



India Meteorological Department
(Ministry of Earth Sciences)

BULLETIN NO. 22 (BOB/03/2022)

TIME OF ISSUE: 1530 HOURS IST

DATED: 10.05.2022

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

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**Sub: Severe Cyclonic Storm 'ASANI' over Westcentral Bay of Bengal - CYCLONE
WARNING for Andhra Pradesh coast (Red Message)**

The **Severe Cyclonic Storm 'Asani'** (pronounced as **Asani**) over Westcentral and adjoining southwest Bay of Bengal moved west-northwestwards with a speed of 25 kmph during past 06 hours and lay centered at 1130 hours IST of today, the 10th May, over westcentral Bay of Bengal near latitude 15.0°N and longitude 82.5°E, 210 km south-southeast of Kakinada (Andhra Pradesh), 310 km south-southwest of Visakhapatnam (Andhra Pradesh), 530 km southwest of Gopalpur (Odisha) and 630 km southwest of Puri (Odisha).

It is very likely to move nearly northwestwards and reach Westcentral Bay of Bengal close to Kakinada-Vishakhapatnam coasts by 11th May morning. Thereafter, it is very likely to recurve slowly north-northeastwards and move along Andhra Pradesh coast between Kakinada and Visakhapatnam and then emerge into Northwest Bay of Bengal off North Andhra Pradesh and Odisha coasts. It is likely to weaken gradually into a Cyclonic Storm by 11th May morning and into a depression by 12th May morning.

The cyclonic storm is under the continuous surveillance of Doppler Weather Radar (DWR) at Machilipatnam (Andhra Pradesh).

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 |
|----------------|---------------------------------|--|-------------------------------------|
| 10.05.22/1130 | 15.0/82.5 | 100-110 gusting to 120 | Severe Cyclonic Storm |
| 10.05.22/1730 | 15.4/82.1 | 95-105 gusting to 115 | Severe Cyclonic Storm |
| 10.05.22/2330 | 15.8/81.9 | 85-95 gusting to 105 | Cyclonic Storm |
| 11.05.22/0530 | 16.2/81.9 | 80-90 gusting to 100 | Cyclonic Storm |
| 11.05.22/1130 | 16.7/82.3 | 75-85 gusting to 95 | Cyclonic Storm |
| 11.05.22/2330 | 17.3/82.9 | 65-75 gusting to 85 | Cyclonic Storm |
| 12.05.22/1130 | 17.6/83.6 | 55-65 gusting to 75 | Deep Depression |
| 12.05.22/2330 | 17.9/84.5 | 45-55 gusting to 65 | Depression |

Warnings:

(i) Rainfall (warning graphics enclosed)

10th May: Light to moderate rainfall at many places with **heavy to very heavy rainfall** at isolated places is likely over coastal Andhra Pradesh and rainfall at a few places with **heavy rainfall** at isolated places over coastal Odisha from 10th night.

11th May: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places with **isolated extremely heavy falls** is likely over coastal Andhra Pradesh and **heavy rainfall** at isolated places is likely over coastal Odisha & adjoining coastal West Bengal.

12th May: Light to moderate rainfall likely at a few places with **heavy rainfall** at isolated places is likely over coastal areas of Odisha and West Bengal.

(ii) Wind warning

- Gale wind speed reaching 100-110 kmph gusting to 120 kmph is prevailing around the system center over Westcentral Bay of Bengal. It would gradually decrease becoming 85-95 kmph gusting to 105 kmph over Westcentral and adjoining Northwest Bay of Bengal from midnight of 10th May and become 75-85 Kmph gusting to 95 Kmph from morning of 11th May over the same region. Further, it would decrease to 55- 65 Kmph gusting to 75 Kmph over northwest & adjoining Westcentral Bay of Bengal from morning of 12th May.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is prevailing along and off Andhra Pradesh coast. It is likely to increase becoming 55-65 Kmph gusting to 75 Kmph from early hours of 11th May and gale wind speed reaching 75-85 kmph gusting to 95 kmph during morning to noon of 11th May along & off Andhra Pradesh coast (Krishna, East & West Godavari and Visakhapatnam districts).
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to continue along & off Odisha coast during 10th to 12th May and along & off West Bengal coast during 11th to 12th May evening.

(iii) Sea condition

Sea condition is likely to be Very High over Westcentral Bay of Bengal till midnight of today, the 10th May. It would become high over westcentral & adjoining northwest Bay of Bengal on 11th May and very rough to rough over the same region on 12th May.

(iv) Storm Surge warning:

Storm surge of height about 0.5 m above astronomical tide is likely to inundate low lying areas of Krishna, East & West Godavari and Vishakhapatnam districts of Andhra Pradesh.

(iv) Fishermen Warning (Graphics enclosed)

- Total suspension of fishing operations over westcentral Bay of Bengal during 10th to 11th and over northwest Bay of Bengal 10 to 12th May.
- Fishermen are advised not to venture into westcentral Bay of Bengal during 10th to 11th May and into Northwest Bay of Bengal during 10th to 12th May.
- Fishermen out at sea are advised to return to coast.

(v) Advisory for offshore activities:

- Regulate offshore operations till 12th May.

(vi) Damage expected: (for Krishna, East & West Godavari and Vishakhapatnam districts of Andhra Pradesh)

- Damage to thatched huts.
- Minor damage to power and communication lines due to breaking of branches.
- Major damage to Kutcha and minor damage to Pucca roads.
- Some damage to paddy crops, banana, papaya trees and orchards.

(vii) Action Suggested: (for Krishna, East & West Godavari and Vishakhapatnam districts of Andhra Pradesh)

- Check for traffic congestion on your route due to heavy rain before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Stay in safe places.

The system is under continuous surveillance and the next bulletin will be issued at 1730 hours IST of today, the 10th May, 2022.

**(Ananda Kumar Das)
Scientist-E, RSMC, New Delhi**

Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswarr/CWC Vishakhapatnam/MO Port Blair

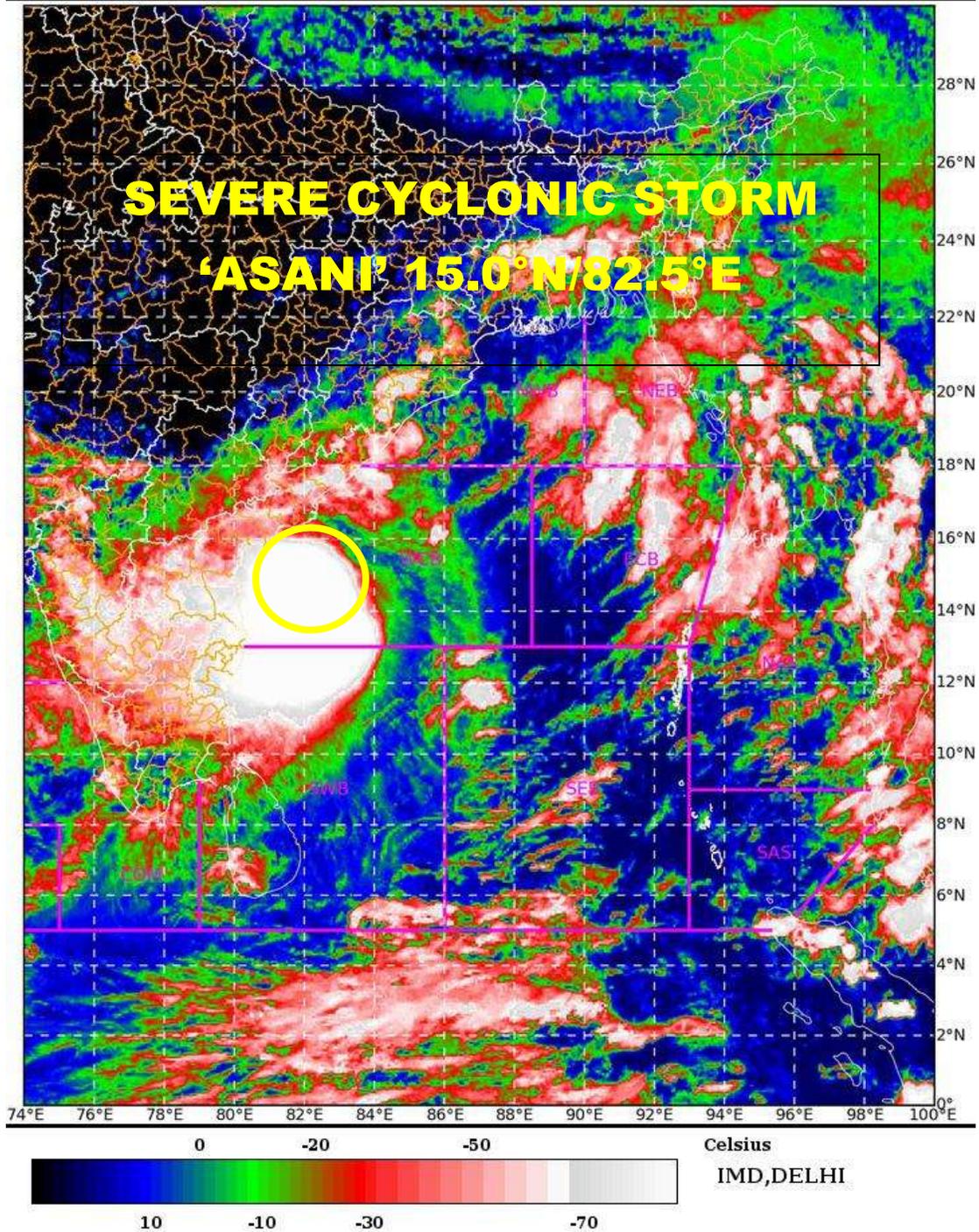
LEGEND: Heavy Rainfall: 64.5 to 115.5mm, **Very Heavy Rainfall:** 115.6 to 204.4mm **Most Places:** more than 76% of total stations, **Isolated Places:** Less than 25% of total

SAT : INSAT-3D IMG 10-05-2022/(0930 to 0956) GMT

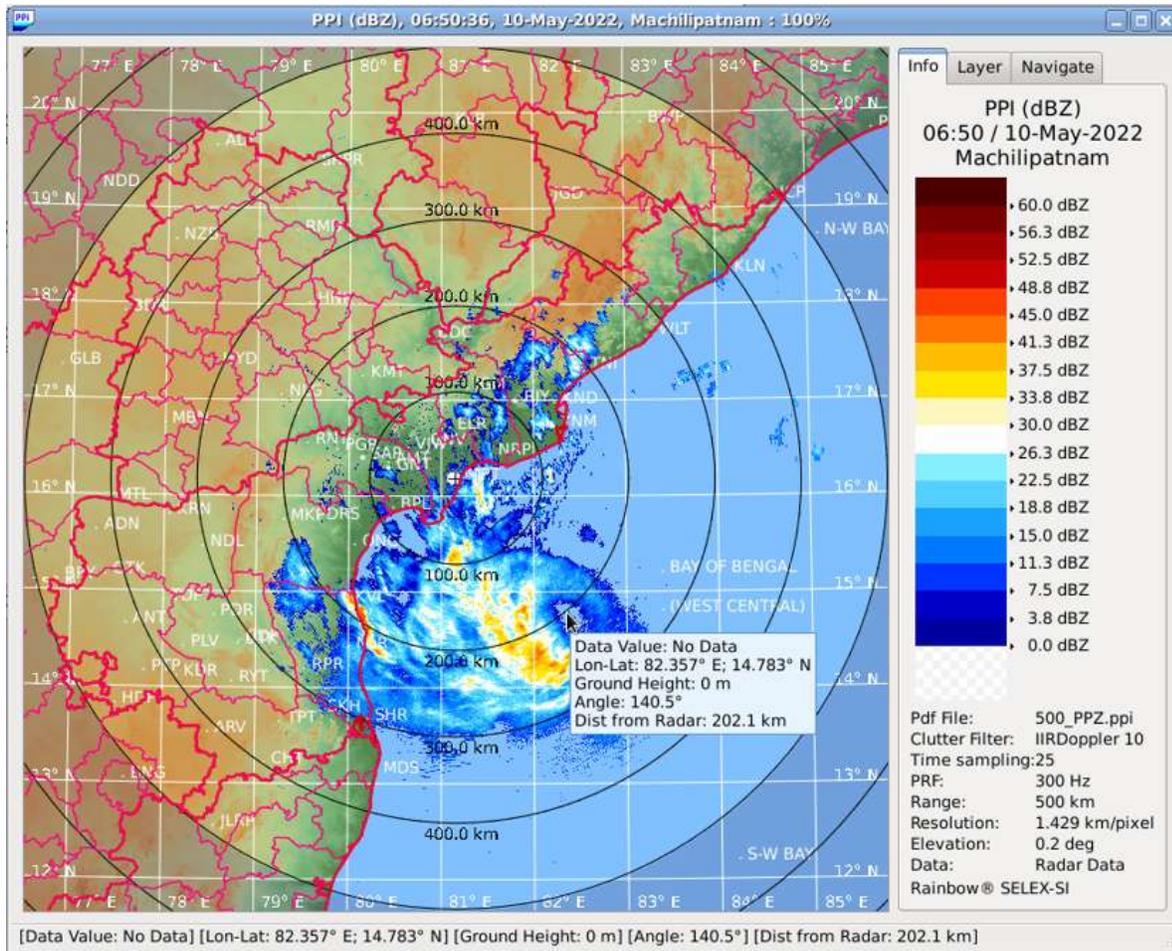
IMG_TIR1_TEMP 10.8 um 10-05-2022/(1500 to 1526) IST



L1C Mercator



CYCLONIC STORM "ASANI" VIEWED BY THE DWR AT MACHILIPATNAM





FORECAST TRACK AND INTENSITY OF SEVERE CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 10TH MAY 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)
 VSXS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (≥20 KT)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

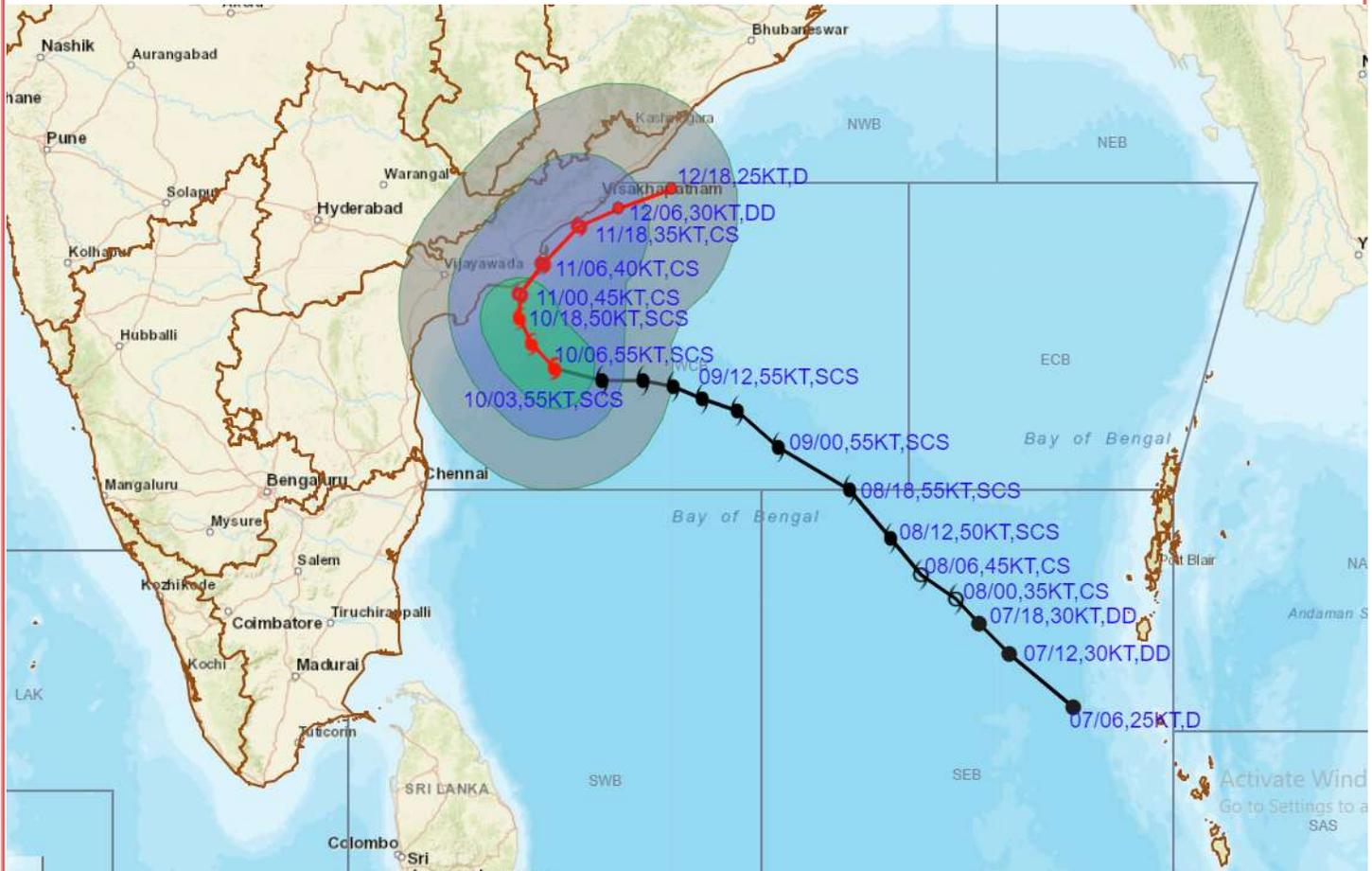
| STATIONS | DISTANCE(KM) AND DIRECTION FROM STATIONS | |
|----------------|--|---------------|
| | 11.05.22/0600 | 12.05.22/0600 |
| KAKINADA | 30,SSE | 160,ENE |
| GOPALPUR | 390,SW | 230,SW |
| VISHAKHAPATNAM | 150,SW | 30,ESE |
| PURI | 500,SW | 340,SW |

| Forecast distance (km) and direction of the centre from nearest 5 coastal stations | | | | | | | | |
|--|-------------|------|------|----------------------------|--------------------------------------|------------------------------------|----------------------|---------------------------------------|
| Forecast Date and Time | Lead Period | Lat | Lon | Station 1 | Station 2 | Station 3 | Station 4 | Station 5 |
| 10.05.22/0600 | 0 | 15.0 | 82.5 | NARSAPUR (181,SSE) | MACHILIPATNAM/ FRANCHPET (197,SE) | KAKINADA (219,S) | NIDADAVOLE (226,SSE) | BAPATLA (240,ESE) |
| 10.05.22/1200 | 6 | 15.4 | 82.1 | NARSAPUR (123,SSE) | MACHILIPATNAM/ FRANCHPET (135,SE) | NIDADAVOLE (169,SSE) | KAKINADA (173,S) | BAPATLA (184,ESE) |
| 10.05.22/1800 | 12 | 15.8 | 81.9 | NARSAPUR (74,SSE) | MACHILIPATNAM/ FRANCHPET (92,ESE) | NIDADAVOLE (120,SSE) | KAKINADA (133,SSW) | VIJAYAWADA /GANNAVARAM (143,SE) |
| 11.05.22/0000 | 18 | 16.2 | 81.9 | NARSAPUR (34,SE) | NIDADAVOLE (78,SSE) | MACHILIPATNAM/ FRANCHPET (80,E) | KAKINADA (91,SSW) | VIJAYAWADA /GANNAVARAM (123,ESE) |
| 11.05.22/0600 | 24 | 16.7 | 82.3 | KAKINADA (29,SSE) | NARSAPUR (71,ENE) | TUNI (77,SSW) | NIDADAVOLE (78,E) | MACHILIPATNAM/ FRANCHPET (135,ENE) |
| 11.05.22/1800 | 36 | 17.3 | 82.9 | TUNI (38,E) | VISHAKHAPATNAM (63,SW) | KAKINADA (81,ENE) | NIDADAVOLE (149,ENE) | NARSAPUR (160,NE) |
| 12.05.22/0600 | 48 | 17.6 | 83.6 | VISHAKHAPATNAM (34,ESE) | KALINGAPATAM (99,SW) | TUNI (115,ENE) | KAKINADA (162,ENE) | KORAPUT (165,SE) |
| 12.05.22/1800 | 60 | 17.9 | 84.5 | KALINGAPATAM (62,SE) | VISHAKHAPATNAM (129,E) | GOPALPUR (157,SSW) | KORAPUT (214,ESE) | TUNI (216,ENE) |

**N : NORTH NNE : NORTH-NORTHEAST NE : NORTHEAST ENE : EAST-NORTHEAST E : EAST
 ESE : EAST-SOUTHEAST SE : SOUTHEAST SSE : SOUTH-SOUTHEAST S : SOUTH
 SSW : SOUTH-SOUTHWEST SW : SOUTHWEST WSW : WEST-SOUTHWEST W : WEST
 WNW : WEST-NORTHWEST NW : NORTHWEST NNW : NORTH-NORTHWEST**



FORECAST TRACK AND INTENSITY ALONGWITH QUADRANT WIND DISTRIBUTION SEVERE CYCLONIC STORM 'ASANI' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 10TH MAY 2022



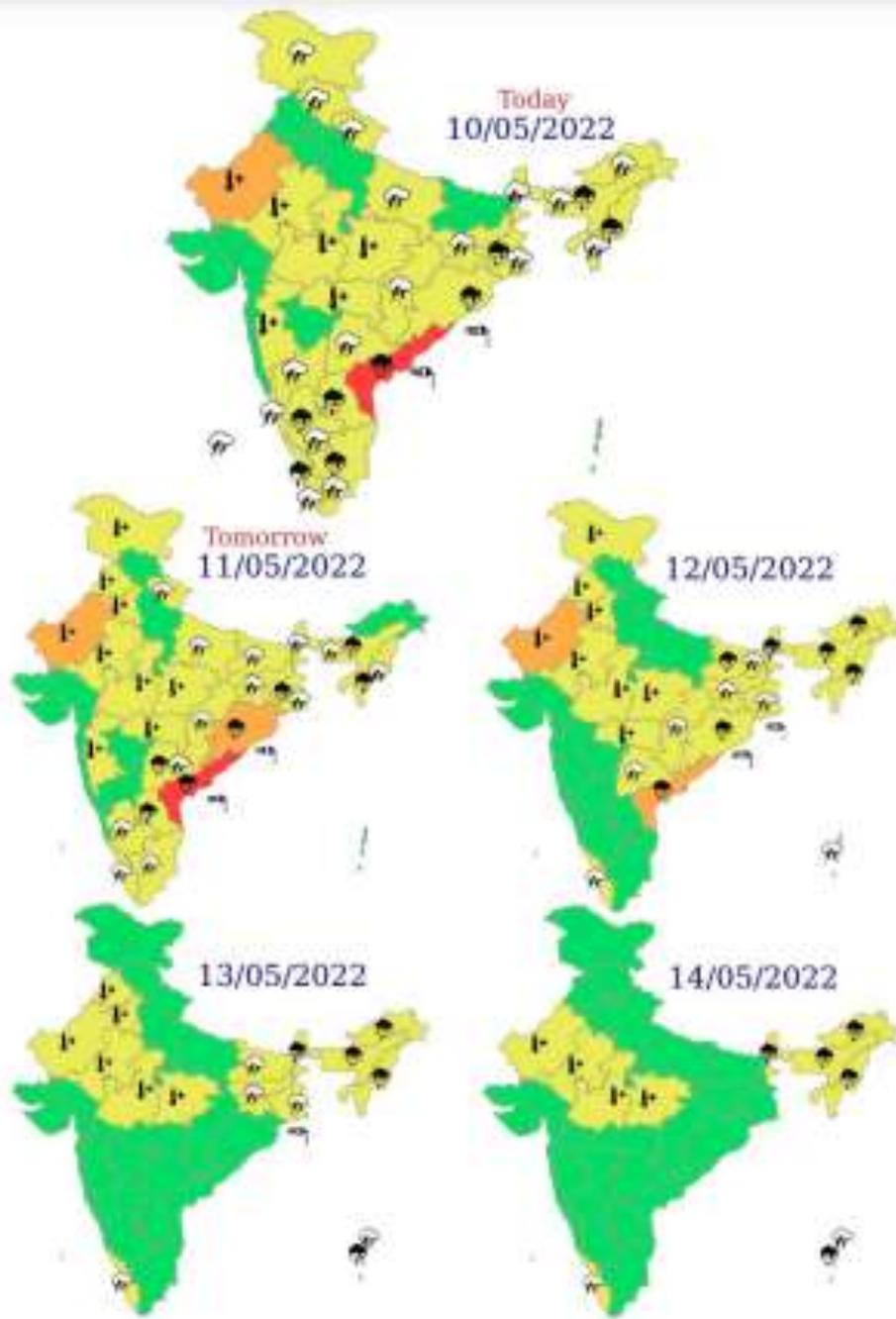
DATE/TIME IN UTC
 IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥20 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 Graphics



WARNING

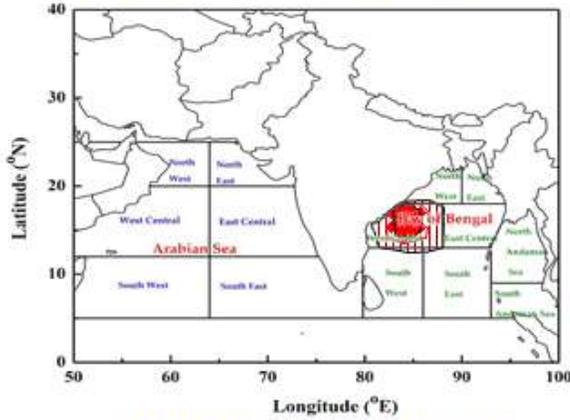
| |
|------------------------|
| WARNING (TAKE ACTION) |
| ALERT (BE PREPARED) |
| WATCH (BE UPDATED) |
| NO WARNING (NO ACTION) |

-  Heavy Rain
-  Strong Winds

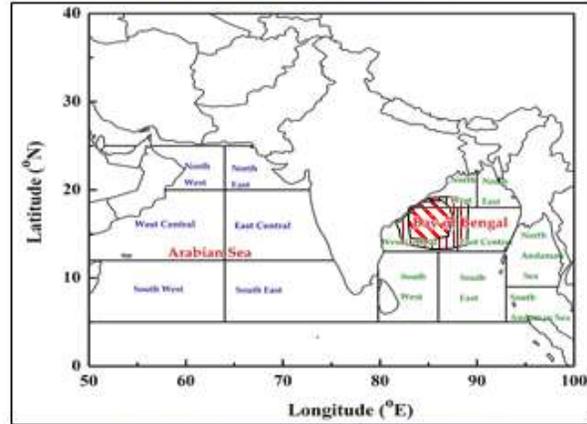
FISHERMAN WARNING GRAPHICS

INDIA METEOROLOGICAL DEPARTMENT FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA

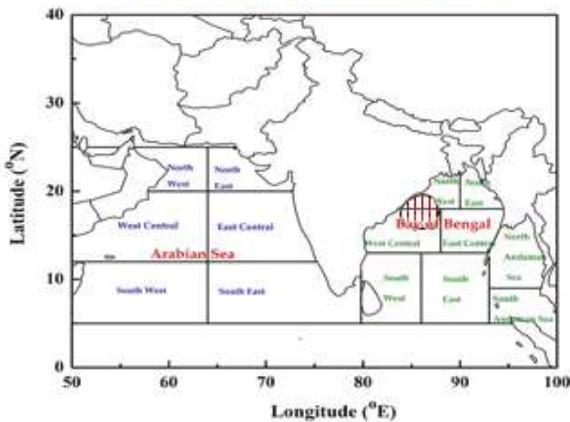
DAY-1: 10.05.2022/0600 UTC TO 11.05.2022/0600 UTC



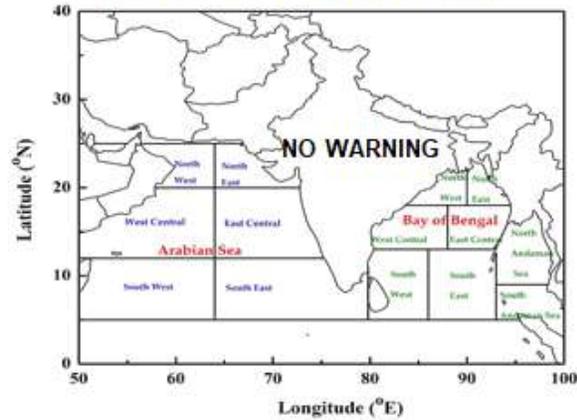
DAY-2: 11.05.2022/0600 UTC TO 12.05.2022/0600 UTC



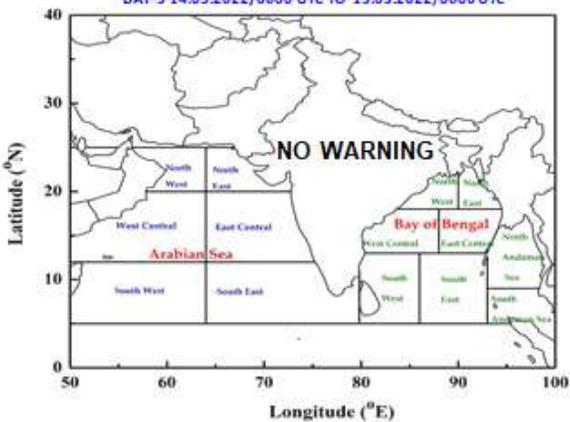
DAY-3: 12.05.2022/0600 UTC TO 13.05.2022/0600 UTC



DAY-4: 13.05.2022/0600 UTC TO 14.05.2022/0600 UTC



DAY-5: 14.05.2022/0600 UTC TO 15.05.2022/0600 UTC



AREA UNDER FISHERMEN WARNING

-  40-50 KMPH GUSTING TO 60 KMPH (SQUALLY WEATHER)
-  45-55 KMPH GUSTING TO 65 KMPH
-  50-60 KMPH GUSTING TO 70 KMPH
-  65-75 KMPH GUSTING TO 85 KMPH
-  70-80 KMPH GUSTING TO 90 KMPH
-  80-90 KMPH GUSTING TO 100 KMPH
-  90-100 KMPH GUSTING TO 110 KMPH