



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

BULLETIN NO.35: (ARB/01/2021)

TIME OF ISSUE: 1950 HOURS IST

DATED: 18.05.2021

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, 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, RAJASTHAN (FAX NO. 0141-2227114)

Subject: Cyclonic Storm “Tauktae” (pronounced as Tau’Te) over Gujarat region

The **Cyclonic Storm “Tauktae” (pronounced as Tau’Te)** over Saurashtra moved north-northeastwards with a speed of about 23 kmph during past 06 hours, and lay centred at 1730 hours IST of today, the 18th May, 2021 over Gujarat region near latitude 23.1°N and longitude 72.3°E, about 120 km south-southeast of Deesa (Gujarat), and 35 km west of Ahmedabad and 80 km east-northeast 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 northeastwards across Rajasthan to west Uttar Pradesh during 19th & 20th May.

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
18.05.21/1730	23.1/72.3	60-70 gusting to 90	Cyclonic Storm
18.05.21/2330	23.9/72.8	55-65 gusting to 75	Deep Depression
19.05.21/0530	24.7/73.5	40-50 gusting to 60	Depression
19.05.21/1130	25.5/74.2	20-30 gusting to 40	Well Marked Low

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 during next 12 hours.
- **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 winds speed reaching 60-70 kmph gusting to 90 kmph likely to prevail over Ahmedabad Surendranagar, Rajkot, Anand, squally winds speed reaching 45-55 kmph gusting to 65 kmph over Bhavnagar, Botad & Kheda 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 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) (A) Damage Expected over 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.

(iii) (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.

(iv) Action Suggested:

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

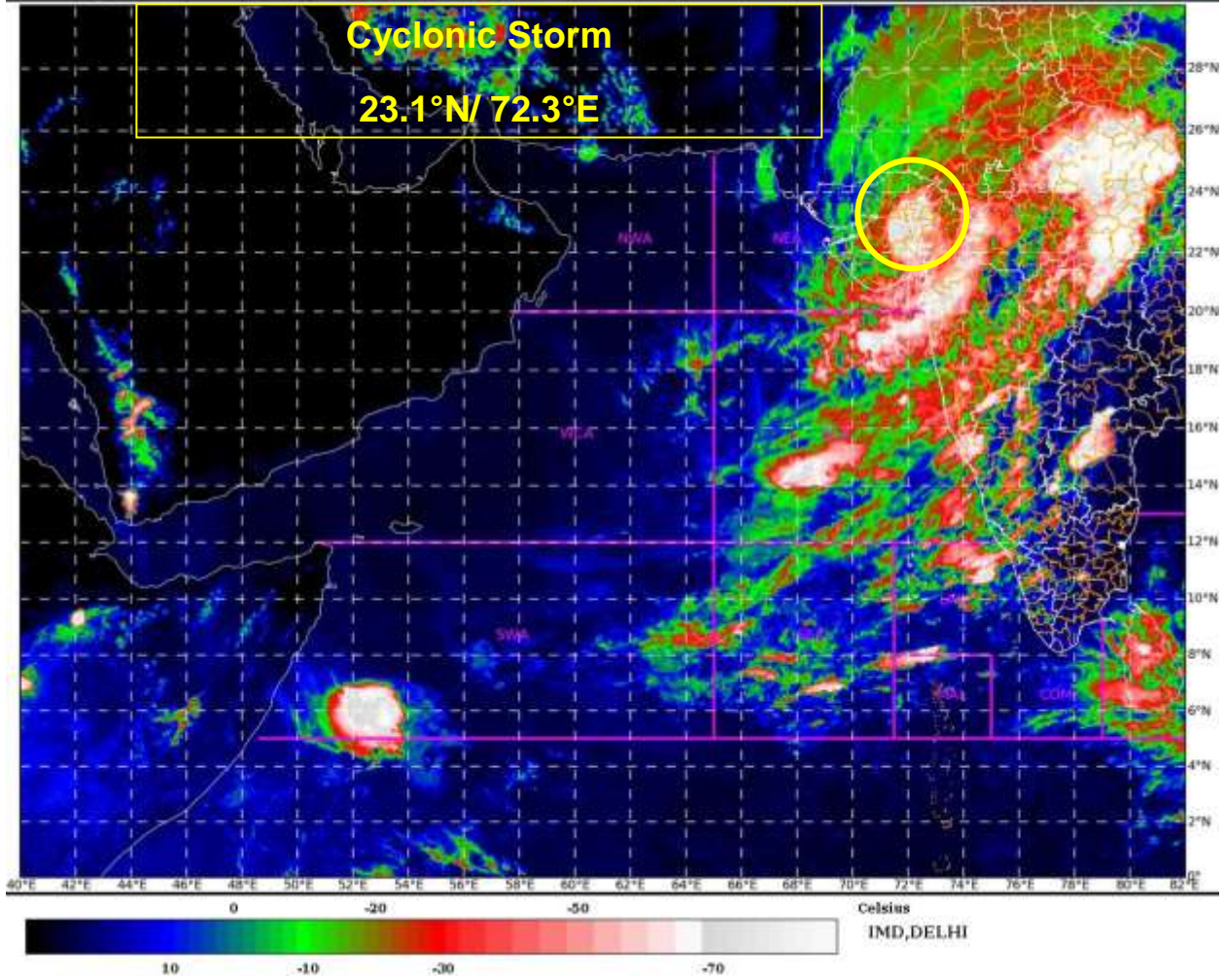
The next bulletin will be issued at 2330 hrs IST of 18th May, 2021.

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

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

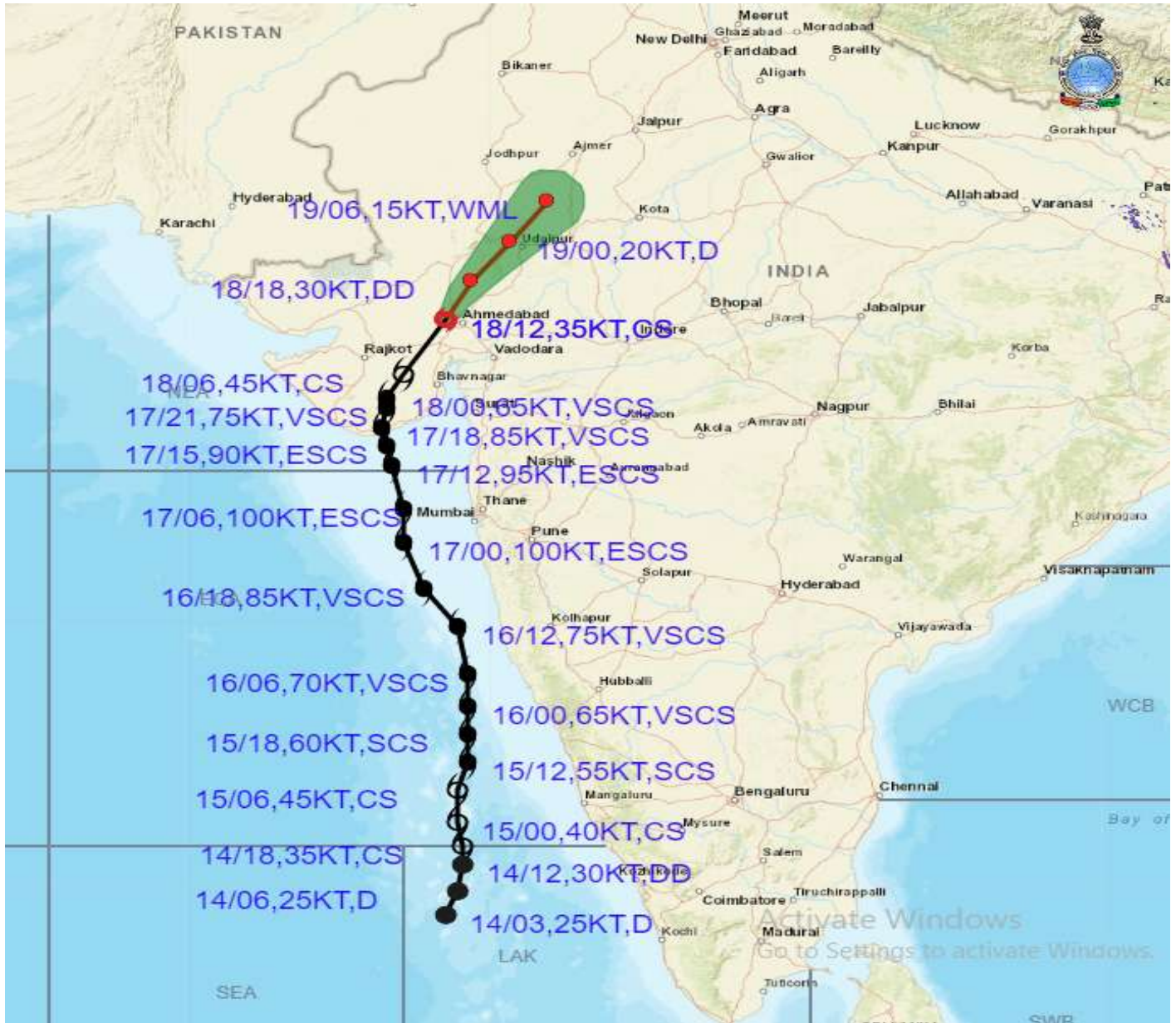
SAT : INSAT-3D IMG
IMG_TIRI_TEMP 10.8 um
ARABIAN SEA

18-05-2021/(1330 to 1356) GMT
18-05-2021/(1900 to 1926) IST





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM "TAUKTAE" OVER GUJARAT BASED ON 1200 UTC OF 18TH MAY, 2021

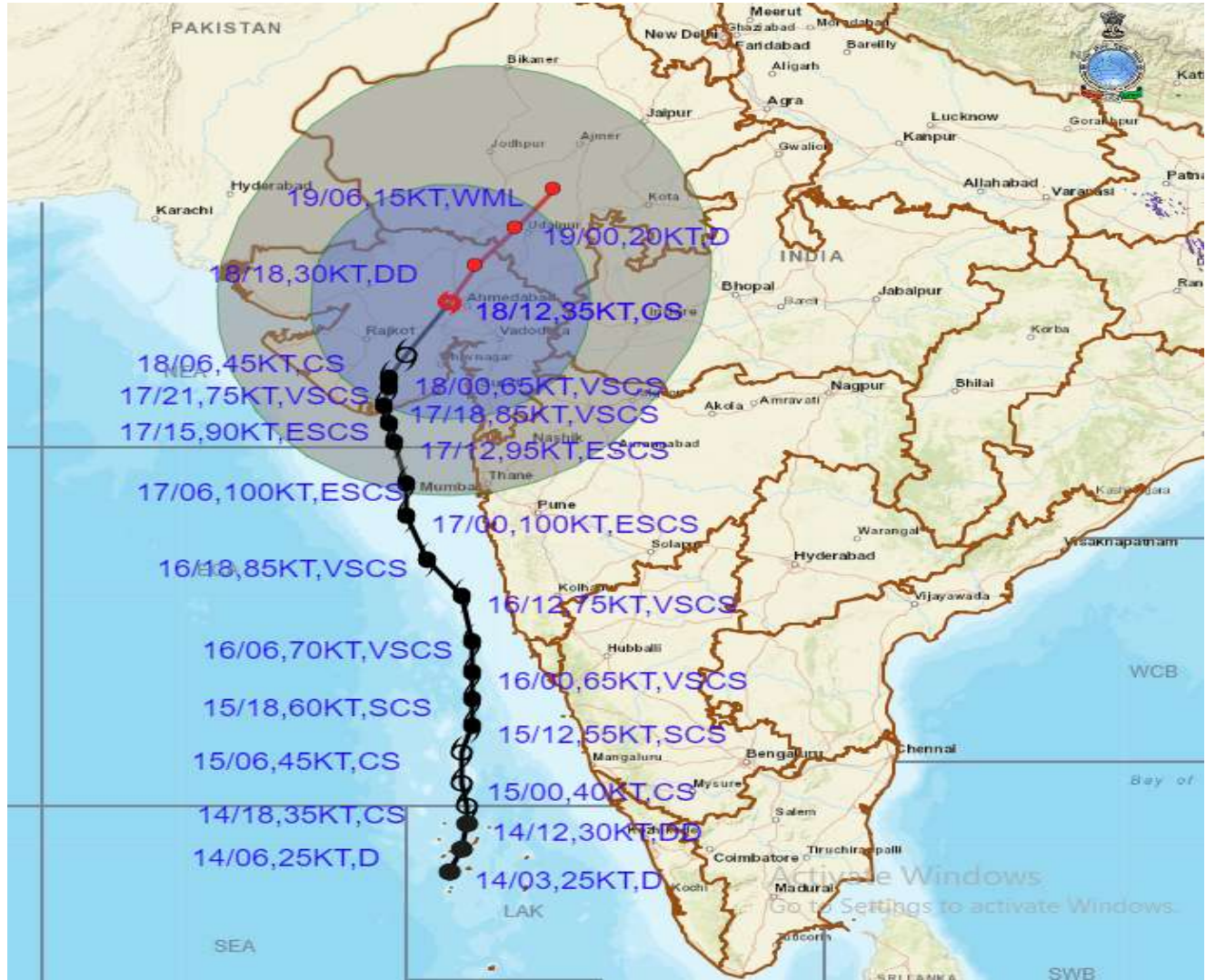


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (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 CYCLONIC STORM "TAUKTAE" OVER GUJARAT BASED ON 1200 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 (≥ 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

Day-1 Cyclone Tauktae Warning for Gujarat State Dated 18-05-2021

मौसम विज्ञान केंद्र, अहमदाबाद
भारत मौसम विभाग



LEGENDS :-

- NO WARNING (NO ACTION)
- WATCH (BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)

- Heavy Rain (64.5mm to 115.5mm)
- Heavy to Very Heavy Rain (115.5mm to 204.4mm)
- Extremely Heavy Falls (204.5mm or more)

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