



India Meteorological Department
(Ministry of Earth Sciences)

BULLETIN NO. 21 (BOB/03/2022)

TIME OF ISSUE: 1030 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

The **Severe Cyclonic Storm 'Asani' (pronounced as Asani)** over Westcentral and adjoining southwest Bay of Bengal moved west-northwestwards with a speed of 10 kmph during past 06 hours and lay centered at 0830 hours IST of today, the 10th May, over westcentral Bay of Bengal near latitude 15.0°N and longitude 83.7°E, 260 km southeast of Kakinada (Andhra Pradesh), 300 km south of Visakhapatnam (Andhra Pradesh), 490 km south-southwest of Gopalpur (Odisha) and 570 km south-southwest of Puri (Odisha).

It is very likely to move nearly northwestwards till 10th May night and reach Westcentral Bay of Bengal off North Andhra Pradesh coast. Thereafter, it is very likely to recurve north-northeastwards and move towards Northwest Bay of Bengal off North Andhra Pradesh and Odisha coasts. It is likely to weaken gradually into a Cyclonic Storm during next 24 hours.

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
10.05.22/0830	15.0/83.7	100-110 gusting to 120	Severe Cyclonic Storm
10.05.22/1130	15.3/83.3	95-105 gusting to 115	Severe Cyclonic Storm
10.05.22/1730	15.8/83.0	90-100 gusting to 110	Severe Cyclonic Storm
10.05.22/2330	16.3/82.8	80-90 gusting to 100	Cyclonic Storm
11.05.22/0530	16.8/82.9	75-85 gusting to 95	Cyclonic Storm
11.05.22/1730	17.5/83.6	65-75 gusting to 85	Cyclonic Storm
12.05.22/0530	18.3/84.7	55-65 gusting to 75	Deep Depression
12.05.22/1730	18.9/85.5	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 north 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 80-90 kmph gusting to 100 kmph over Westcentral and adjoining Northwest Bay of Bengal from midnight of 10th May and become 65-75 Kmph gusting to 85 Kmph from evening 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 40-50 kmph gusting to 60 kmph is prevailing along and off Andhra Pradesh coast. It is likely to increase to 55-65 Kmph gusting to 75 Kmph from early hours of 11th May for subsequent 24 hours.
- Squally wind speed reaching 40-50 kmph gusting to 60 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 northwest & adjoining westcentral Bay of Bengal on 11th May and very rough to rough over the same region on 12th May.

(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.

The system is under continuous surveillance and the next bulletin will be issued at 1430 hours IST of today, the 10th May, 2022.

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

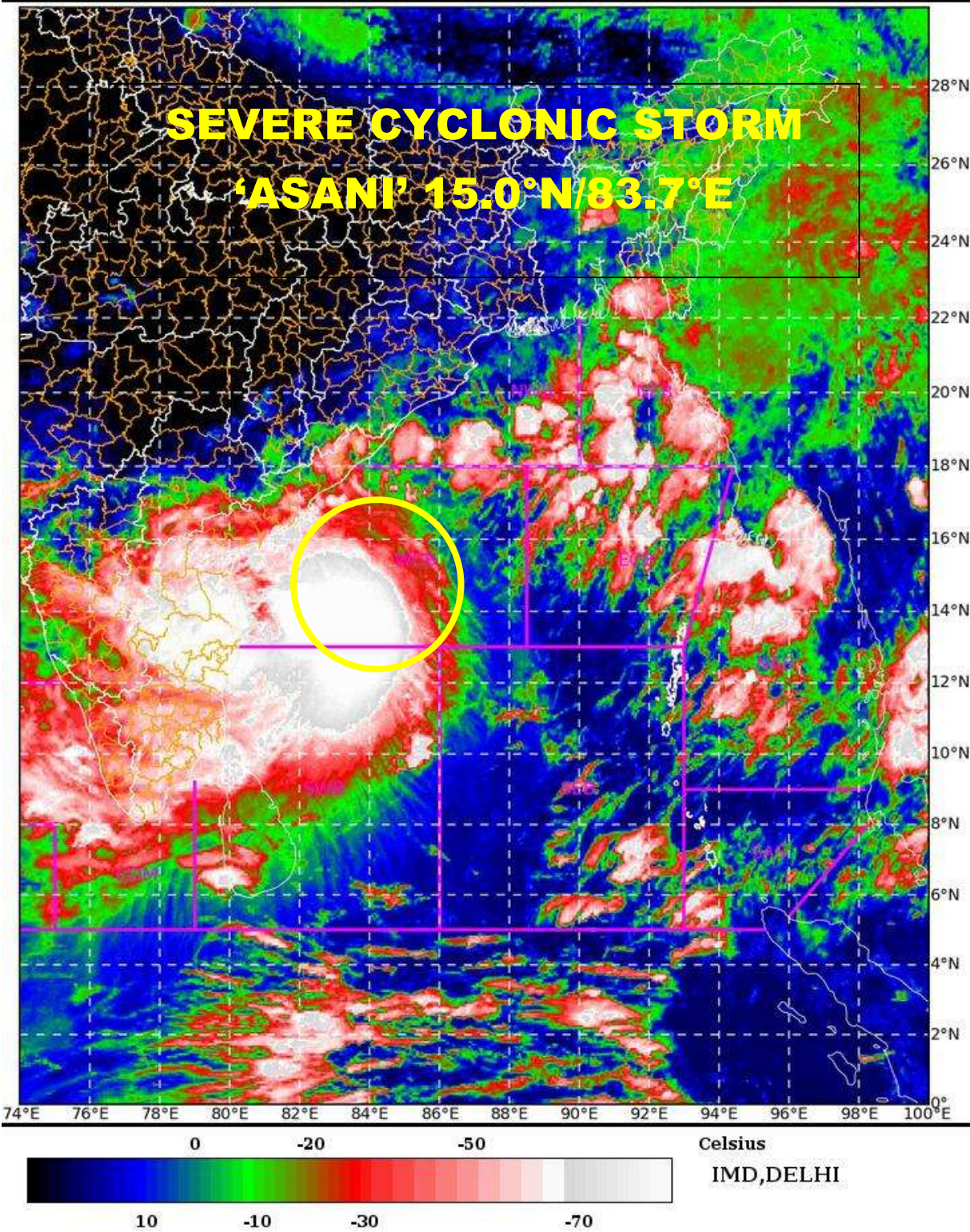
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswarr/CWC Vishakhapatnam/MO Port Blair

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

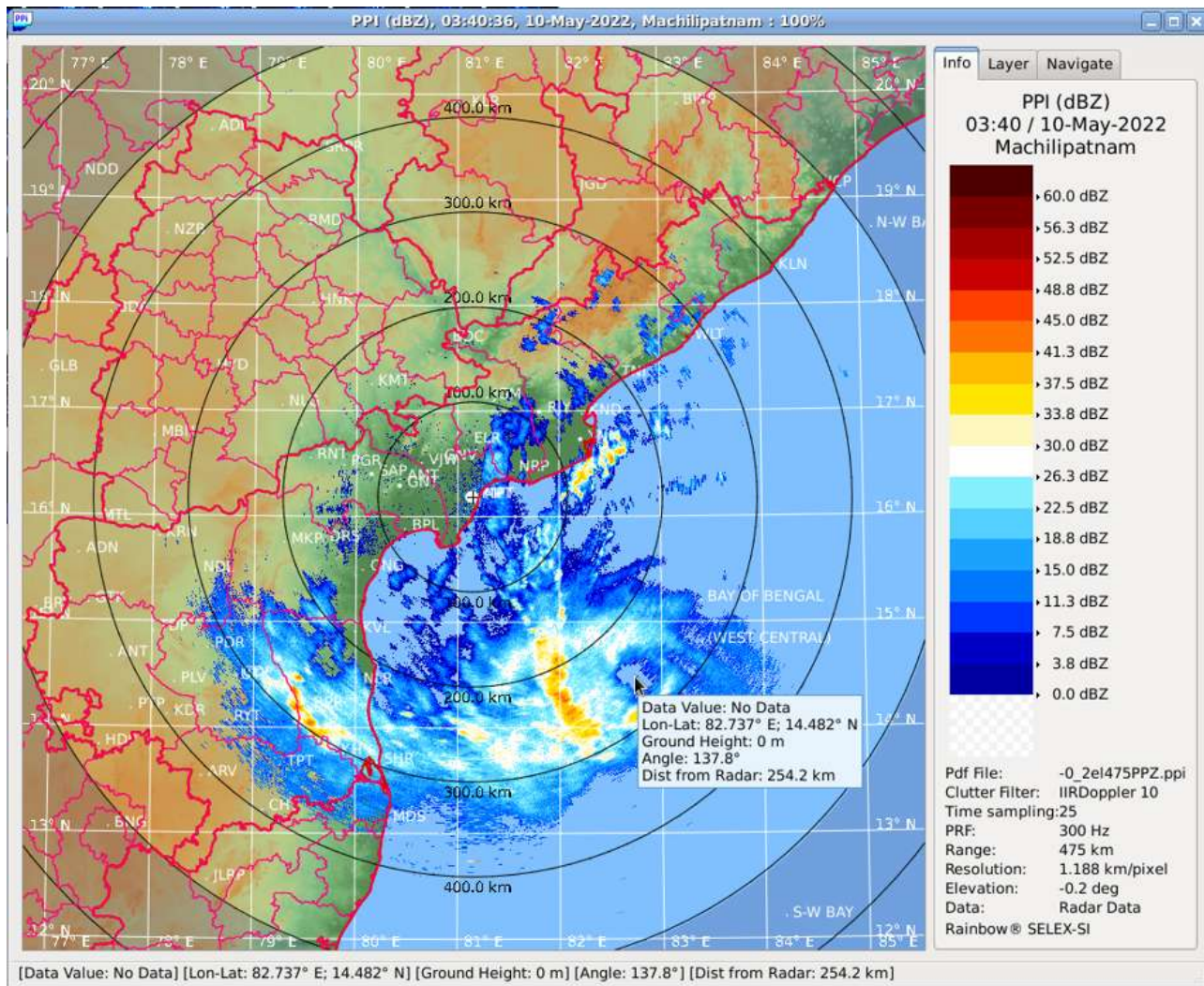
SAT : INSAT-3D IMG 10-05-2022/(0330 to 0356) GMT

IMG_TIR1_TEMP 10.8 um 10-05-2022/(0900 to 0926) IST

L1C Mercator

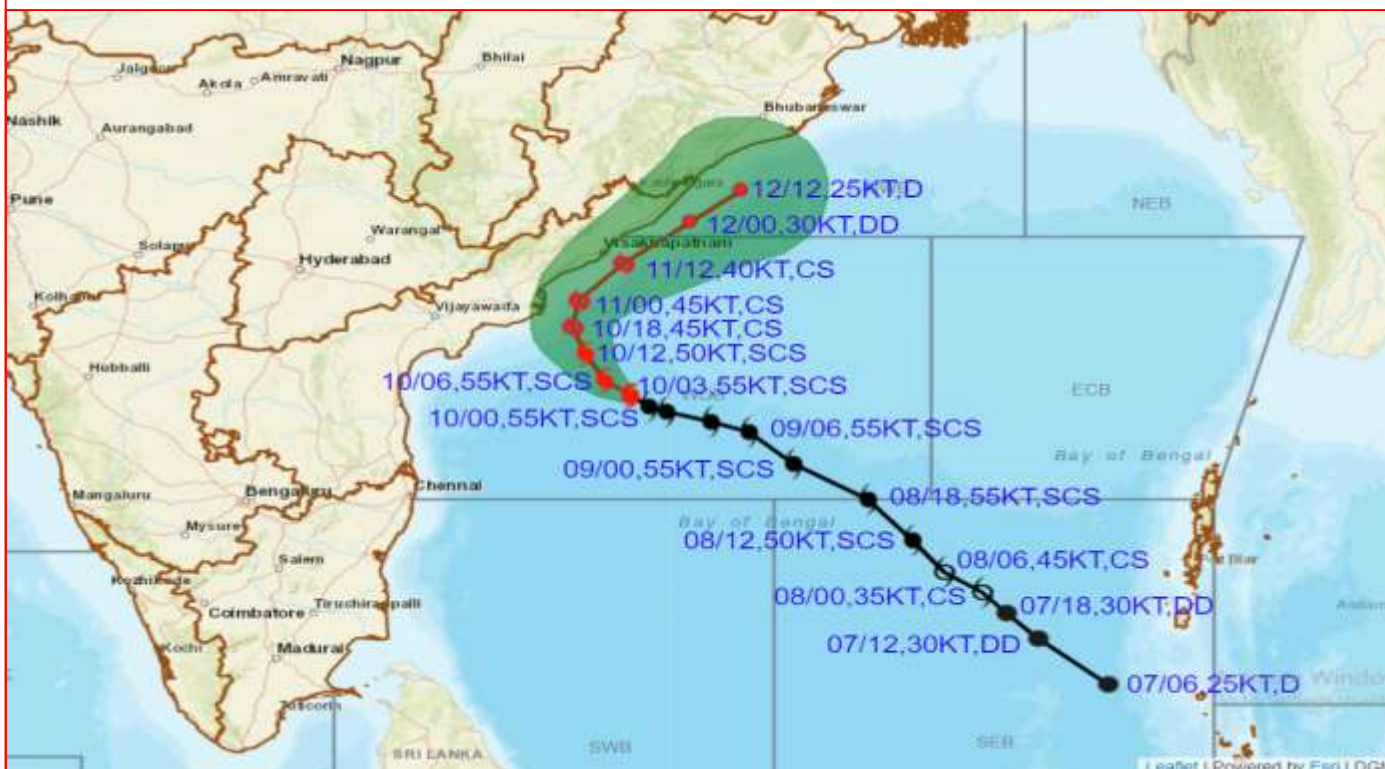


CYCLONIC STORM "ASANI" VIEWED BY THE DWR AT MACHILIPATNAM





FORECAST TRACK AND INTENSITY OF SEVERE CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0300 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)
 VS: 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

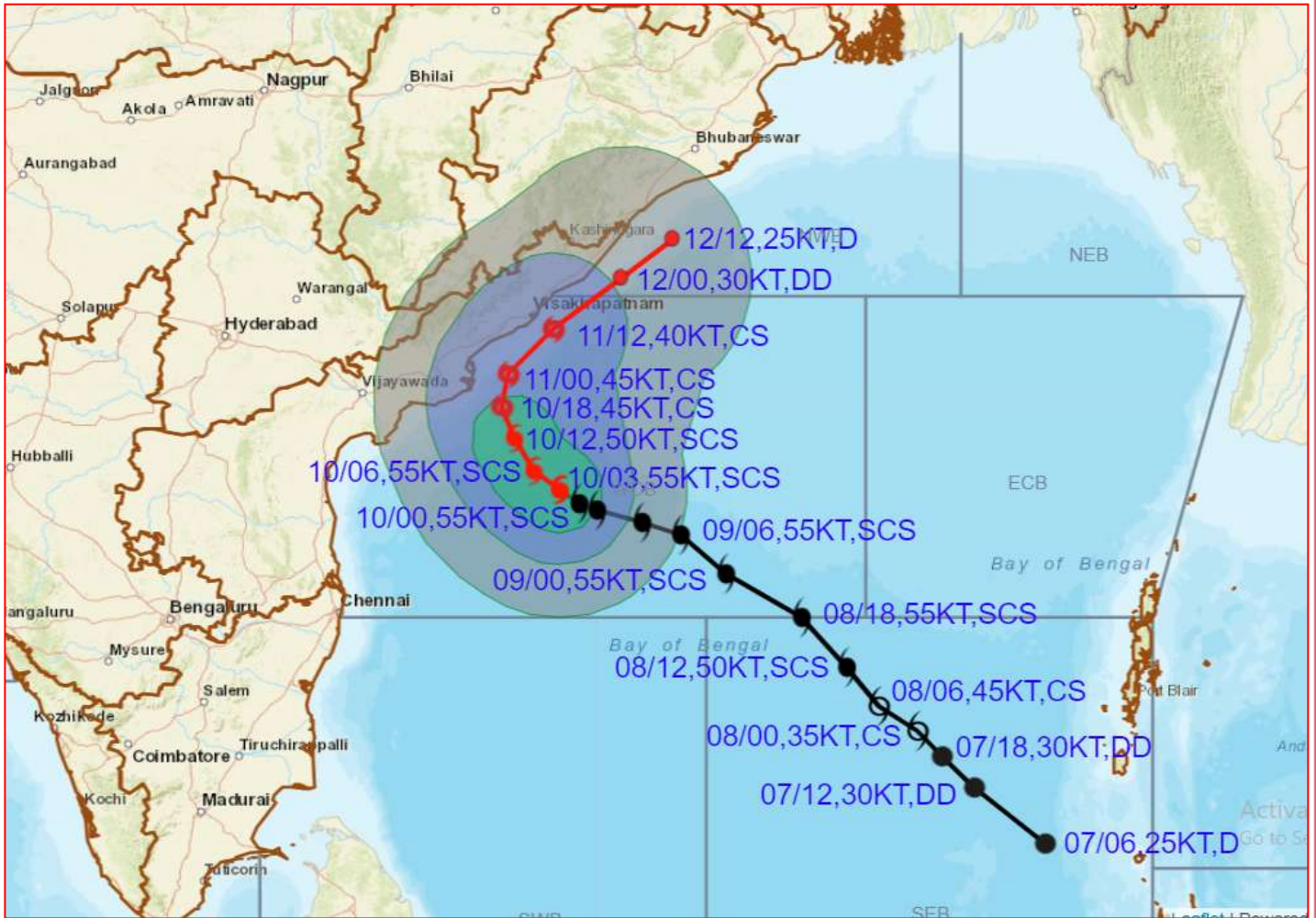
Forecast Date and Time	Lead Period	Forecast distance (km) and direction of the centre from nearest 5 coastal stations						
		Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
10.05.22/0300	0	15.0	83.7	NARSAPUR (267,SE)	KAKINADA (268,SE)	TUNI (289,SE)	MACHILIPATNAM/ FRANCHPET (304,ESE)	NIDADAVOLE (305,SE)
11.05.22/0000	21	16.8	82.9	TUNI (72,SE)	KAKINADA (73,ESE)	VISHAKHAPATNAM (113,SSW)	NARSAPUR (134,ENE)	NIDADAVOLE (140,E)
12.05.22/0000	45	18.3	84.7	KALINGAPATAM (60,E)	GOPALPUR (109,S)	VISHAKHAPATNAM (162,ENE)	PURI (204,SW)	KORAPUT (217,ESE)
	69							

Forecast Date and Time	Lead Period	Forecast distance (km) and direction of the centre from nearest 5 coastal stations						
		Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
10.05.22/0300	0	15.0	83.7	NARSAPUR (267,SE)	KAKINADA (268,SE)	TUNI (289,SE)	MACHILIPATNAM/ FRANCHPET (304,ESE)	NIDADAVOLE (305,SE)
10.05.22/0600	3	15.3	83.3	NARSAPUR (213,SE)	KAKINADA (216,SE)	TUNI (242,SE)	NIDADAVOLE (251,SE)	MACHILIPATNAM/ FRANCHPET (251,ESE)
10.05.22/1200	9	15.8	83.0	KAKINADA (152,SE)	NARSAPUR (156,ESE)	TUNI (179,SE)	NIDADAVOLE (190,SE)	MACHILIPATNAM/ FRANCHPET (203,ESE)
10.05.22/1800	15	16.3	82.8	KAKINADA (94,SE)	NARSAPUR (118,E)	TUNI (120,SE)	NIDADAVOLE (143,ESE)	VISHAKHAPATNAM (166,SSW)
11.05.22/0000	21	16.8	82.9	TUNI (72,SE)	KAKINADA (73,ESE)	VISHAKHAPATNAM (113,SSW)	NARSAPUR (134,ENE)	NIDADAVOLE (140,E)
11.05.22/1200	33	17.5	83.6	VISHAKHAPATNAM (40,SE)	KALINGAPATAM (109,SSW)	TUNI (113,E)	KAKINADA (158,ENE)	KORAPUT (174,SE)
12.05.22/0000	45	18.3	84.7	KALINGAPATAM (60,E)	GOPALPUR (109,S)	VISHAKHAPATNAM (162,ENE)	PURI (204,SW)	KORAPUT (217,ESE)
12.05.22/1200	57	18.9	85.5	GOPALPUR (77,ESE)	PURI (106,SSW)	BHUBANESHWAR (154,SSW)	KALINGAPATAM (157,ENE)	CUTTACK (180,SSW)

**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 0300 UTC OF 10TH MAY 2022



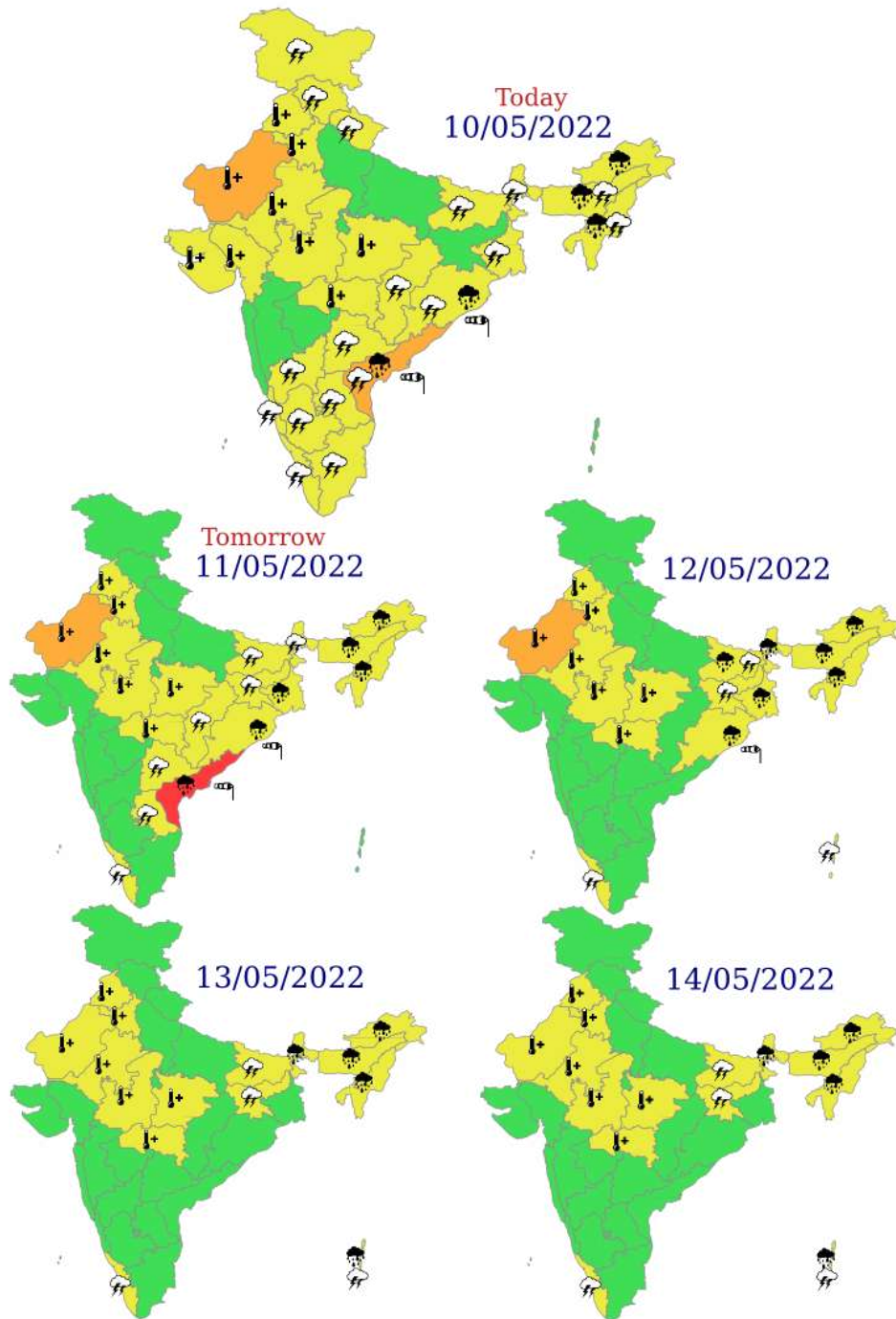
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
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 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

● 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

Heavy rainfall warning Graphics



WARNING

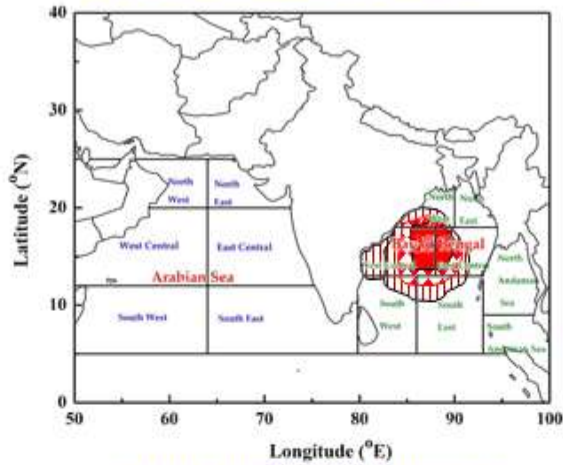
WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

-  Heavy Rain
-  Strong Winds

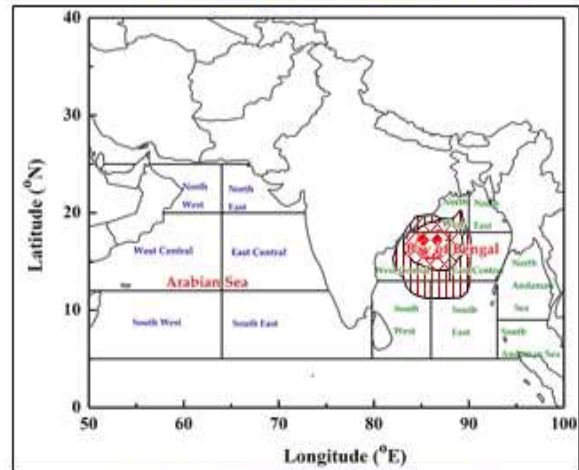
FISHERMAN WARNING GRAPHICS

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

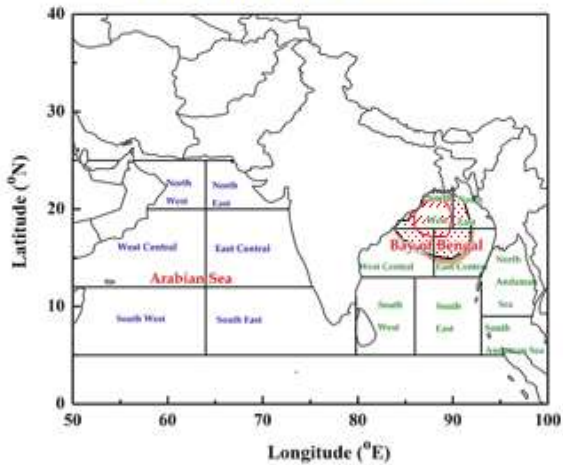
DAY-1: 10.05.2022/0000 UTC TO 11.05.2022/0000 UTC



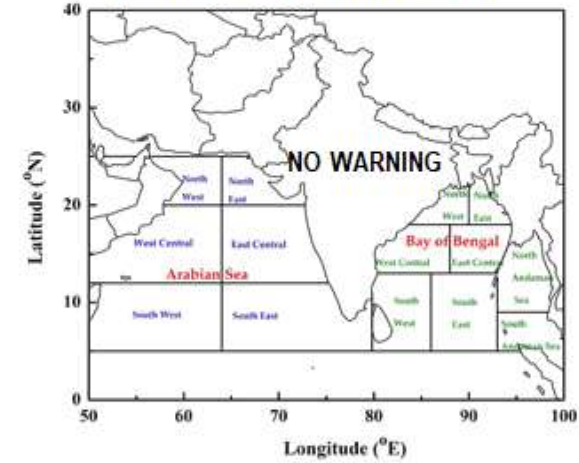
DAY-2: 11.05.2022/0000 UTC TO 12.05.2022/0000 UTC



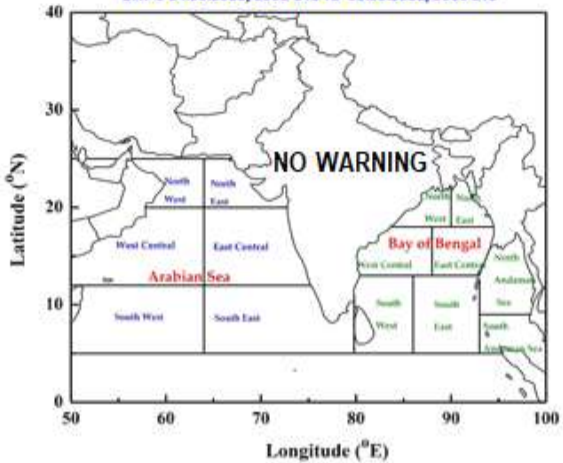
DAY-3: 12.05.2022/0000 UTC TO 13.05.2022/0000 UTC



DAY-4: 13.05.2022/0000 UTC TO 14.05.2022/0000 UTC



DAY-5: 14.05.2022/0000 UTC TO 15.05.2022/0000 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
-  60-70 KMPH GUSTING TO 80 KMPH
-  70-80 KMPH GUSTING TO 90 KMPH
-  75-85 KMPH GUSTING TO 95 KMPH
-  90-100 KMPH GUSTING TO 110 KMPH