

India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON CYCLONIC STORM 'GULAB'

BULLETIN NO. 02

DATE: 26-09-2021 TIME OF ISSUE: 1300 HRS IST

DATE/TIME (IST) OF	BASED ON 26-09-2021 (1230 HRS IST)
OBSERVATION	· · · · · · · · · · · · · · · · · · ·
LOCATION LATITUDE/LONGITUDE	THE CYCLONIC STORM 'GULAB' (PRONOUNCED AS 'Gul-Aab') LAY CENTRED AT 1230 HRS IST OF THE 26 TH SEP, 2021 OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL NEAR LATITUDE 18.4°N AND LONGITUDE 85.8°E, ABOUT 180 KM EAST OF KALINGAPATTNUM, 135 KM SOUTHEAST OF GOPLAPUR.
CURRENT INTENSITY NEAR CENTRE	75-85 KMPH GUSTING TO 95 KMPH
PAST MOVEMENT	MOVED NEARLY WESTWARDS WITH A SPEED OF 16 KMPH DURING PAST 03 HOURS.
FORECAST MOVEMENT AND INTENSITY	IT IS LIKELY TO MOVE NEARLY WESTWARDS AND CROSS NORTH ANDHRA PRADESH - SOUTH ODISHA COASTS BETWEEN KALINGAPATNAM & GOPALPUR, AS A CYCLONIC STORM WITH MAXIMUM SUSTAINED WIND SPEED OF 75-85 KMPH GUSTING TO 95 KMPH, AROUND MID-NIGHT OF TODAY, THE 26TH SEPTEMBER, 2021.THE LANDFALL PROCESS WILL COMMENCE FROM EVENING OF TODAY.
FORECAST RAINFALL	• 26 TH SEP: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY FALLS AT A FEW PLACES & AND 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. • 27 TH 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.

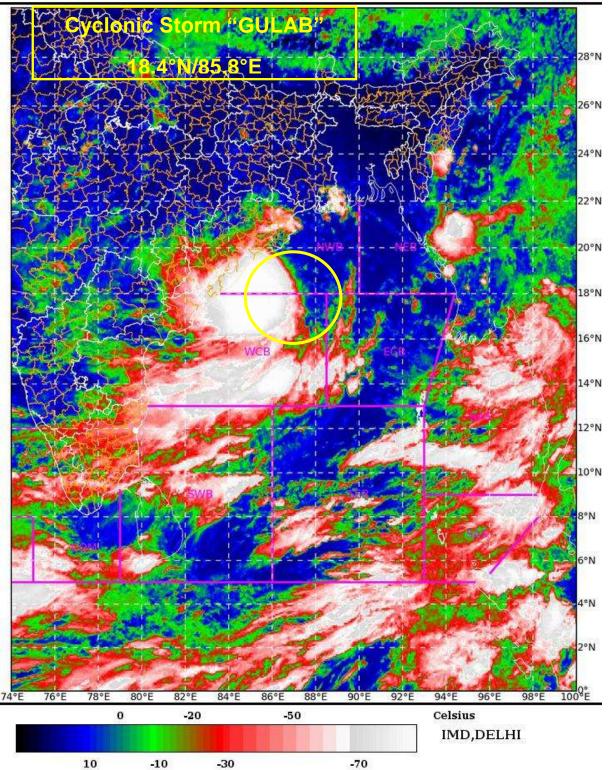
FORECAST WIND SPEED (KMPH) AT THE TIME OF LANDFALL	75-85 KMPH GUSTING TO 95 KMPH
FORECAST STORM SURGE	TIDAL WAVE OF ABOUT 0.5 M HEIGHT ABOVE THE ASTRONOMICAL TIDE LIKELY TO INUNDATE LOW LYING AREAS OF SRIKAKULAM, VIZIANAGARAM, GANJAM DISTRICTS DURING THE TIME OF LANDFALL.

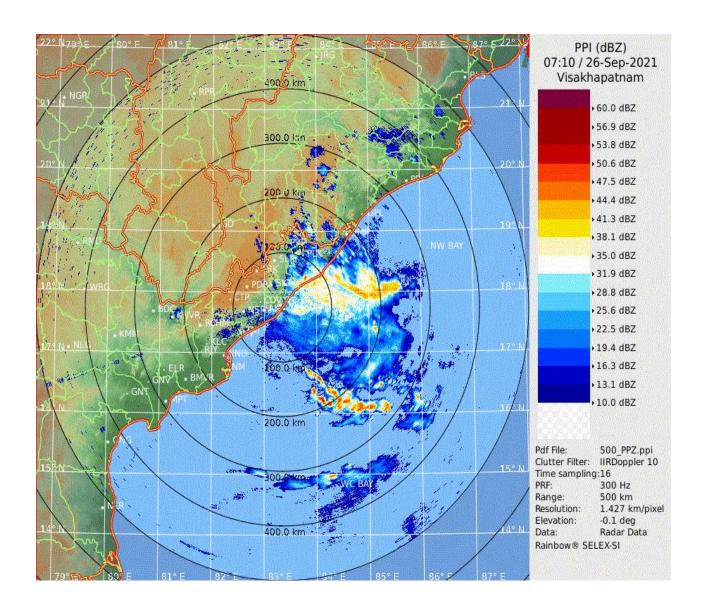
SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um

26-09-2021/(0600 to 0626) GMT 26-09-2021/(1130 to 1156) IST



L1C Mercator

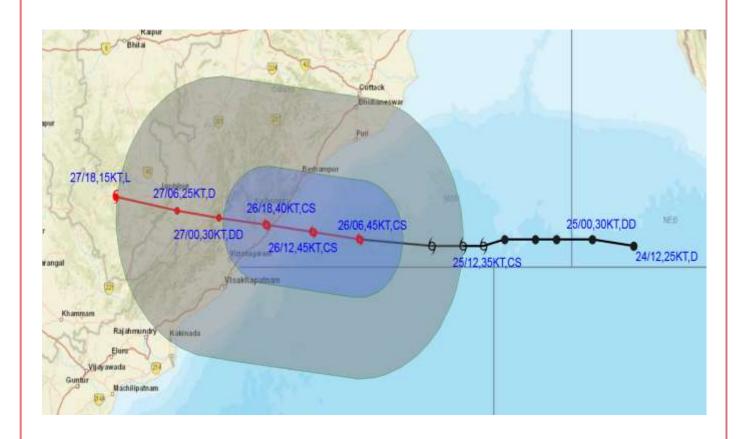


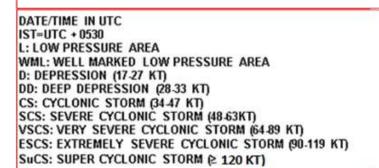


Reflectivity imagery from Doppler weather RADAR Vishakhapatnam based on 1240 hrs IST of 26^{th} September 2021.



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM GULAB OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 26TH SEPTEMBER, 2021



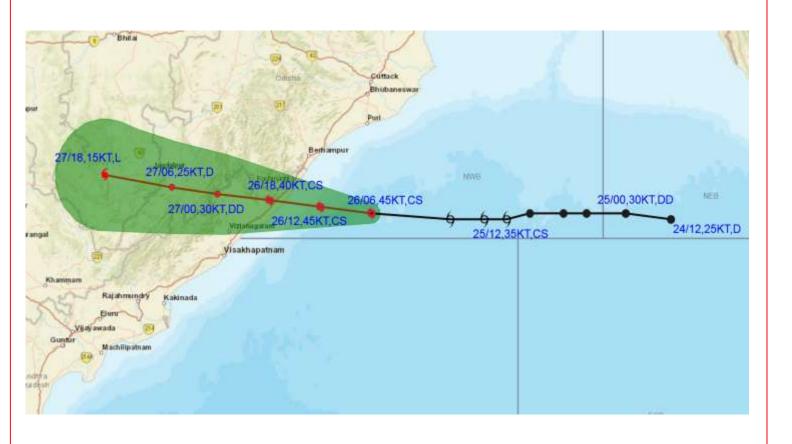


•	LESS THAN 34 KT
6	34-47 KT
6	≥ 48 KT
	OBSERVED TRACK
	FORECAST TRACK
	CONE OF UNCERTAINTY
AREA	OF MAXIMUM SUSTAINED WIND SPEED:
	28-33 KT (52-61 KMPH)
	34-49 KT (62-91 KMPH)
	50-63 KT (92-117 KMPH)
	≥ 64 KT (≥118 KMPH)

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 0600 UTC OF 26^{TH} SEPTEMBER, 2021



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

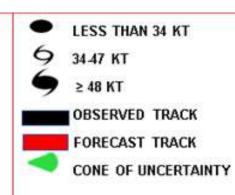
DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

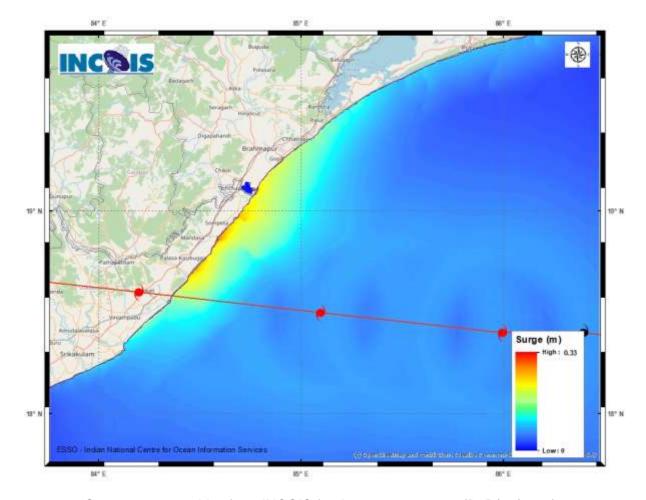
SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (≥ 120 KT)





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.

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 27.09.2021:

Moderate to High Risk over few watersheds and neighborhood of South Odisha adjoining Coastal Andhra Pradesh met subdivision in next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.

