



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

**BULLETIN NO. 20 (BOB/03/2022)**

**TIME OF ISSUE: 0900 HOURS IST**

**DATED: 10.05.2022**

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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 05 kmph during past 06 hours and lay centered at 0530 hours IST of today, the 10<sup>th</sup> May, over westcentral Bay of Bengal near latitude 14.8°N and longitude 84.0°E, 300 km southeast of Kakinada (Andhra Pradesh), 330 km south-southeast of Visakhapatnam (Andhra Pradesh), 510 km south-southwest of Gopalpur (Odisha) and 590 km south-southwest of Puri (Odisha).

It is very likely to move nearly northwestwards till 10<sup>th</sup> 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.

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
10.05.22/0530	14.8/84.0	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)**

**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 north 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 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 10<sup>th</sup> May and become 65-75 Kmph gusting to 85 Kmph from evening 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 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 11<sup>th</sup> 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 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 northwest & adjoining westcentral 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) 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 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.

**The system is under continuous surveillance and the next bulletin will be issued at 1130 hours IST of today, the 10<sup>th</sup> May, 2022.**

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

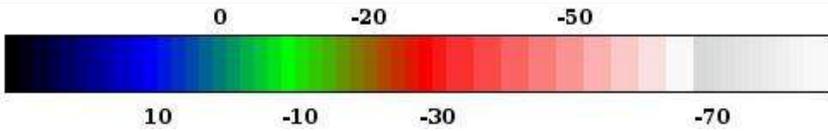
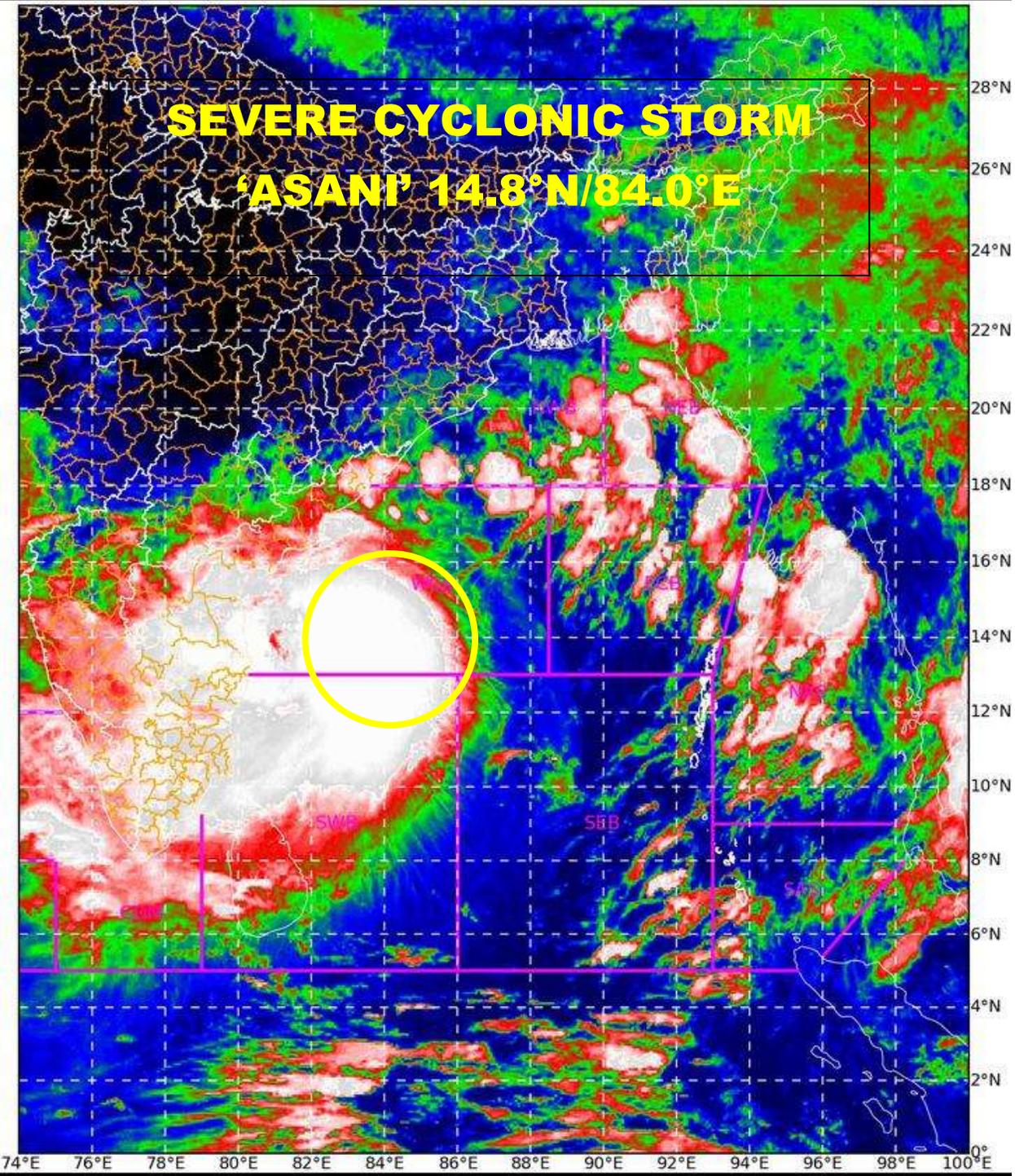
*Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswarr/CWC Vishakhapatnam/MO Port Blair*

**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/(0200 to 0226) GMT

IMG\_TIR1\_TEMP 10.8 um 10-05-2022/(0730 to 0756) IST

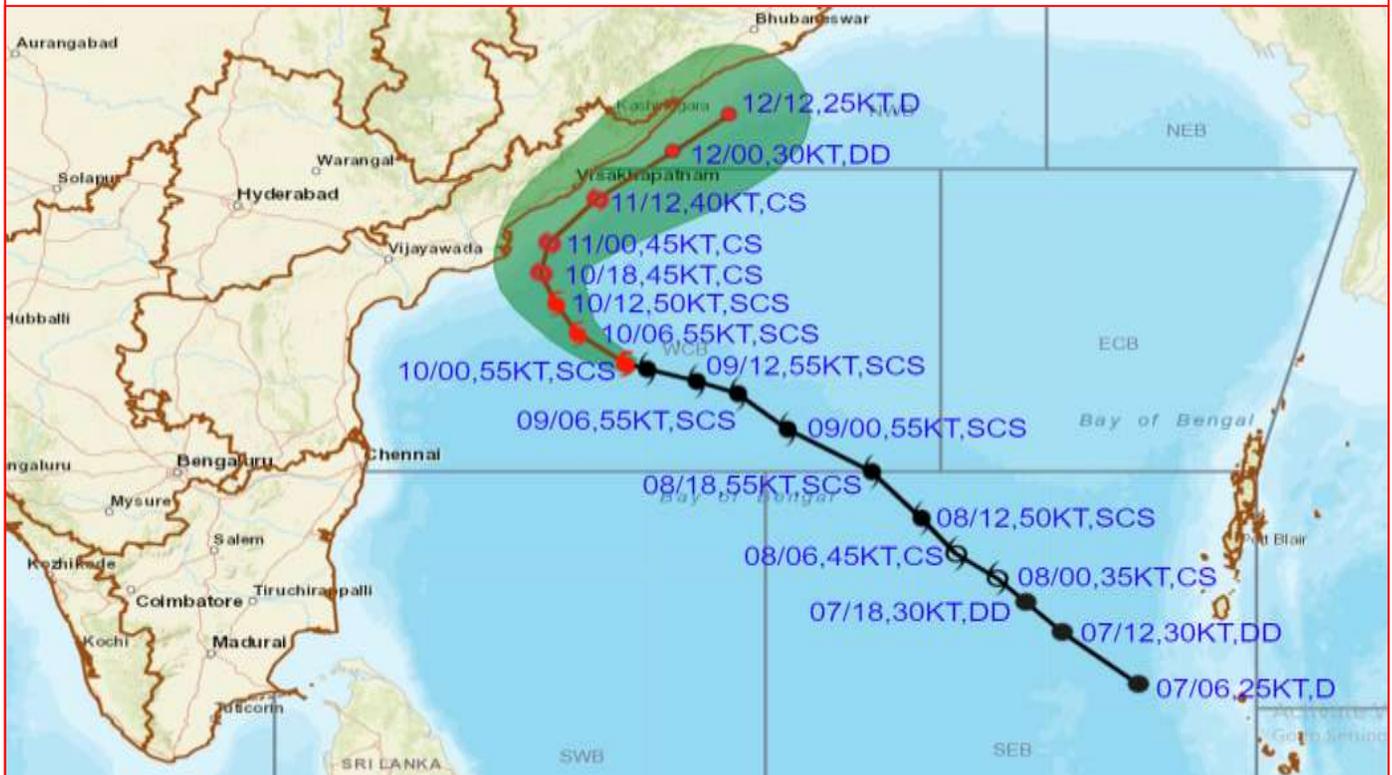
L1C Mercator



Celsius  
IMD, DELHI



**FORECAST TRACK AND INTENSITY OF SEVERE CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0000 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 ( $\geq 20$  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		
	10.05.22/0000	11.05.22/0000	12.05.22/0000
VISHAKHAPATNAM	330,SSE	120,SSW	160,ENE
PURI	580,SSW	450,SW	200,SW

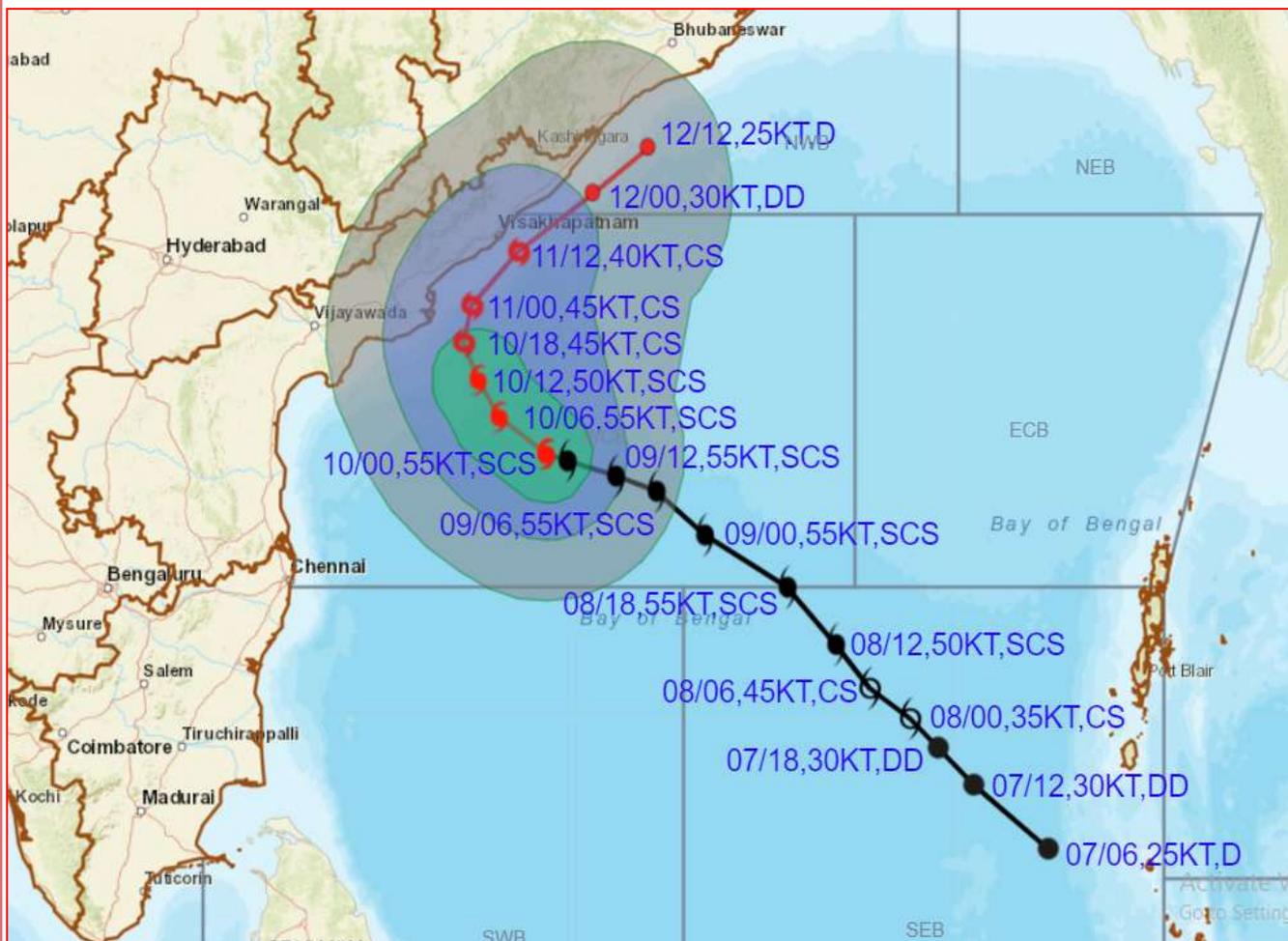
Forecast distance (km) and direction of the centre from nearest 5 coastal stations

Forecast Date and Time	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
10.05.22/0000	0	14.8	84.0	KAKINADA (305,SE)	NARSAPUR (306,SE)	TUNI (323,SSE)	VISHAKHAPATNAM (333,SSE)	MACHILIPATNAM/FRANCHPET (343,ESE)
10.05.22/0600	6	15.3	83.3	NARSAPUR (213,SE)	KAKINADA (216,SSE)	TUNI (242,SSE)	NIDADAVOLE (251,SE)	MACHILIPATNAM/FRANCHPET (251,ESE)
10.05.22/1200	12	15.8	83.0	KAKINADA (152,SSE)	NARSAPUR (156,ESE)	TUNI (179,SSE)	NIDADAVOLE (190,SE)	MACHILIPATNAM/FRANCHPET (203,ESE)
10.05.22/1800	18	16.3	82.8	KAKINADA (94,SE)	NARSAPUR (118,E)	TUNI (120,SSE)	NIDADAVOLE (143,ESE)	VISHAKHAPATNAM (166,SSW)
11.05.22/0000	24	16.8	82.9	TUNI (72,SSE)	KAKINADA (73,ESE)	VISHAKHAPATNAM (111,SSW)	NARSAPUR (134,ENE)	NIDADAVOLE (140,E)
11.05.22/1200	36	17.5	83.6	VISHAKHAPATNAM (40,SE)	KALINGAPATAM (109,SSW)	TUNI (113,E)	KAKINADA (158,ENE)	KORAPUT (174,SSE)
12.05.22/0000	48	18.3	84.7	KALINGAPATAM (60,E)	GOPALPUR (109,S)	VISHAKHAPATNAM (162,ENE)	PURI (204,SW)	KORAPUT (217,ESE)
12.05.22/1200	60	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 0000 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)

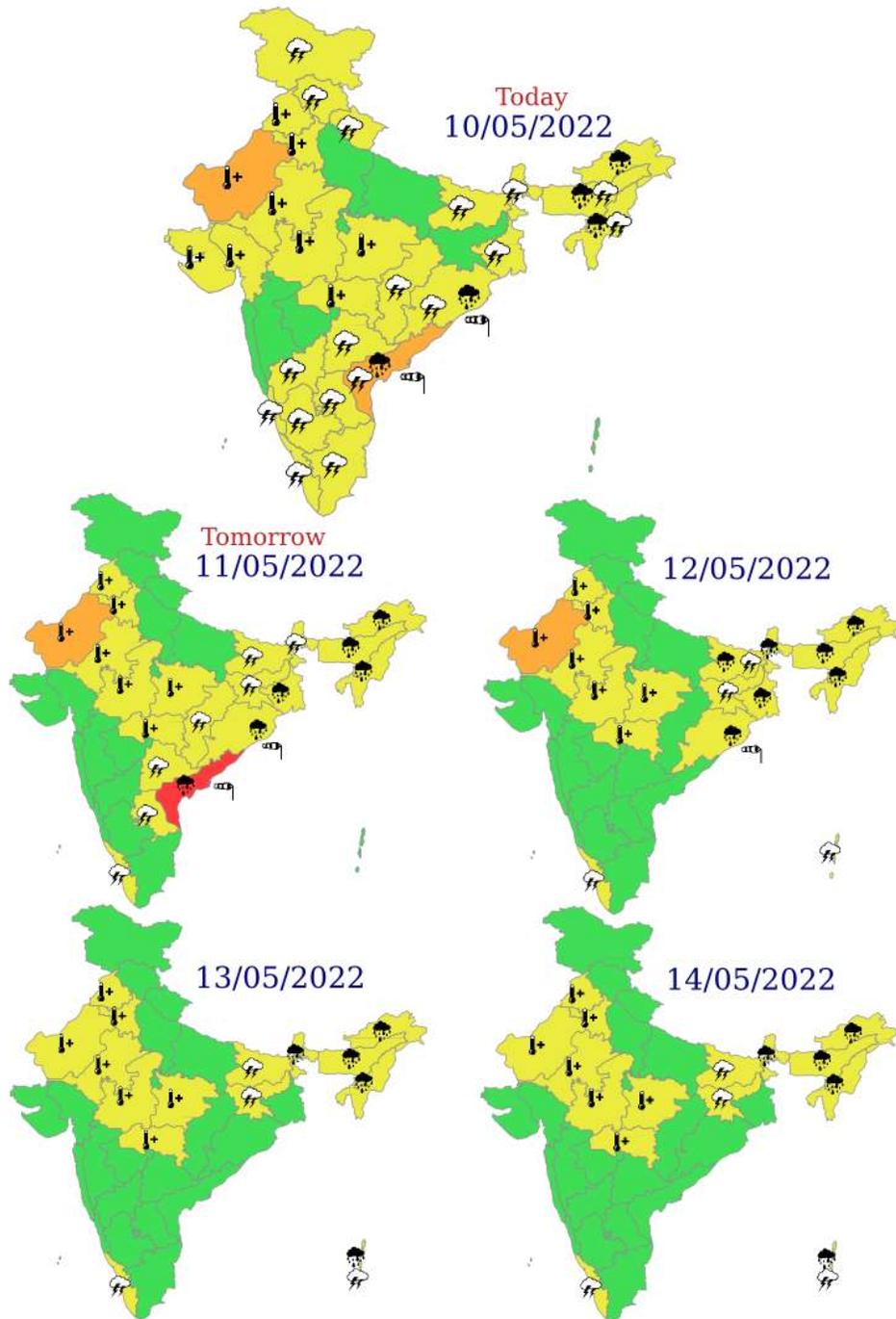
■ 50-63 KT (92-117 KMPH)

■ ≥ 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

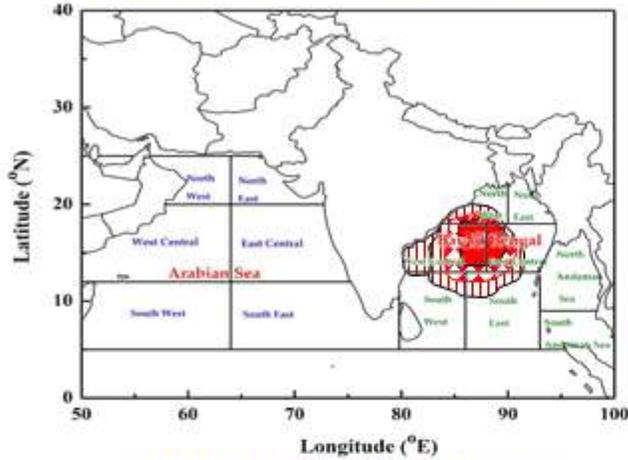
WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

-  Heavy Rain
-  Strong Winds

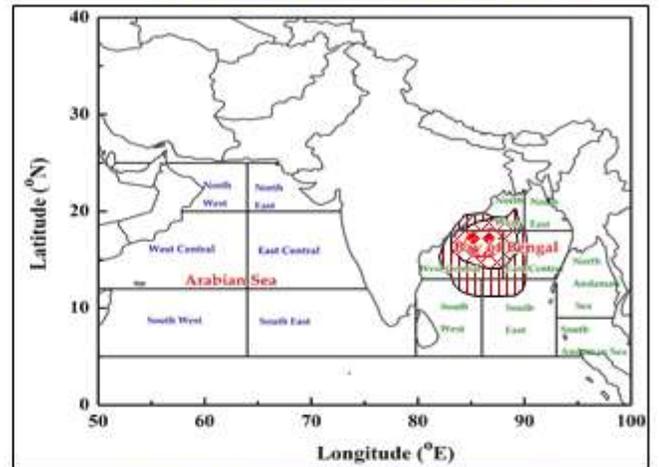
# FISHERMAN WARNING GRAPHICS

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

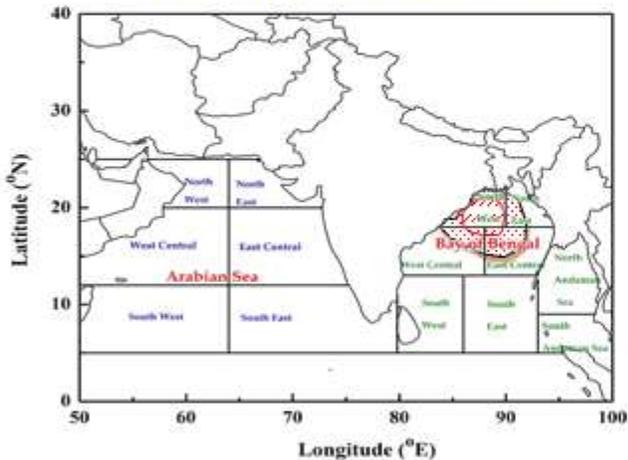
DAY-1: 10.05.2022/0000 UTC TO 11.05.2022/0000 UTC



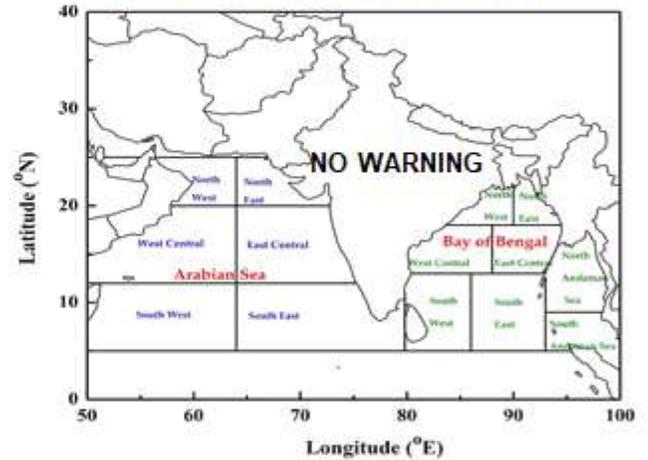
DAY-2: 11.05.2022/0000 UTC TO 12.05.2022/0000 UTC



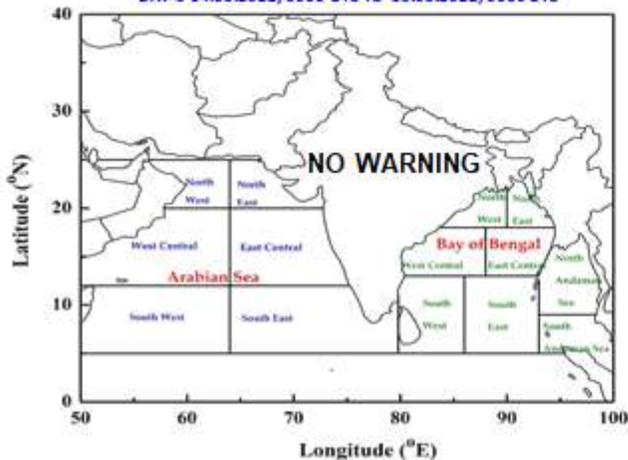
DAY-3: 12.05.2022/0000 UTC TO 13.05.2022/0000 UTC



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