



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

**BULLETIN NO. 23 (BOB/03/2022)**

**TIME OF ISSUE: 1730 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 northwestwards with a speed of 23 kmph during past 06 hours and lay centered at 1430 hours IST of today, the 10<sup>th</sup> May, over westcentral Bay of Bengal near latitude 15.0°N and longitude 82.4°E, 210 km southwest of Kakinada (Andhra Pradesh), 310 km south-southwest of Visakhapatnam (Andhra Pradesh), 590 km southwest of Gopalpur (Odisha) and 640 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 11<sup>th</sup> 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 11<sup>th</sup> May morning and 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
10.05.22/1430	15.0/82.4	95-105 gusting to 115	Severe Cyclonic Storm
10.05.22/1730	15.3/82.1	90-100 gusting to 110	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)**

**10<sup>th</sup> 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 10<sup>th</sup> night.

**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 coastal Odisha & adjoining coastal West Bengal.

**12<sup>th</sup> 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 95-105 kmph gusting to 115 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 10<sup>th</sup> May and become 75-85 Kmph gusting to 95 Kmph from morning of 11<sup>th</sup> 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 12<sup>th</sup> 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 11<sup>th</sup> May and gale wind speed reaching 75-85 kmph gusting to 95 kmph during morning to noon of 11<sup>th</sup> May along & off Andhra Pradesh coast (Krishna, East & West Godavari and Visakhapatnam districts).
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to continue along & off Odisha coast during 10<sup>th</sup> to 12<sup>th</sup> May and along & off West Bengal coast during 11<sup>th</sup> to 12<sup>th</sup> May evening.

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

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

**(iv) Fishermen Warning (Graphics enclosed)**

- Total suspension of fishing operations over westcentral Bay of Bengal during 10<sup>th</sup> to 11<sup>th</sup> and over northwest Bay of Bengal 10 to 12<sup>th</sup> May.
- Fishermen are advised not to venture into westcentral Bay of Bengal along and off Andhra Pradesh and Odisha coasts during 10<sup>th</sup> to 11<sup>th</sup> May and into Northwest Bay of Bengal during 10<sup>th</sup> to 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 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 2030 hours IST of today, the 10<sup>th</sup> 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



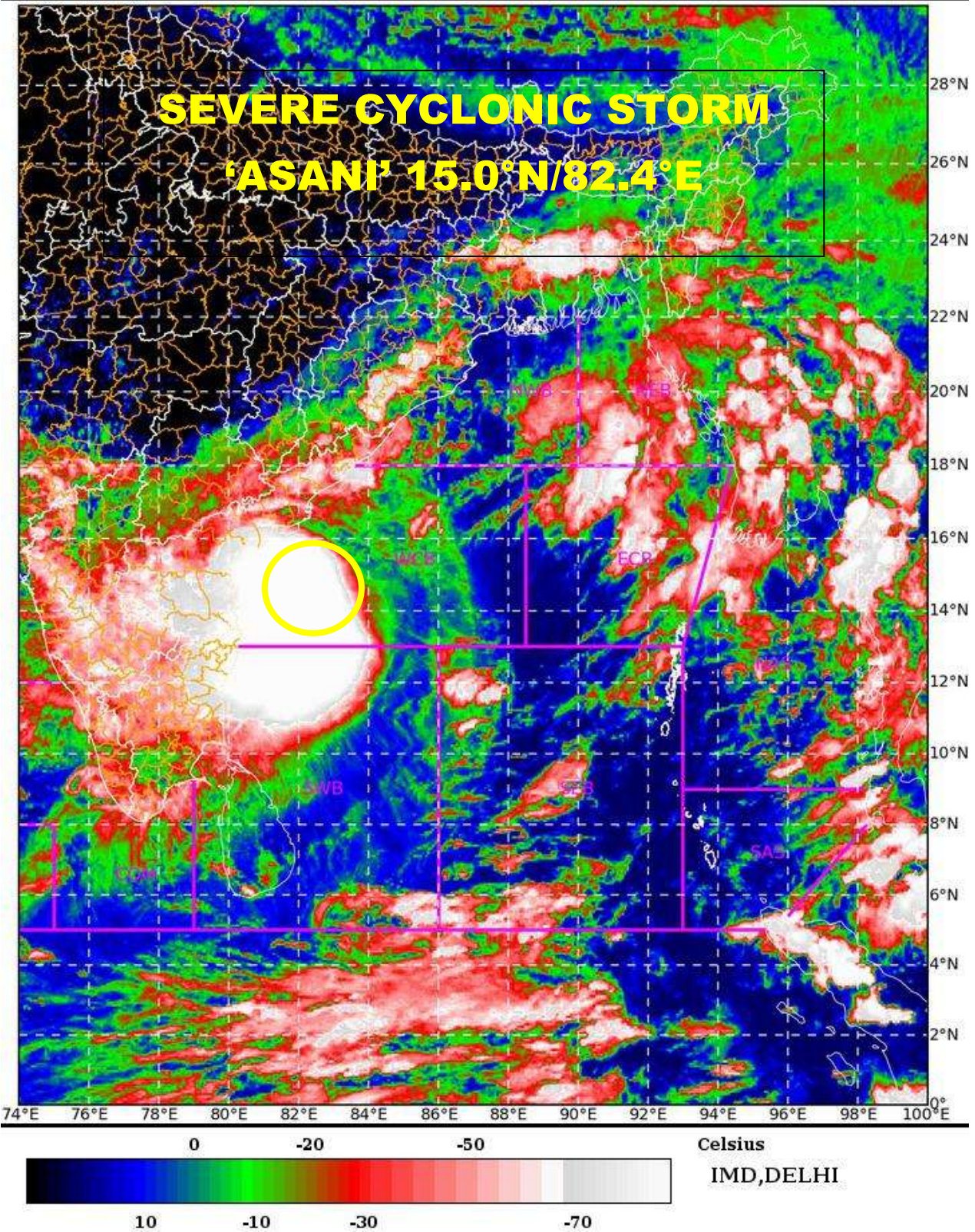
SAT : INSAT-3D IMG

10-05-2022/(1030 to 1056) GMT

IMG\_TIR1\_TEMP 10.8 um

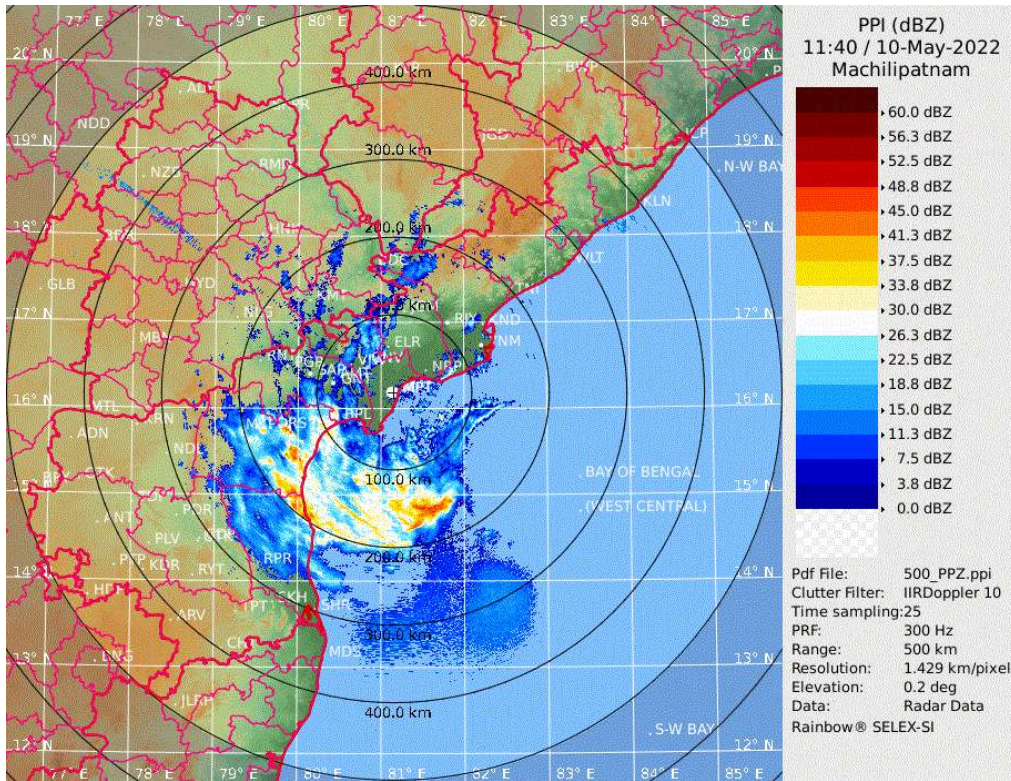
10-05-2022/(1600 to 1626) IST

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 10<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)  
 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

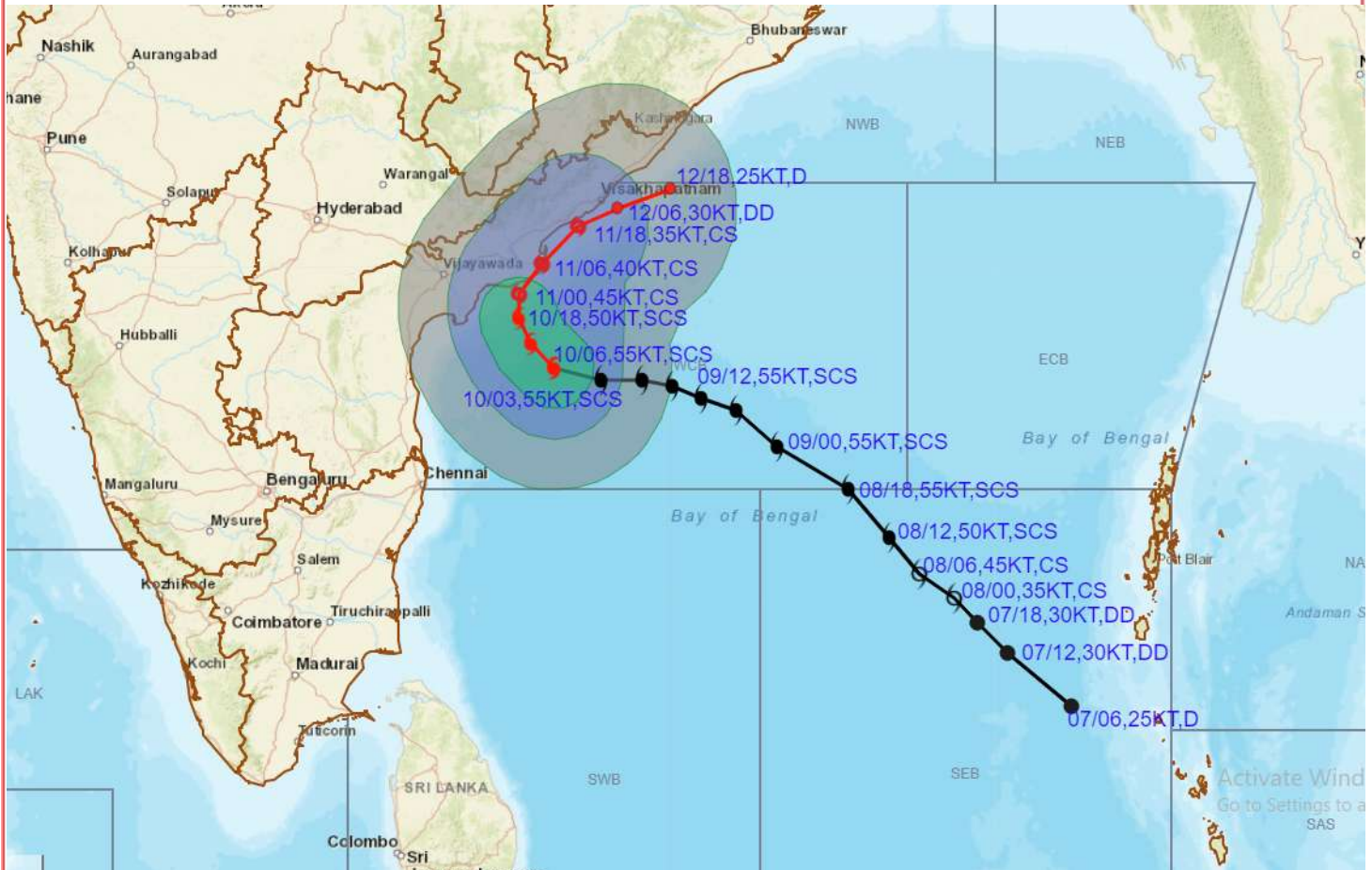
Forecast Date and Time	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
10.05.22/0600	0	15.0	82.5	NARSAPUR (181,SSE)	MACHILIPATNAM/ FRANCHPET (197,SE)	KAKINADA (219,S)	NIDADAVOLE (226,SSE)	BAPATLA (240,ESE)
10.05.22/1200	6	15.4	82.1	NARSAPUR (123,SSE)	MACHILIPATNAM/ FRANCHPET (135,SE)	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 10<sup>TH</sup> MAY 2022



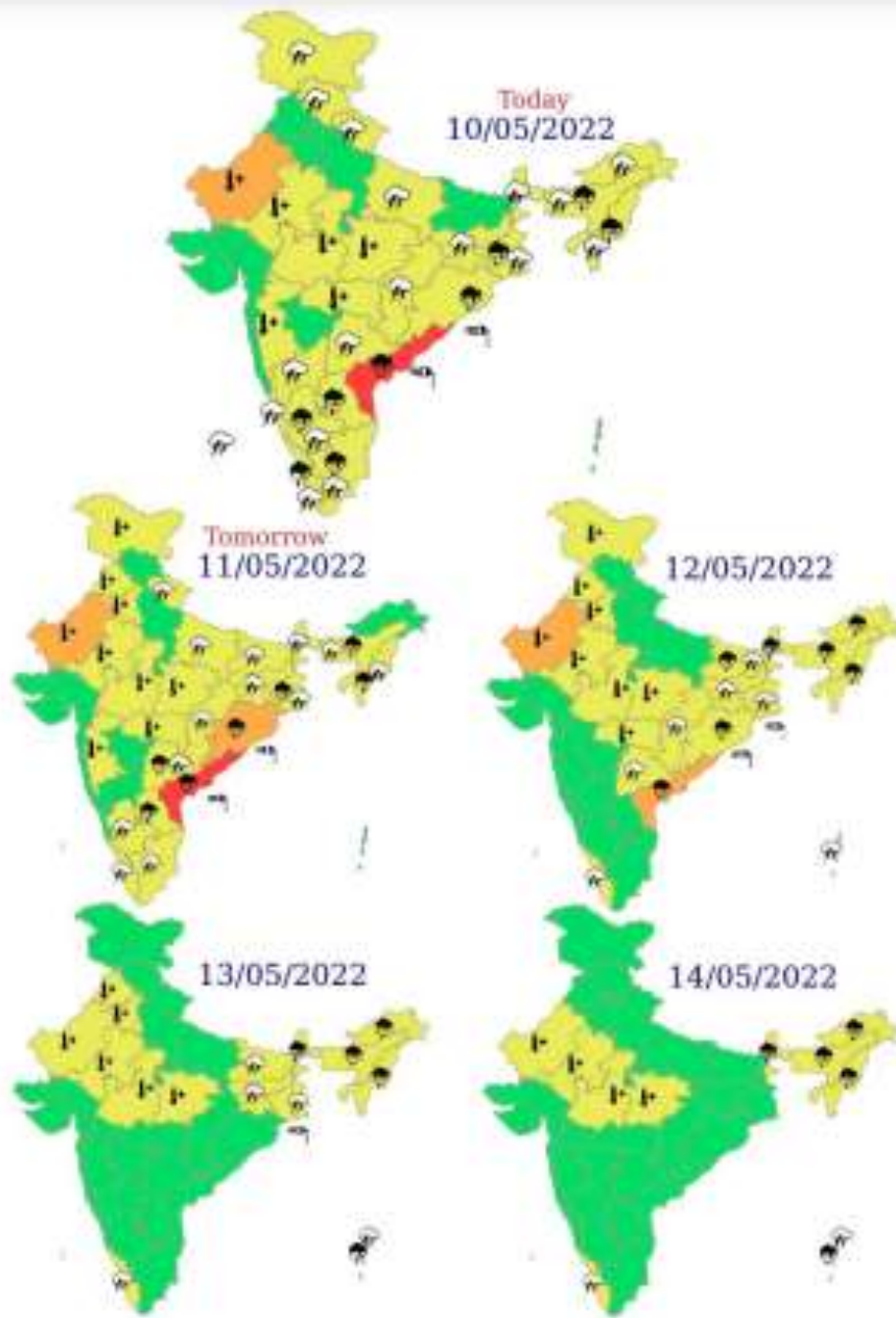
**DATE/TIME IN UTC**  
 IST=UTC + 0530  
**L: LOW PRESSURE AREA**  
**WML: WELL MARKED LOW PRESSURE AREA**  
**D: DEPRESSION (17-27 KT)**  
**DD: DEEP DEPRESSION (28-33 KT)**  
**CS: CYCLONIC STORM (34-47 KT)**  
**SCS: SEVERE CYCLONIC STORM (48-63KT)**  
**VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)**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

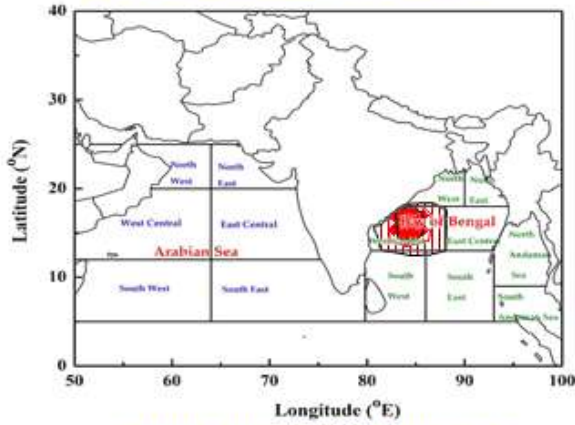
-  Heavy Rain
-  Strong Winds



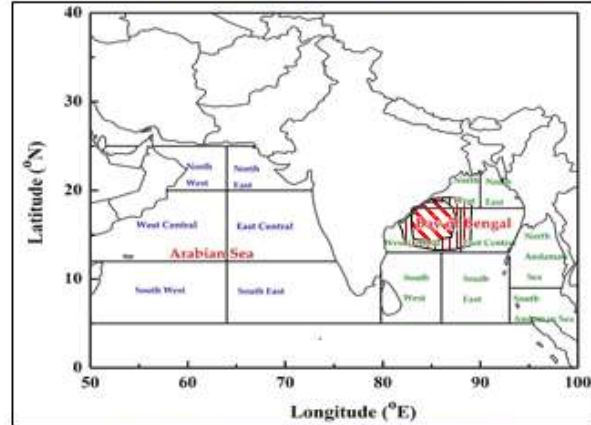
# FISHERMAN WARNING GRAPHICS

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

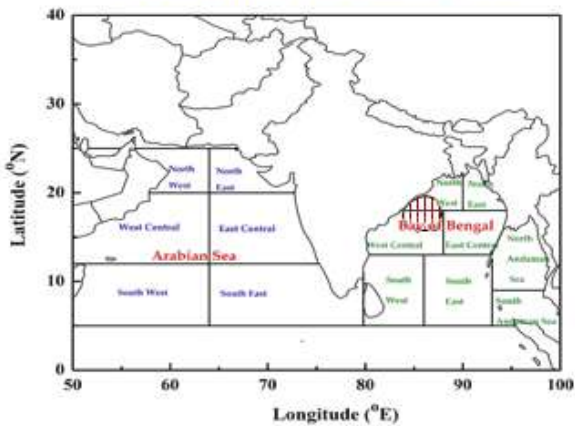
DAY-1: 10.05.2022/0600 UTC TO 11.05.2022/0600 UTC



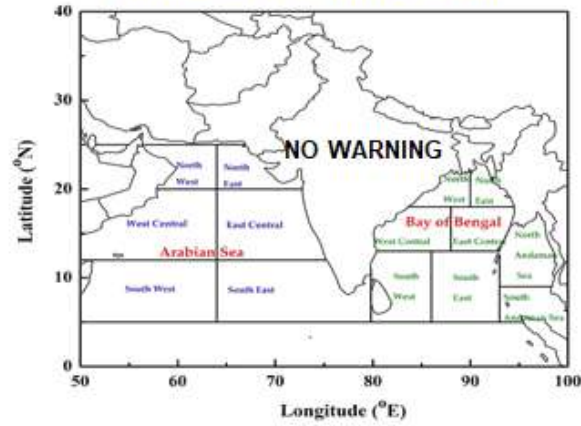
DAY-2: 11.05.2022/0600 UTC TO 12.05.2022/0600 UTC



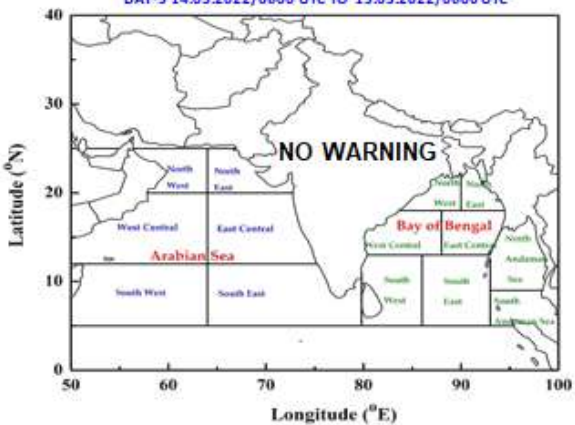
DAY-3: 12.05.2022/0600 UTC TO 13.05.2022/0600 UTC



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

**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	Polekurru	0.3-0.6	Upto 0.11
Yanam	Yanam	Puducherry	Yanam	0.3-0.5	Upto 0.16
Amalapuram	East Godavari	Andhra Pradesh	Nimmakayala Kothapalle	0.3-0.4	Upto 0.15
Pithapuram	East Godavari	Andhra Pradesh	Ponnada	0.3-0.4	Upto 0.15
Tuni	East Godavari	Andhra Pradesh	Kona Forest	0.3-0.4	Nil

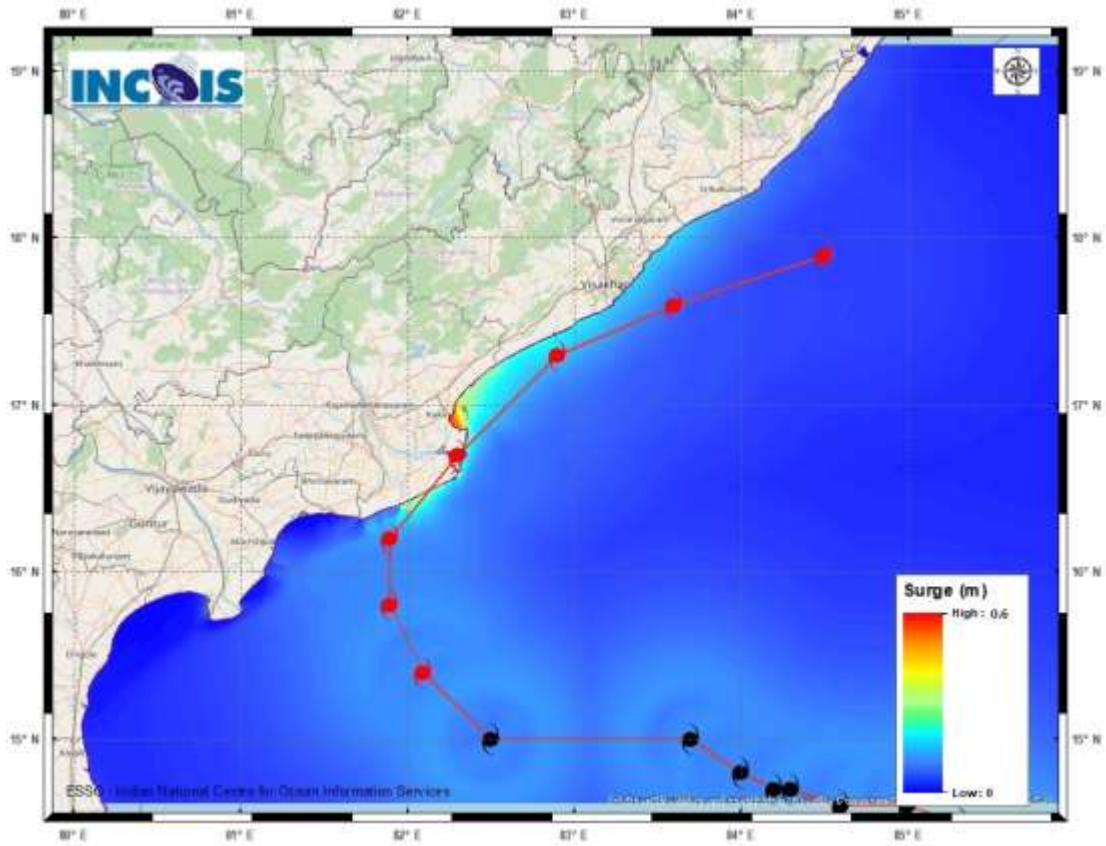


Figure: Storm Surge Map