



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

BULLETIN NO. 3 (BOB/07/2022)

TIME OF ISSUE: 2030HOURS IST

DATED: 22.10.2022

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Subject: Depression over eastcentral Bay of Bengal (Pre-Cyclone Watch: West Bengal coast)

Depression over eastcentral & adjoining southeast Bay of Bengal moved northwestwards with a speed of 18 kmph during past 6 hours and lay centered at 1730 hours IST of today, the 22nd October over eastcentral Bay of Bengal near latitude 14.3^oN and longitude 90.6^oE, about 370 km northwest of Port Blair, 860 km south-southeast of Sagar Island and 940 km south of Barisal (Bangladesh).

It is very likely to move northwestward and intensify further into a Deep Depression over eastcentral Bay of Bengal by 23rd October morning. Subsequently, it is very likely to recurve gradually north-northeastwards and intensify into a cyclonic storm over central Bay of Bengal by 24th October morning. Thereafter, it would continue to move north-northeastwards and cross Bangladesh coast between Tinkona Island and Sandwip around 25th October early morning.

Forecast track and intensity are given below:

| Date/Time(IST) | Position (Lat. °N/ long. °E) | Maximum sustained surface wind speed (Kmph) | Category of cyclonic disturbance |
|-----------------------|---|--|---|
| 22.10.22/1730 | 14.3/90.6 | 45-55 gusting to 65 | Depression |
| 23.10.22/0530 | 15.3/89.4 | 55-65 gusting to 75 | Deep Depression |
| 23.10.22/1730 | 16.9/88.2 | 65-75 gusting to 85 | Cyclonic Storm |
| 24.10.22/0530 | 18.5/88.5 | 80-90 gusting to 100 | Cyclonic Storm |
| 24.10.22/1730 | 20.5/89.5 | 85-95 gusting to 105 | Severe Cyclonic Storm |
| 25.10.22/0530 | 22.1/90.6 | 90-100 gusting to 110 | Severe Cyclonic Storm |
| 25.10.22/1730 | 24.0/91.8 | 50-60 gusting to 70 | Deep Depression |

Warnings:

(i) Rainfall (warning graphics enclosed)

Andaman and Nicobar Islands: Light to moderate rainfall at most places with **heavy rainfall** at isolated places over Andaman & Nicobar Islands during on 22nd & 23rd October.

Odisha: Light to moderate rainfall at many places likely over coastal districts of Odisha on 23rd and light to moderate rainfall with isolated **heavy rainfall** likely over the same region on 24th and isolated **heavy rainfall** over north coastal Odisha districts on 25th October.

West Bengal: Light to moderate rainfall at a few places likely over coastal districts of West Bengal on 23rd. Light to moderate rainfall with isolated **heavy rainfall** on 24th and **heavy to very heavy rainfall** at isolated places on 25th likely over coastal districts.

Northeastern States:

Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places over south Assam, East Meghalaya, Nagaland, Mizoram, Manipur & Tripura on 24th October. Light to moderate rainfall at most places with isolated **heavy to very heavy rainfall** over the same region and isolated **extremely heavy rainfall** over Tripura & Mizoram likely over the same region on 25th and isolated **heavy rainfall** likely on 26th October.

(ii) Wind warning:

22nd October: Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over eastcentral & adjoining southeast Bay of Bengal, Andaman Islands and Andaman Sea.

23rd October: Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over westcentral and adjoining eastcentral & southeast Bay of Bengal from morning. It would gradually increase becoming gale wind 65-75 kmph gusting to 85 kmph over the same region from 23rd evening. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely along & off Odisha and West Bengal coasts and Andaman Islands and adjoining north Andaman Sea.

24th October: Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely over westcentral and adjoining areas of eastcentral & north Bay of Bengal. It would gradually increase becoming 85-95 kmph gusting to 105 kmph over the same region from 24th evening. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely along & off Odisha and West Bengal coasts.

25th October: Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely over north Bay of Bengal and along & off Bangladesh coast; 80-90 kmph gusting to 100 kmph likely along

& off 24 Parganas District and 60-70 kmph gusting to 80 kmph along & off east Medinipur district off West Bengal coast till morning. It would gradually decrease becoming 50-60 kmph gusting to 70 kmph over coastal areas of Bangladesh. Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely along and off Balasore district & 40-50 kmph gusting to 60 kmph along & off remaining north coastal districts of Odisha and over Mizoram & Tripura.

(iii) Sea condition

22nd October: Rough to very rough over eastcentral & adjoining southeast Bay of Bengal & north Andaman Sea.

23rd October: Very rough over westcentral and adjoining eastcentral & southeast Bay of Bengal from morning. It would become high from evening over westcentral and adjoining eastcentral Bay of Bengal. Rough along & off Odisha-West Bengal-Bangladesh coasts.

24th October: High over westcentral and adjoining eastcentral & north Bay of Bengal. Rough to very rough along & off Odisha-West Bengal-Bangladesh coasts.

25th October: High over north Bay of Bengal along & off Bangladesh-West Bengal coasts.

(iv) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into southeast & adjoining eastcentral Bay of Bengal & North Andaman Sea on 22nd, central Bay of Bengal on 23rd, central & adjoining north Bay of Bengal on 24th, north & adjoining central Bay of Bengal on 25th October, 2022.

Fishermen are advised not to venture into Sea along and off Odisha, West Bengal & Bangladesh coasts during 23rd to 25th October. Fishermen out at sea are advised to return to the coast.

(v) Advisory for On-shore and Off-shore Installations

Regulation of offshore activities from 22nd over central and North Bay of Bengal till 25th and over Andaman Sea till 23rd. Suspension of off-shore activities during 24th to 25th October along and off Odisha and West Bengal coasts.

The system is under continuous surveillance and the next message will be issued at 0230 hours IST of tomorrow, the 23rd October, 2022.

(Ananda Kumar Das)
Scientist E, Cyclone Warning Division, New Delhi

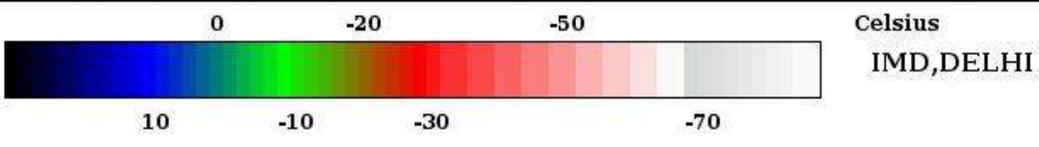
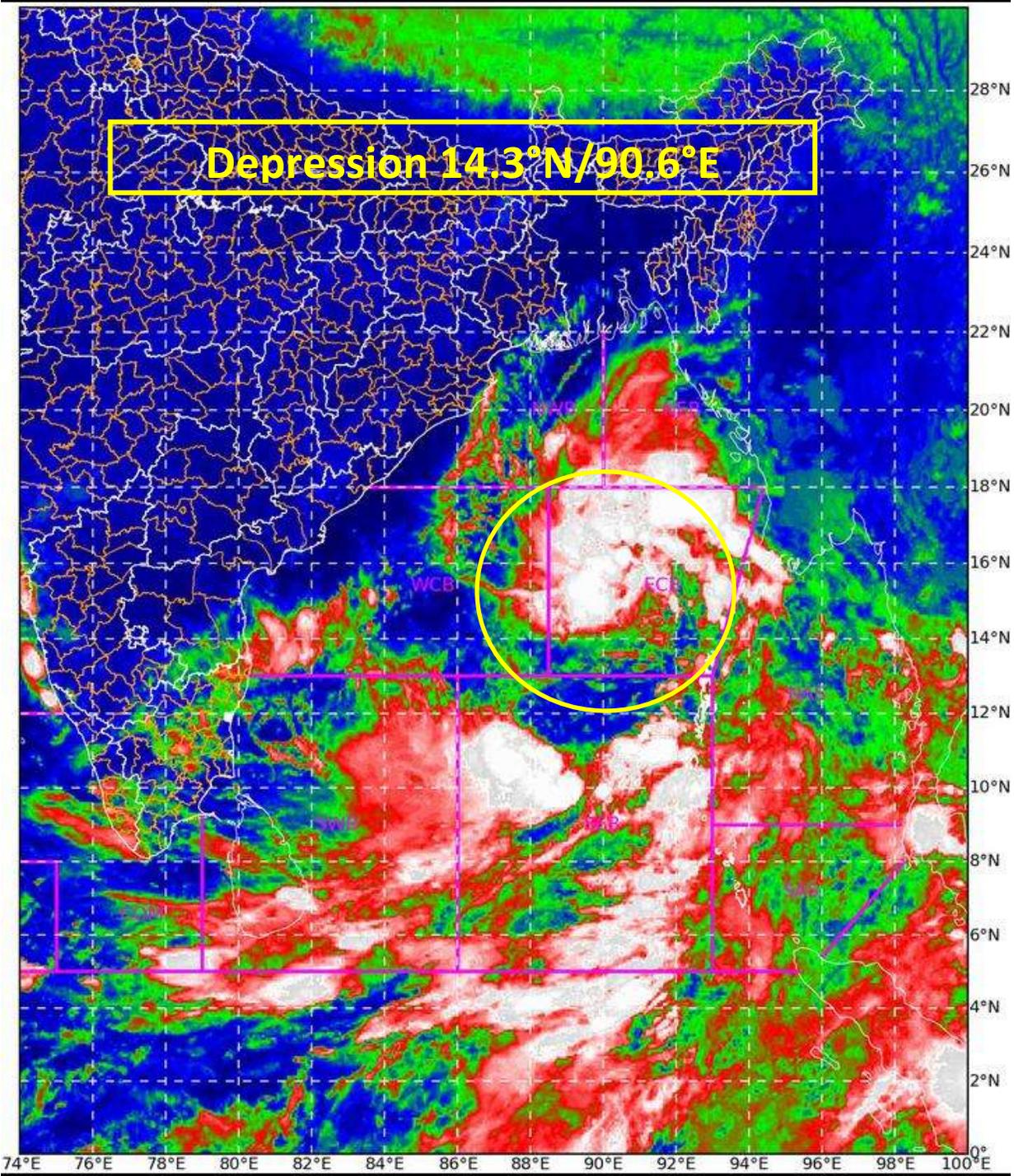
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/MO Port Blair

LEGEND: Heavy Rainfall: 64.5 to 115.5mm, **Very Heavy Rainfall:** 115.6 to 204.4mm **Most Places:** more than 76% of total stations, **Isolated Places:** Less than 25% of total

SAT : INSAT-3D IMG 22-10-2022/(1400 to 1426) GMT

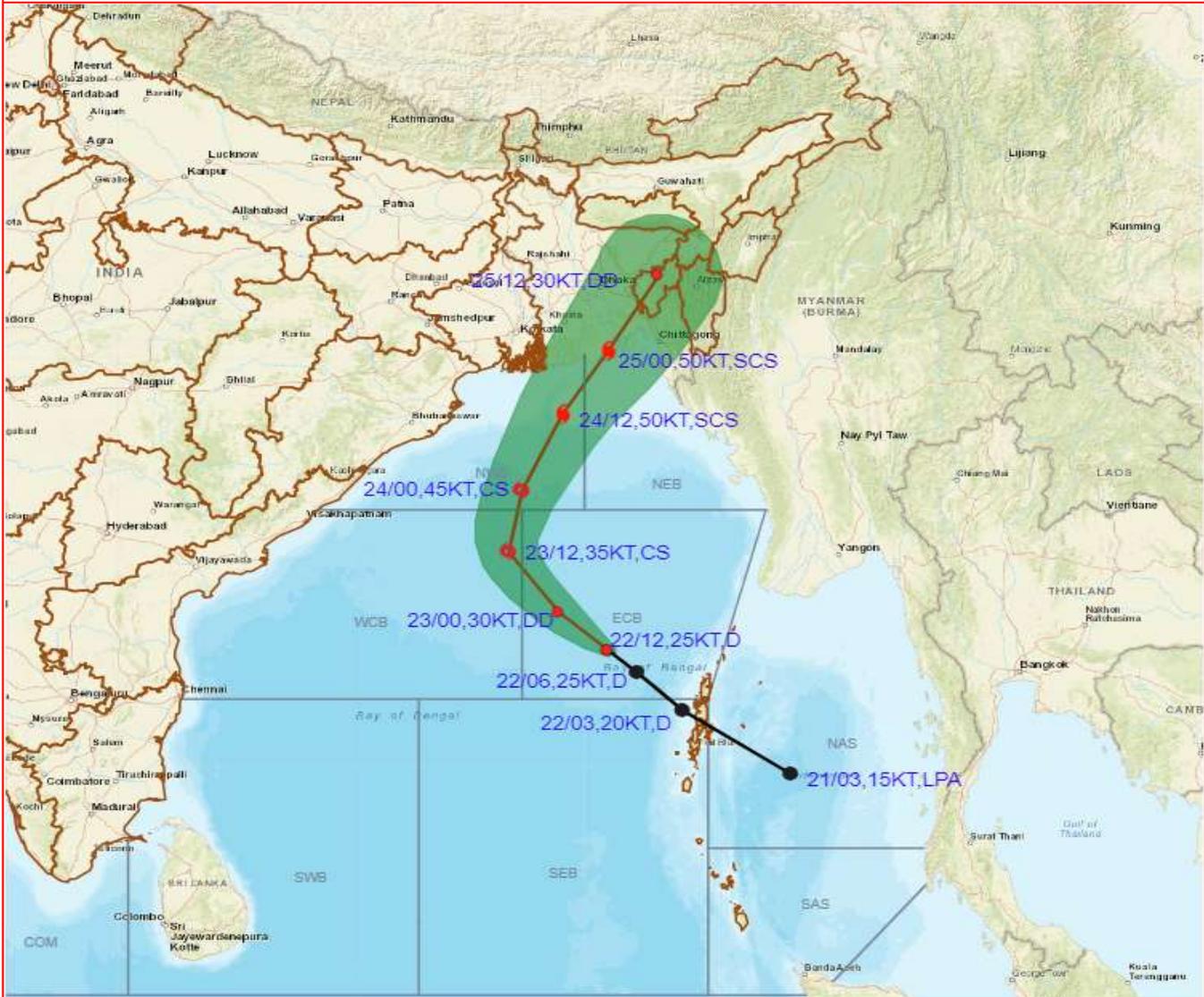
IMG_TIR1_TEMP 10.8 um 22-10-2022/(1930 to 1956) IST

L1C Mercator





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 1200 UTC OF 22nd OCTOBER, 2022



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



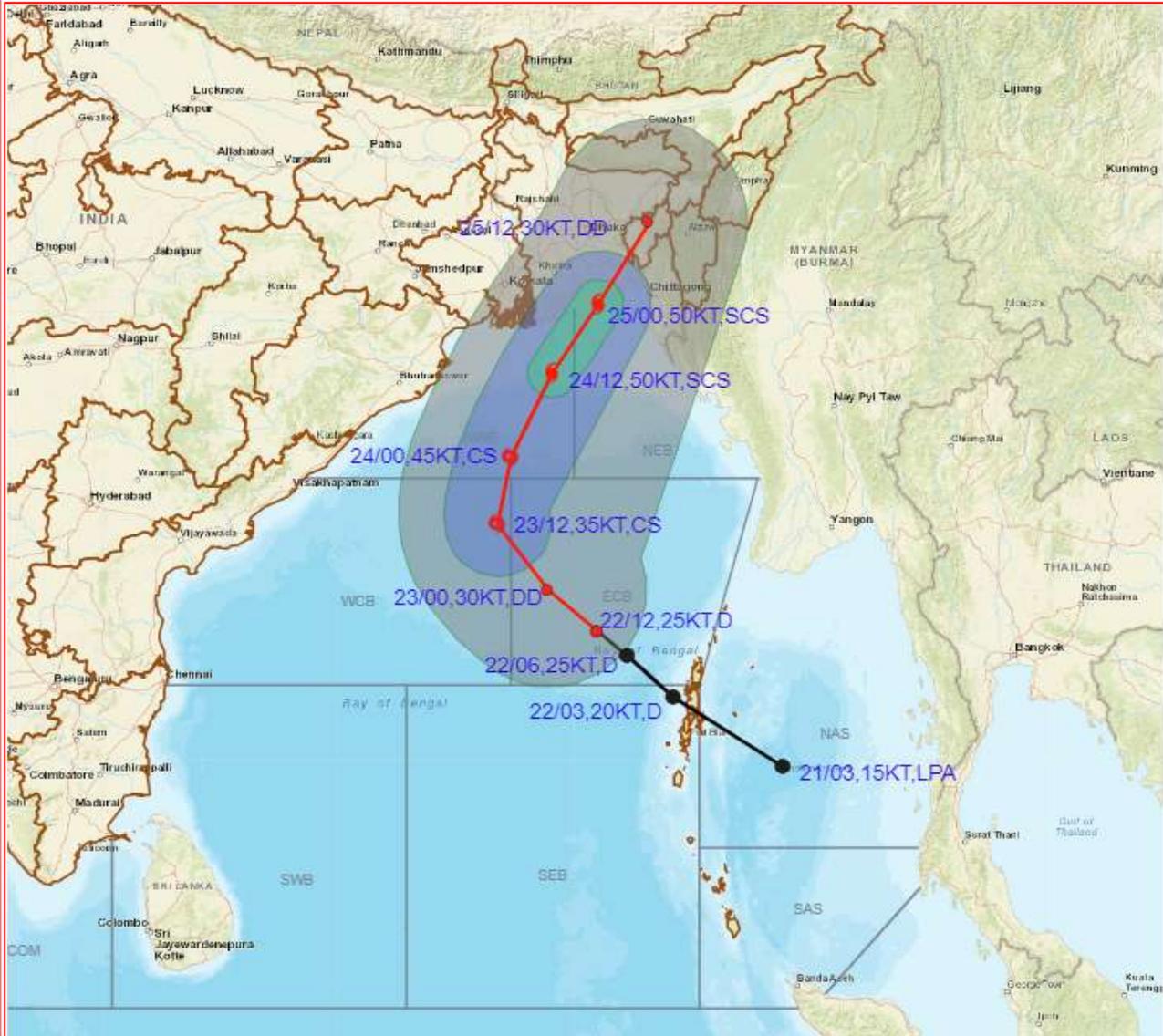
FORECAST TRACK



CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER EASTCENTRAL BAY OF BENGAL BASED ON 1200 UTC OF 22nd OCTOBER, 2022



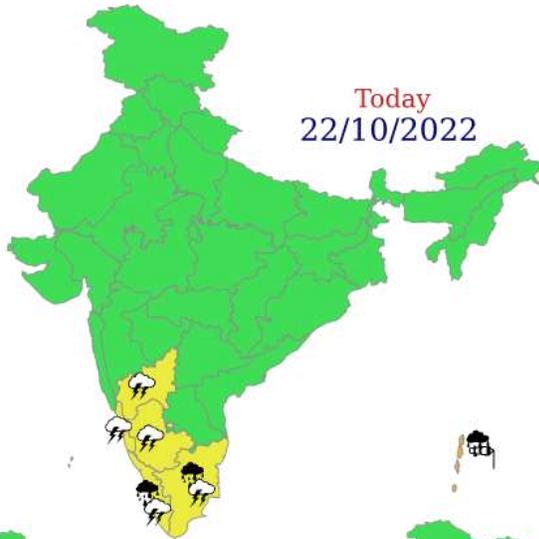
DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 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 (62-91)
 ■ 50-63 (92-117)
 ■ ≥ 64 (≥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 |

Today
22/10/2022



WARNING



Tomorrow
23/10/2022



24/10/2022



25/10/2022



26/10/2022



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

Fishermen warning graphics

Day 1: 22.10.2022/11:30 AM to 23.10.2022/05:30 AM



Day 2: 23.10.2022/05:30 AM to 24.10.2022/05:30 AM



Day 3: 24.10.2022/05:30 AM to 25.10.2022/05:30 AM



Day 4: 25.10.2022/05:30 AM to 26.10.2022/05:30 AM



Day 5: 26.10.2022/05:30 AM to 27.10.2022/05:30 AM



| | |
|--|--|
| | Squally WX with wind speed 40-45 kmph gusting to 55 kmph |
| | Squally WX with wind speed 45-55 kmph gusting to 65 kmph |
| | Squally wind speed with wind speed 45-55 kmph gusting to 65 kmph |
| | Squally wind speed with wind speed 50-60 kmph gusting to 70 kmph |
| | Gale wind speed with wind speed 65-75 kmph gusting to 85 kmph |
| | Gale wind speed with wind speed 80-90 kmph gusting to 100 kmph |
| | Gale wind speed with wind speed 90-100 kmph gusting to 110 kmph |

Fishermen are advised not to venture into the marked areas.