



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

BULLETIN NO. 28 (BOB/03/2022)

TIME OF ISSUE: 0845 HOURS IST

DATED: 11.05.2022

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

The Cyclonic Storm 'Asani' (pronounced as Asani) over westcentral Bay of Bengal moved north-northwestwards with a speed of 6 kmph during past 06 hours, and lay centered at 0530 hours IST of 11th May, over same region near latitude 15.8°N and longitude 81.4°E, about 50 km south-southeast of Machilipatnam (Andhra Pradesh), 150 km southwest of Kakinada (Andhra Pradesh), 290 km southwest of Visakhapatnam (Andhra Pradesh), 530 km southwest of Gopalpur (Odisha) and 640 km southwest of Puri (Odisha).

It is very likely to move nearly northwards for next few hours and then north-northeastwards along Narsapur, Yanam, Kakinada, Tuni & Visakhapatnam coasts during noon to evening of today and emerge into westcentral Bay of Bengal off North Andhra Pradesh coasts by night. It is likely to weaken gradually 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
11.05.22/0530	15.8/81.4	75-85 gusting to 95	Cyclonic Storm
11.05.22/1130	16.2/81.5	70-80 gusting to 90	Cyclonic Storm
11.05.22/1730	16.5/81.9	65-75 gusting to 85	Cyclonic Storm
11.05.22/2330	16.8/82.5	55-65 gusting to 75	Deep Depression
12.05.22/0530	17.1/83.2	45-55 gusting to 65	Deep Depression

Warnings:

(i) Rainfall (warning graphics enclosed)

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 south coastal Odisha.

12th May: Light to moderate rainfall likely at many places with **heavy rainfall** at isolated places is likely over north coastal Andhra Pradesh, coastal areas of Odisha and West Bengal.

(ii) Wind warning

- Gale wind speed reaching 75-85 kmph gusting to 95 kmph is prevailing around the system center over Westcentral Bay of Bengal. It would gradually decrease become 65-75 Kmph gusting to 85 Kmph by today afternoon over the same region. Further, it would decrease to 45-55 Kmph gusting to 65 Kmph over Westcentral Bay of Bengal on 12th May morning.
- Squally wind speed reaching 55-65 kmph gusting to 75 kmph is prevailing along and off Andhra Pradesh coast. It is likely to increase and become gale wind speed reaching 70-80 kmph gusting to 90 kmph along & off Andhra Pradesh coast (Krishna, East & West Godavari, Yanam of Puducherry UT and Visakhapatnam districts) during forenoon to afternoon of today. It would then decrease gradually to 45-55 Kmph gusting to 65 Kmph over the region by 12th May morning.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to continue along & off Odisha coast and West Bengal coast on 11th to 12th May.

(iii) Sea condition

Sea condition is likely to be high over westcentral & adjoining northwest Bay of Bengal till evening of 11th May and very rough to rough over the same region thereafter till 12th May.

(iv) Storm Surge warning (Graphics enclosed)

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

(iv) Fishermen Warning (Graphics enclosed)

- Total suspension of fishing operations over westcentral Bay of Bengal on 11th and over northwest Bay of Bengal till 12th May.
- Fishermen are advised not to venture into westcentral Bay of Bengal along and off Andhra Pradesh and Odisha coasts on 11th May and into Northwest Bay of Bengal till 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, Yanam of Puducherry UT and Vishakhapatnam districts of Andhra Pradesh)

- Damage to thatched huts.
- Minor damage to power and communication lines due to breaking of tree branches.
- Major damage to Kutcha and minor damage to Pucca roads.
- Damage to paddy and other standing crops, banana, papaya trees and orchards
- Inundation of low lying areas

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

- Stay in safe places
- 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.

The system is under continuous surveillance and the next bulletin will be issued at 1130 hours IST of today, the 11th May, 2022.

**(Shobhit Katiyar)
Scientist-C, 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

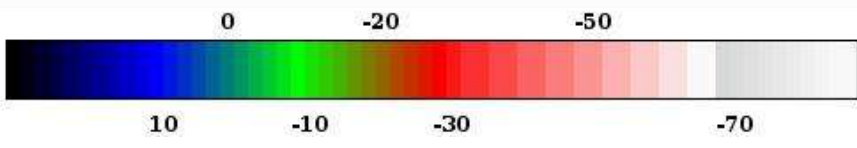
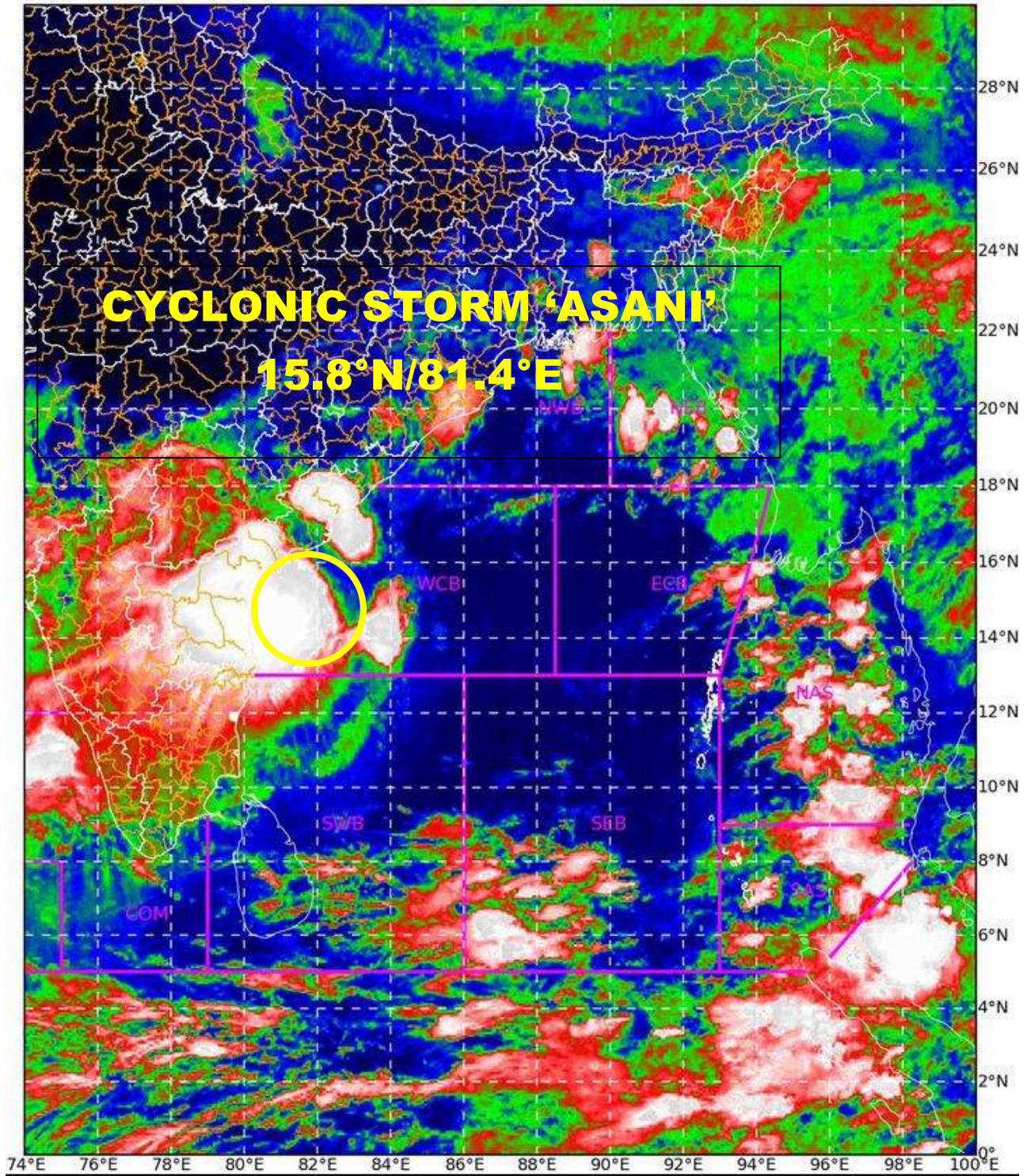
SAT : INSAT-3D IMG

11-05-2022/(0130 to 0156) GMT

IMG_TIR1_TEMP 10.8 um

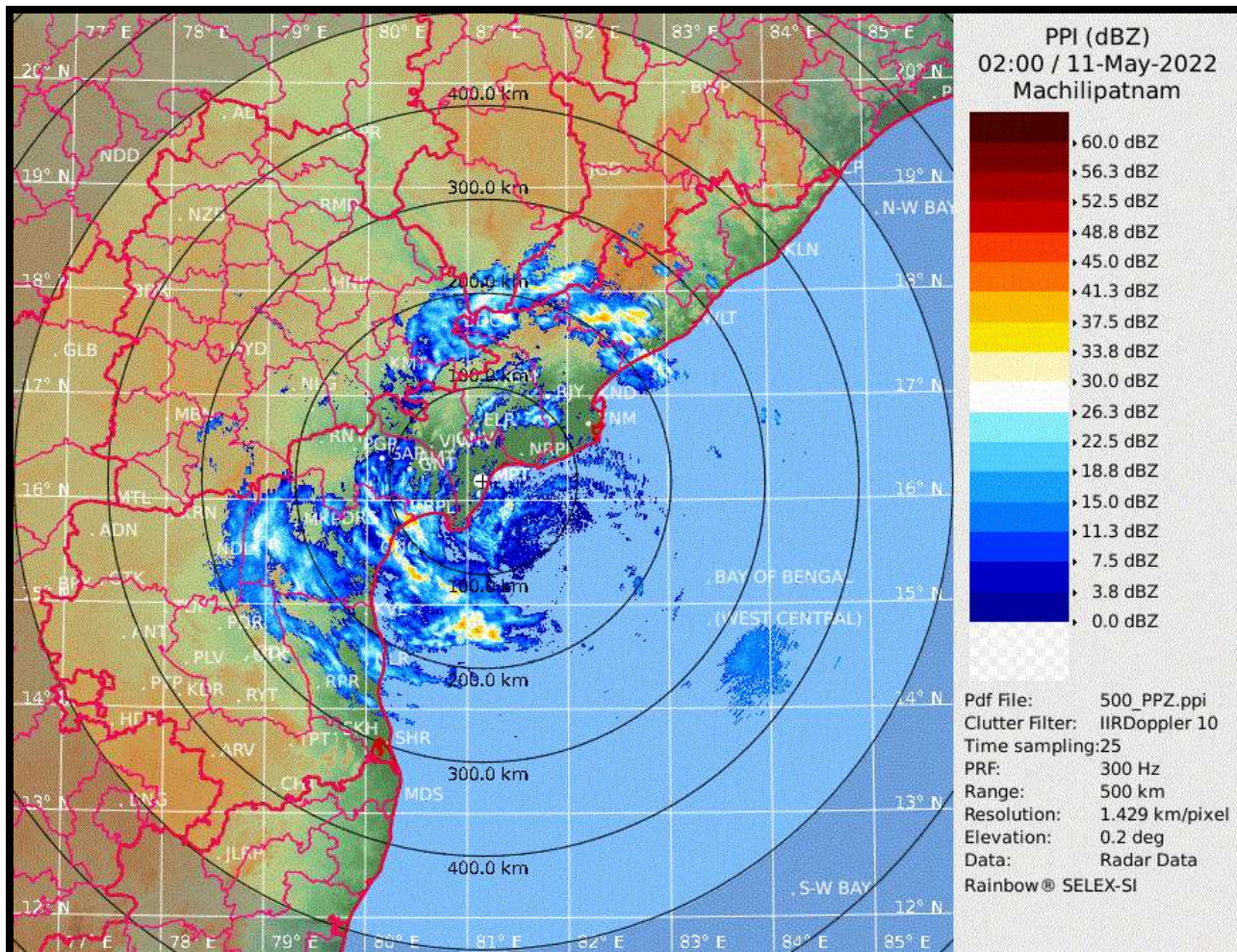
11-05-2022/(0700 to 0726) IST

L1C Mercator



Celsius
IMD, DELHI

CYCLONIC STORM "ASANI" VIEWED BY THE DWR AT MACHILIPATNAM





FORECAST TRACK AND INTENSITY OF CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 11TH 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 (≥ 120 KT)

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

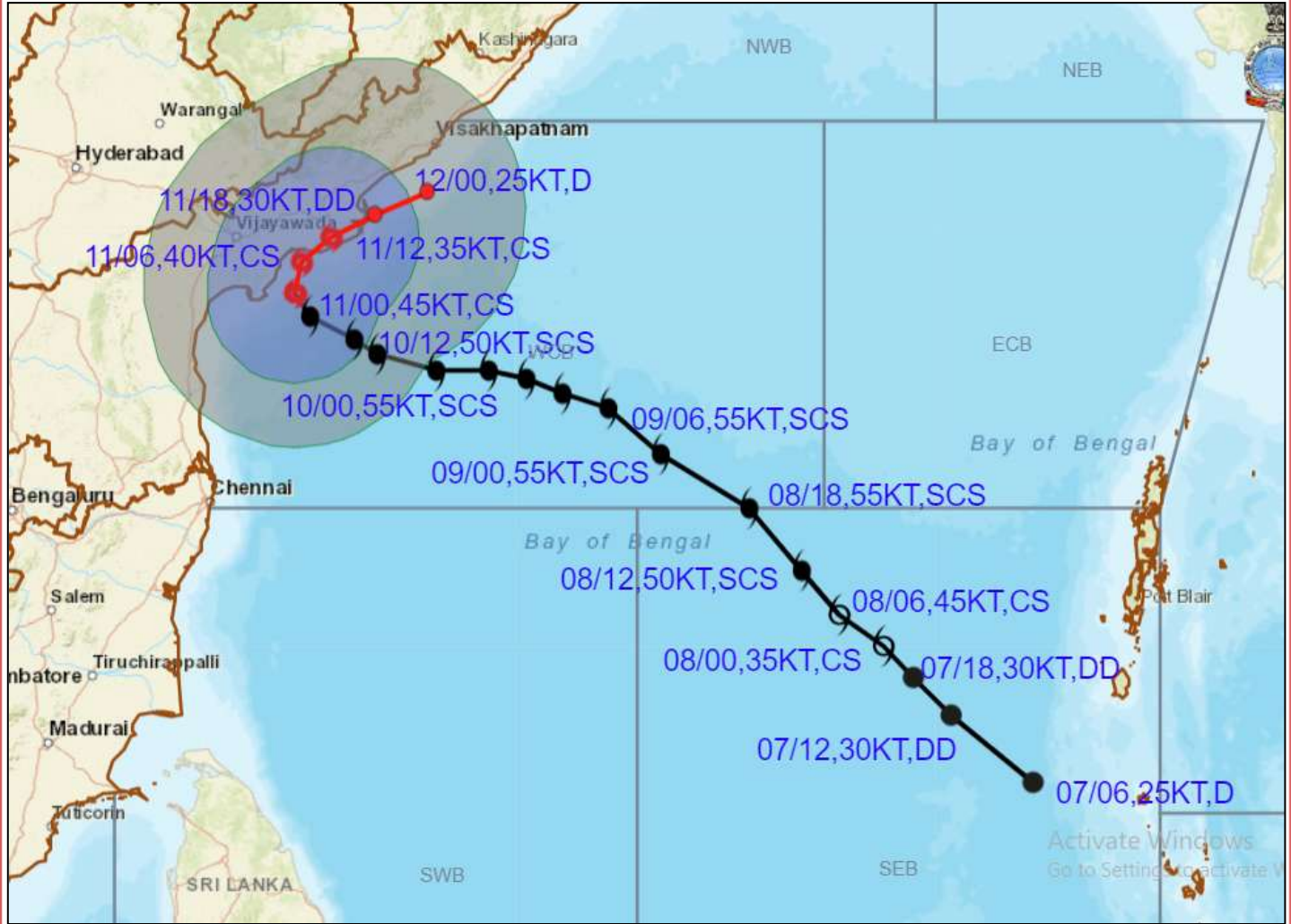
STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS	
	Distance (km)	Direction
KAKINADA	12.05.22/0000	
GOPALPUR	100,E	
VISHAKHAPATNAM	300,SW	
PURI	70,S	
	410,SW	

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
11.05.22/0000	0	15.8	81.4	MACHILIPATNAM/ FRANCHPET (52,SSE)	NARSAPUR (77,SSW)	BAPATLA (101,E)	VIJAYAWADA /GANNAVARAM (104,SE)	VIJAYAWADA (116,SE)
11.05.22/0600	6	16.2	81.5	NARSAPUR (34,SW)	MACHILIPATNAM/ FRANCHPET (37,E)	NIDADAVOLE (71,S)	VIJAYAWADA /GANNAVARAM (83,ESE)	VIJAYAWADA (101,ESE)
11.05.22/1200	12	16.5	81.9	NARSAPUR (23,ENE)	NIDADAVOLE (50,SE)	KAKINADA (61,SW)	MACHILIPATNAM/ FRANCHPET (87,ENE)	TUNI (117,SW)
11.05.22/1800	18	16.8	82.5	KAKINADA (33,ESE)	TUNI (61,S)	NARSAPUR (95,ENE)	NIDADAVOLE (98,E)	VISHAKHAPATNAM (133,SW)
12.05.22/0000	24	17.1	83.2	VISHAKHAPATNAM (69,S)	TUNI (75,ESE)	KAKINADA (104,E)	KALINGAPATAM (169,SW)	NIDADAVOLE (175,E)

**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 CYCLONIC STORM 'ASANI' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 11TH MAY 2022



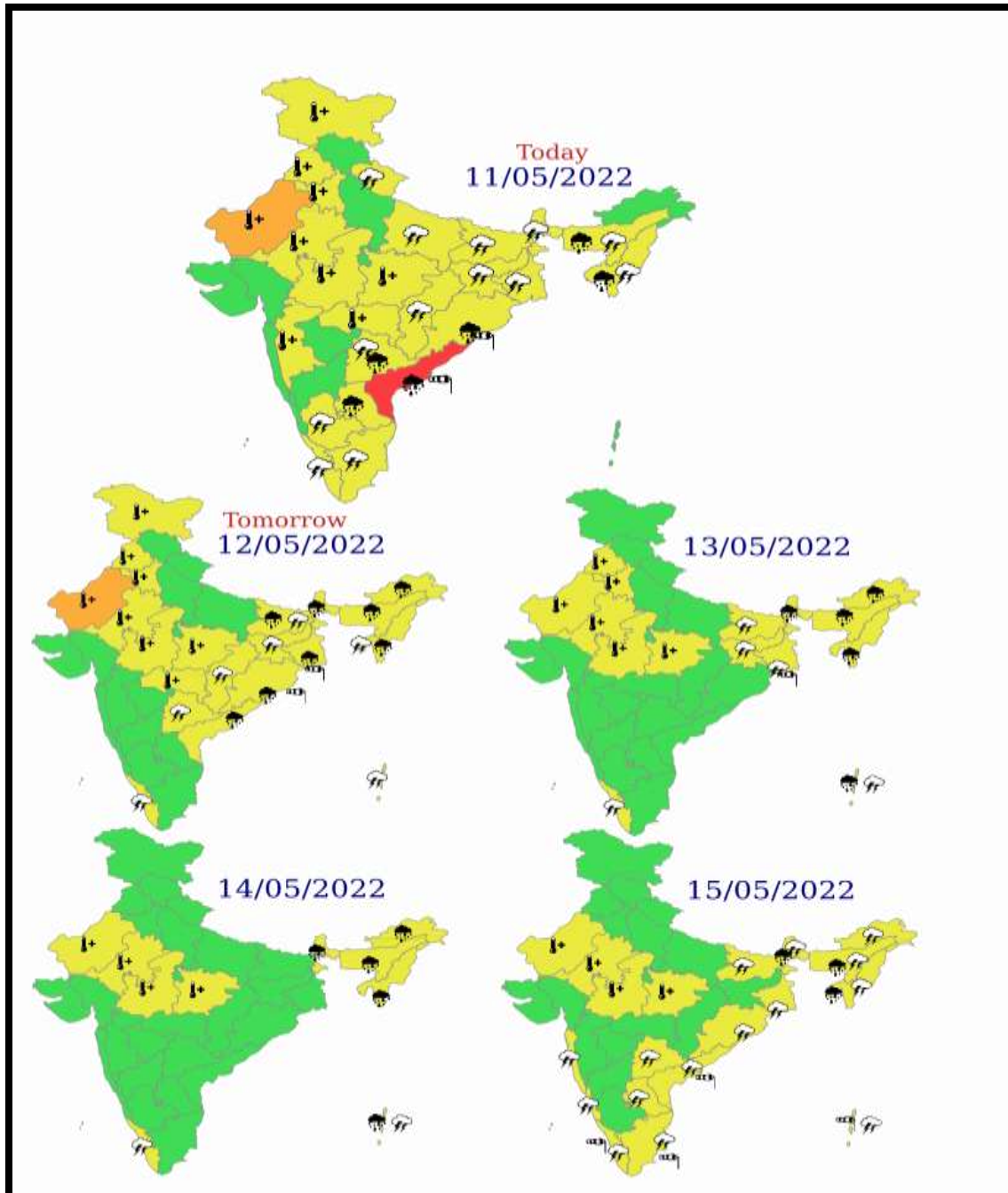
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

● LESS THAN 34 KT
 ○ 34-47 KT
 ● \geq 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)
 ■ \geq 64 KT (\geq 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
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations

Heavy rainfall warning Graphics



WARNING

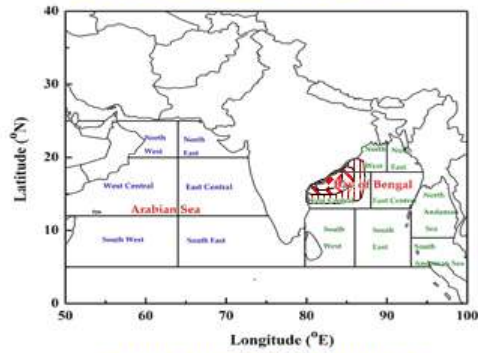
WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

-  Heavy Rain
-  Strong Winds

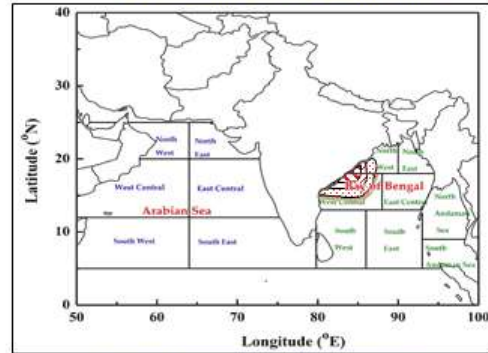
FISHERMAN WARNING GRAPHICS

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

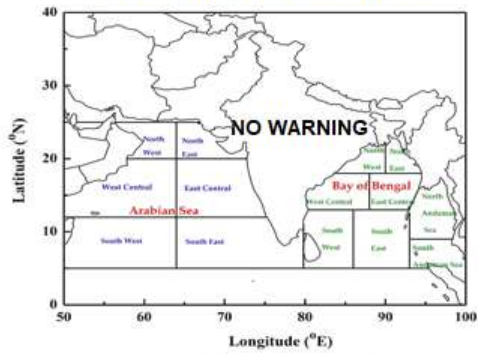
DAY-1: 10.05.2022/1800 UTC TO 11.05.2022/1800 UTC



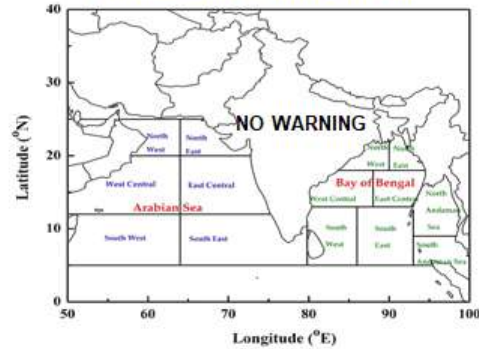
DAY-2: 11.05.2022/1800 UTC TO 12.05.2022/1800 UTC



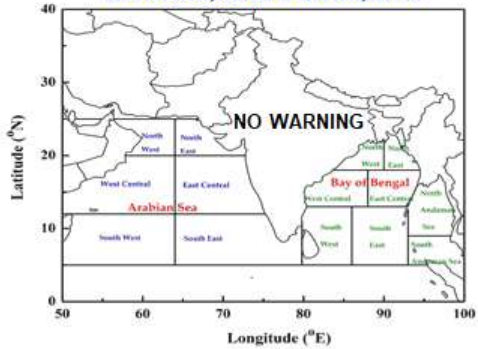
DAY-3: 12.05.2022/1800 UTC TO 13.05.2022/1800 UTC



DAY-4: 13.05.2022/1800 UTC TO 14.05.2022/1800 UTC



DAY-5: 14.05.2022/1800 UTC TO 15.05.2022/1800 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
-  80-90 KMPH GUSTING TO 100 KMPH
-  90-100 KMPH GUSTING TO 110 KMPH

STORM SURGE HEIGHT INFORMATION:

* The below listed surge heights are over and above astronomical tide.

MANDAL/TALUK	DISTRICT	STATE / UNION TERRITORY	NEAREST PLACE OF HABITATION	STORM SURGE (m) *	EXPECTED INUNDATION EXTENT (km)
Kakinada	East Godavari	Andhra Pradesh	P. Mallavaram	0.2-0.5	Upto 0.11
Machilipatnam	Krishna	Andhra Pradesh	Pedapatnam	0.2-0.5	Upto 0.12
Razole	East Godavari	Andhra Pradesh	Bendamurulanka	0.3-0.4	Upto 0.19
Avanigadda	Krishna	Andhra Pradesh	Gangadipalem	0.3-0.4	Nil
Narsapur	West Godavari	Andhra Pradesh	Perupalem	0.2-0.3	Upto 0.14
Repalle	Guntur	Andhra Pradesh	Gangadipalem	0.2-0.4	Upto 0.15
Yanam	Yanam	Puducherry	Yanam	0.2-0.3	Upto 0.11

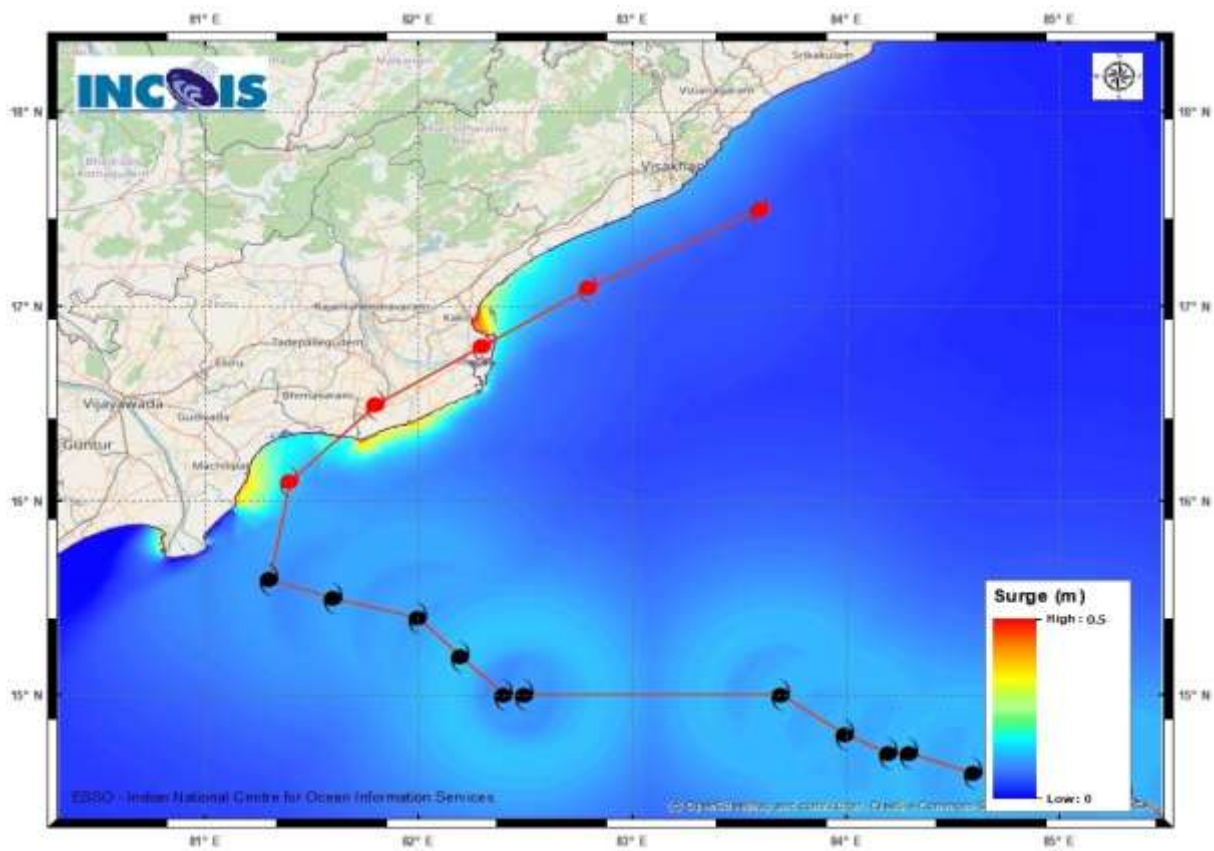


Figure: Storm Surge Map