



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

HOURLY UPDATE ON CYCLONIC STORM 'GULAB'

BULLETIN NO. 09

DATE: 26-09-2021

TIME OF ISSUE: 2020 HRS IST

DATE/TIME (IST) OF OBSERVATION	BASED ON 26-09-2021 (1930 HRS IST)
LOCATION LATITUDE/LONGITUDE	<p>THE CYCLONIC STORM 'GULAB' (PRONOUNCED AS 'Gul-Aab') LAY CENTRED AT 1930 HRS IST OF THE 26TH SEP, 2021 OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL NEAR LATITUDE 18.4°N AND LONGITUDE 84.3°E, ABOUT 25 KM EAST-NORTHEAST OF KALINGAPATTNUM, 120 KM SOUTH-SOUTHWEST OF GOPLAPUR. THE SYSTEM IS LYING CLOSE TO COAST AND CROSSING THE NORTH ANDHRA PRADESH COAST.</p> <p>THE LANDFALL PROCESS, WILL CONTINUE FOR NEXT 2 HOURS. .</p>
CURRENT INTENSITY NEAR CENTRE	75-85 KMPH GUSTING TO 95 KMPH
PAST MOVEMENT	MOVED NEARLY WESTWARDS WITH A SPEED OF 20 KMPH DURING PAST 06 HOURS.
FORECAST MOVEMENT AND INTENSITY	IT WILL GRADUALLY WEAKEN AFTER THE LANDFALL AND MOVE NEARLY WESTWARDS.
FORECAST RAINFALL	<ul style="list-style-type: none">• 26TH SEP: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY FALLS AT A FEW PLACES & EXTREMELY HEAVY RAINFALL (≥ 20 CM) AT ISOLATED PLACES VERY LIKELY OVER SOUTH ODISHA AND NORTH COASTAL ANDHRA PRADESH; HEAVY TO VERY HEAVY FALLS AT ISOLATED PLACES IS ALSO LIKELY OVER TELANGANA AND HEAVY FALLS AT ISOLATED PLACES OVER NORTH INTERIOR ODISHA & CHHATTISGARH.• 27TH SEP: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY & EXTREMELY HEAVY RAINFALL (≥ 20 CM) AT ISOLATED PLACES VERY LIKELY OVER SOUTH CHHATTISGARH; HEAVY TO VERY HEAVY FALLS AT ISOLATED PLACES OVER ODISHA, TELANGANA & VIDARBHA AND HEAVY RAINFALL AT ISOLATED PLACES OVER COASTAL WEST BENGAL & NORTH CHATTISGARH.

FORECAST WIND SPEED (KMPH)	75-85 KMPH GUSTING TO 95 KMPH FOR NEXT TWO 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	WIND(KMPH): KALINGAPATNAM-94 (IN GUSTINESS), PURI-31, GOPLAPUR-30,

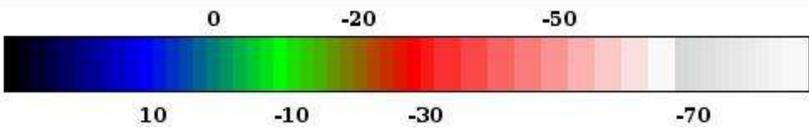
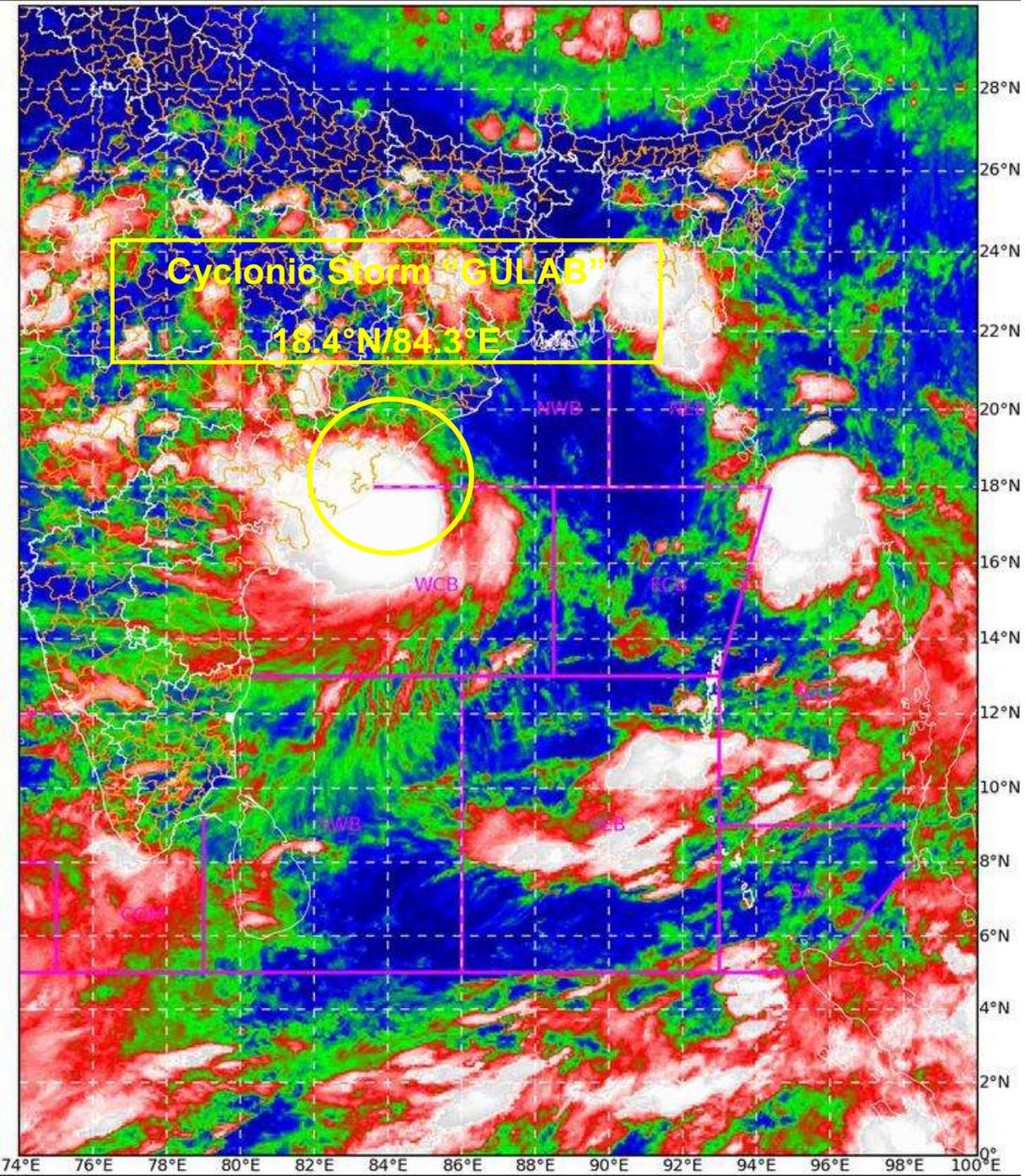
SAT : INSAT-3D IMG

26-09-2021/(1400 to 1426) GMT

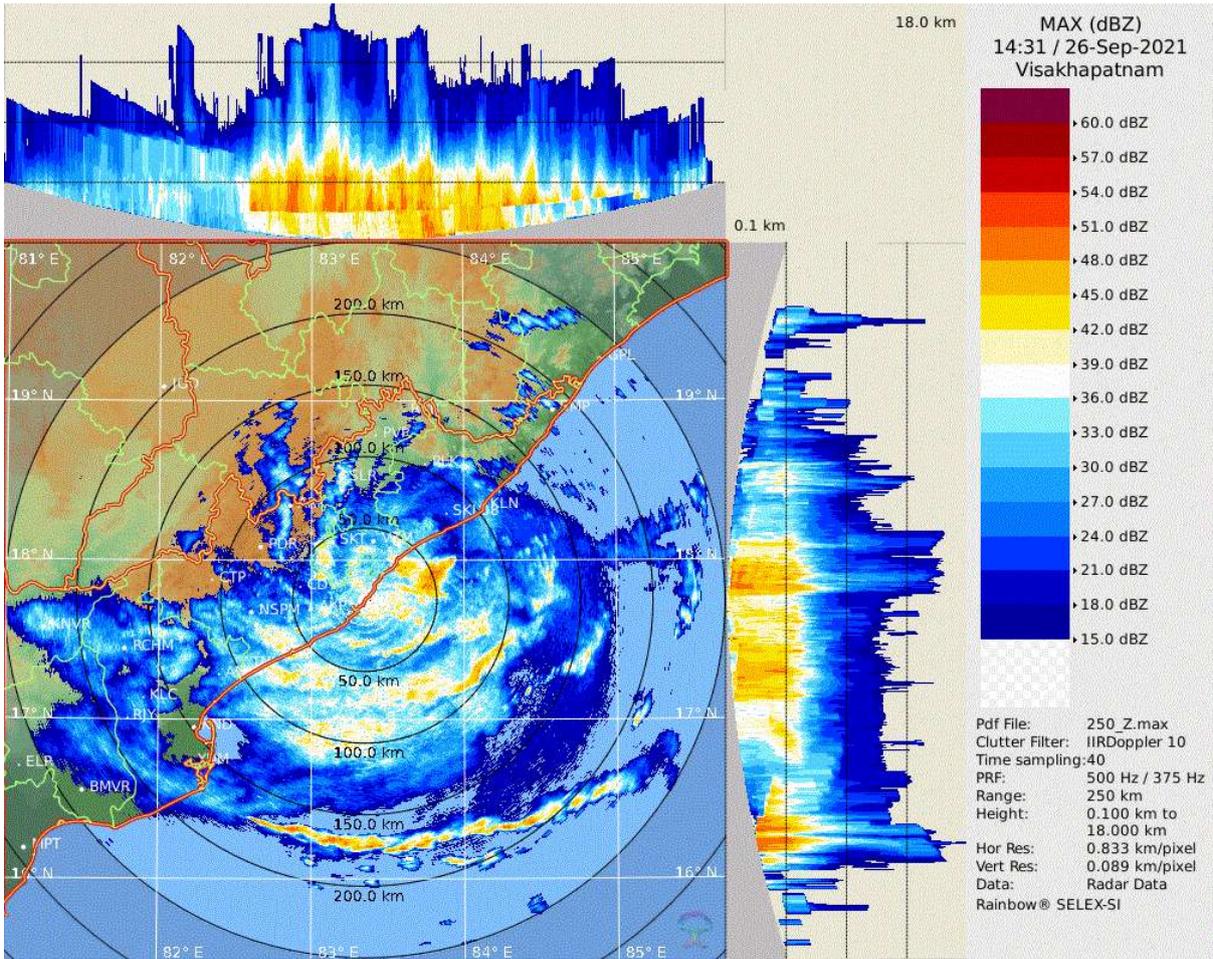
IMG_TIR1_TEMP 10.8 um

26-09-2021/(1930 to 1956) IST

L1C Mercator



Celsius
IMD, DELHI



Reflectivity imagery from Doppler weather RADAR Visakhapatnam based on 2000 hrs IST of 26th 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)

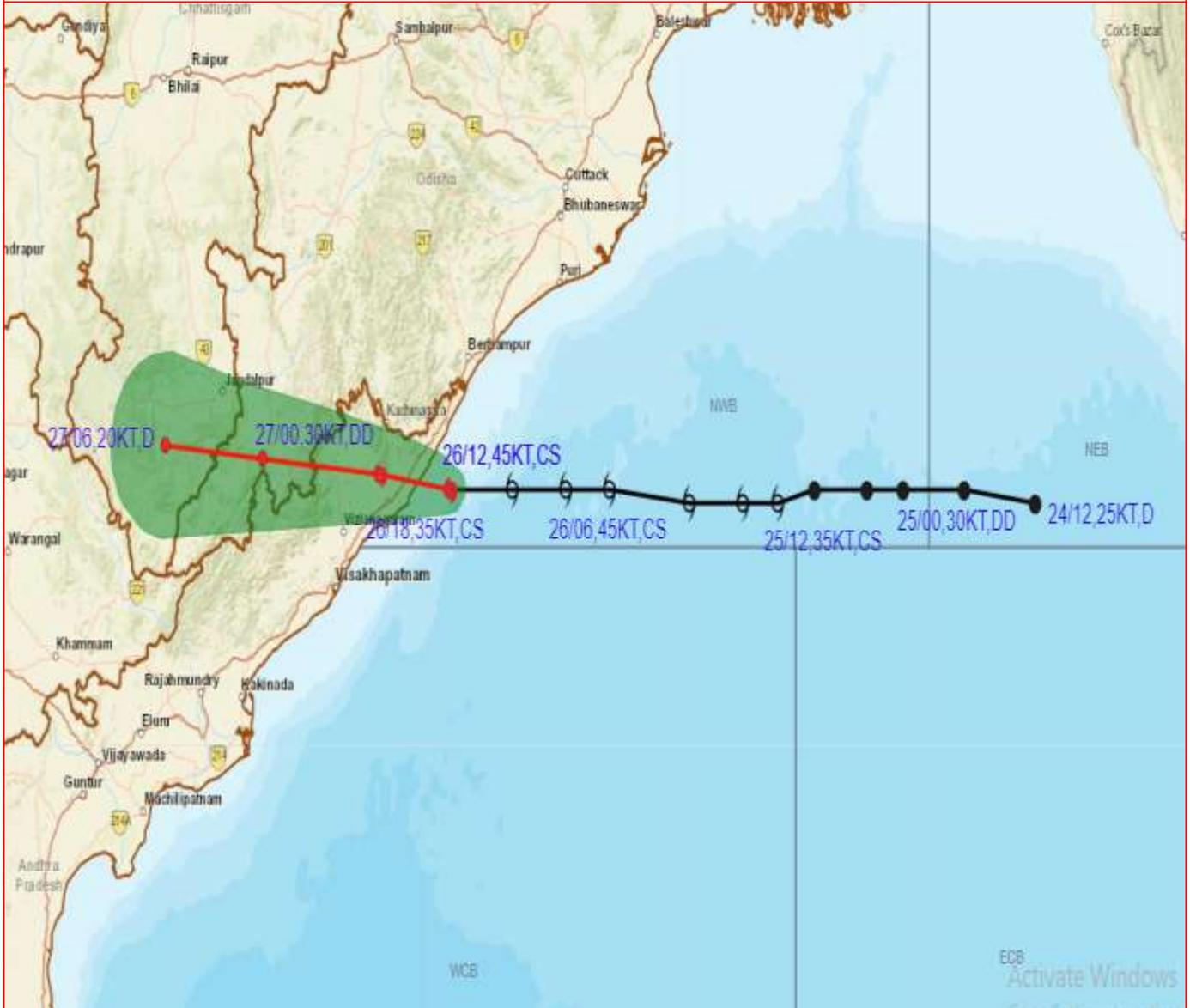
- LESS THAN 34 KT
- 34-47 KT
- ◐ ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- ▲ CONE OF UNCERTAINTY
- AREA OF MAXIMUM SUSTAINED WIND SPEED:
- 28-33 KT (52-61 KMPH)
- 34-49 KT (62-91 KMPH)
- 50-63 KT (92-117 KMPH)
- ≥ 64 KT (≥118 KMPH)

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
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

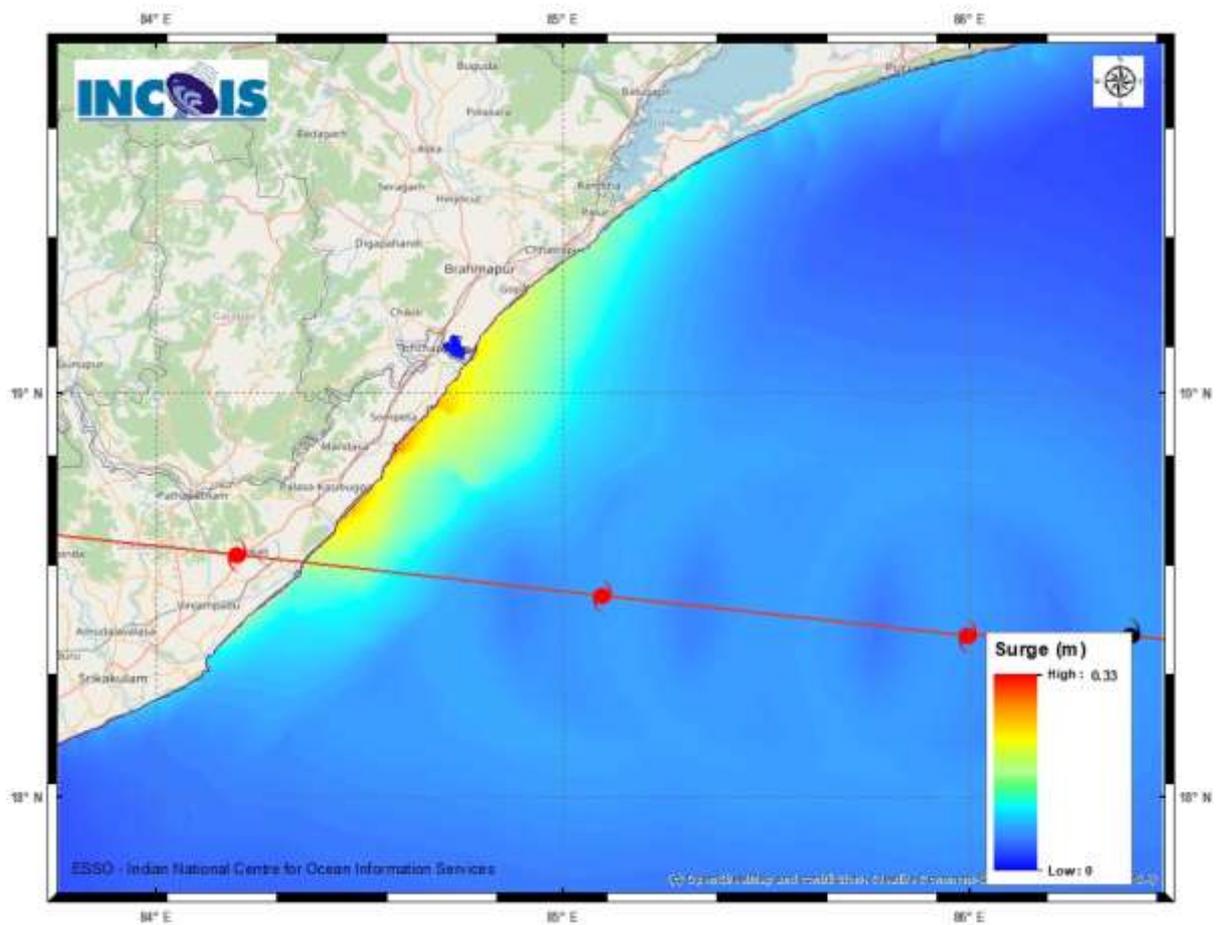


OBSERVED AND FORECAST TRACK OF CYCLONIC STORM GULAB OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 1200 UTC OF 26TH SEPTEMBER, 2021



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	LESS THAN 34 KT
	34-47 KT
	\geq 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.