



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

BULLETIN NO. 31 (BOB/03/2022)

TIME OF ISSUE: 1630 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 4 kmph during past 06 hours, and lay centered at 1430 hours IST of 11th May, over same region near latitude 16.1°N and longitude 81.4°E, about 30 km east-southeast of Machilipatnam (Andhra Pradesh), 50 km southwest of Narsapur, 120 km southwest of Kakinada (Andhra Pradesh), 270 km southwest of Visakhapatnam (Andhra Pradesh), 500 km southwest of Gopalpur (Odisha) and 620 km southwest of Puri (Odisha).

It is very likely to move north-northeastwards along Narsapur, Yanam, Kakinada, Tuni and Visakhapatnam coasts till evening of today and emerge into westcentral Bay of Bengal off North Andhra Pradesh coasts by 12th morning. It is likely to weaken into a deep depression by tonight and further 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
11.05.22/1430	16.1/81.4	70-80 gusting to 90	Cyclonic Storm
11.05.22/1730	16.3/81.5	65-75 gusting to 85	Cyclonic Storm
11.05.22/2330	16.5/82.7	55-65 gusting to 75	Deep Depression
12.05.22/0530	16.6/82.0	45-55 gusting to 65	Depression
12.05.22/1130	16.6/82.5	35-45 gusting to 55	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 over coastal Andhra Pradesh. Light to moderate rainfall likely at many places over coastal areas of Odisha and at isolated places over Gangetic West Bengal.

(ii) Wind warning (Warning Graphics enclosed)

- Gale wind speed reaching 70-80 kmph gusting to 90 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 evening 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 40-50 kmph gusting to 60 kmph is likely to prevail over Northwest Bay of Bengal on 11th to 12th May.
- 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 till night of today. It would then decrease gradually to 45-55 Kmph gusting to 65 Kmph over the same region by 12th May morning.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to continue off Odisha and West Bengal coasts on 11th to 12th May.

(iii) Sea condition

Sea condition is likely to continue 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) 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 2030 hours IST of today, the 11th May, 2022.

(MONICA SHARMA)
Scientist-D, 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

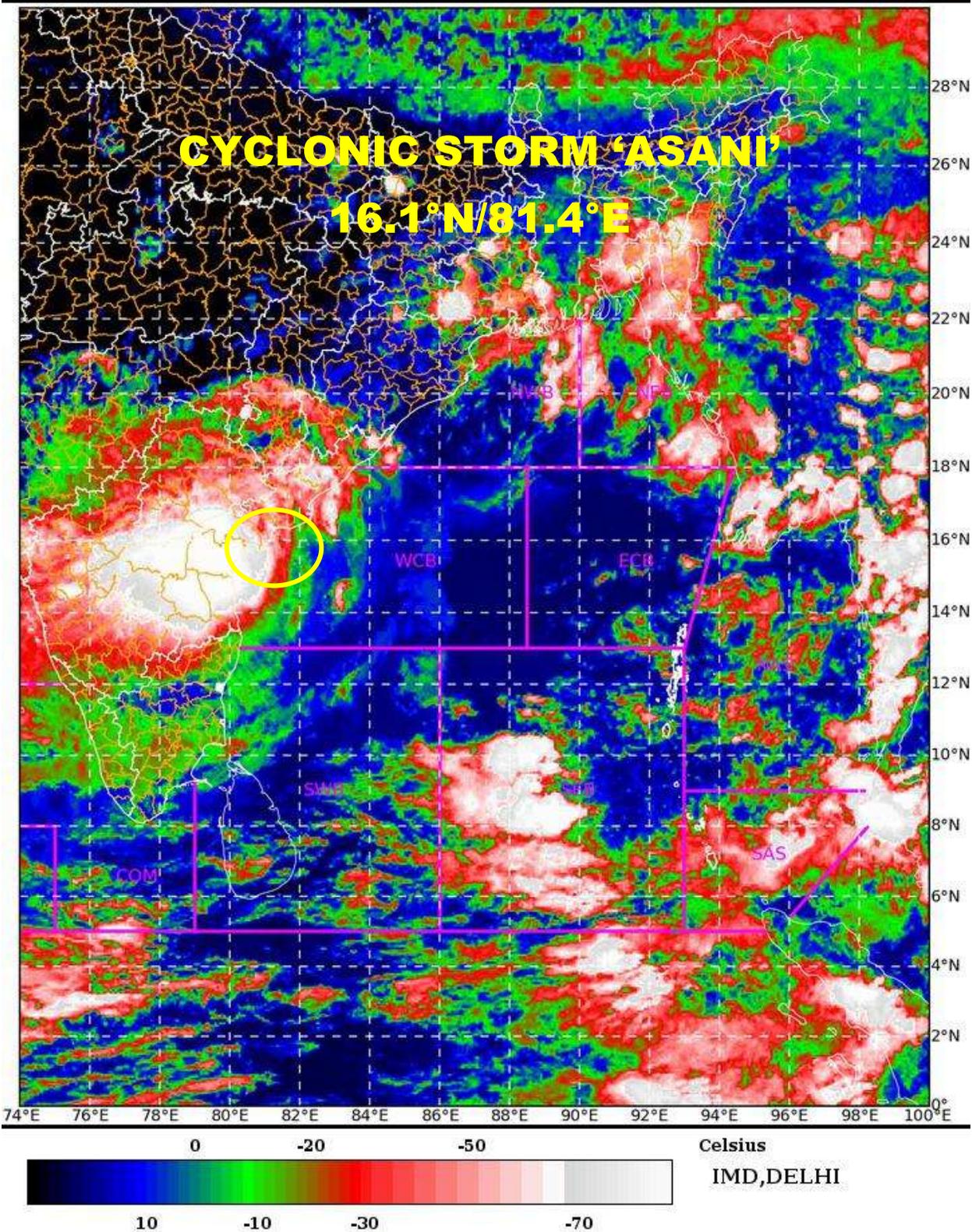
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11-05-2022/(1000 to 1026) GMT

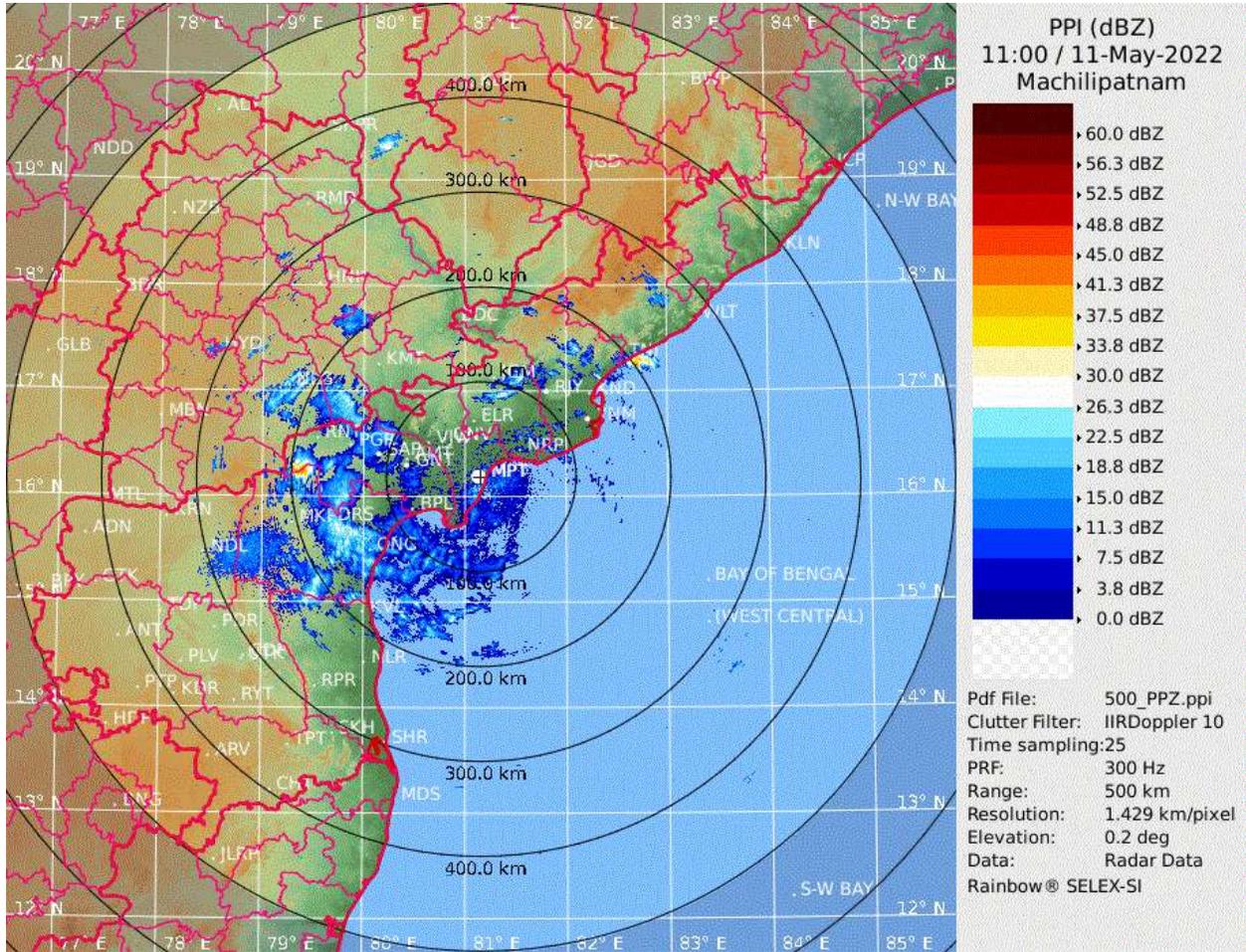
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11-05-2022/(1530 to 1556) IST

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 0900 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

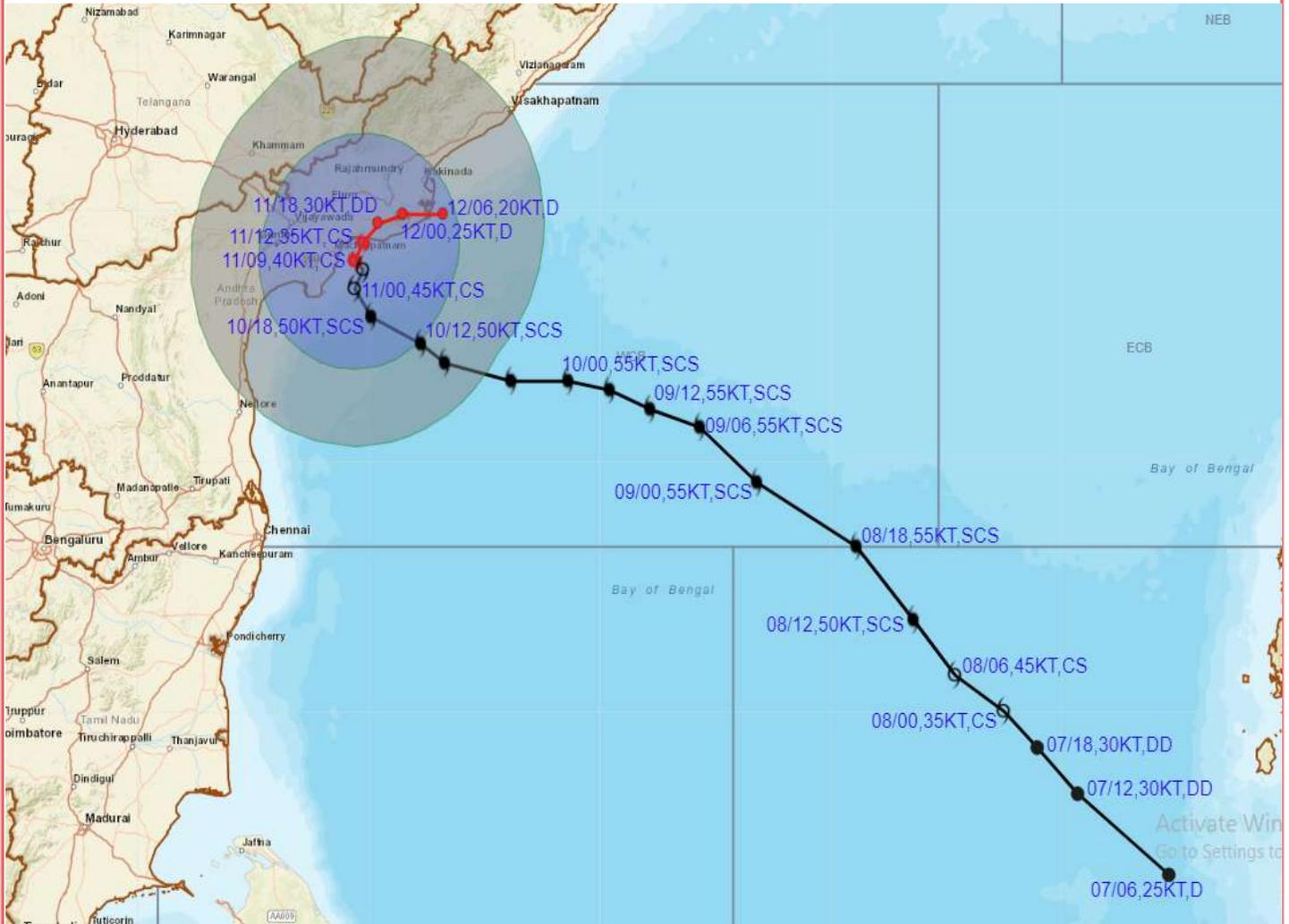
STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS	
	12.05.22/0600	
MACHILIPATNAM	150,	ENE
KAKINADA	50,	SE
VISHAKHAPATNAM	150,	SW
GOPALPUR	390,	SW

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
11.05.22/0900	0	16.1	81.4	MACHILIPATNAM/ FRANCHPET (29,ESE)	NARSAPUR (49,SW)	VIJAYAWADA /GANNAVARAM (80,SE)	NIDADAVOLE (84,SSW)	VIJAYAWADA (96,ESE)
11.05.22/1200	3	16.3	81.5	NARSAPUR (26,SW)	MACHILIPATNAM/ FRANCHPET (39,ENE)	NIDADAVOLE (60,S)	VIJAYAWADA /GANNAVARAM (79,ESE)	VIJAYAWADA (97,ESE)
11.05.22/1800	9	16.5	81.7	NARSAPUR (7,N)	NIDADAVOLE (39,SSE)	MACHILIPATNAM/ FRANCHPET (68,ENE)	KAKINADA (76,SW)	VIJAYAWADA /GANNAVARAM (96,E)
12.05.22/0000	15	16.6	82.0	NARSAPUR (37,ENE)	KAKINADA (46,SSW)	NIDADAVOLE (51,ESE)	MACHILIPATNAM/ FRANCHPET (101,ENE)	TUNI (102,SW)
12.05.22/0600	21	16.6	82.5	KAKINADA (48,SE)	TUNI (84,S)	NARSAPUR (87,ENE)	NIDADAVOLE (101,ESE)	VISHAKHAPATNAM (151,SW)

**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 0900 UTC OF 11TH MAY 2022



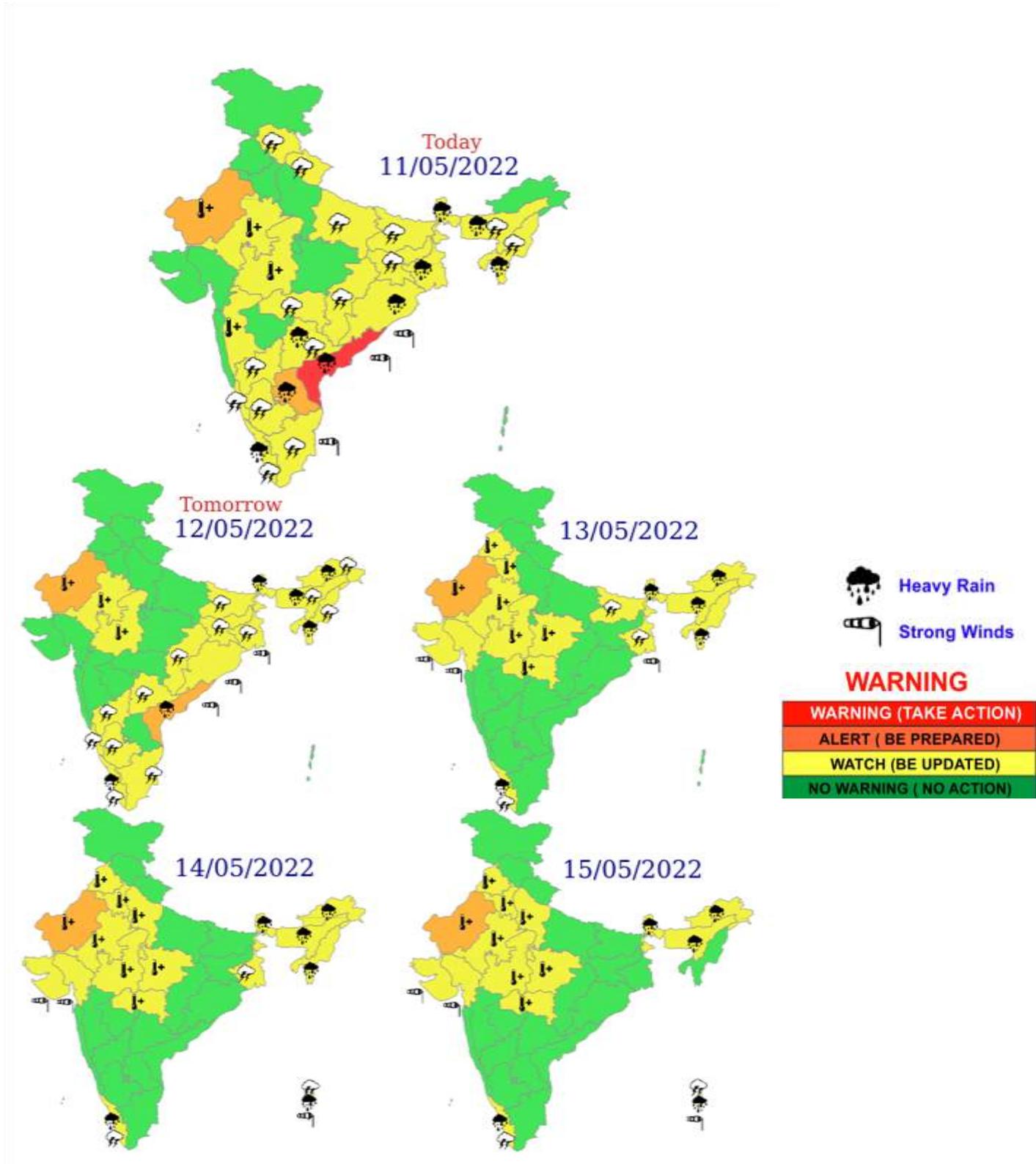
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

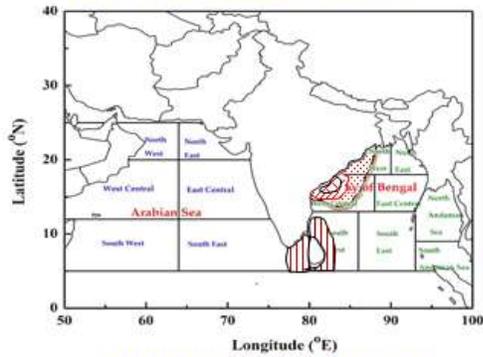
Heavy rainfall warning Graphics



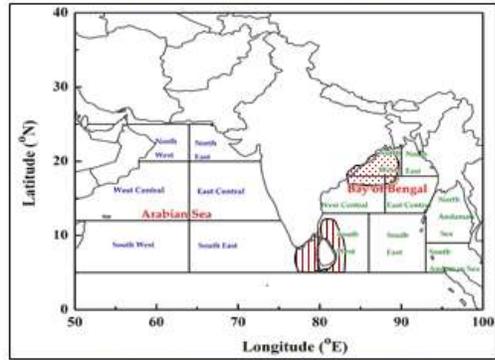
FISHERMEN WARNING GRAPHICS

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

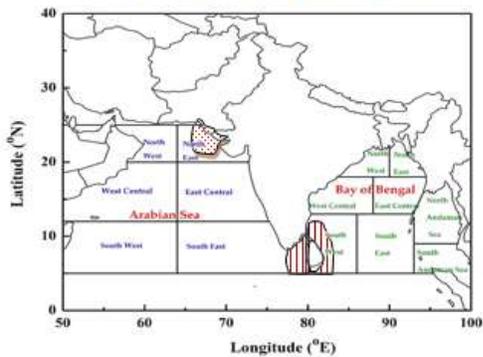
DAY-1: 11.05.2022/0600 UTC TO 12.05.2022/0600 UTC



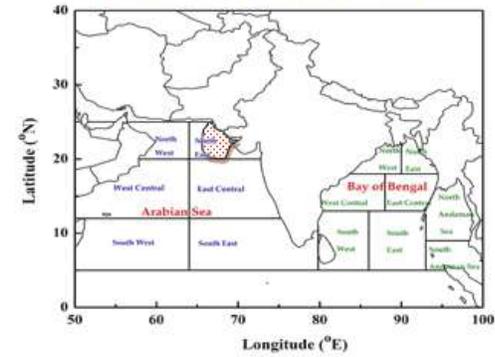
DAY-2: 12.05.2022/0600 UTC TO 13.05.2022/0600 UTC



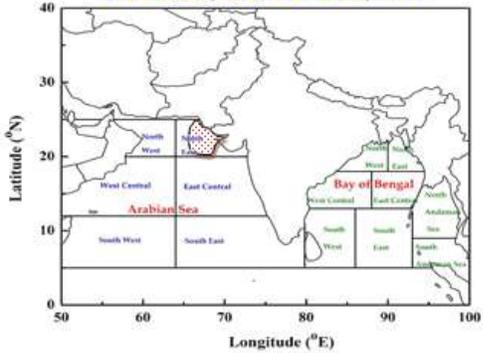
DAY-3: 13.05.2022/0600 UTC TO 14.05.2022/0600 UTC



DAY-4: 14.05.2022/0600 UTC TO 15.05.2022/0600 UTC



DAY-5: 15.05.2022/0600 UTC TO 16.05.2022/0600 UTC



AREA UNDER FISHERMEN WARNING

-  40-50 KMPH GUSTING TO 60 KMPH (SQUALLY WEATHER)
-  45-55 KMPH GUSTING TO 65 KMPH
-  55-65 KMPH GUSTING TO 75 KMPH
-  65-75 KMPH GUSTING TO 85 KMPH
-  70-80 KMPH GUSTING TO 90 KMPH
-  75-85 KMPH GUSTING TO 95 KMPH
-  90-100 KMPH GUSTING TO 110 KMPH

Storm Surge Guidance

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	0.2-0.3	Upto 0.11

