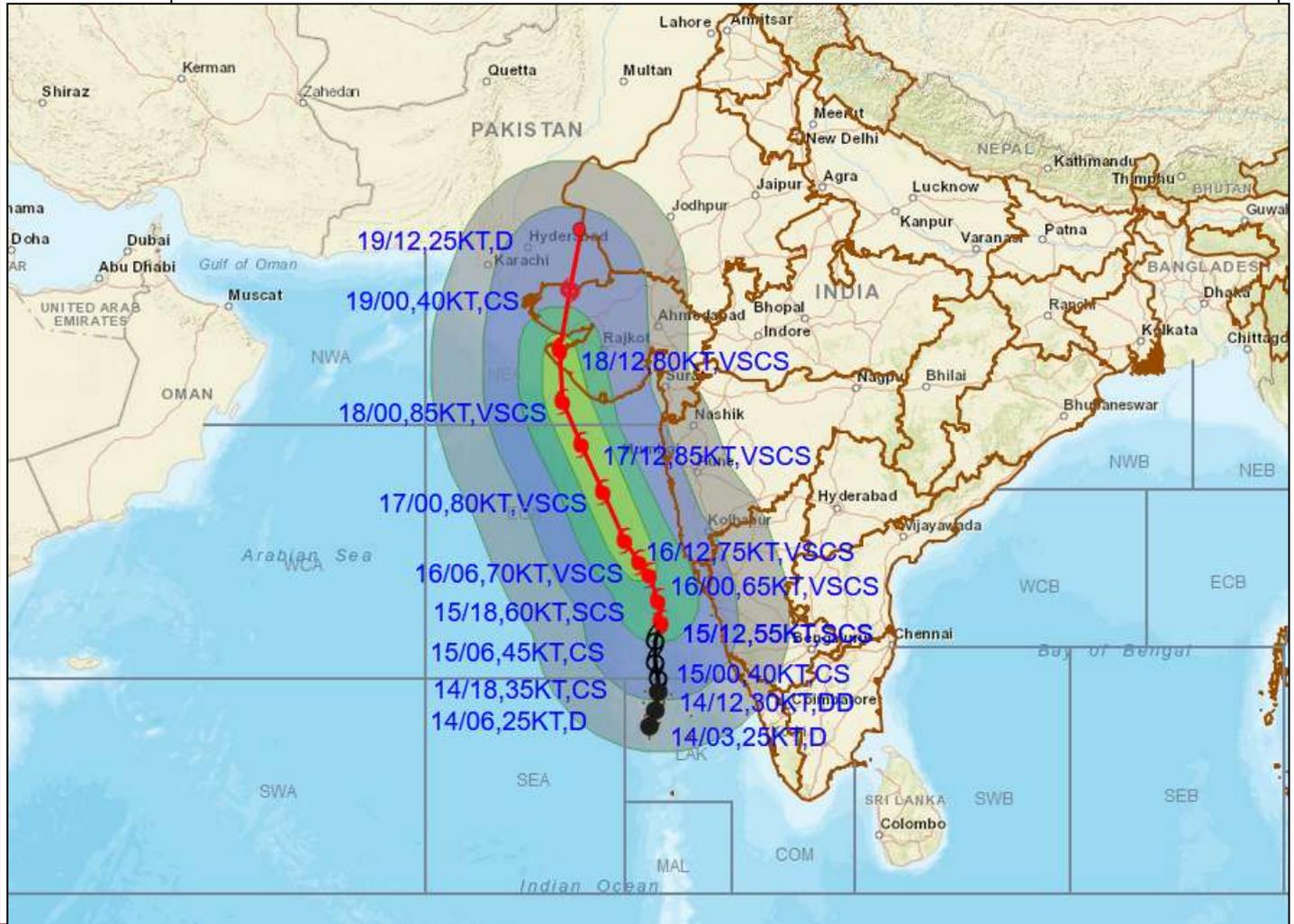
▲ CONE OF UNCERTAINTY

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.



## 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



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

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