

India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON CYCLONIC STORM 'GULAB'

BULLETIN NO. 05

DATE: 26-09-2021

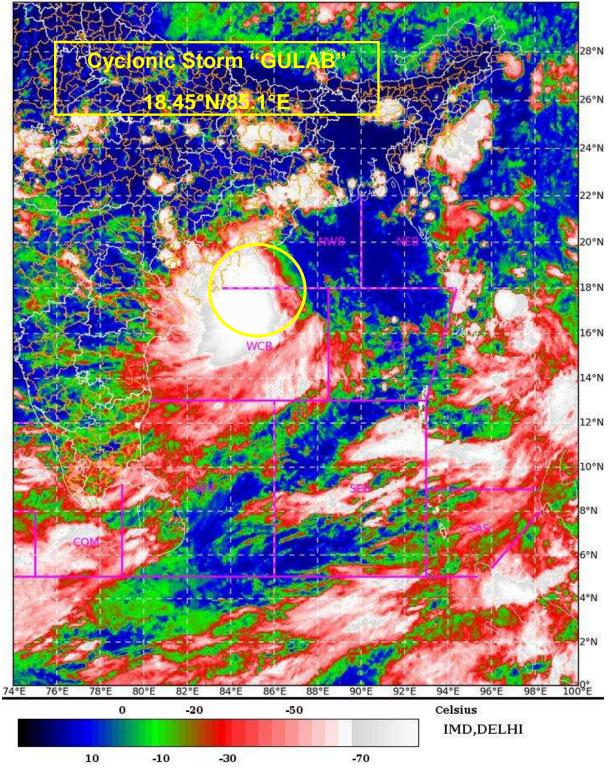
TIME OF ISSUE: 1550 HRS IST

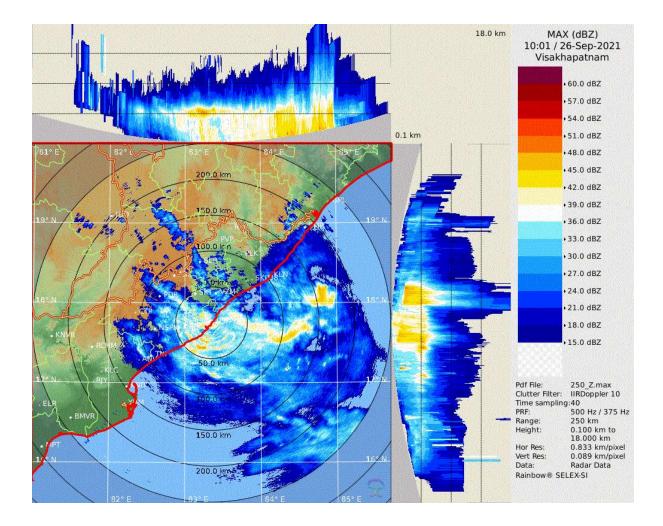
DATE/TIME (IST) OF	BASED ON 26-09-2021 (1530 HRS IST)
OBSERVATION	
LOCATION LATITUDE/LONGITUDE	THE CYCLONIC STORM 'GULAB' (PRONOUNCED AS 'Gul-Aab') LAY CENTRED AT 1530 HRS IST OF THE 26 TH SEP, 2021 OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL NEAR LATITUDE 18.45°N AND LONGITUDE 85.1°E, ABOUT 105 KM EAST-NORTHEAST OF KALINGAPATTNUM, 100 KM EAST- SOUTHEAST OF GOPLAPUR.
CURRENT INTENSITY NEAR CENTRE	75-85 KMPH GUSTING TO 95 KMPH
PAST MOVEMENT	MOVED NEARLY WESTWARDS WITH A SPEED OF 24 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, BY MID-NIGHT OF TODAY, THE 26TH SEPTEMBER, 2021. THE LANDFALL PROCESS WILL COMMENCE FROM EVENING (FROM 1800 HRS IST) OF TODAY.
FORECAST RAINFALL	 26TH 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.
	 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) 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 L1C Mercator 26-09-2021/(0930 to 0956) GMT 26-09-2021/(1500 to 1526) IST

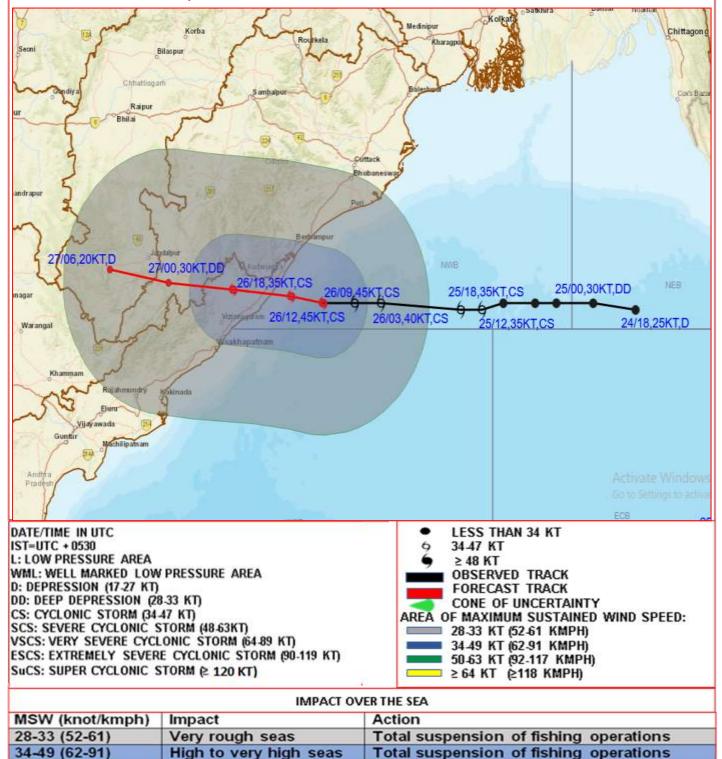






Reflectivity imagery from Doppler weather RADAR Vishakhapatnam based on 1531 hrs IST of 26th September 2021.

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM GULAB OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 0900 UTC OF 26TH SEPTEMBER, 2021



Total suspension of fishing operations

Total suspension of fishing operations

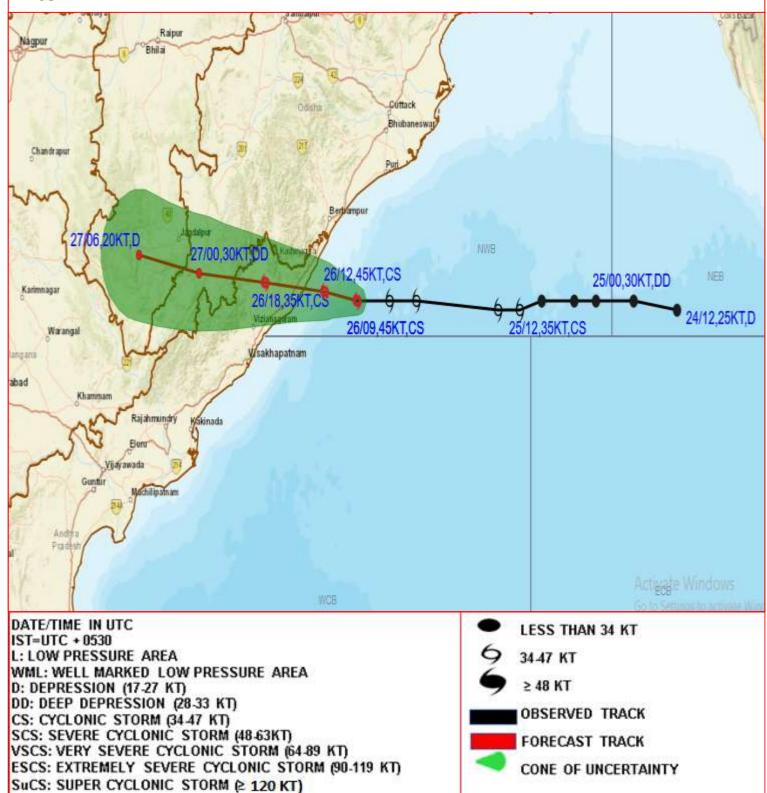
50-63 (92-117)

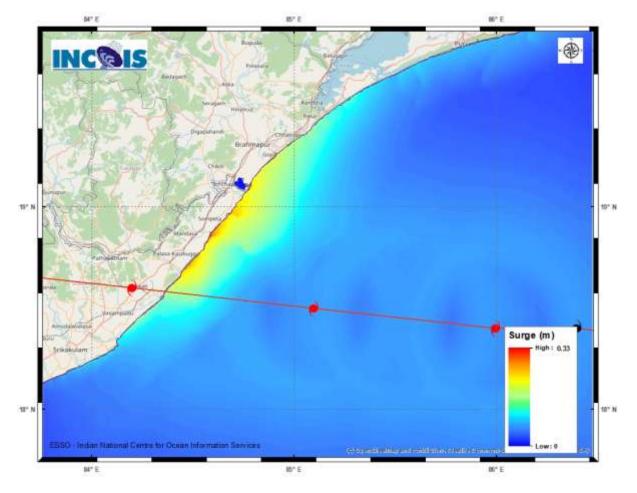
 $\geq 64 (\geq 118)$

Very high seas

Phenomenal

OBSERVED AND FORECAST TRACK OF CYCLONIC STORM GULAB OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 0900 UTC OF 26TH SEPTEMBER, 2021





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.

Forecasted Flash Flood Threat (PFFT) Till 1730 IST of 26.09.2021:

Moderate to High Threat very likely over few watersheds and neighborhoods in the Srikakulam, Vizianagaram districts of North Coastal Andhra Pradesh and adjoining Gajapati district of South Odisha Met Subdivisions in next 6 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted in map due to the persistence rainfall of Cyclonic Storm "Gulab" in next 6 hours.

24 hours Flash Flood Risk Outlook Till 1130 IST of 27.09.2021:

High Risk likely over few watersheds and neighborhoods of North Coastal Andhra Pradesh and adjoining South Odisha, South Chhattisgarh Met Subdivisions in next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted in map due to the expected rainfall of Cyclonic Storm "Gulab" approaching landfall in next 24 hours.

