



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

**HOURLY UPDATE ON CYCLONIC STORM 'GULAB'**

**BULLETIN NO. 10**

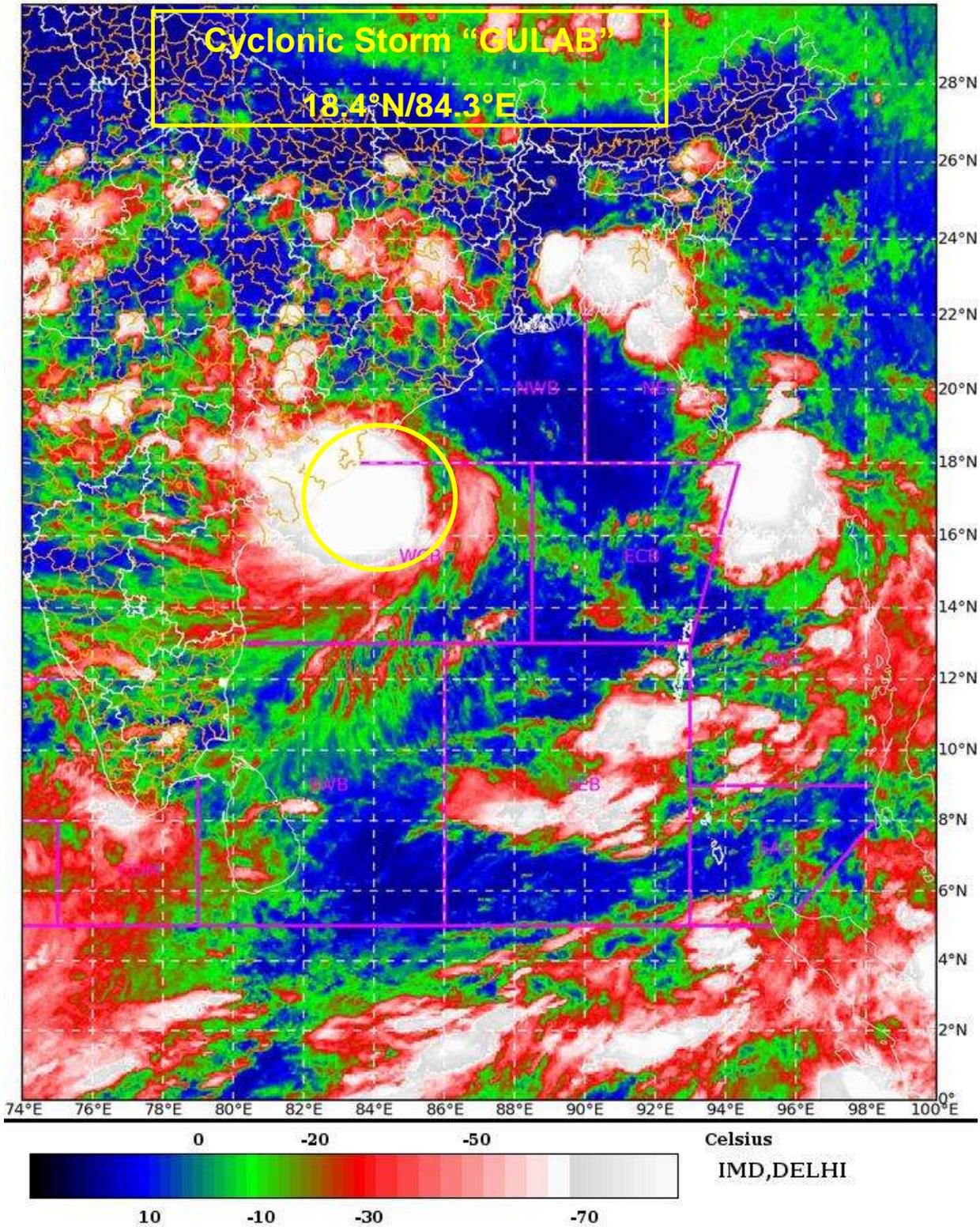
DATE: 26-09-2021

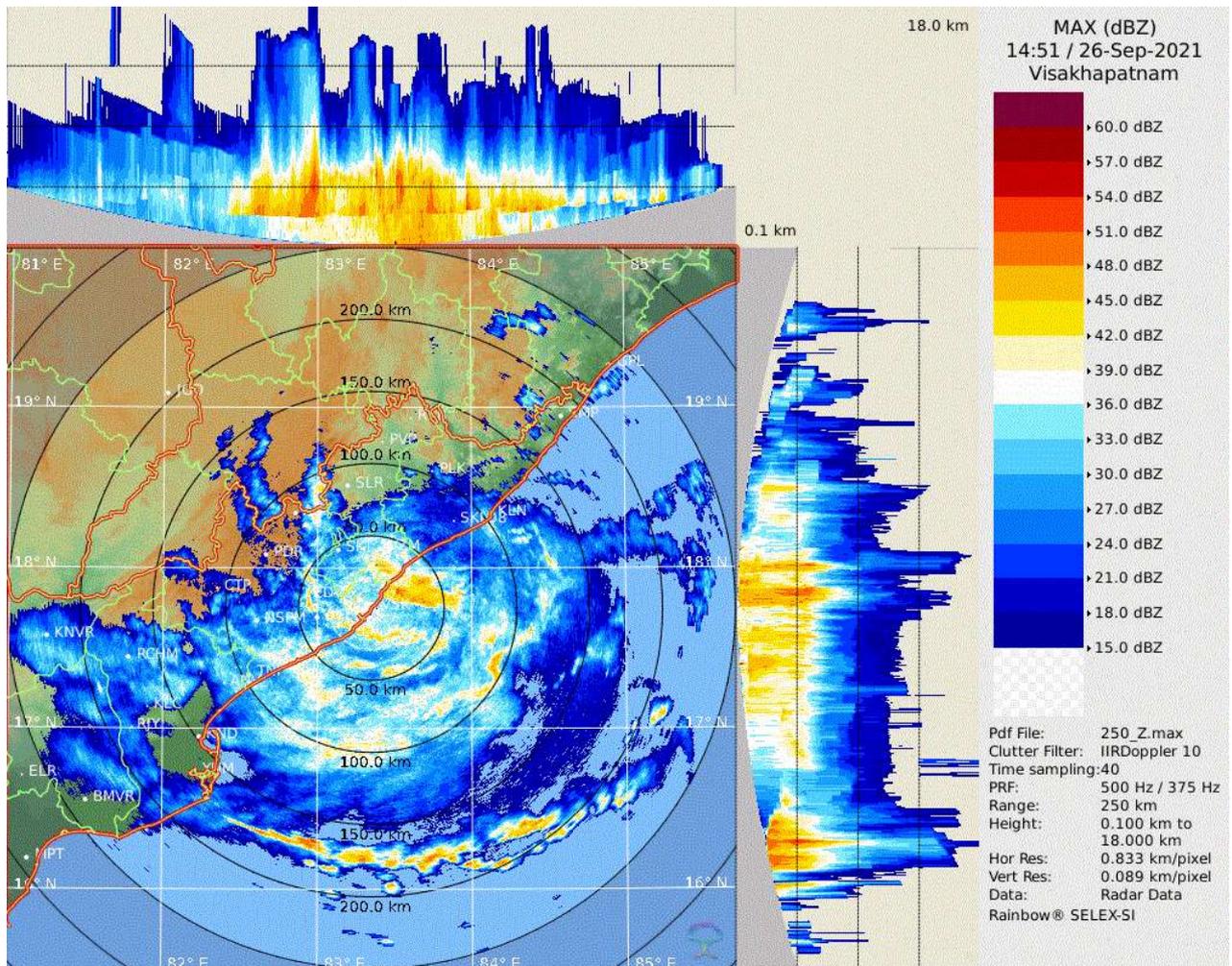
TIME OF ISSUE: 2115 HRS IST

<b>DATE/TIME (IST) OF OBSERVATION</b>	<b>BASED ON 26-09-2021 (2030 HRS IST)</b>
LOCATION LATITUDE/LONGITUDE	<p>THE CYCLONIC STORM '<b>GULAB</b>' (<b>PRONOUNCED AS GUL-AAB</b>) OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL MOVED NEARLY WESTWARDS WITH A SPEED OF 27 KMPH DURING LAST 06 HOURS, CROSSED NORTH ANDHRA PRADESH – SOUTH ODISHA COASTS, ABOUT 20 KM NORTH OF KALINGAPATNAM WITH A MAXIMUM SUSTAINED WIND SPEED OF 75-85 KMPH GUSTING TO 95 KMPH DURING 1930 &amp; 2030 HRS IST AND LAY CENTERED AT 2030 HRS IST OF 26<sup>TH</sup> SEPTEMBER 2021, OVER NORTH COASTAL ANDHRA PRADESH NEAR LAT. 18.3°N AND LONG. 83.8°E, ABOUT 160 KM SOUTH-SOUTHWEST OF GOPALPUR (ODISHA) &amp; 30 KM WEST OF KALINGAPATNAM (ANDHRA PRADESH).</p> <p>IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND WEAKEN INTO A DEEP DEPRESSION DURING NEXT 06 HOURS.</p>
CURRENT INTENSITY NEAR CENTRE	70-80 KMPH GUSTING TO 90 KMPH
PAST MOVEMENT	MOVED NEARLY WESTWARDS WITH A SPEED OF 27 KMPH DURING PAST 06 HOURS.
FORECAST MOVEMENT AND INTENSITY	<b>IT IS LIKELY TO WEAKEN INTO DEEP DEPRESSION DURING NEXT 06 HOURS AND MOVE NEARLY WESTWARDS.</b>
FORECAST RAINFALL	<ul style="list-style-type: none"><li>• <b>26<sup>TH</sup> SEP:</b> LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH <b>HEAVY TO VERY HEAVY FALLS</b> AT A FEW PLACES &amp; <b>EXTREMELY HEAVY RAINFALL (≥ 20 CM)</b> AT ISOLATED PLACES VERY LIKELY OVER <b>SOUTH ODISHA AND NORTH COASTAL ANDHRA PRADESH; HEAVY TO VERY HEAVY FALLS</b> AT ISOLATED PLACES IS ALSO LIKELY OVER <b>TELANGANA</b> AND <b>HEAVY FALLS</b> AT ISOLATED PLACES OVER <b>NORTH INTERIOR ODISHA &amp; CHHATTISGARH.</b></li><li>• <b>27<sup>TH</sup> SEP:</b> LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH <b>HEAVY TO VERY HEAVY &amp; EXTREMELY HEAVY RAINFALL (≥ 20 CM)</b> AT ISOLATED PLACES VERY LIKELY OVER <b>SOUTH CHHATTISGARH; HEAVY TO VERY HEAVY FALLS</b> AT ISOLATED PLACES OVER <b>ODISHA, TELANGANA &amp; VIDARBHA</b> AND <b>HEAVY RAINFALL AT</b></li></ul>

	ISOLATED PLACES OVER <b>COASTAL WEST BENGAL &amp; NORTH CHATTISGARH.</b>
FORECAST WIND SPEED (KMPH)	60-70 KMPH GUSTING TO 80 KMPH FOR NEXT SIX HOURS AND GRADUALLY DECREASE THEREAFTER
FORECAST STORM SURGE	TIDAL WAVE OF ABOUT 0.5 M HEIGHT ABOVE THE ASTRONOMICAL TIDE LIKELY TO INUNDATE LOW LYING AREAS OF SRIKAKULAM, VIZIANAGARAM, GANJAM DISTRICTS DURING NEXT TWO HOURS
OBSERVED RAINFALL (MM) (FROM 0830 HRS IST OF TODAY) AND WIND (KMPH) DATA	<b>WIND(KMPH):</b> KALINGAPATNAM-94 (IN GUSTINESS), PURI-26, GOPLAPUR-22.

SAT : INSAT-3D IMG      26-09-2021/(1430 to 1456) GMT  
IMG\_TIR1\_TEMP 10.8 um    26-09-2021/(2000 to 2026) IST  
L1C Mercator

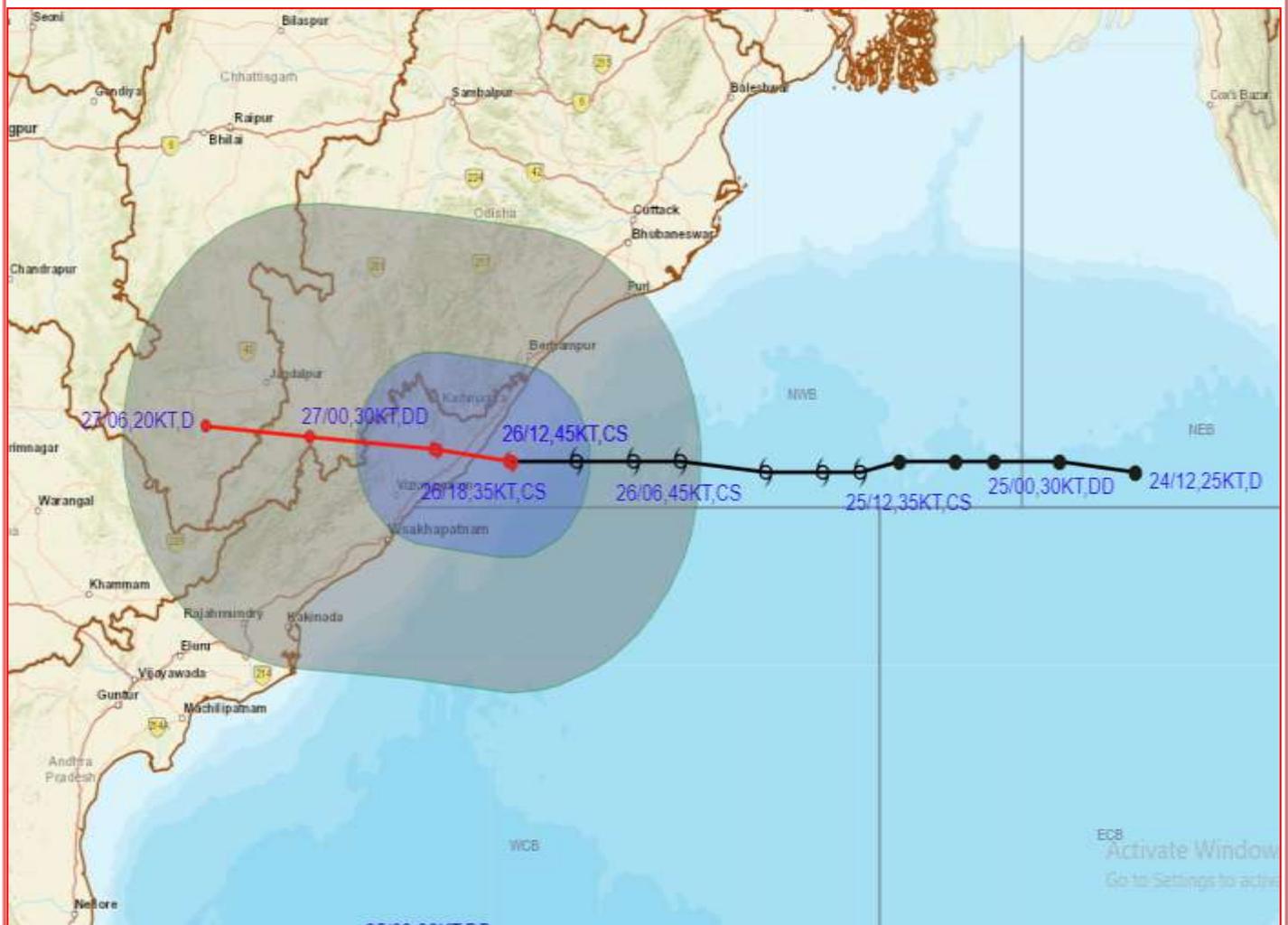




Reflectivity imagery from Doppler weather RADAR Vishakhapatnam based on 2021 hrs IST of 26<sup>th</sup> September 2021.



**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM GULAB OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 1200 UTC OF 26TH SEPTEMBER, 2021**



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)

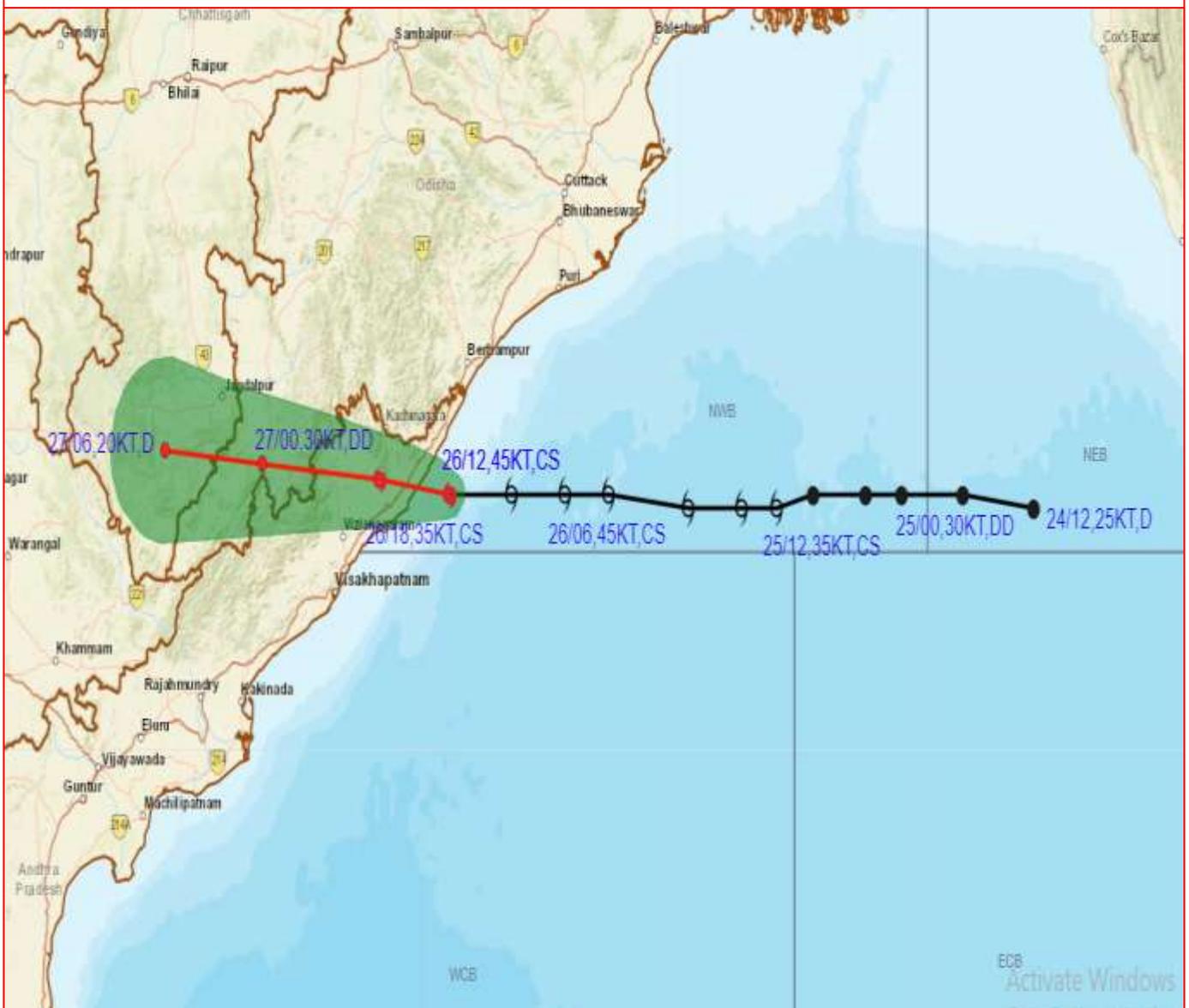
● LESS THAN 34 KT  
 ○ 34-47 KT  
 ● ≥ 48 KT  
 — OBSERVED TRACK  
 — FORECAST TRACK  
 — CONE OF UNCERTAINTY  
 AREA OF MAXIMUM SUSTAINED WIND SPEED:  
 ■ 28-33 KT (52-61 KMPH)  
 ■ 34-49 KT (62-91 KMPH)  
 ■ 50-63 KT (92-117 KMPH)  
 ■ ≥ 64 KT (≥118 KMPH)

**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

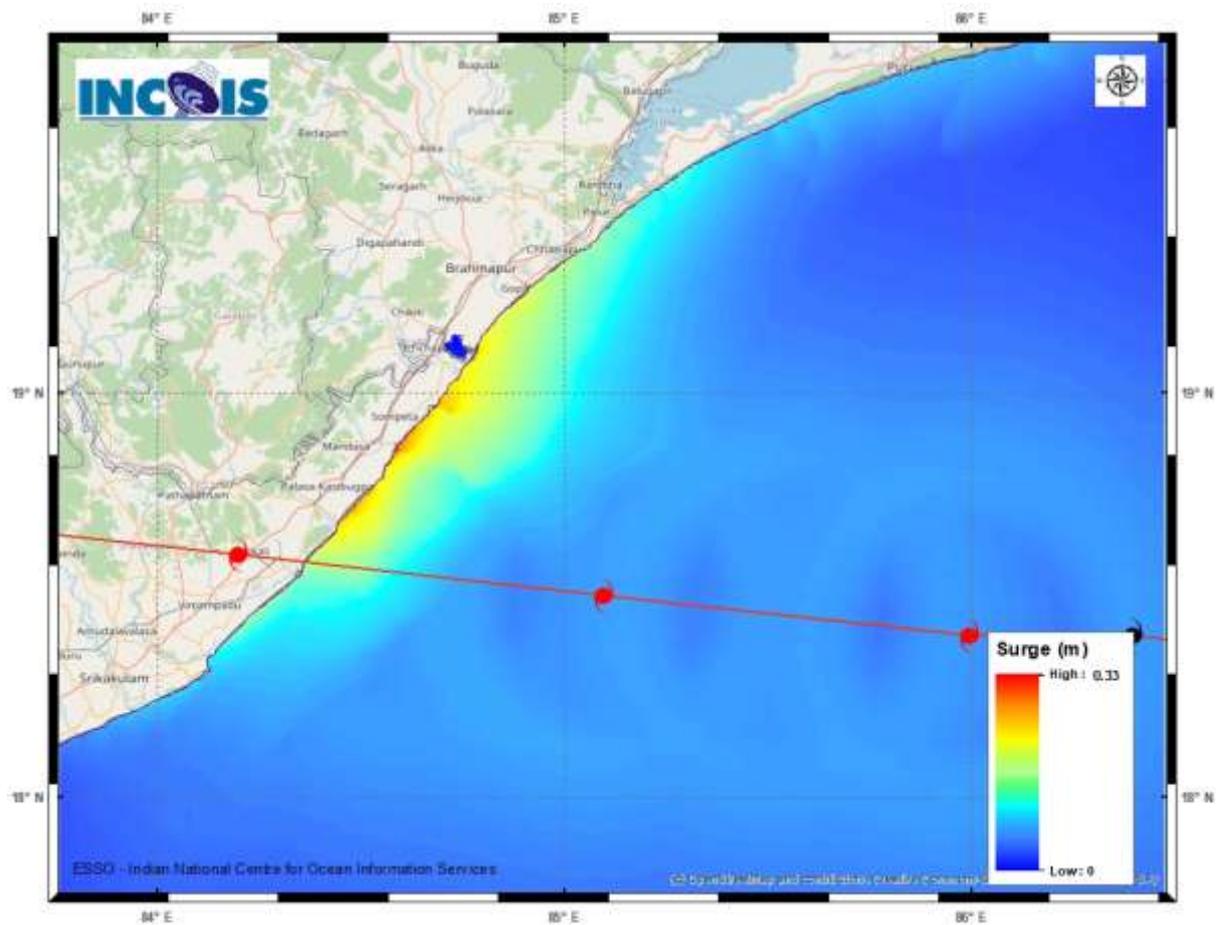


## OBSERVED AND FORECAST TRACK OF CYCLONIC STORM GULAB OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 1200 UTC OF 26<sup>TH</sup> SEPTEMBER, 2021



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-  LESS THAN 34 KT
-  34-47 KT
-  ≥ 48 KT
-  OBSERVED TRACK
-  FORECAST TRACK
-  CONE OF UNCERTAINTY



Storm surge graphics from INCOIS for the current system (BoB/04/2021)

Peak storm surge upto 0.5 m over and above the astronomical tide is noticed at (i) Sompeta and Tekkali of Srikakulam district, Andhra Pradesh and (ii) Brahmapur of Ganjam district, Odisha.