

India Meteorological Department (Ministry of Earth Sciences)

NATIONAL BULLETIN NO. 14 (ARB/03/2023)

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DATED: 22.10.2023

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

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Sub: (A) Very Severe Cyclonic Storm "Tej" (pronounced as Tej) intensified into Extremely Severe Cyclonic Storm over westcentral & adjoining southwest Arabian Sea and (B) Depression over westcentral Bay of Bengal

(A) Very Severe Cyclonic Storm "Tej" (pronounced as Tej) intensified into Extremely Severe Cyclonic Storm over westcentral & adjoining southwest Arabian Sea

The Very Severe Cyclonic Storm "Tej" (pronounced as Tej) over westcentral & adjoining southwest Arabian intensified into an Extremely Esevere Cyclonic Storm, moved northwestwards with a speed of 16 kmph during past 6 hours, and lay centered at 0830 hours IST of today, the 22nd October over the same region, near latitude 12.3°N and longitude 55.4°E about 160 km east-southeast of Socotra (Yemen), 540 km south-southeast of Salalah (Oman) and 550 km southeast of Al Ghaidah (Yemen).

It is very likely to move northwestwards and cross Yemen-Oman coasts between Al Ghaidah (Yemen) & Salalah (Oman), close to east of Al Ghaidah (Yemen) around noon of 24th October as a very severe cyclonic storm with wind speed of 115-125 kmph gusting to 140 kmph.

Forecast track and	intensity are	given below:
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Date/Time(IST)	Position (Lat. ^o N/ long. ^o E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
22.10.23/0830	12.3/55.4	170-180 gusting to 200	Extremely Severe Cyclonic Storm
22.10.23/1130	12.6/54.9	180-190 gusting to 210	Extremely Severe Cyclonic Storm
22.10.23/1730	13.2/54.3	190-200 gusting to 220	Extremely Severe Cyclonic Storm
22.10.23/2330	13.8/53.9	180-190 gusting to 210	Extremely Severe Cyclonic Storm
23.10.23/0530	14.4/53.5	170-180 gusting to 200	Extremely Severe Cyclonic Storm
23.10.23/1730	15.1/53.1	150-160 gusting to 175	Very Severe Cyclonic Storm
24.10.23/0530	16.0/52.5	125-135 gusting to 150	Very Severe Cyclonic Storm
24.10.23/1730	16.8/52.0	90-100 gusting to 110	Severe Cyclonic Storm
25.10.23/0530	17.6/51.6	60-70 gusting to 80	Cyclonic Storm
25.10.23/1730	18.6/51.1	30-40 gusting to 50	Depression

Warnings:

(i) Wind warning (warning graphics enclosed):

Southwest Arabian Sea:

Gale wind speed reaching **170-180 kmph gusting to 200 kmph** is prevailing and is likely to continue till night of 22nd October. Thereafter, it is likely to decrease gradually becoming **Gale wind** speed reaching **100-110 kmph gusting to 120 kmph** by evening 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 **170-180 kmph gusting to 200 kmph** is prevailing and likely to increase gradually becoming **190-200 kmph gusting to 220 kmph** in the evening of 22nd till morning of 23rd October. Thereafter, it is likely to decrease gradually becoming **Gale wind speed reaching 150-160 kmph gusting to 175 kmph** by 23rd evening and **90-100 kmph gusting to 110 kmph** on 24th evening. 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:

Phenomenal sea condition is prevailing and will continue till 23rd October. It is likely to improve gradually becoming **high to very rough** from 24th morning and continue till evening. Thereafter, it would improve gradually.

• Westcentral Arabian Sea:

Phenomenal sea condition is prevailing and will continue till evening of 24th October. It would improve gradually thereafter becoming **very high to high** from 24th evening and **very rough to rough** by evening of 25th October. 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) Depression over westcentral Bay of Bengal

The Depression over westcentral Bay of Bengal moved west-northwestwards with a speed of 06 kmph during past 6 hours and lay centered at 0830 hours IST of today, the 22nd October over the same region, near latitude 15.0°N and longitude 86.2°E about 590 km south of Paradip (Odisha), 740 km south of Digha (West Bengal), and 880 km south-southwest of Khepupara (Bangladesh).

It is likely to further intensify into a deep depression during next 12 hours. It is likely to move northwestwards during next 12 hours, then recurve and move north-northeastwards during subsequent 3 days towards Bangladesh and adjoining West Bengal coasts.

roccust track and intensity are given below.				
Date/Time(IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance	
22.10.23/0830	15.0/86.2	40-50 gusting to 60	Depression	
22.10.23/1730	15.4/85.7	50-60 gusting to 70	Deep Depression	
23.10.23/0530	16.0/85.7	50-60 gusting to 70	Deep Depression	
23.10.23/1730	17.1/86.3	55-65 gusting to 75	Deep Depression	
24.10.23/0530	18.4/87.1	60-70 gusting to 80	Cyclonic Storm	
24.10.23/1730	19.5/88.0	60-70 gusting to 80	Cyclonic Storm	
25.10.23/0530	20.6/88.9	60-70 gusting to 80	Cyclonic Storm	

Forecast track and intensity are given below:

<u>Warnings:</u>

(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 evening of 22nd till 25th October. It is likely to decrease gradually thereafter.
- Adjoining eastcentral & southeast Bay of Bengal: Squally wind speed reaching 40-50 kmph gusting to 60 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 40-50 kmph gusting to 60 kmph is likely on 23rd and likely to increase gradually becoming Gale wind speed reaching 60-70 kmph gusting to 80 kmph from 24th to 26th October.

(iii) Sea Condition

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

(iv) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

- ✤ Westcentral Bay of Bengal 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 during 23rd to 26th October.

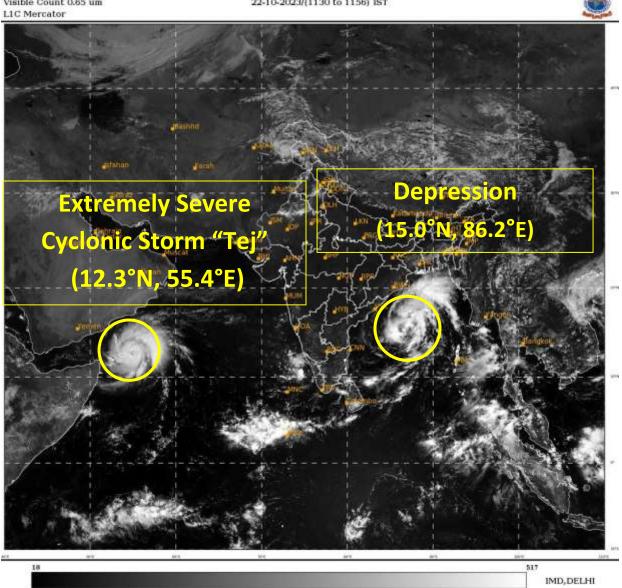
Those out at sea are advised to return to coast.

Both the systems are under continuous surveillance and the next bulletin will be issued at 1430 hours IST of 22nd October, 2023.

(M. Sharma) Scientist D, Cyclone Warning, New Delhi

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

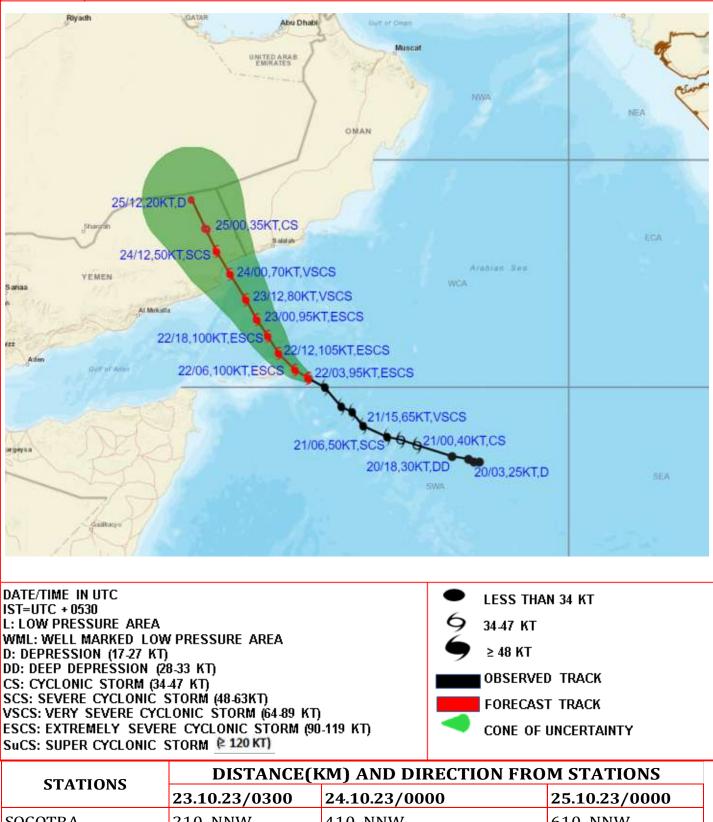
Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100% Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



SAT : INSAT-3D IMG Visible Count 0.65 um L1C Mercator 22-10-2023/(0600 to 0626) GMT 22-10-2023/(1130 to 1156) IST



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF EXTREMELY SEVERE CYCLONIC STORM "TEJ" OVER WESTCENTRAL AND ADJOINING SOUTHWEST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 22ND OCTOBER 2023.



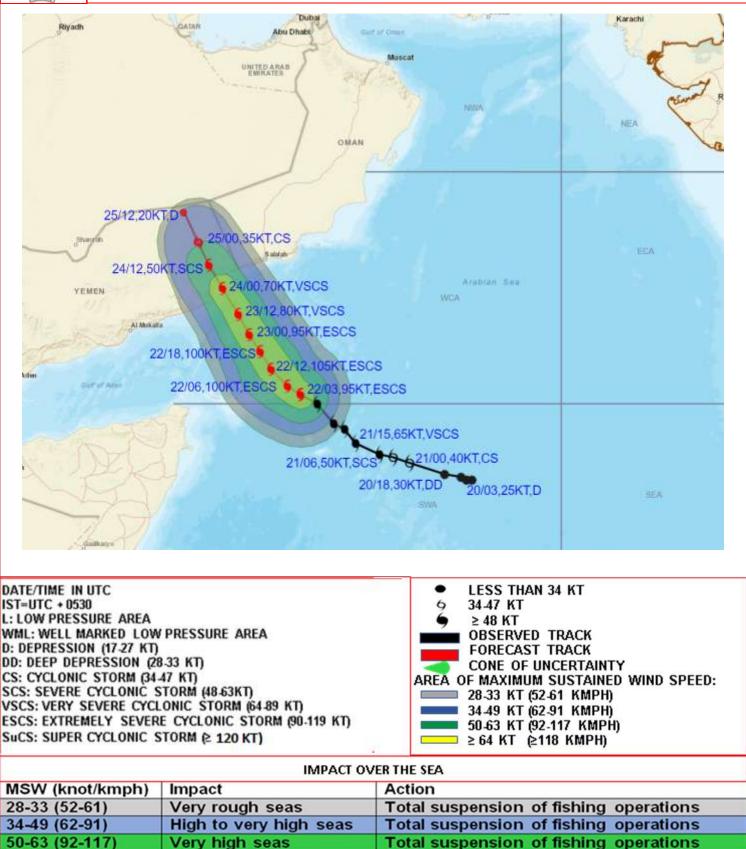
SOCOTRA	210, NNW	410, NNW	610, NNW
SALALAH	290, SSW	210, SW	270, WNW
AL-GHAIDAH	240, SE	50, ESE	180, NNW



≥ 64 (≥118)

Phenomenal

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF EXTREMELY SEVERE CYCLONIC STORM "TEJ" OVER WESTCENTRAL AND ADJOINING SOUTHWEST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 22ND OCTOBER 2023.



Total suspension of fishing operations



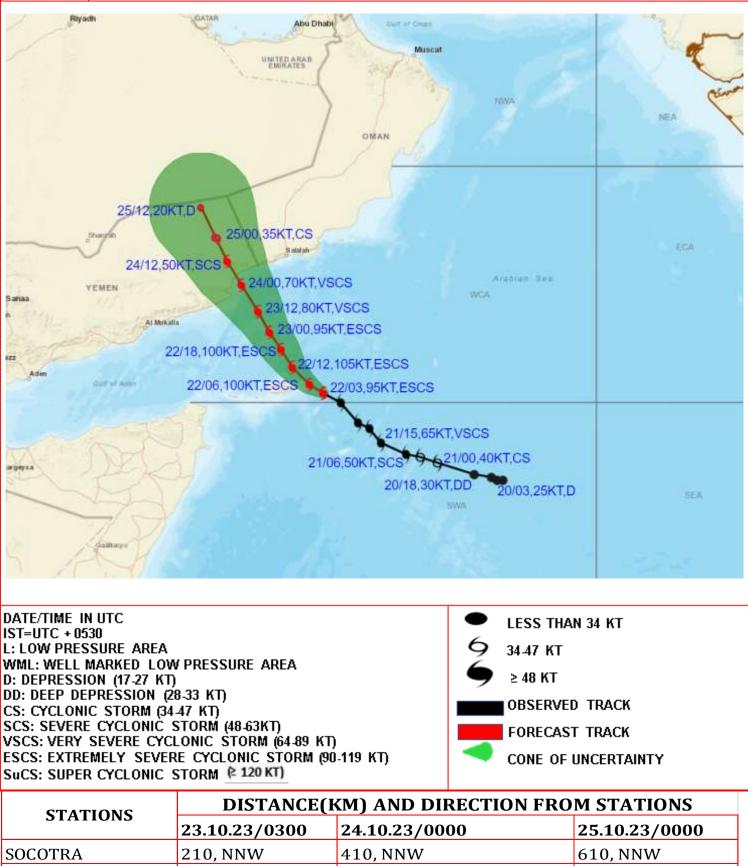
SALALAH

AL-GHAIDAH

290, SSW

240, SE

OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF EXTREMELY SEVERE CYCLONIC STORM "TEJ" OVER WESTCENTRAL AND ADJOINING SOUTHWEST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 22ND OCTOBER 2023.



210, SW

50. ESE

270, WNW 180, NNW OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF EXTREMELY SEVERE CYCLONIC STORM "TEJ" OVER WESTCENTRAL AND ADJOINING SOUTHWEST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 22ND OCTOBER 2023.

