



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**

**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 11.05.2022**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 2100 UTC OF 11.05.2022 BASED ON 1800 UTC OF 11.05.2022.**

**SUB: DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'ASANI') OVER ANDHRA PRADESH COAST**

THE DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'ASANI') OVER COASTAL ANDHRA PRADESH AND ADJOINING WESTCENTRAL BAY OF BENGAL MOVED NEARLY WEST-SOUTHWESTWARDS WITH A SPEED OF 7 KMPH DURING PAST 06 HOURS AND LAY CENTRED AT 1800UTC OF 11<sup>TH</sup> MAY 2022 OVER COASTAL ANDHRA PRADESH, NEAR LATITUDE 16.2°N AND LONGITUDE 80.9°E, CLOSE TO WEST OF MACHILIPATNAM (43185).

IT IS VERY LIKELY TO HOVER AROUND THE SAME REGION AND WEAKEN FURTHER INTO A DEPRESSION BY 0000 UTC OF 12TH MAY.

THE CYCLONIC STORM IS UNDER THE CONTINUOUS SURVEILLANCE OF DOPPLER WEATHER RADAR (DWR) AT MACHILIPATNAM (ANDHRA PRADESH).

INSAT-3D IMAGERY BASED ON 18UTC OF 11<sup>TH</sup> MAY 2022 INDICATES BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER WESTCENTRAL BAY OF BENGAL ALONG & OFF COASTAL ANDHRA PRADESH, RAYALSEEMA. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEG C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 30 KNOTS GUSTING TO 40 KNOTS. THE SEA CONDITION IS VERY ROUGH TO ROUGH OVER WESTCENTRAL BAY OF BENGAL. THE ESTIMATED CENTRAL PRESSURE IS 996 HPA.

**REMARKS:**

SEA SURFACE TEMPERATURE (SST) IS AROUND 29°C OVER WESTCENTRAL BOB ALONG & OFF ANDHRA PRADESH. THE OCEAN HEAT CONTENT (OHC) IS >100 KJ/CM<sup>2</sup> OVER WESTCENTRAL & SOUTH BAY OF BENGAL (BOB) BECOMING 50-70 KJ/CM<sup>2</sup> OVER NORTHWEST BOB & ALONG & OFF ANDHRA PRADESH & ODISHA COASTS AND ADJOINING WESTCENTRAL BOB.

LOW LEVEL VORTICITY HAS DECREASED AND IS ABOUT  $150 \times 10^{-6} \text{ S}^{-1}$  TO THE SOUTH OF SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 200 HPA LEVEL. LOW LEVEL CONVERGENCE IS AROUND TO  $30 \times 10^{-5} \text{ S}^{-1}$  TO THE NORTHWEST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS  $05 \times 10^{-5} \text{ S}^{-1}$  AROUND TO THE SOUTHWEST OF SYSTEM CENTRE. WIND SHEAR IS LOW (15-20 KNOTS) AROUND THE SYSTEM AREA. THE SYSTEM WEAKENED DUE TO LAND INTERACTIONS AND WILL WEAKEN FURTHER GRADUALLY. IT IS VERY LIKELY TO HOVER AROUND THE SAME REGION AND WEAKEN FURTHER INTO A DEPRESSION BY TODAY 0000 UTC OF 12TH MAY.

**(AMIT BHARDWAJ)  
SCIENTIST-C, RSMC, NEW DELHI**

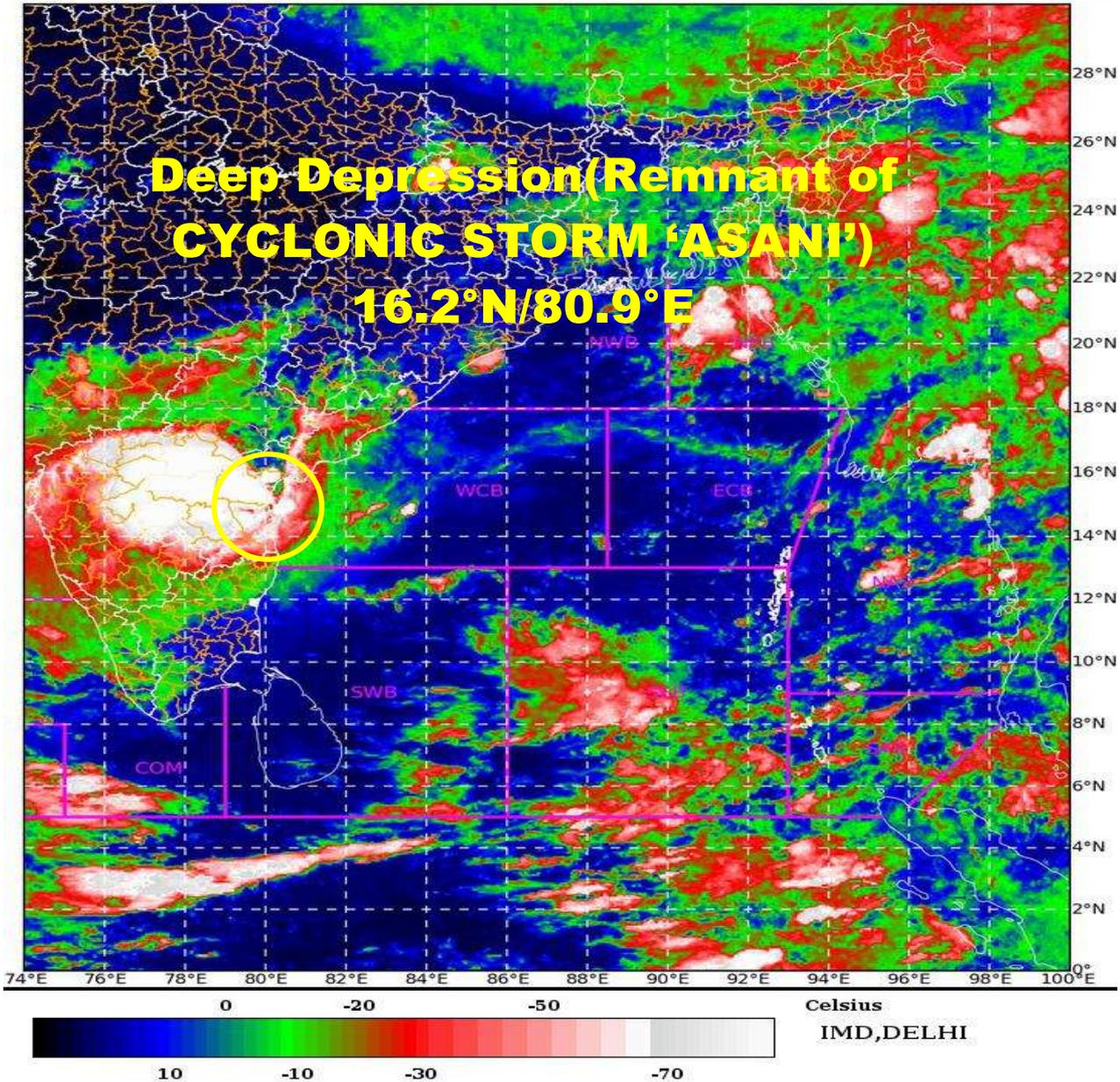
SAT : INSAT-3D IMG

11-05-2022/(1700 to 1726) GMT

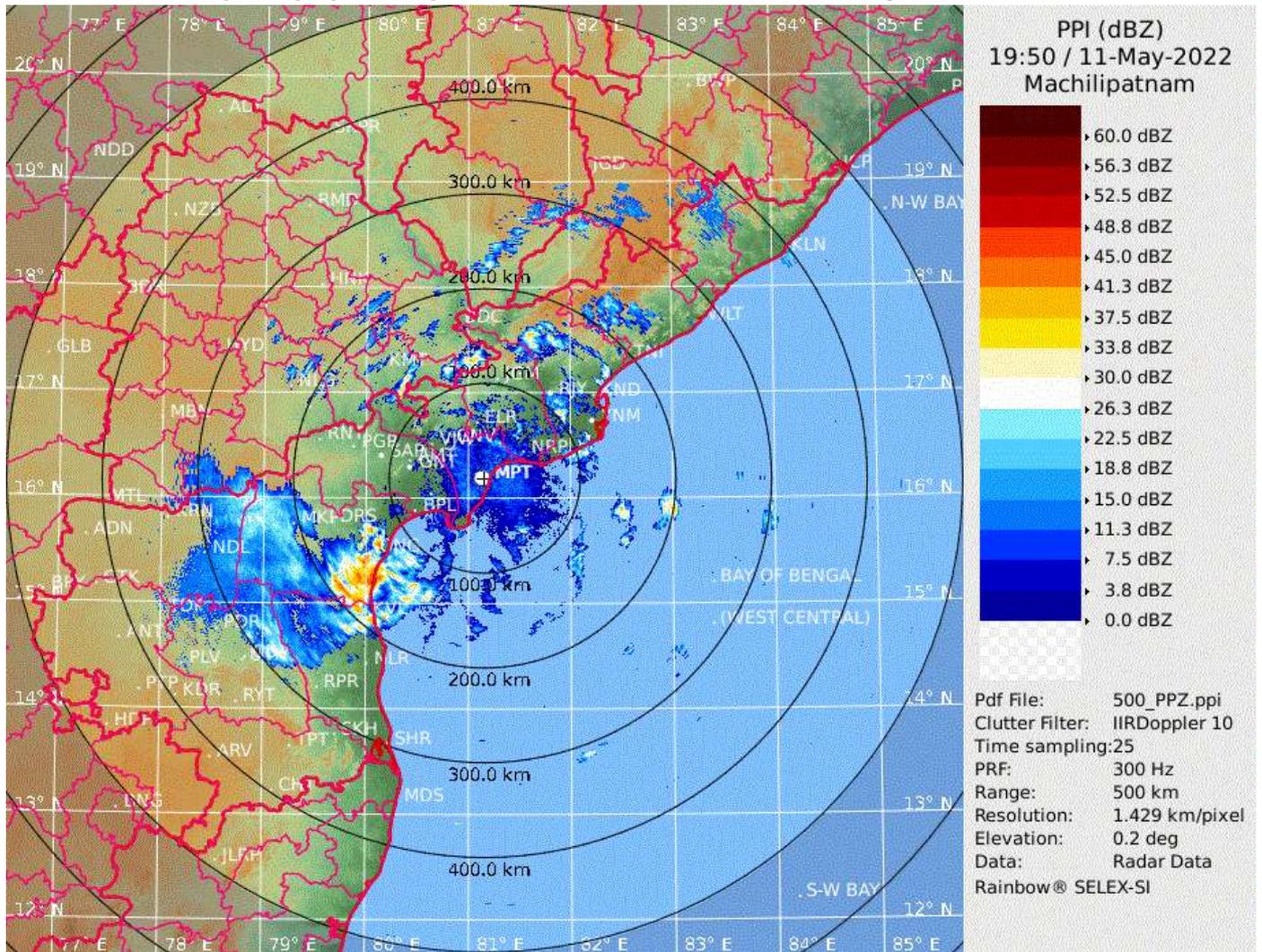
IMG\_TIR1\_TEMP 10.8 um

11-05-2022/(2230 to 2256) IST

L1C Mercator

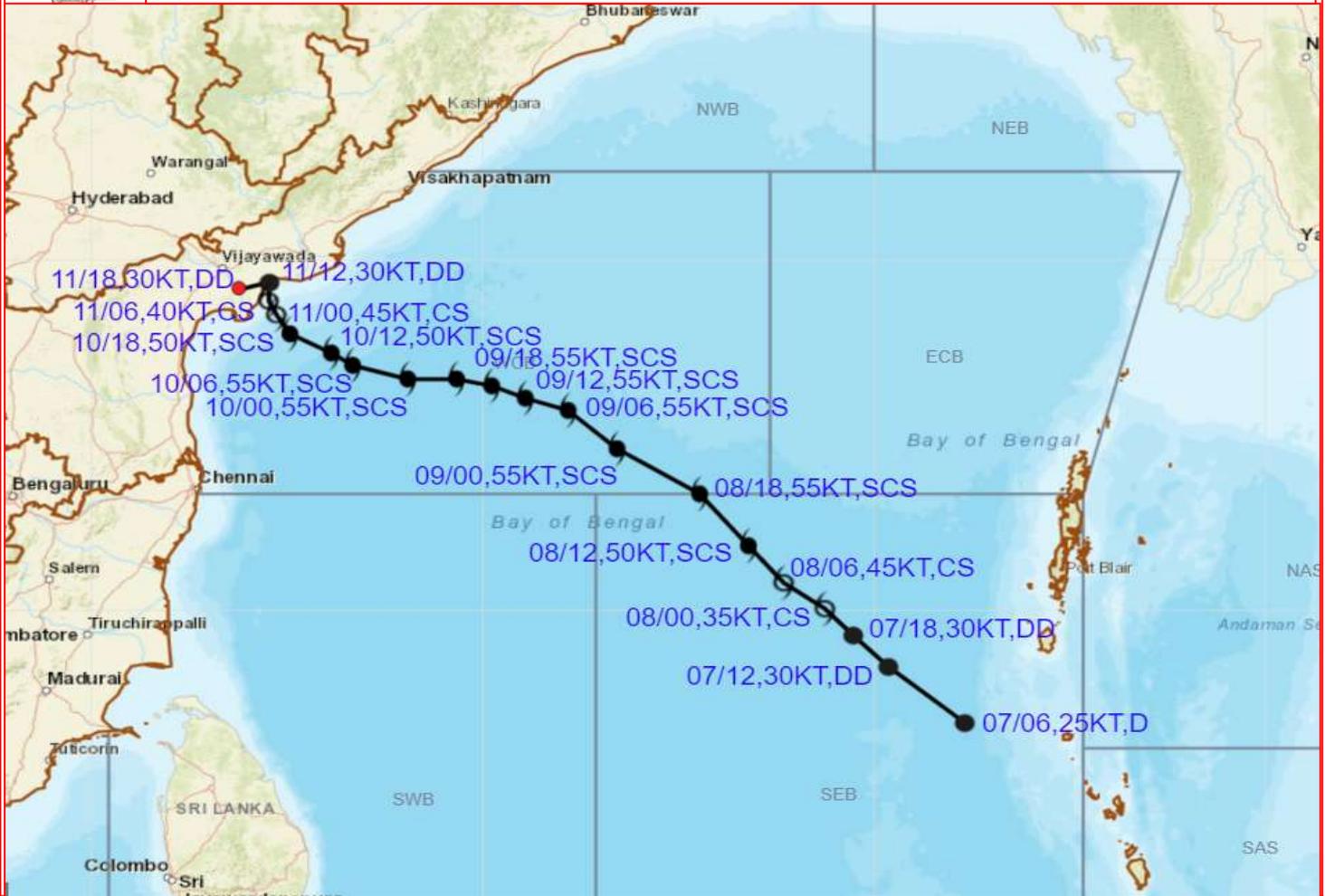


## CYCLONIC STORM "ASANI" VIEWED BY THE DWR AT MACHILIPATNAM





**FORECAST TRACK AND INTENSITY OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'ASANI') ALONGWITH CONE OF UNCERTAINTY OVER ANDHRA PRADESH COAST BASED ON 1800 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

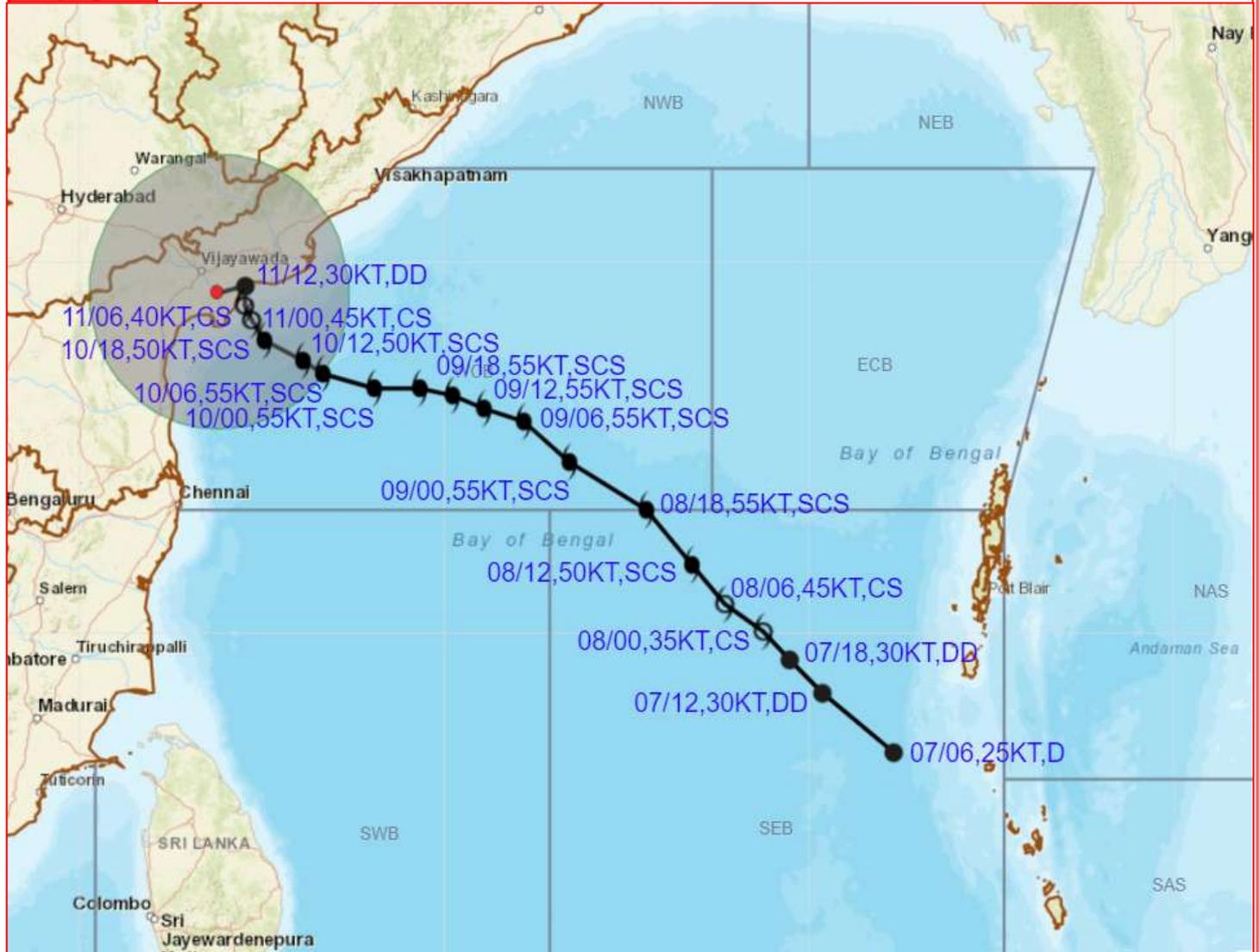
DISTANCE(KM) AND DIRECTION FROM STATIONS						
Forecast Date and Time	Lead Period	MACHILIPATNAM	KAKINADA	VISHAKHAPATNAM	GOPALPUR	PURI
11.05.22/1800		030,W	160,WSW	310,WSW	540,SW	660,SW

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
11.05.22/1800	0	16.2	80.9	MACHILIPATNAM/ FRANCHPET (27,W)	VIJAYAWADA /GANNAVARAM (39,SSE)	VIJAYAWADA (46,SE)	BAPATLA (57,NE)	NARSAPUR (89,WSW)

**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 OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'ASANI') OVER ANDHRA PRADESH COAST BASED ON 1800 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 ( $\geq$  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

