



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

HOURLY UPDATE ON CYCLONIC STORM 'ASANI'

BULLETIN NO. 05

DATE: 11-05-2022

TIME OF ISSUE: 1600 HRS IST

DATE/TIME (IST) OF OBSERVATION	BASED ON 11-05-2022 (1430 HRS IST)
LOCATION LATITUDE/LONGITUDE	THE CYCLONIC STORM 'ASANI' (PRONOUNCED AS 'ASANI') LAY CENTRED AT 1430 HRS IST OF THE 11 th MAY, 2022 OVER WESTCENTRAL BAY OF BENGAL NEAR LATITUDE 16.1°N AND LONGITUDE 81.4°E, ABOUT 30 KM EAST-SOUTHEAST OF MACHILIPATNAM, 50 KM SOUTHWEST OF NARSAPUR.
CURRENT INTENSITY NEAR CENTRE	70-80 KMPH GUSTING TO 90 KMPH
PAST MOVEMENT	MOVED NORTHWESTWARDS WITH A SPEED OF ABOUT 7KMPH 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">• CYCLONIC STORM ASANI LIKELY TO WEAKEN INTO A DEEP DEPRESSION BY NIGHT AND INTO A DEPRESSION BY 12TH MAY MORNING.• 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.
FORECAST WIND ALONG THE COAST	<ul style="list-style-type: none">• 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 TODAY NIGHT. 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 ALONG & OFF ODISHA AND WEST BENGAL COASTS ON 11TH TO 12TH MAY

FORECAST RAINFALL	<ul style="list-style-type: none"> • 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 OVER COASTAL ANDHRA PRADESH, COASTAL AREAS OF ODISHA AND WEST BENGAL AND HEAVY RAINFALL AT ISOLATED PLACES OVER COASTAL ANDHRA PRADESH.
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

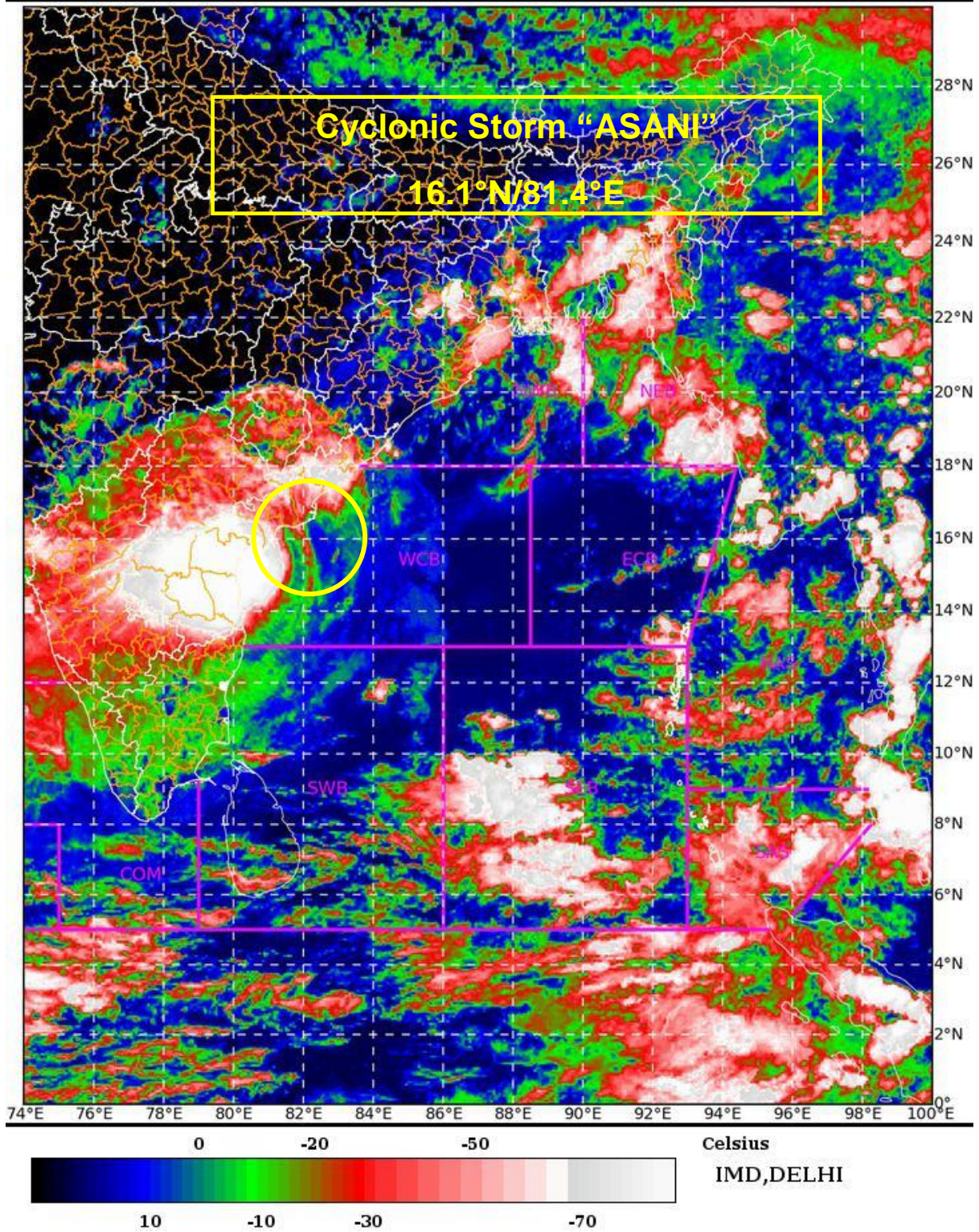
11-05-2022/(0830 to 0856) GMT

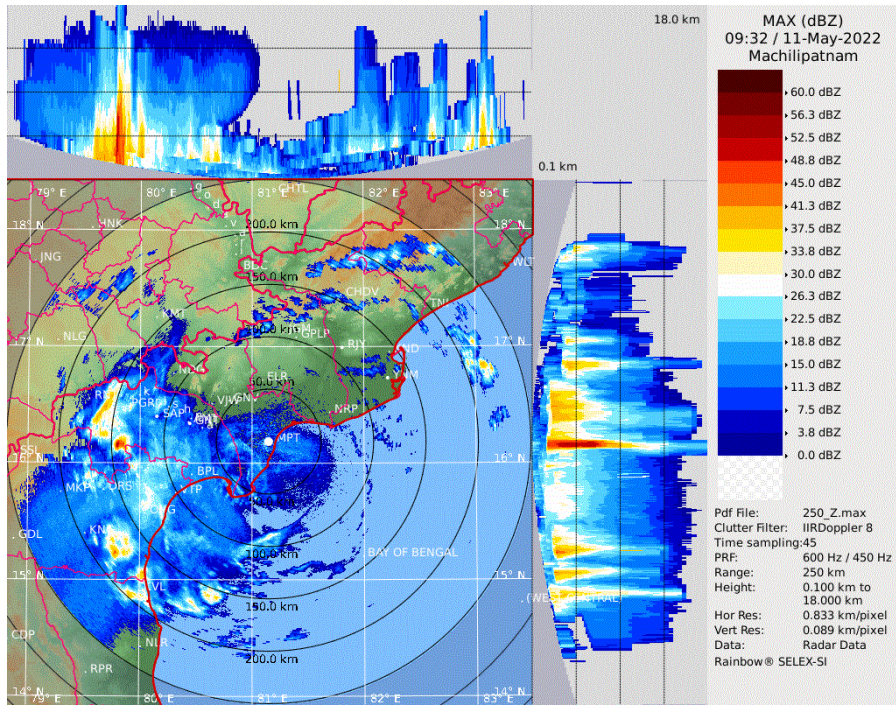
IMG_TIR1_TEMP 10.8 um

11-05-2022/(1400 to 1426) IST



L1C Mercator

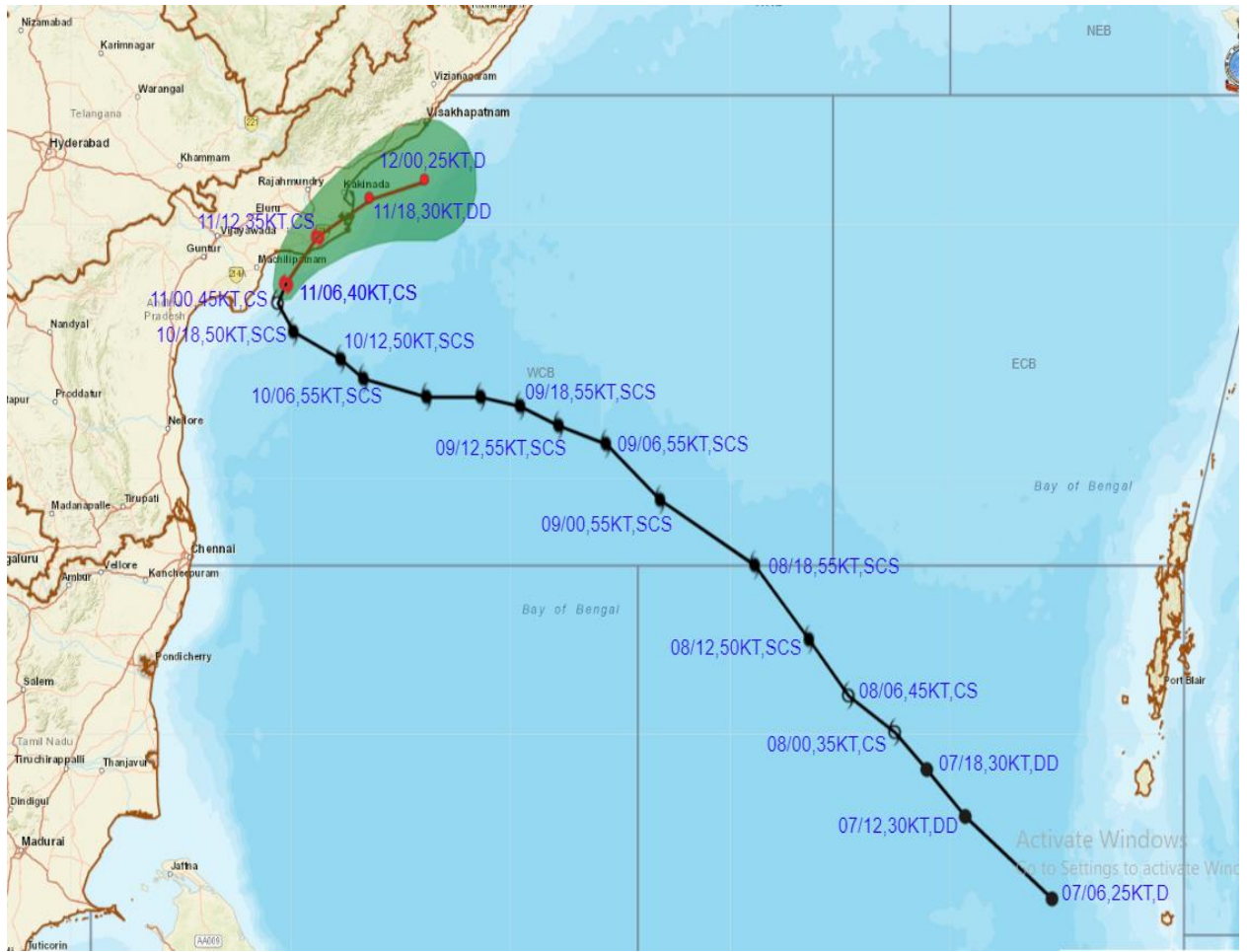




Reflectivity imagery from Doppler weather RADAR Vishakhapatnam based on 1502 hrs IST of 11th May 2022.



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

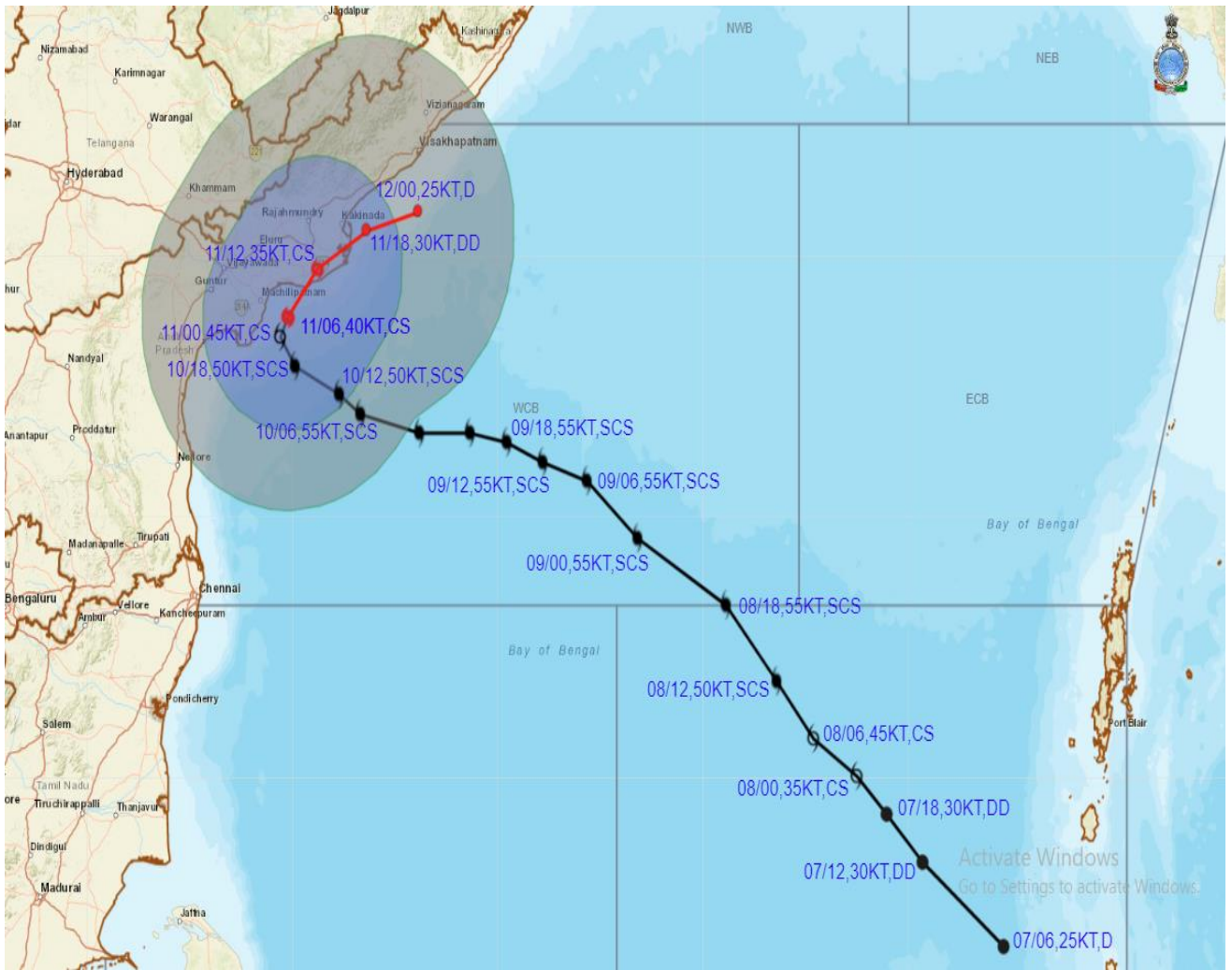
Forecast distance (km) and direction of the centre from nearest 5 coastal stations

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)	KALINGAPATAM (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 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
AREA OF MAXIMUM SUSTAINED WIND SPEED:
 ■ 28-33 KT (52-61 KMPH)
 ■ 34-49 KT (62-91 KMPH)
 ■ 50-63 KT (92-117 KMPH)
 ■ \geq 64 KT (\geq 118 KMPH)

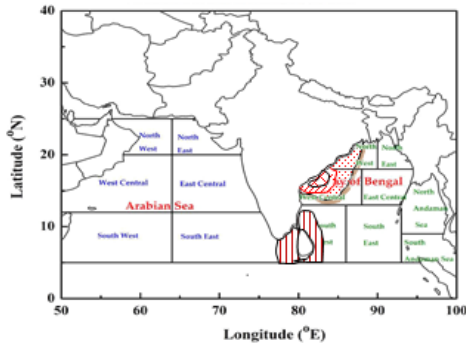
IMPACT OVER THE SEA

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
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations

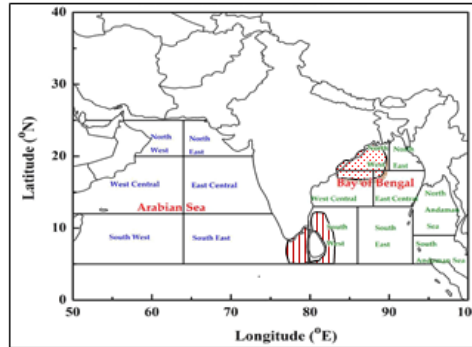
FISHERMEN WARNING GRAPHICS

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

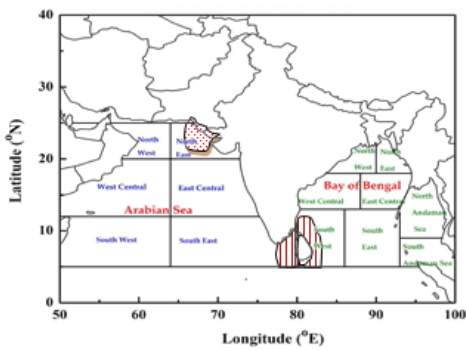
DAY-1: 11.05.2022/0600 UTC TO 12.05.2022/0600 UTC



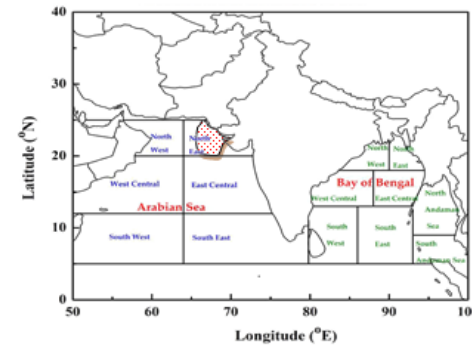
DAY-2: 12.05.2022/0600 UTC TO 13.05.2022/0600 UTC



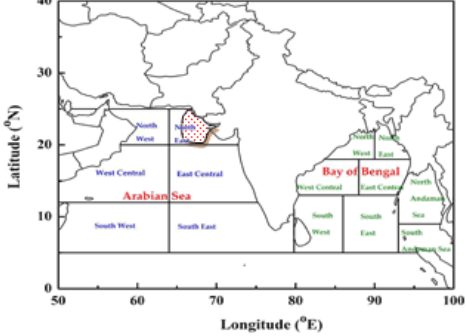
DAY-3: 13.05.2022/0600 UTC TO 14.05.2022/0600 UTC



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

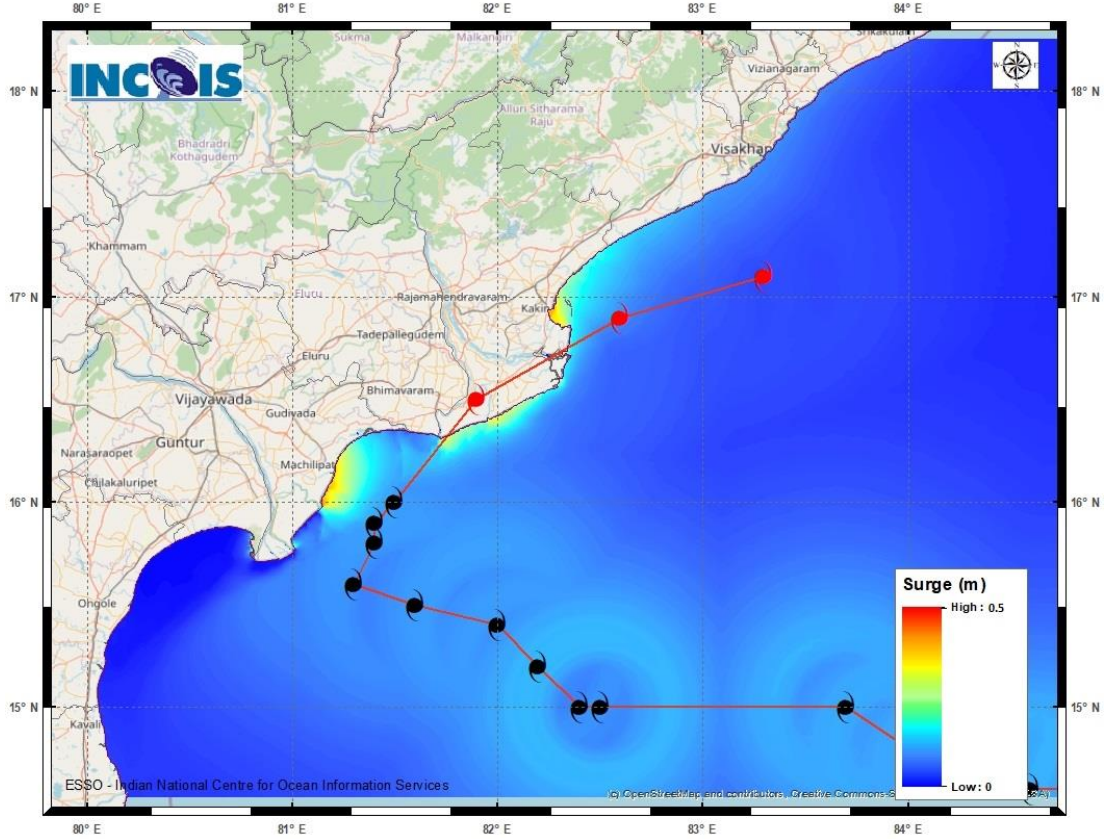


AREA UNDER FISHERMEN WARNING

-  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:

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 0.14
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/2022)

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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