



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

HOURLY UPDATE ON CYCLONIC STORM 'ASANI'

**BULLETIN NO. 04**

DATE: 11-05-2022

TIME OF ISSUE: 1430 HRS IST

<b>DATE/TIME (IST) OF OBSERVATION</b>	<b>BASED ON 11-05-2022 (1330 HRS IST)</b>
LOCATION LATITUDE/LONGITUDE	THE <b>CYCLONIC STORM 'ASANI' (PRONOUNCED AS 'Asani')</b> LAY CENTRED AT <b>1330 HRS IST</b> OF THE 11 <sup>th</sup> MAY, 2022 OVER WESTCENTRAL BAY OF BENGAL NEAR LATITUDE 16.15°N AND LONGITUDE 81.6°E, ABOUT 50 KM EAST OF MACHILIPATNAM, 30 KM SOUTH-SOUTHWEST OF NARSAPUR.
CURRENT INTENSITY NEAR CENTRE	70-80 KMPH GUSTING TO 90 KMPH
PAST MOVEMENT	MOVED NORTHEASTWARDS WITH A SPEED OF ABOUT 10 KMPH DURING PAST 03 HOURS.
FORECAST MOVEMENT	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 COAST BY TODAY NIGHT.
FORECAST INTENSITY	<ul style="list-style-type: none"><li>• CYCLONIC STORM ASANI LIKELY TO WEAKEN INTO A DEEP DEPRESSION BY NIGHT AND INTO A DEPRESSION BY 12<sup>TH</sup> MAY MORNING.</li><li>• 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 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.</li></ul>
FORECAST WIND ALONG THE COAST	<ul style="list-style-type: none"><li>• GALE WIND SPEED REACHING 70-80 KMPH GUSTING TO 90 KMPH LIKELY TO PREVAIL ALONG &amp; OFF KRISHNA, EAST &amp; WEST GODAVARI, YANAM OF PUDUCHERRY UT AND VISAKHAPATNAM DISTRICTS AND 50-60 KMPH GUSTING TO 70 KMPH ALONG &amp; 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.</li><li>• SQUALLY WIND SPEED REACHING 40-50 KMPH GUSTING TO 60 KMPH IS LIKELY TO CONTINUE ALONG &amp; OFF ODISHA AND WEST BENGAL COASTS ON 11<sup>TH</sup> TO 12<sup>TH</sup> MAY</li></ul>

FORECAST RAINFALL	<ul style="list-style-type: none"> <li>• <b>11<sup>th</sup> MAY:</b> LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH <b>HEAVY TO VERY HEAVY RAINFALL</b> AT A FEW PLACES WITH <b>ISOLATED EXTREMELY HEAVY FALLS</b> IS LIKELY OVER COASTAL ANDHRA PRADESH AND <b>HEAVY RAINFALL</b> AT ISOLATED PLACES IS LIKELY OVER SOUTH COASTAL ODISHA.</li> <li>• <b>12<sup>th</sup> MAY:</b> LIGHT TO MODERATE RAINFALL LIKELY AT MANY PLACES OVER COASTAL ANDHRA PRADESH, COASTAL AREAS OF ODISHA AND WEST BENGAL AND <b>HEAVY RAINFALL</b> AT ISOLATED PLACES OVER COASTAL ANDHRA PRADESH.</li> </ul>
FORECAST STORM SURGE	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

SAT : INSAT-3D IMG

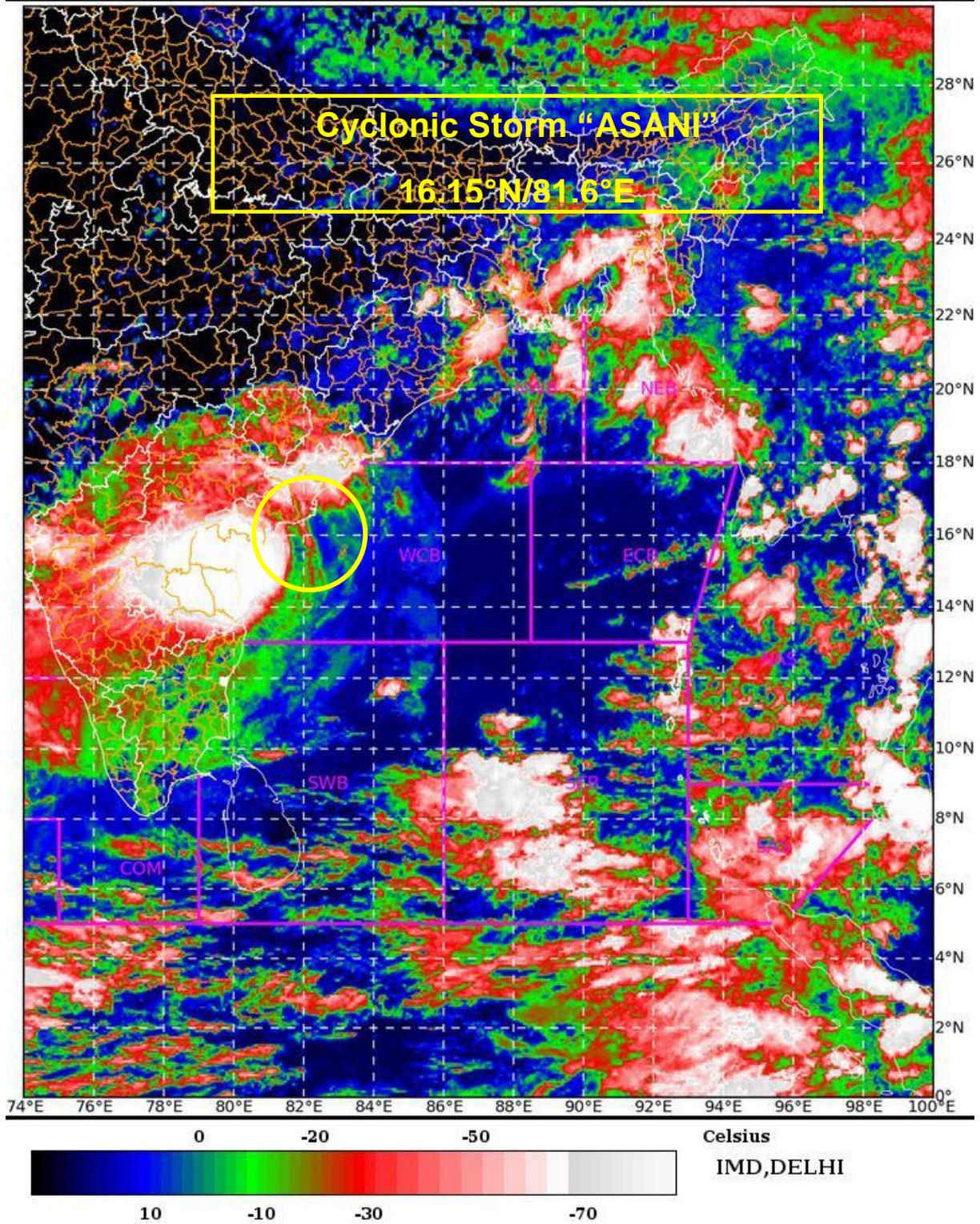
11-05-2022/(0800 to 0826) GMT

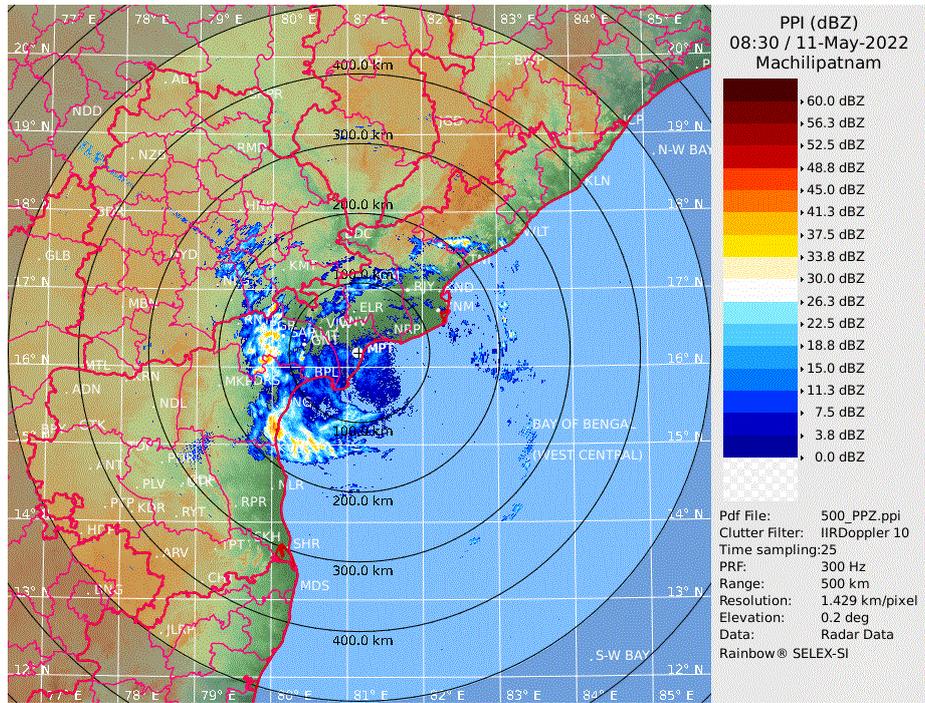
IMG\_TIR1\_TEMP 10.8 um

11-05-2022/(1330 to 1356) IST



L1C Mercator

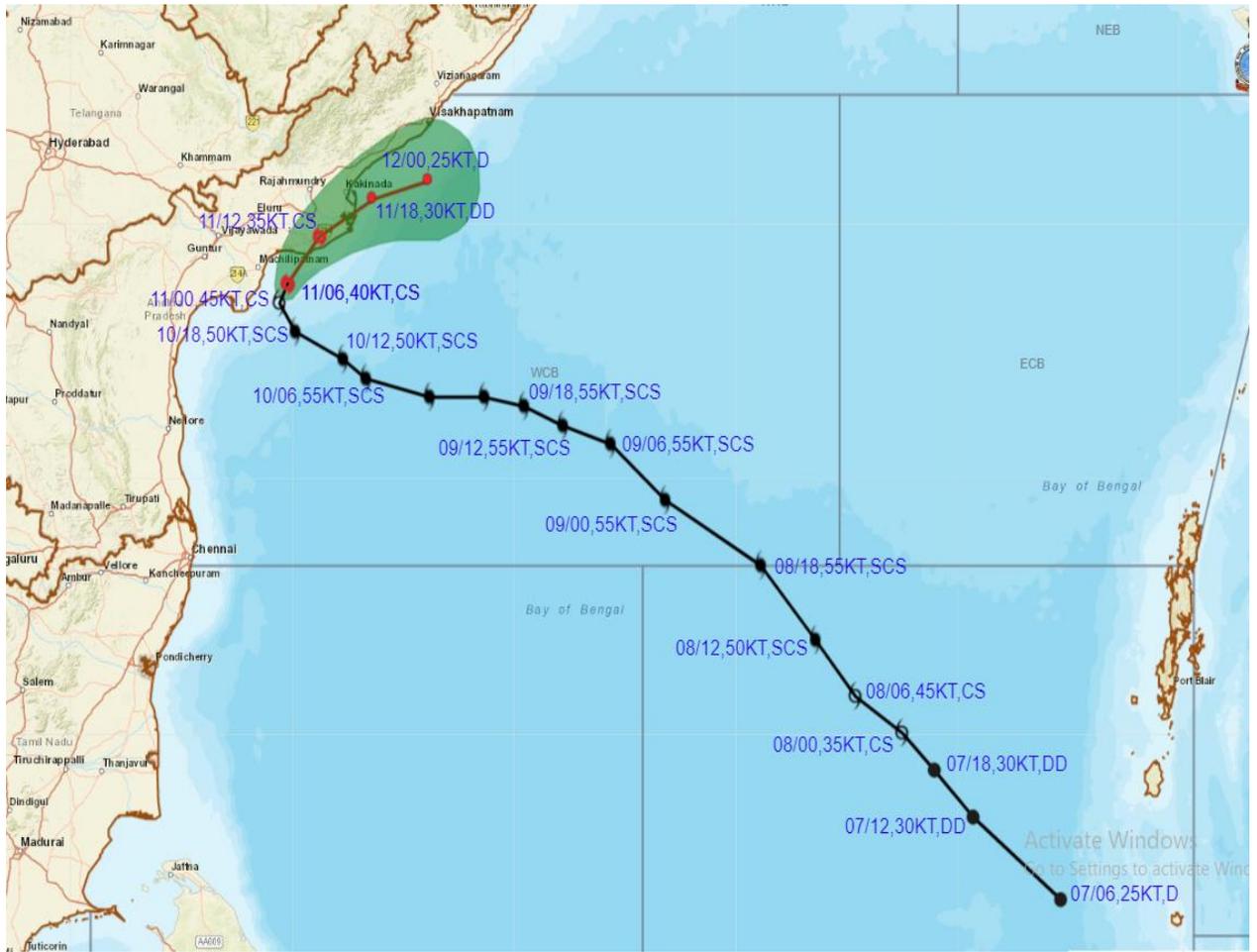




Reflectivity imagery from Doppler weather RADAR Vishakhapatnam based on 1300 hrs IST of 11<sup>th</sup> May 2022.



**FORECAST TRACK AND INTENSITY OF CYCLONIC STORM 'ASANI' ALONGWITH CONE OF UNCERTAINTY OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 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

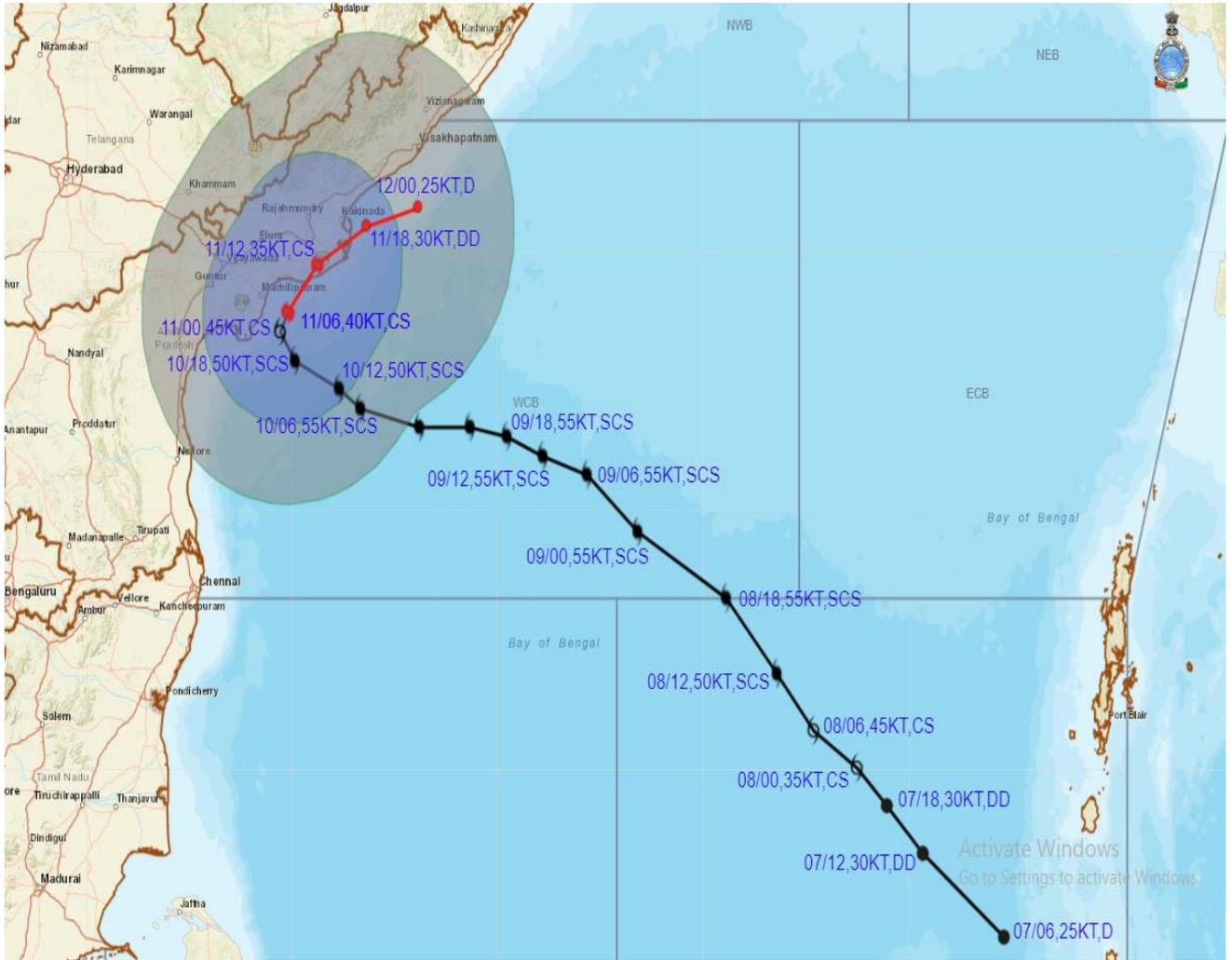
**Forecast distance (km) and direction of the centre from nearest 5 coastal stations**

Forecast Date and Time	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
11.05.22/0600	0	16.0	81.5	MACHILIPATNAM/ FRANCHPET (44,ESE)	NARSAPUR (53,SSW)	NIDADAVOLE (93,S)	VIJAYAWADA /GANNAVARAM (96,SE)	VIJAYAWADA (111,ESE)
11.05.22/1200	6	16.5	81.9	NARSAPUR (23,ENE)	NIDADAVOLE (50,SE)	KAKINADA (61,SW)	MACHILIPATNAM/ FRANCHPET (87,ENE)	TUNI (117,SW)
11.05.22/1800	12	16.9	82.6	KAKINADA (39,E)	TUNI (50,S)	NIDADAVOLE (109,E)	NARSAPUR (109,ENE)	VISHAKHAPATNAM (117,SW)
12.05.22/0000	18	17.1	83.3	VISHAKHAPATNAM (69,S)	TUNI (84,ESE)	KAKINADA (115,E)	KALINGPATAM (163,SSW)	NIDADAVOLE (185,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 0600 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)

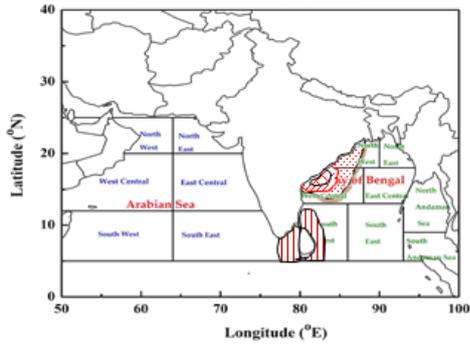
### IMPACT OVER THE SEA

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

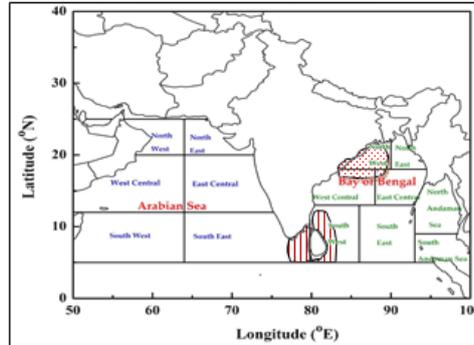
# FISHERMEN WARNING GRAPHICS

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

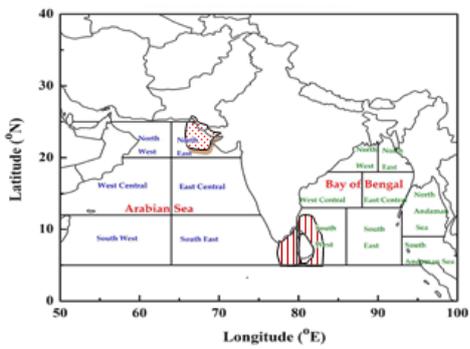
DAY-1: 11.05.2022/0600 UTC TO 12.05.2022/0600 UTC



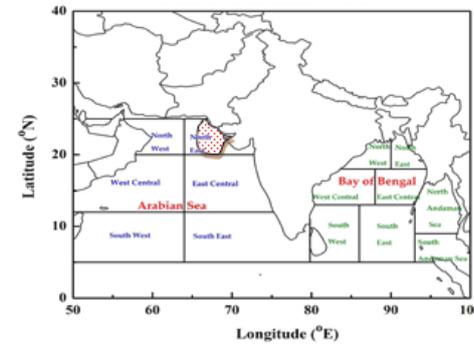
DAY-2: 12.05.2022/0600 UTC TO 13.05.2022/0600 UTC



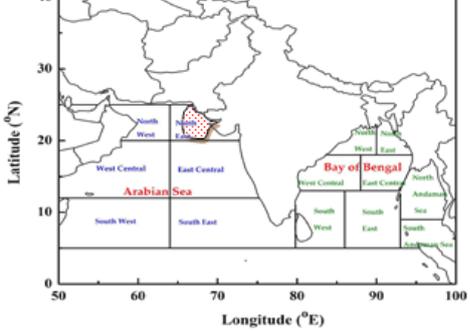
DAY-3: 13.05.2022/0600 UTC TO 14.05.2022/0600 UTC



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



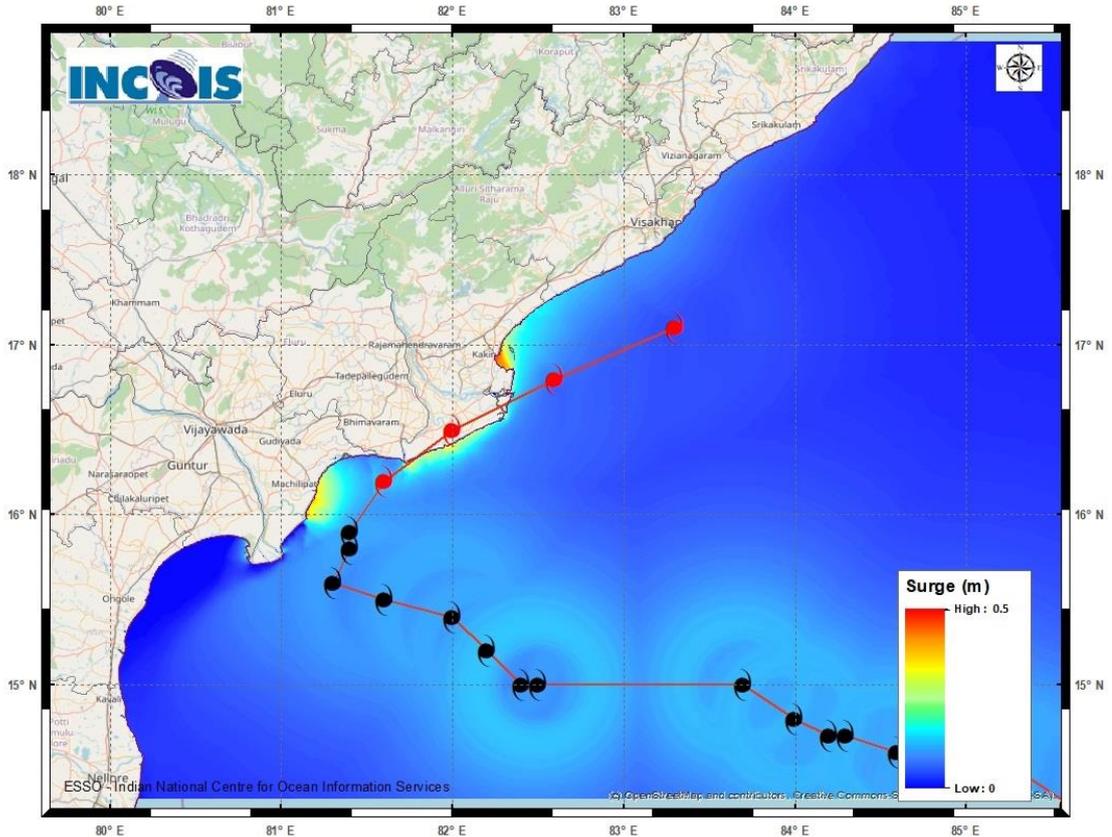
### AREA UNDER FISHERMEN WARNING

-  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 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



Storm surge graphics from INCOIS for the current system (03B/222)

Expected Maximum Storm Surge *	0.5 m near Kakinada, East Godavari, Andhra Pradesh and 0.5 m near Machilipatnam, Krishna District, Andhra Pradesh.
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