



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

BULLETIN NO. 26 (BOB/03/2022)

TIME OF ISSUE: 0200 HOURS IST

DATED: 11.05.2022

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 Bay of Bengal moved west-northwestwards with a speed of 12 kmph during past 06 hours and lay centered at 2330 hours IST of 10th May, over same region near latitude 15.5°N and longitude 81.6°E, about 90 km south-southeast of Machilipatnam (Andhra Pradesh), 170 km south-southwest of Kakinada (Andhra Pradesh), 300 km south-southwest of Visakhapatnam (Andhra Pradesh), 540 km south-southwest of Gopalpur (Odisha) and 650 km southwest of Puri (Odisha).

It is very likely to move nearly northwestwards and reach Westcentral Bay of Bengal close to Andhra Pradesh coast by 11th May morning. Thereafter, it is very likely to recurve slowly north-northeastwards, move along Machilipatnam, Narsapur, Yanam, Kakinada, Tuni & Visakhapatnam coasts and emerge into westcentral Bay of Bengal off North Andhra Pradesh coasts by 11th May evening. Then it is likely to move northeastwards towards northwest Bay of Bengal. 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
10.05.22/2330	15.5/81.6	85-95 gusting to 105	Severe Cyclonic Storm
11.05.22/0530	16.1/81.4	80-90 gusting to 100	Cyclonic Storm
11.05.22/1130	16.5/81.8	70-80 gusting to 90	Cyclonic Storm
11.05.22/1730	16.8/82.3	60-70 gusting to 80	Cyclonic Storm
11.05.22/2330	17.1/82.8	50-60 gusting to 70	Deep Depression
12.05.22/1130	17.5/83.6	40-50 gusting to 60	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 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 85-95 kmph gusting to 105 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 from 11th May morning and become 60-70 Kmph gusting to 80 Kmph by 11th May evening over the same region. Further, it would decrease to 40-50 Kmph gusting to 60 Kmph over Westcentral Bay of Bengal on 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 70-80 kmph gusting to 90 kmph during morning to noon of 11th May along & off Andhra Pradesh coast (Krishna, East & West Godavari, Yanam of Puducherry UT and Visakhapatnam districts).
- 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 on 11th May and very rough to rough over the same region on 12th May.

(iv) Storm Surge warning (Graphics enclosed)

Storm surge of height about 0.6 m above astronomical tide is likely to inundate low lying areas of Krishna, East & West Godavari, Yanam of Puducherry UT and Vishakhapatnam districts of Andhra Pradesh.

(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 0530 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

10-05-2022/(1930 to 1956) GMT

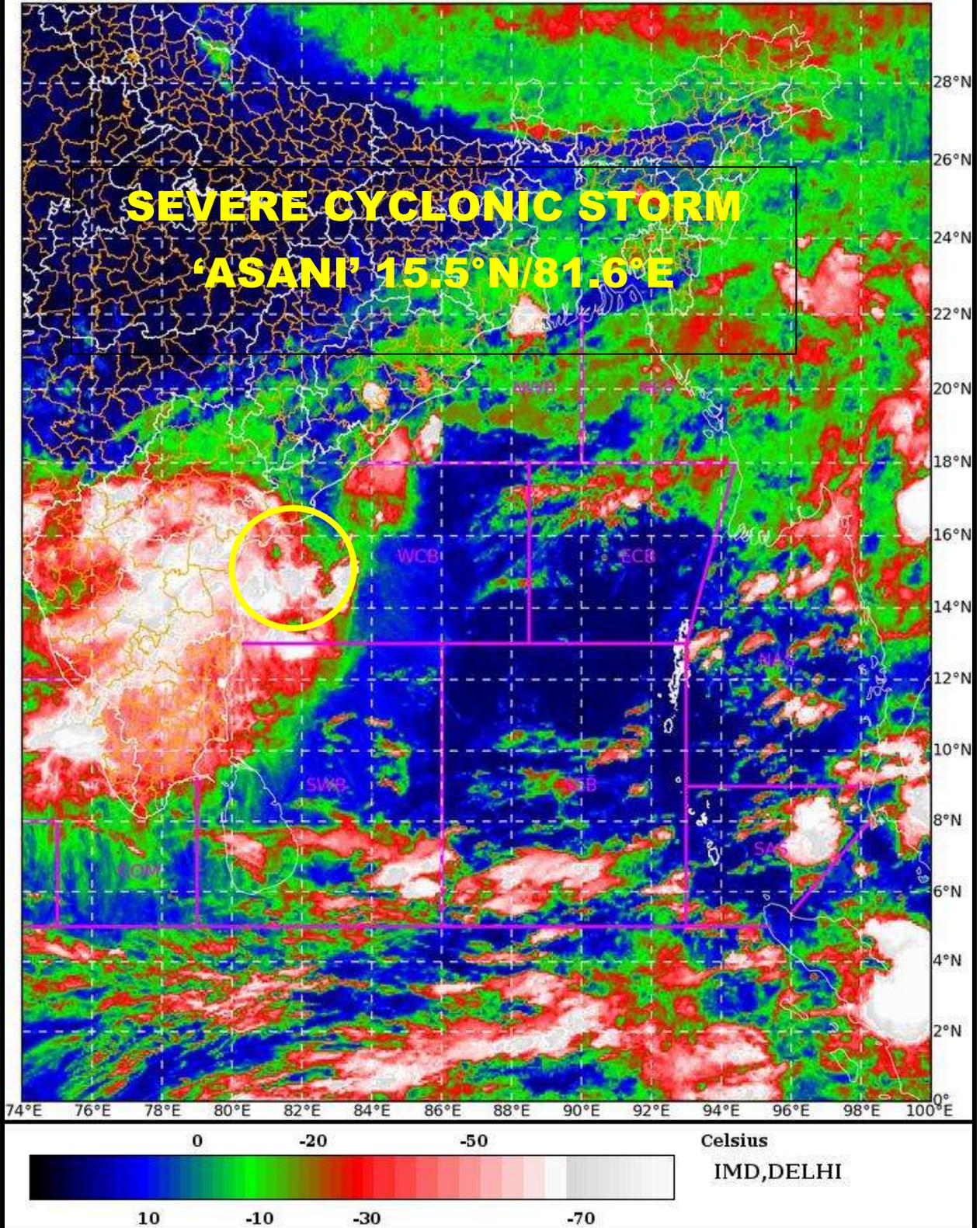
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11-05-2022/(0100 to 0126) IST

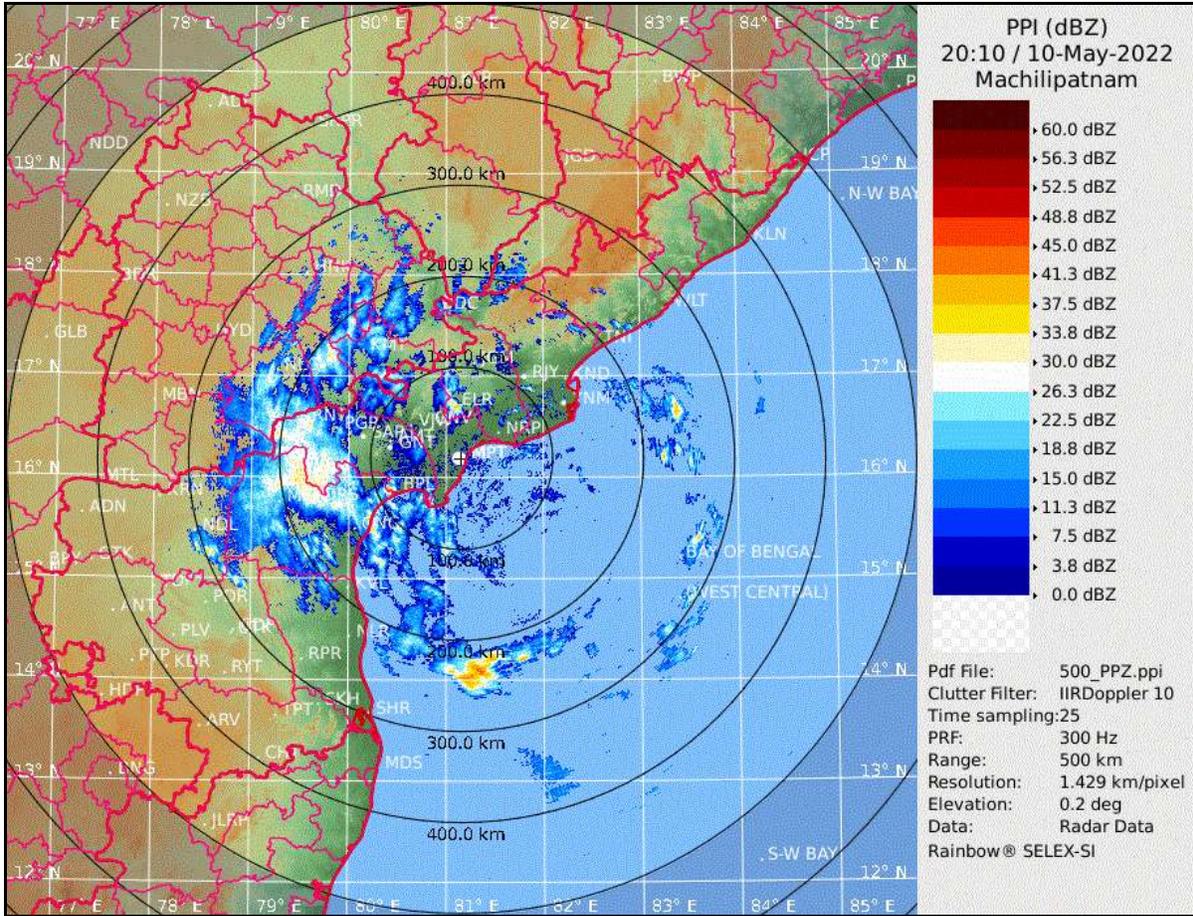
L1C Mercator



**SEVERE CYCLONIC STORM
'ASANI' 15.5°N/81.6°E**



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 1800 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 \geq 120 KT)

- LESS THAN 34 KT
- 34.47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS	
	11.05.22/1800	
KAKINADA	60,ENE	
GOPALPUR	330,SW	
VISHAKHAPATNAM	90,SW	
PURI	440,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
10.05.22/1800	0	15.5	81.6	MACHILIPATNAM/ FRANCHPET (92,SSE)	NARSAPUR (104,S)	BAPATLA (129,ESE)	VIJAYAWADA /GANNAVARAM (143,SE)	NIDADAVOLE (148,S)
11.05.22/0000	6	16.1	81.4	MACHILIPATNAM/ FRANCHPET (29,ESE)	NARSAPUR (49,SW)	VIJAYAWADA /GANNAVARAM (80,SE)	NIDADAVOLE (84,SSW)	VIJAYAWADA (96,ESE)
11.05.22/0600	12	16.5	81.8	NARSAPUR (13,NE)	NIDADAVOLE (44,SSE)	KAKINADA (68,SW)	MACHILIPATNAM/ FRANCHPET (77,ENE)	VIJAYAWADA /GANNAVARAM (107,E)
11.05.22/1200	18	16.8	82.3	KAKINADA (18,SSE)	TUNI (67,SSW)	NARSAPUR (76,ENE)	NIDADAVOLE (76,E)	MACHILIPATNAM/ FRANCHPET (140,ENE)
11.05.22/1800	24	17.1	82.8	TUNI (38,SE)	KAKINADA (63,ENE)	VISHAKHAPATNAM (87,SW)	NIDADAVOLE (133,ENE)	NARSAPUR (139,ENE)
12.05.22/0600	36	17.5	83.6	VISHAKHAPATNAM (40,SE)	KALINGAPATAM (109,SSW)	TUNI (113,E)	KAKINADA (158,ENE)	KORAPUT (174,SSE)

**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 1800 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 (≥ 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)

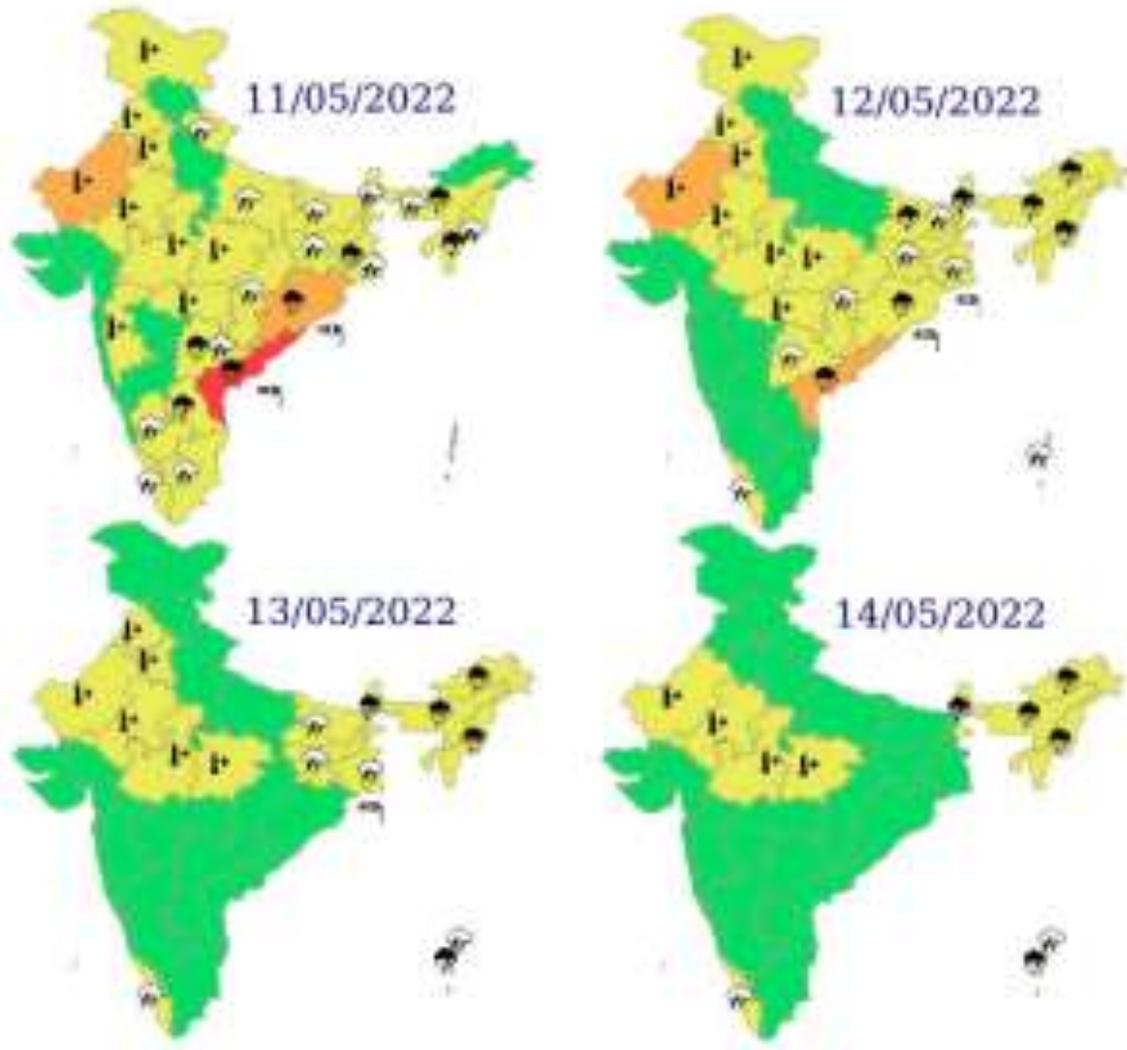
■ 50-63 KT (92-117 KMPH)

■ ≥ 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

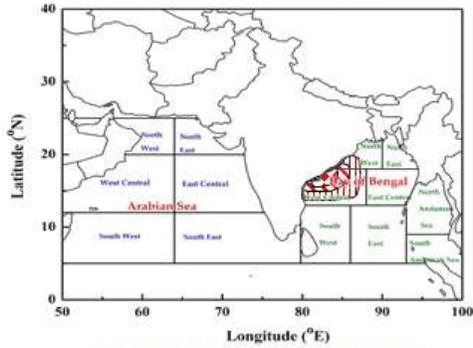
WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

-  Heavy Rain
-  Strong Winds

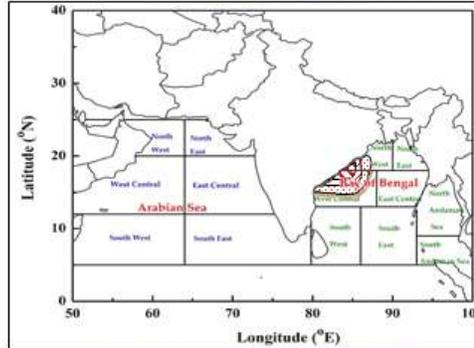
FISHERMAN WARNING GRAPHICS

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

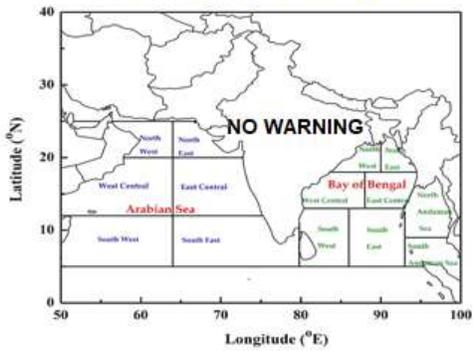
DAY-1: 10.05.2022/1800 UTC TO 11.05.2022/1800 UTC



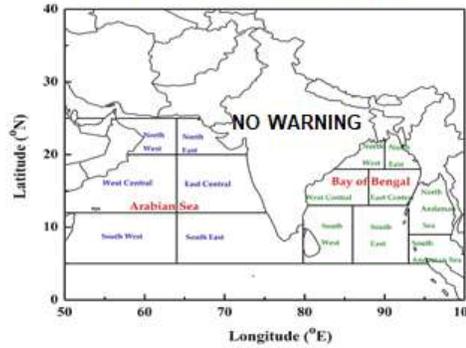
DAY-2: 11.05.2022/1800 UTC TO 12.05.2022/1800 UTC



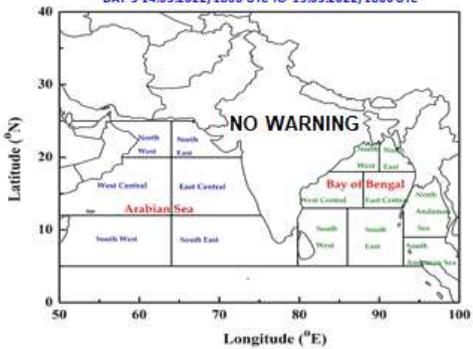
DAY-3: 12.05.2022/1800 UTC TO 13.05.2022/1800 UTC



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)
Yanam	Yanam	Puducherry	Yanam	0.3-0.6	Upto 0.16
Kakinada	East Godavari	Andhra Pradesh	Polekurru	0.3-0.6	Upto 0.11
Amalapuram	East Godavari	Andhra Pradesh	Nimmakayala Kothapalle	0.3-0.4	Upto 0.15
Pithapuram	East Godavari	Andhra Pradesh	Ponnada	0.3-0.4	Nil

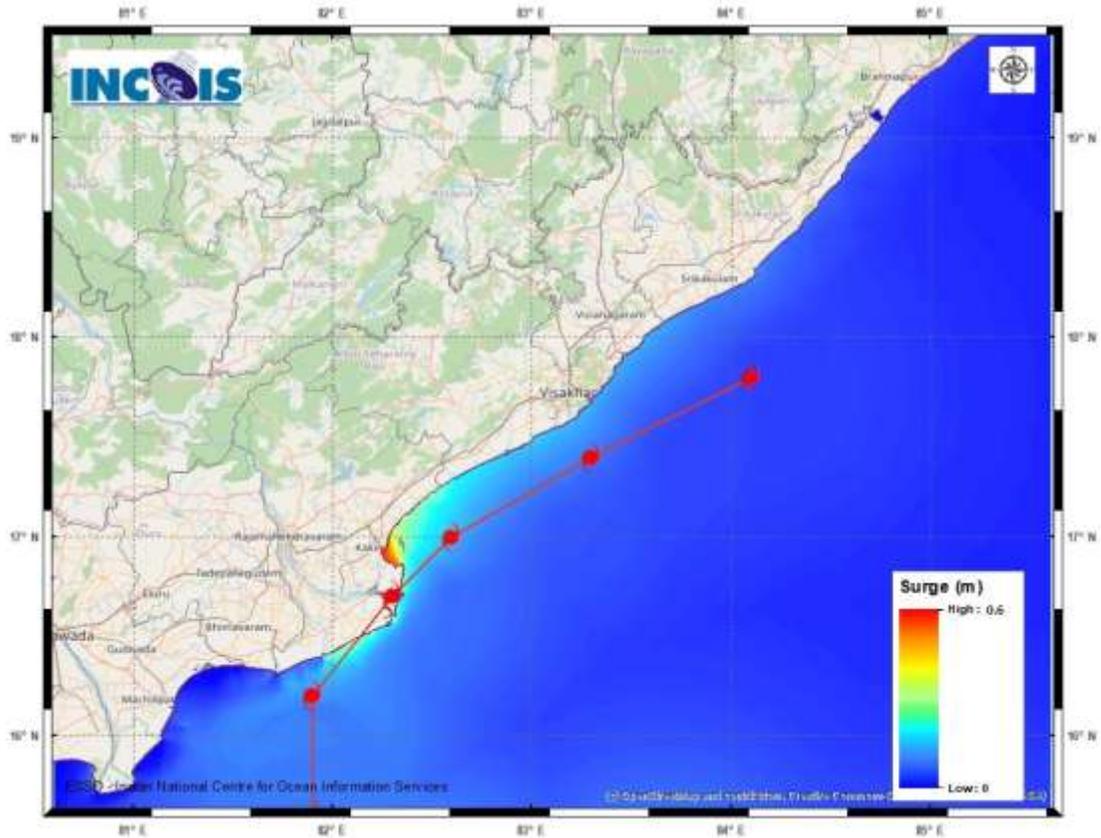


Figure: Storm Surge Map