



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

**BULLETIN NO. 29 (BOB/03/2022)**

**TIME OF ISSUE: 1130 HOURS IST**

**DATED: 11.05.2022**

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

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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-northeastwards with a speed of 6 kmph during past 06 hours, and lay centered at 0830 hours IST of 11<sup>th</sup> May, over same region near latitude 15.9°N and longitude 81.4°E, about 40 km southeast of Machilipatnam (Andhra Pradesh), 140 km southwest of Kakinada (Andhra Pradesh), 280 km southwest of Visakhapatnam (Andhra Pradesh), 520 km southwest of Gopalpur (Odisha) and 630 km southwest of Puri (Odisha).

It is very likely to move north-northeastwards along Narsapur, Yanam, Kakinada, Tuni & Visakhapatnam coasts till evening of today and emerge into westcentral Bay of Bengal off North Andhra Pradesh coasts by today night. It is likely to weaken further into a depression by 12<sup>th</sup> 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
11.05.22/0830	15.9/81.4	75-85 gusting to 95	Cyclonic Storm
11.05.22/1130	16.2/81.6	70-80 gusting to 90	Cyclonic Storm
11.05.22/1730	16.5/82.0	65-75 gusting to 85	Cyclonic Storm
11.05.22/2330	16.8/82.6	55-65 gusting to 75	Deep Depression
12.05.22/0530	17.1/83.3	45-55 gusting to 65	Depression

### **Warnings:**

#### **(i) Rainfall (warning graphics enclosed)**

**11<sup>th</sup> 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.

**12<sup>th</sup> 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 becoming 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 12<sup>th</sup> May morning.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph likely to prevail along & off Krishna, East & West Godavari, Yanam of Puducherry UT and Visakhapatnam districts and 50-60 kmph gusting to 70 kmph along & off adjoining districts of Coastal Andhra Pradesh during forenoon to afternoon of today. It would then decrease gradually to 45-55 Kmph gusting to 65 Kmph over the same region by 12<sup>th</sup> May morning.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to continue along & off Odisha and West Bengal coasts on 11<sup>th</sup> to 12<sup>th</sup> May.

#### **(iii) Sea condition**

Sea condition is likely to continue to be high over westcentral & adjoining northwest Bay of Bengal till evening of 11<sup>th</sup> May and very rough to rough over the same region thereafter till 12<sup>th</sup> 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 11<sup>th</sup> and over northwest Bay of Bengal till 12<sup>th</sup> May.
- Fishermen are advised not to venture into westcentral Bay of Bengal along and off Andhra Pradesh and Odisha coasts on 11<sup>th</sup> May and into Northwest Bay of Bengal till 12<sup>th</sup> May.
- Fishermen out at sea are advised to return to coast.

#### **(v) Advisory for offshore activities**

- Regulate offshore operations till 12<sup>th</sup> May.

**(vi) Damage expected: (for Krishna, East & West Godavari, Yanam of Puducherry UT and Vishakhapatnam districts of Andhra Pradesh) during next 12 hours**

- 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 1430 hours IST of today, the 11<sup>th</sup> May, 2022.**

**(KRISHNA MISHRA)  
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

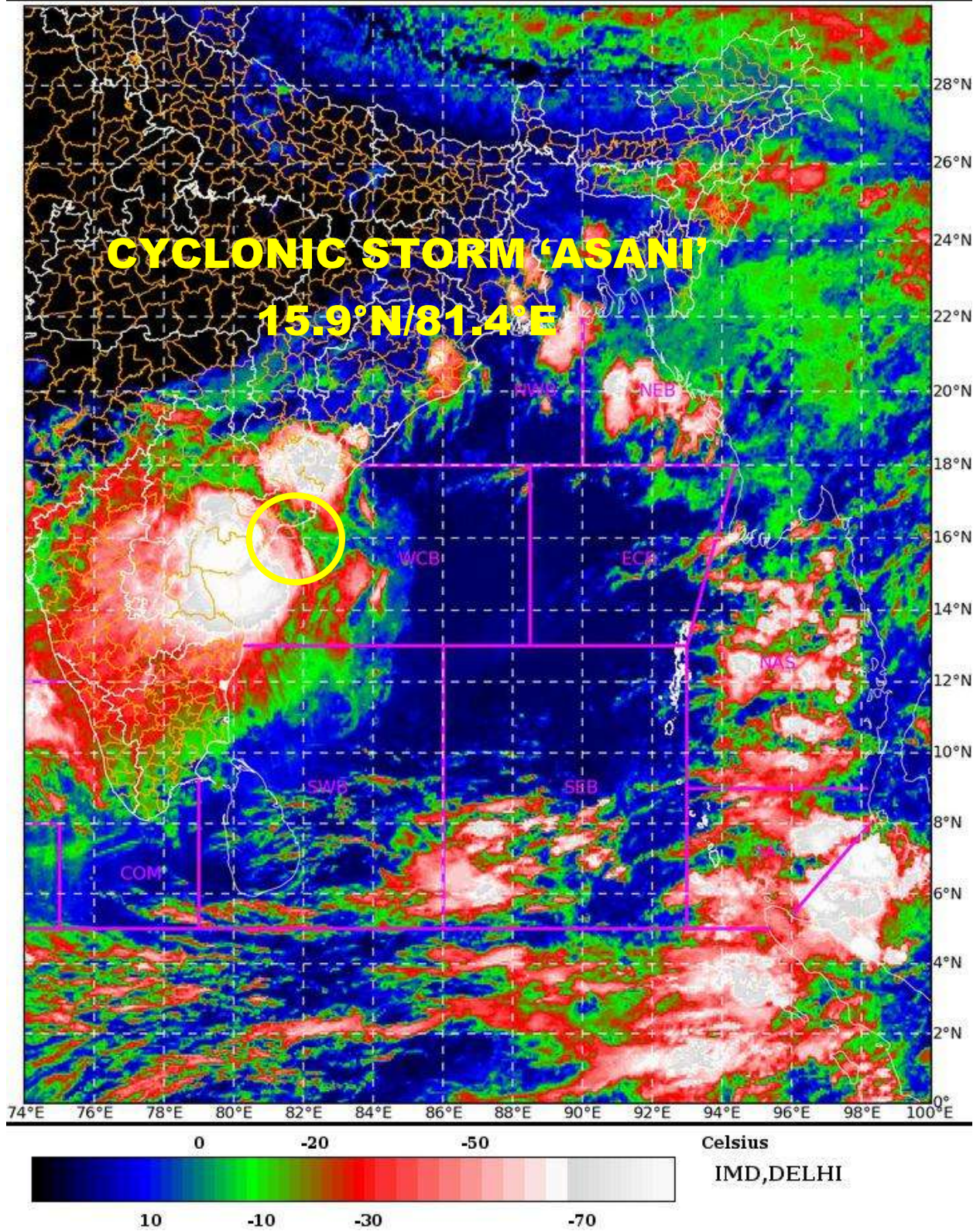
11-05-2022/(0330 to 0356) GMT

IMG\_TIR1\_TEMP 10.8 um

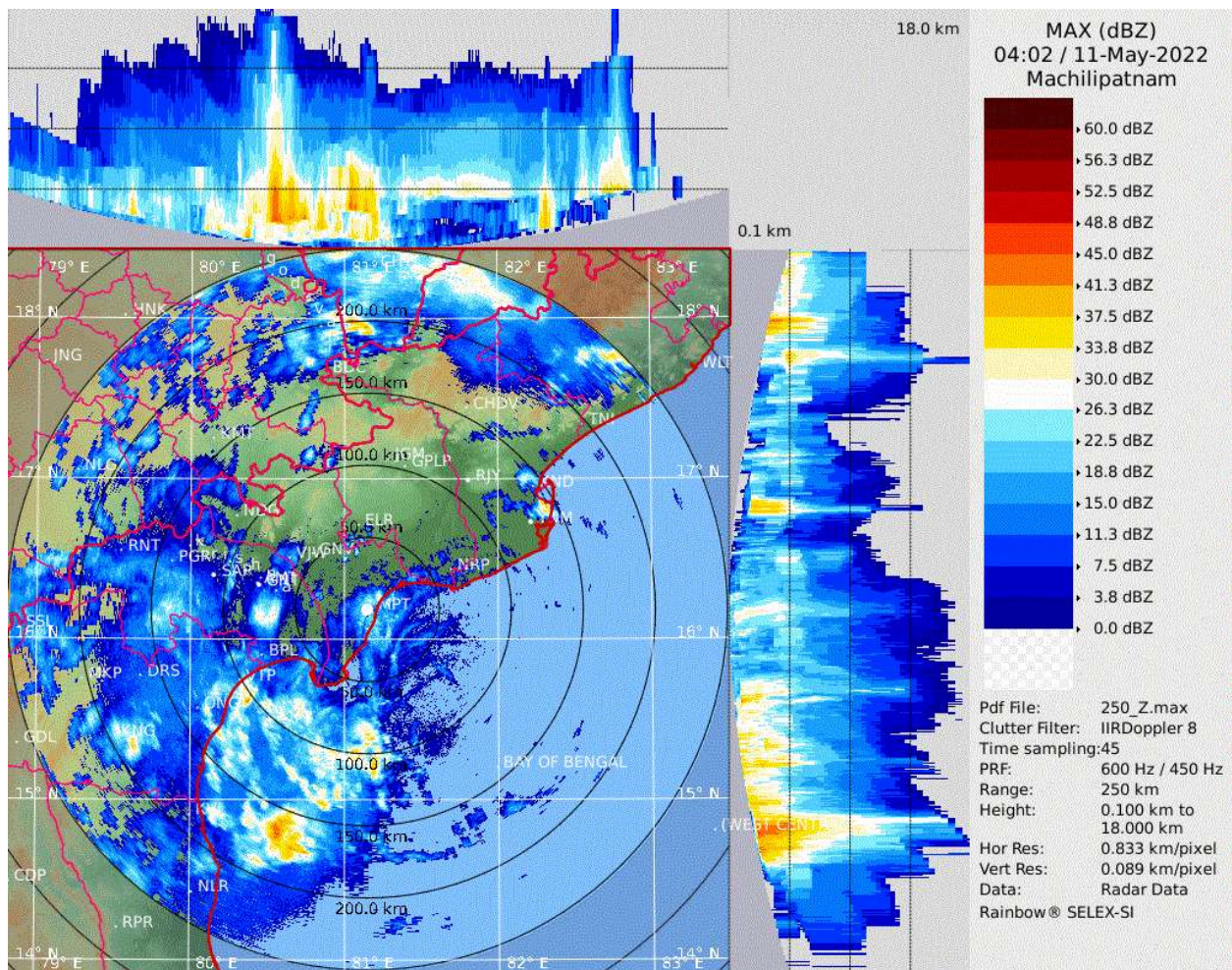
11-05-2022/(0900 to 0926) IST



L1C Mercator

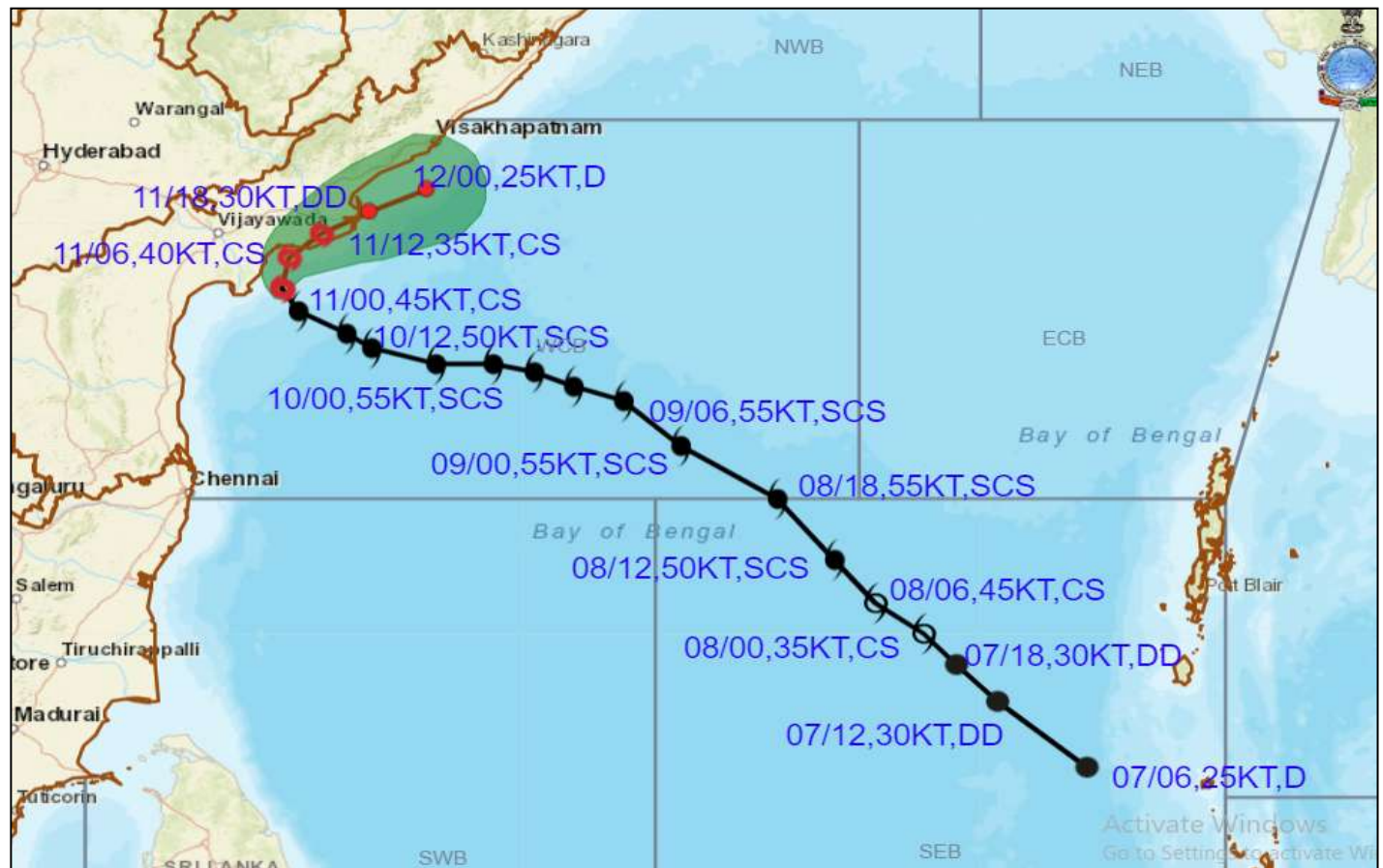


### CYCLONIC STORM "ASANI" VIEWED BY THE DWR AT MACHILIPATNAM





**FORECAST TRACK AND INTENSITY OF CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 11<sup>TH</sup> 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	
	12.05.22/0000	
KAKINADA	100,E	
GOPALPUR	300,SW	
VISHAKHAPATNAM	70,S	
PURI	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 11<sup>TH</sup> 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)

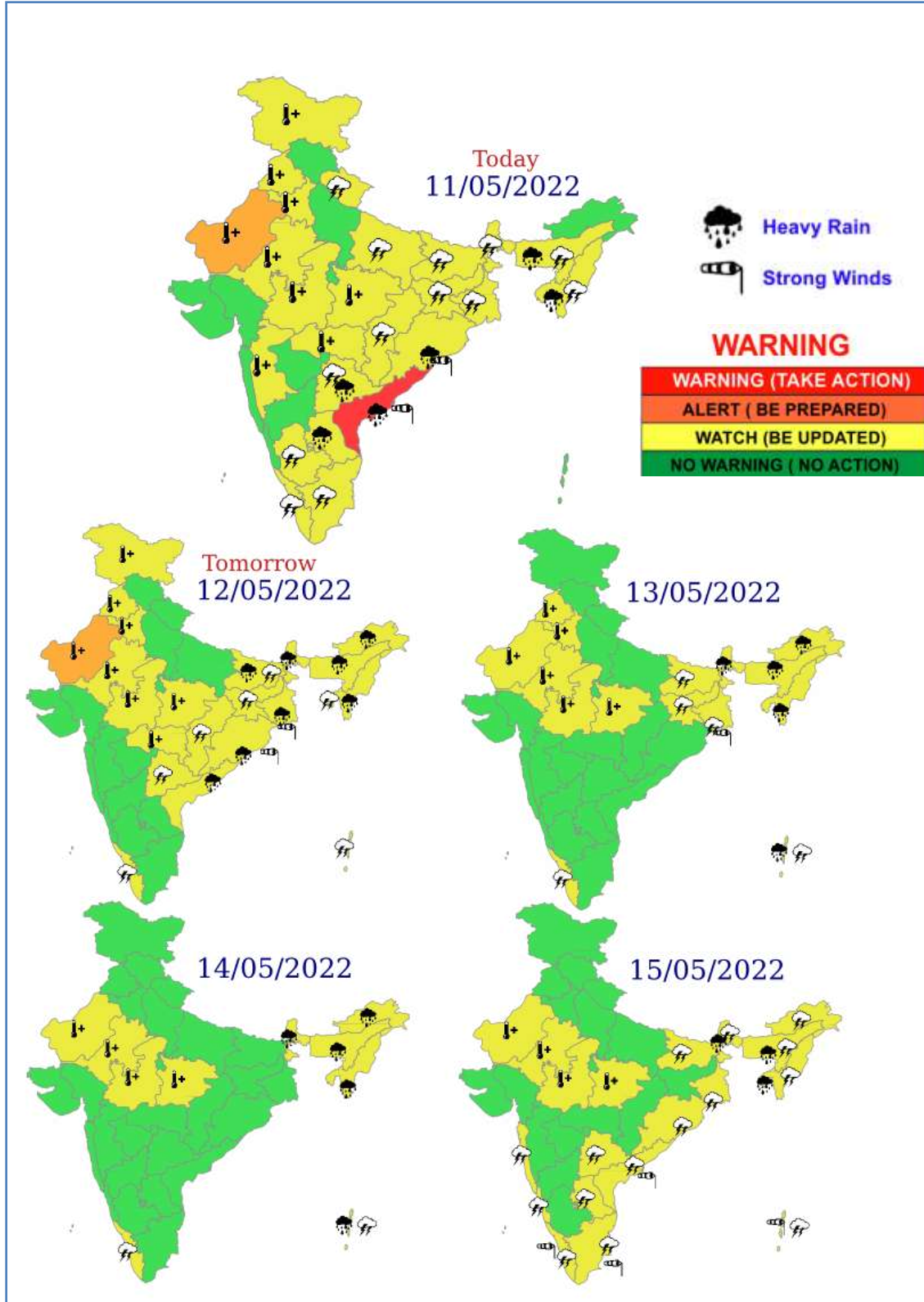
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

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

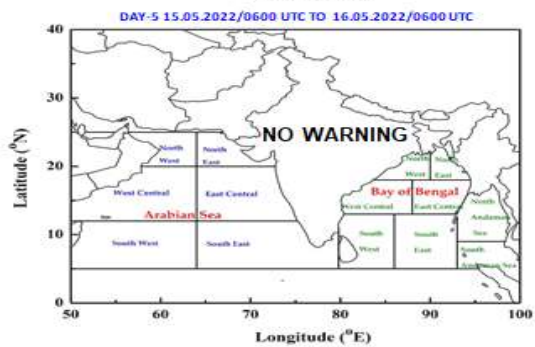
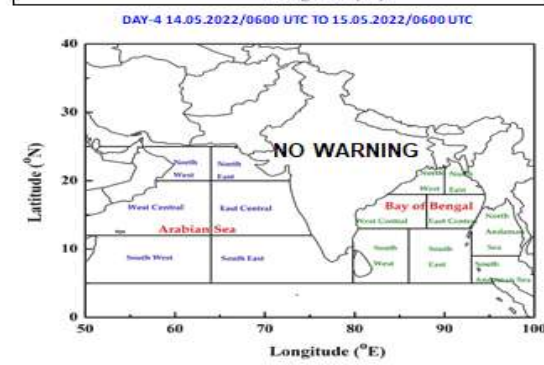
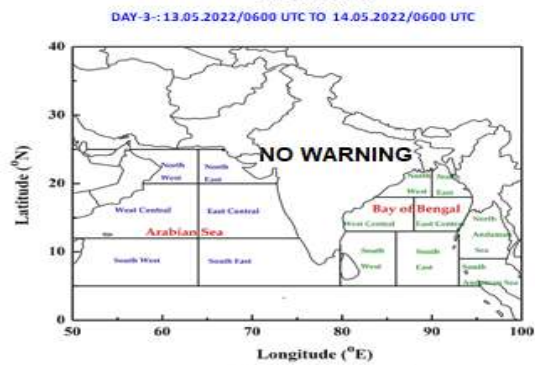
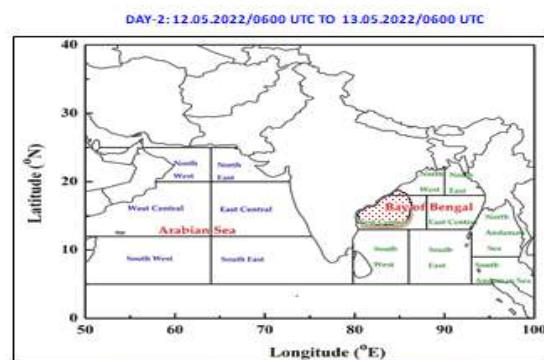
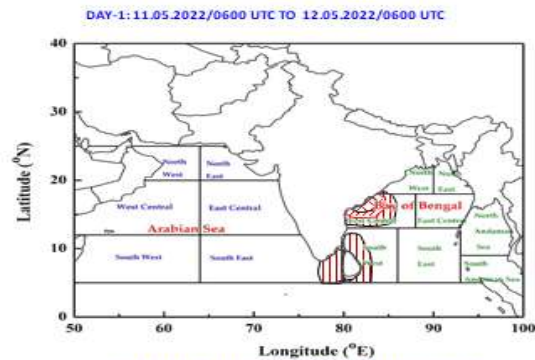
# Heavy rainfall warning Graphics





# FISHERMEN WARNING GRAPHICS

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

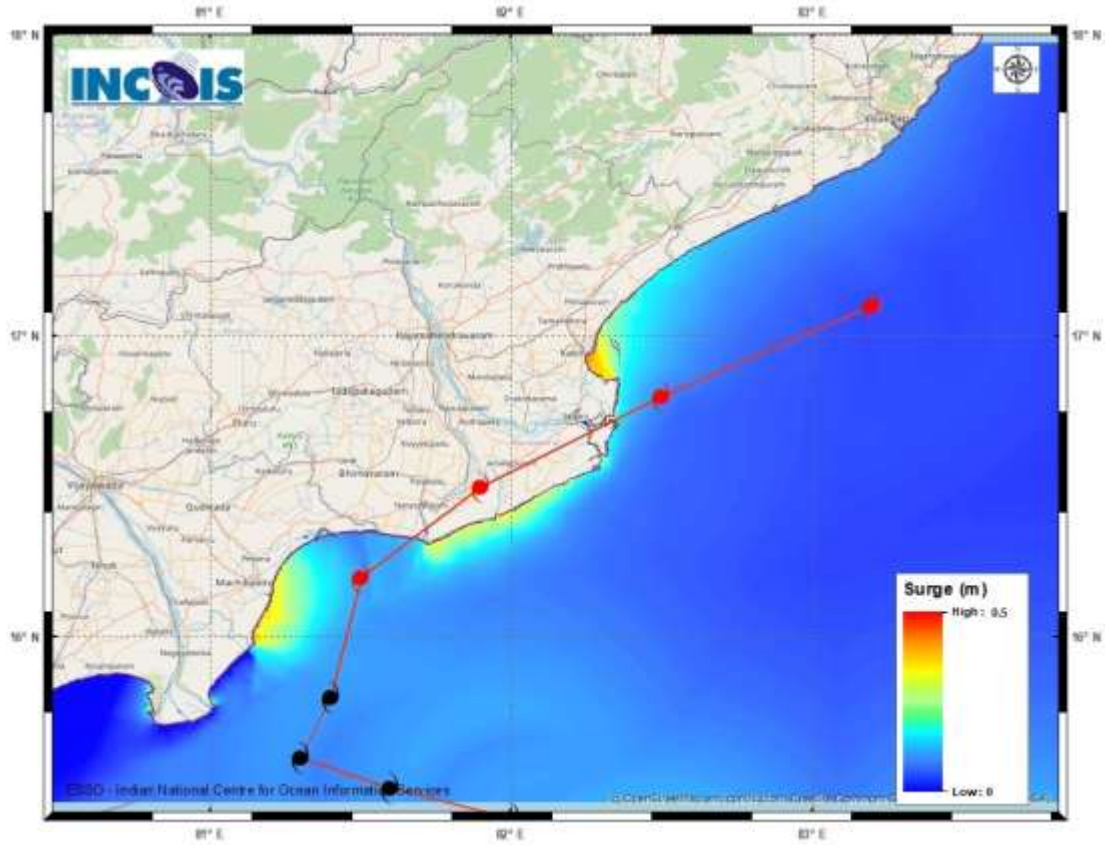


### STORM SURGE HEIGHT INFORMATION:

\* 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
Mummidivaram	East Godavari	Andhra Pradesh	Katrenikona	0.2-0.3	Nil
Yanam	Yanam	Puducherry	Yanam	0.3-0.4	Upto 0.11



**Storm Surge Guidance**