

India Meteorological Department (Ministry of Earth Sciences)

NATIONAL BULLETIN NO. 9 (ARB/03/2023)

TIME OF ISSUE: 2015 HOURS IST

DATED: 21.10.2023

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

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 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 (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) ADMINISTRATOR, LAKSHADWEEP ISLANDS (FAX NO. 0413-262184) CHIEF SECRETARY, KERALA (FAX NO. 0471-2327176) 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, ODISHA (FAX NO. 0674-2536660) CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328) CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029, 08645-246600) CHIEF SECRETARY, TAMIL NADU (FAX NO 044-25672304) CHIEF SECRETARY, PUDUCHERRY (FAX NO 0413-2334145) CHIEF SECRETARY, GOVT. OF TRIPURA (FAX NO. 0381-2414013, 2413200) CHIEF SECRETARY, GOVT. OF MIZORAM (FAX NO. 0389-2322745, 2320588) CHIEF SECRETARY, GOVT. OF MANIPUR (FAX NO. 0385-2452629) CHIEF SECRETARY, GOVT. OF NAGALAND (FAX NO. 0370-2270057) ADMINISTRATOR, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192-232656)

Sub: (A) Severe Cyclonic Storm "Tej" (pronounced as Tej) over southwest Arabian Sea

(B) Well Marked Low pressure Area over westcentral and adjoining south Bay of Bengal

(A) Severe Cyclonic Storm "Tej" (pronounced as Tej) over southwest Arabian Sea

The Severe Cyclonic Storm "Tej" (pronounced as Tej) over southwest Arabian Sea moved west-northwestwards with a speed of 18 kmph during past 6 hours and lay centered at 1730 hours IST of 21st October over the same region, near latitude 10.6°N and longitude 57.4°E about 440 km east-southeast of Socotra (Yemen), 800 km south-southeast of Salalah (Oman) and 830 km southeast of Al Ghaidah (Yemen).

It is very likely to move west-northwestwards and intensify further into a very severe cyclonic storm during next 12 hours. Thereafter, it is likely to move northwestwards till 24th morning & then north-northwestwards. It is likely to cross Yemen-Oman coasts between Al Ghaidah (Yemen) & Salalah (Oman) around early hours of 25th October.

Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
21.10.23/1730	10.6/57.4	100-110 gusting to 120	Severe Cyclonic Storm
21.10.23/2330	11.1/56.8	105-115 gusting to 125	Severe Cyclonic Storm
22.10.23/0530	11.7/56.2	125-135 gusting to 150	Very Severe Cyclonic Storm
22.10.23/1130	12.2/55.7	135-145 gusting to 160	Very Severe Cyclonic Storm
22.10.23/1730	12.7/55.2	150-160 gusting to 175	Very Severe Cyclonic Storm
23.10.23/0530	13.5/54.4	165-175 gusting to 195	Extremely Severe Cyclonic Storm
23.10.23/1730	14.4/53.7	145-155 gusting to 170	Very Severe Cyclonic Storm
24.10.23/0530	15.1/53.2	125-135 gusting to 150	Very Severe Cyclonic Storm
24.10.23/1730	15.9/52.8	105-115 gusting to 125	Severe Cyclonic Storm
25.10.23/0530	16.6/52.5	90-100 gusting to 110	Severe Cyclonic Storm
25.10.23/1730	17.2/52.3	40-50 gusting to 60	Depression

Warnings:

(i) Wind warning (warning graphics enclosed):

• Southwest Arabian Sea:

Gale wind speed reaching **100-110 kmph gusting to 120 kmph** is prevailing and likely to increase gradually becoming **125-135 kmph gusting to 150 kmph** by morning of 22nd October. Thereafter, it is likely to decrease gradually becoming **Gale wind** speed reaching **90-100 kmph gusting to 110 kmph** by morning of 23rd and **Squally wind** speed reaching **50-60 kmph gusting to 70 kmph** by morning of 24th October. It would decrease gradually thereafter.

• Westcentral Arabian Sea:

Gale wind speed reaching 80-90 kmph gusting to 100 kmph is prevailing and likely to increase gradually becoming Gale wind speed reaching 110-120 kmph gusting to 135 kmph in the morning of 22nd, 165-175 kmph gusting to 195 kmph in the morning of 23rd October. Thereafter, it is likely to decrease gradually from evening of 23rd October becoming Gale wind speed reaching 125-135 kmph gusting to 150 kmph by 24th morning and 90-100 kmph gusting to 110 kmph on 25th morning. It would decrease rapidly after the landfall becoming Squally wind speed reaching 40-50 kmph gusting to 60 kmph in the evening of 25th October.

(ii) Sea Condition

• Southwest Arabian Sea:

High sea condition is prevailing and likely to become **phenomenal** from morning of 22nd to morning of 23rd October. It is likely to improve gradually becoming **very high** from 24th morning and continue till 25th morning. Thereafter, it would improve gradually.

• Westcentral Arabian Sea:

High sea condition is prevailing and likely to become **phenomenal** from 22nd morning to night of 24th October. It would improve gradually thereafter becoming **very high to high** from 24th night. Thereafter, it would improve gradually.

(iii) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

- Southwest Arabian Sea till 25th October.
- ✤ Westcentral Arabian Sea till night of 25th October.
- Those out at sea are advised to return to coast.

(B) Well Marked Low pressure Area over westcentral and adjoining south Bay of Bengal

The well marked low pressure area over westcentral and adjoining south Bay of Bengal moved slowly northwestwards and lay over the same region at 1730 hours IST of 21st October, 2023. It is very likely to move further northwestwards and intensify into a depression over westcentral Bay of Bengal during next 12 hours. Thereafter, it is likely to move north-northeastwards towards Bangladesh and adjoining West Bengal coasts and intensify further during subsequent 3 days.

Warnings:

(i) Rainfall Warning

Nagaland, Manipur, Mizoram & Tripura: Light to moderate rainfall at most places with isolated heavy rainfall is likely on 24th and 25th October.

Coastal Districts of Odisha: Light to moderate rainfall at a few places is likely on 23rd and at many places on 24th & 25th October.

Coastal Districts of West Bengal: Light to moderate rainfall at many places is likely on 24th and 25th October.

(ii) Wind warning (warning graphics enclosed):

- Westcentral Bay of Bengal: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing and likely to increase gradually becoming 50-60 kmph gusting to 70 kmph from morning of 22nd till 25th October. It is likely to decrease gradually thereafter.
- Adjoining eastcentral & southeast Bay of Bengal: Squally wind speed reaching 45-55 kmph gusting to 65 kmph is prevailing near the system and likely to become 50-60 kmph gusting to 70 kmph from morning of 22nd till 23rd October. It is likely to decrease gradually thereafter.
- North Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts: Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail from 24th to 26th October.

(iii) Sea Condition

- Westcentral Bay of Bengal: Rough sea condition is prevailing and likely to become rough to very rough from the morning of 22nd till 25th October. It is likely to improve gradually thereafter.
- Adjoining eastcentral & southeast Bay of Bengal: Moderate to rough sea condition is prevailing and likely to become rough to very rough on 23rd October. It is likely to improve gradually thereafter.
- North Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts: Rough to very rough sea condition is likely from 24th to 26th October.

(iv) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

- ✤ Westcentral Bay of Bengal from 21st October onwards till 25th October.
- ✤ Adjoining eastcentral & southeast Bay of Bengal till 23rd October.
- North Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts from 24th to 26th October.

Those out at sea are advised to return to coast.

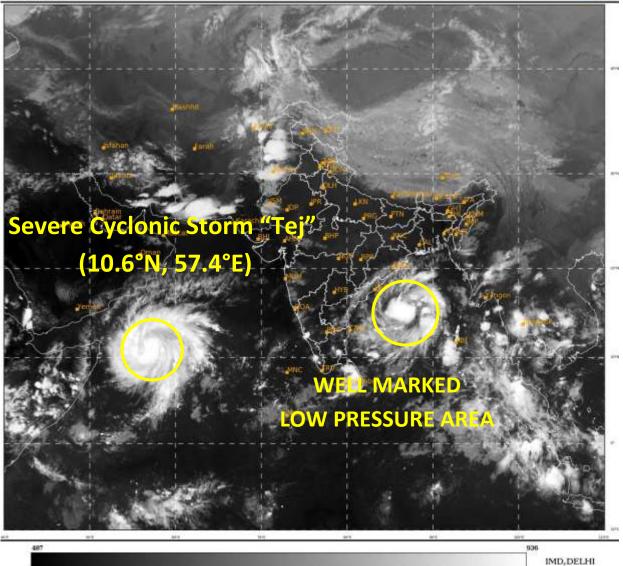
Both the systems are under continuous surveillance and the next bulletin will be issued at 2330 hours IST of today, the 21st October, 2023.

(Ananda Kumar Das)

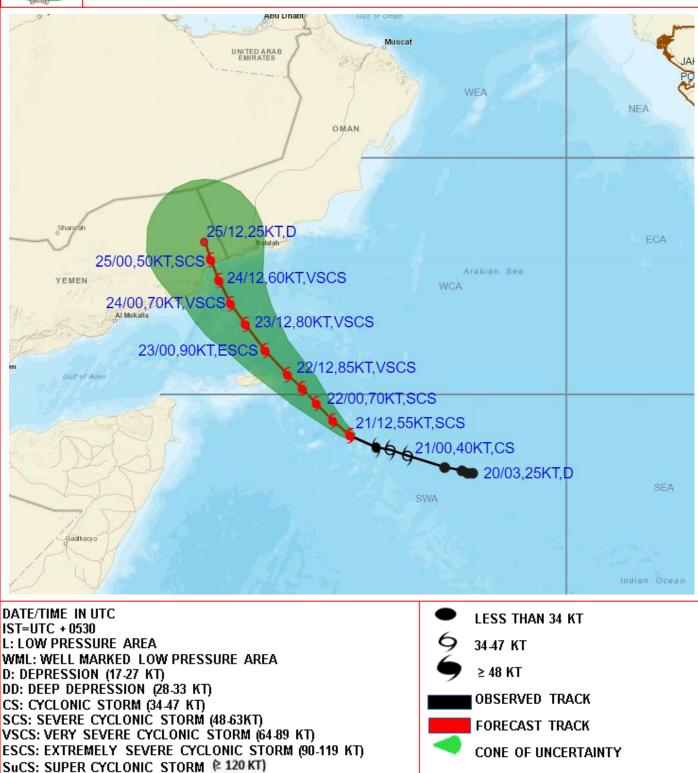
Scientist F, Cyclone Warning, New Delhi

Copy to: ACWC Mumbai/ ACWC Chennai/ ACWC Kolkata/CWC Ahmedabad/CWC Bhubaneswar/CWC Vishakhapatnam/CWC Thiruvananthapuram/MC Goa

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. SAT : INSAT-3D IMG IMG_TIR1 10.8 um L1C Mercator 21-10-2023/(1330 to 1356) GMT 21-10-2023/(1900 to 1926) IST

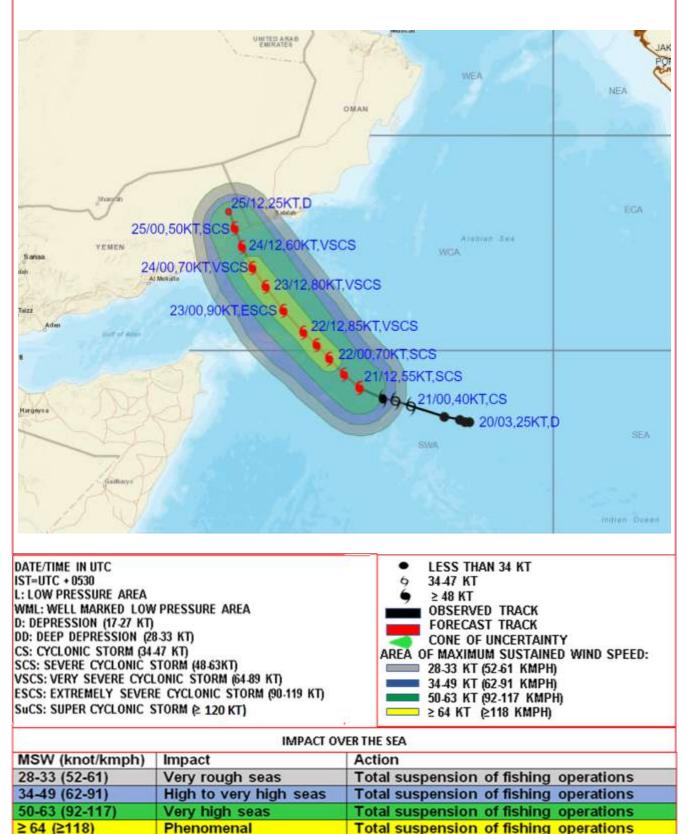


OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF CYCLONIC STORM "TEJ" OVER SOUTHWEST ARABIAN SEA BASED ON 1200 UTC (1730 IST) OF 21st OCTOBER 2023.





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "TEJ" OVER SOUTHWEST ARABIAN SEA BASED ON 1200 UTC (1730 IST) OF 21st OCTOBER 2023.



WEATHER WARNING GRAPHICS

