



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

**BULLETIN NO.34: (ARB/01/2021)**

**TIME OF ISSUE: 1600 HOURS IST**

**DATED: 18.05.2021**

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

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

**Subject: Cyclonic Storm "Tauktae" (pronounced as Tau'Te) over Saurashtra & adjoining Gujarat region**

The **Cyclonic Storm "Tauktae" (pronounced as Tau'Te)** over Saurashtra moved north-northeastwards with a speed of about 18 kmph during past 06 hours, and lay centred at 1430 hours IST of today, the 18<sup>th</sup> May, 2021 over Saurashtra & adjoining Gujarat region near latitude 22.5°N and longitude 71.8°E, about 190 km south-southwest of Deesa (Gujarat), and 105 km south-southwest of Ahmedabad and 35 km southwest of Surendranagar (Gujarat).

It is very likely to move north-northeastwards and weaken gradually into a Deep Depression during next 03 hours and into a Depression during the subsequent 06 hours. The remnant of the system is very likely to move north-eastwards across Rajasthan to west Uttar Pradesh during 19<sup>th</sup> & 20<sup>th</sup> May.

Forecast track and intensity are given in the following table:

<b>Date/Time(IST)</b>	<b>Position (Lat. °N/ long. °E)</b>	<b>Maximum sustained surface wind speed (Kmph)</b>	<b>Category of cyclonic disturbance</b>
18.05.21/1430	22.5/71.8	80-90 gusting to 100	Cyclonic Storm
18.05.21/1730	23.2/72.2	55-65 gusting to 75	Deep Depression
18.05.21/2330	23.8/72.6	40-50 gusting to 60	Depression
19.05.21/0530	24.5/73.1	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 18<sup>th</sup> May.
- **Rajasthan:** Light to moderate rainfall at many places with heavy to very heavy falls at isolated places very likely over south Rajasthan on 18<sup>th</sup> & heavy falls at isolated places over north Rajasthan on 19<sup>th</sup> May.

### (ii) Wind warning

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Gulf of Khambhat and adjoining northeast Arabian Sea during next 06 hours. It is likely to reduce gradually thereafter.
- Squally wind speed reaching 40-50 gusting to 60 kmph along & off extreme north Maharashtra coast during next 06 hours.
- Gale winds speed reaching 90-100 kmph gusting to 110 kmph likely to prevail over Amreli, Bhavnagar, Botad, 80-90 kmph gusting to 100 kmph over Surendranagar, Rajkot, Anand, South Ahmedabad: 50-60 kmph gusting to 70 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 18<sup>th</sup> till 19<sup>th</sup> 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 06 hours and improve gradually thereafter.
- Sea conditions will be rough to very rough along & off north Maharashtra coast during next 06 hours and improve thereafter.

### (iv) Storm surge warning

Tidal wave **about 0.5 - 1 meter (m)** above astronomical tide is likely to inundate low lying areas **of Anand & Amreli, Gir Somnath, Diu, Bhavnagar**, Bharuch, southern parts of Ahmedabad, Surat, Navsari, Valsad during next 03 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 18<sup>th</sup> 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.
- Breaking of tree branches, uprooting of trees. Moderate damage to banana and papaya trees. Large dead limbs blown from trees.

**(vi) (B) Damage expected over interior districts of Gujarat (Districts apart from those mentioned under warning) and over southern districts of Rajasthan on 18<sup>th</sup> 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.

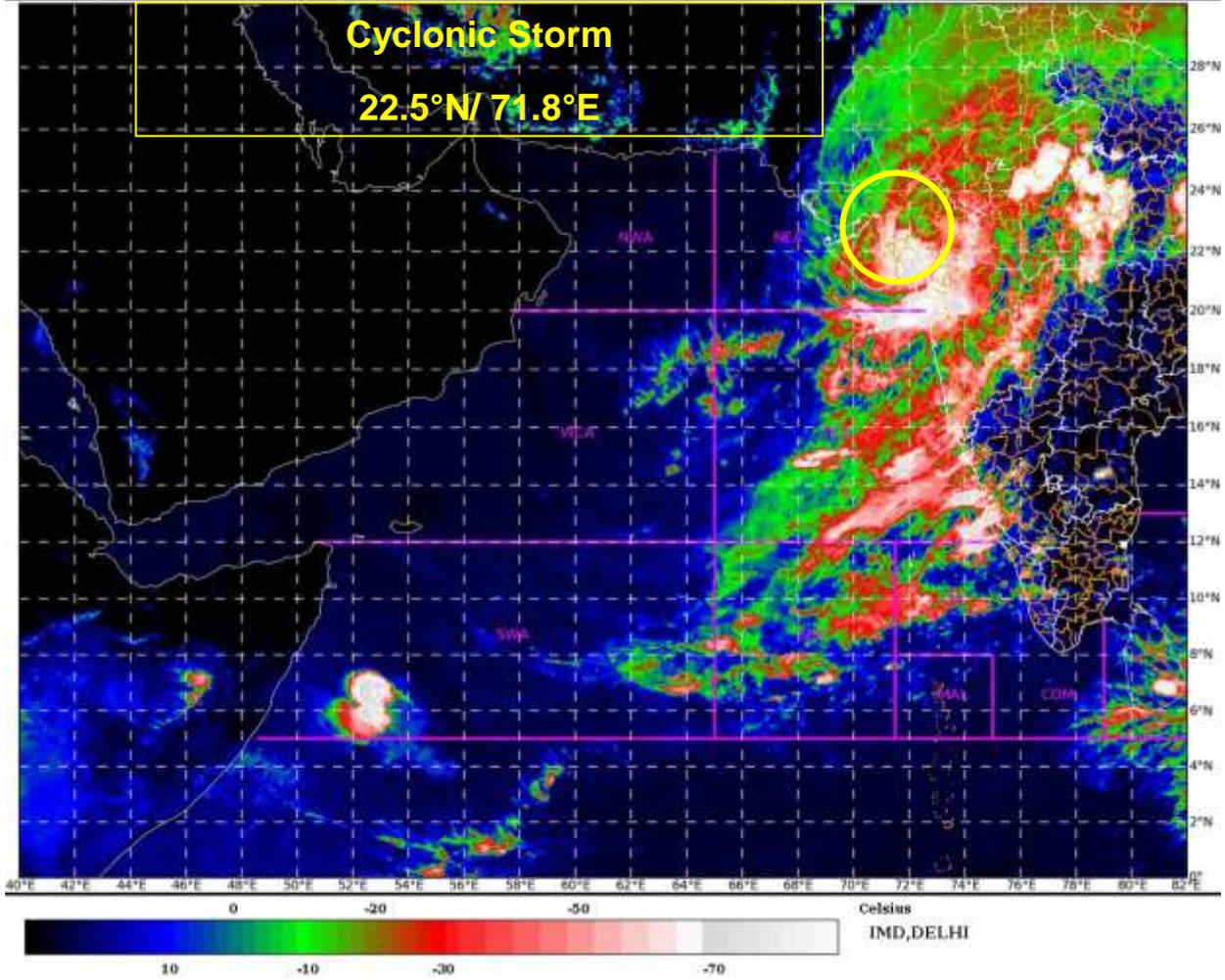
The next bulletin will be issued at 2030 hrs IST of 18<sup>th</sup> May, 2021.

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

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

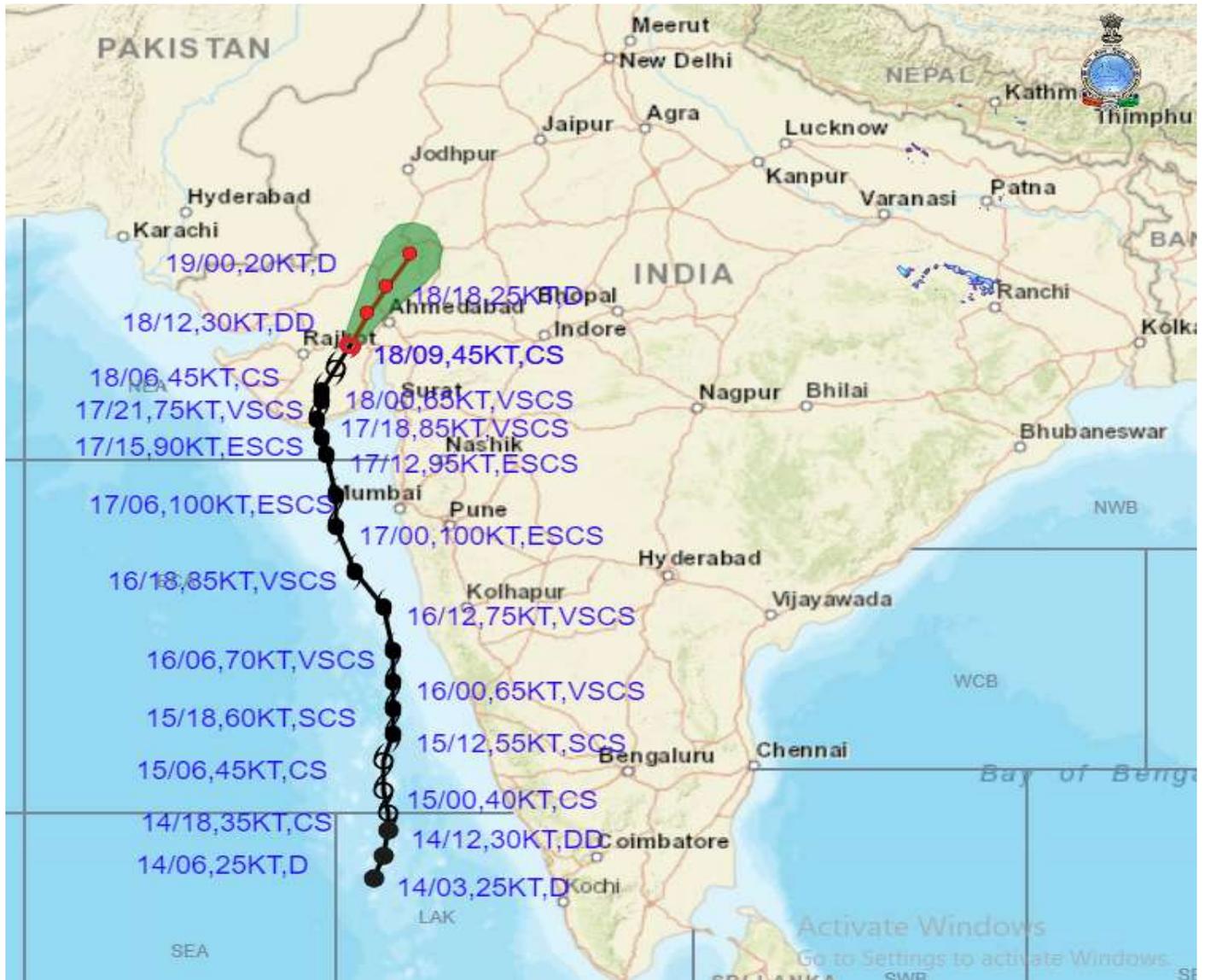
SAT : INSAT-3D IMG  
IMG\_TIR1\_TEMP 10.8 um  
ARABIAN SEA

18-05-2021/(0930 to 0956) GMT  
18-05-2021/(1500 to 1526) IST





# OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM "TAUKTAE" OVER SAURASHTRA & ADJOINING GUJARAT REGION BASED ON 0900 UTC OF 18<sup>TH</sup> MAY, 2021

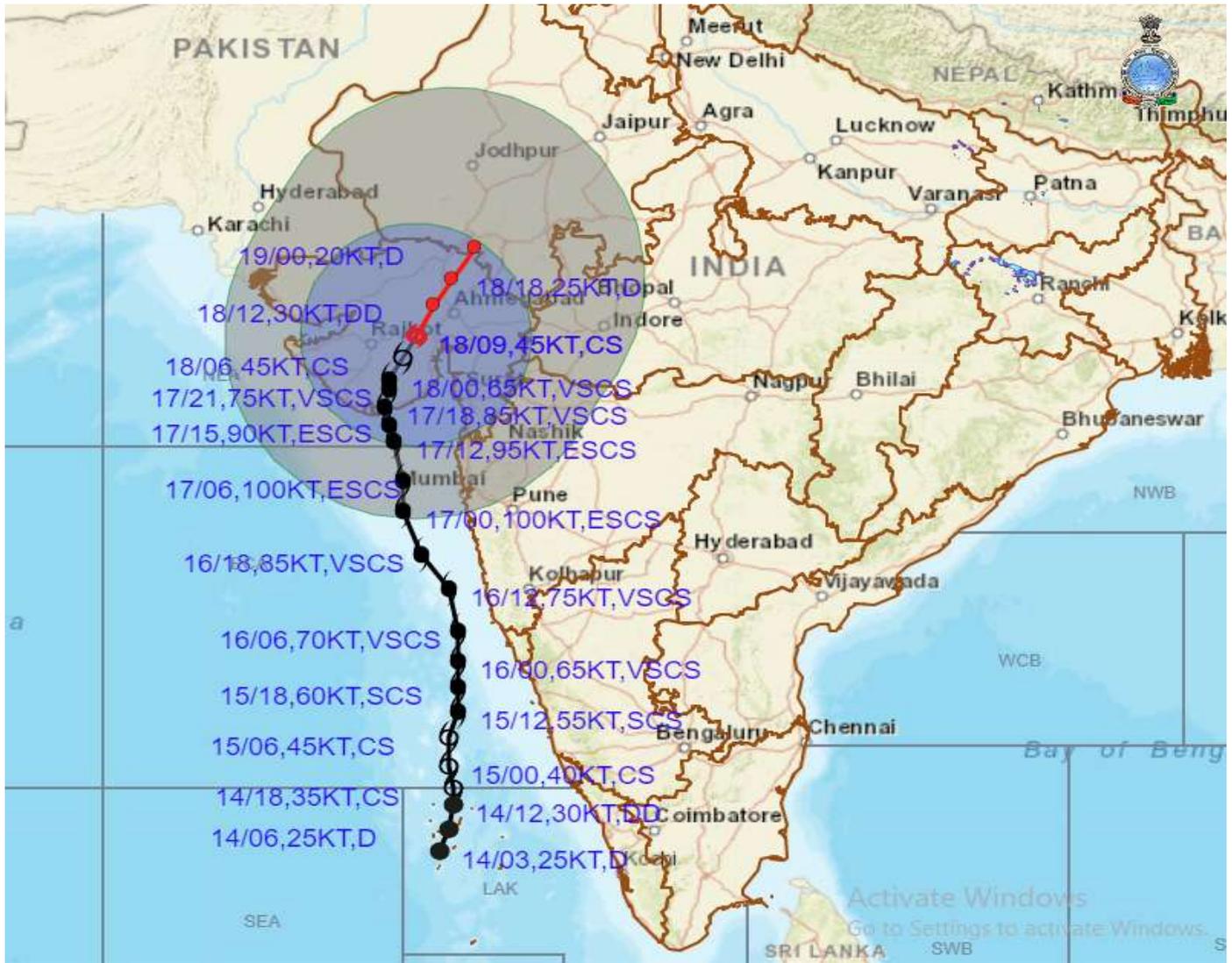


DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE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



# OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "TAUKTAE" OVER SAURASHTRA & ADJOINING GUJARAT REGION BASED ON 0900 UTC OF 18TH MAY,



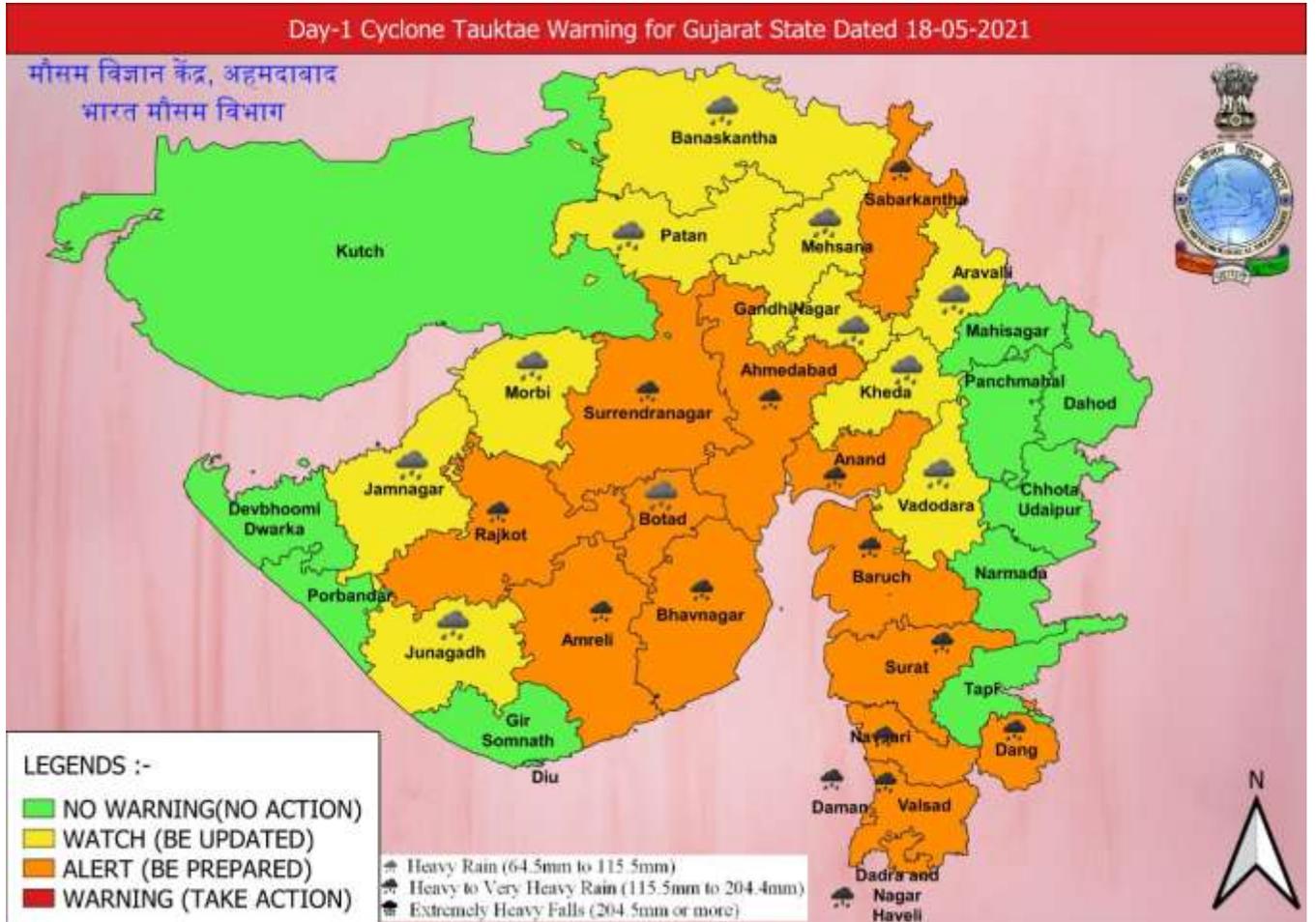
DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE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

● LESS THAN 34 KT  
 ○ 34-47 KT  
 ⊙ ≥ 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)  
 ■ ≥ 64 KT (≥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
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

**HEAVY RAINFALL WARNING FOR GUJARAT STATE TILL 0830 HOURS IST OF 19<sup>TH</sup> MAY**



**HEAVY RAINFALL WARNING FOR GUJARAT STATE FROM 0830 HOURS IST OF 18<sup>TH</sup> TO 0830 HOURS IST OF 19<sup>TH</sup> MAY**

## WIND WARNING FOR GUJARAT STATE FOR NEXT 06 HOURS

