

India Meteorological Department (Ministry of Earth Sciences)

HOURLY UPDATE ON CYCLONIC STORM 'GULAB'

BULLETIN NO. 06

DATE: 26-09-2021 TIME OF ISSUE: 1650 HRS IST

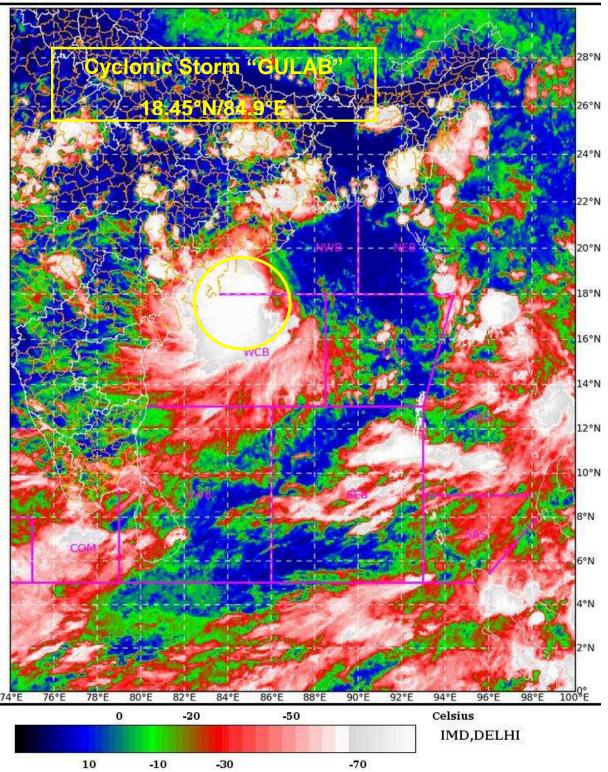
| DATE/TIME (IST) OF | BASED ON 26-09-2021 (1630 HRS IST) | |
|-------------------------------|---|--|
| OBSERVATION | | |
| LOCATION | THE CYCLONIC STORM 'GULAB' (PRONOUNCED AS 'Gul-Aab') | |
| LATITUDE/LONGITUDE | LAY CENTRED AT 1630 HRS IST OF THE 26 TH SEP, 2021 OVER | |
| | NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL | |
| | NEAR LATITUDE 18.45°N AND LONGITUDE 84.9°E, ABOUT 85 KM EAST-NORTHEAST OF KALINGAPATTNUM, 95 KM SOUTH OF | |
| | GOPLAPUR. | |
| CURRENT INTENSITY NEAR CENTRE | 75-85 KMPH GUSTING TO 95 KMPH | |
| PAST MOVEMENT | MOVED NEARLY WESTWARDS WITH A SPEED OF 25 KMPH DURING PAST 03 HOURS. | |
| FORECAST MOVEMENT | IT IS LIKELY TO MOVE NEARLY WESTWARDS AND CROSS | |
| AND INTENSITY | 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 AROUND 1800 HRS IST) 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. | |

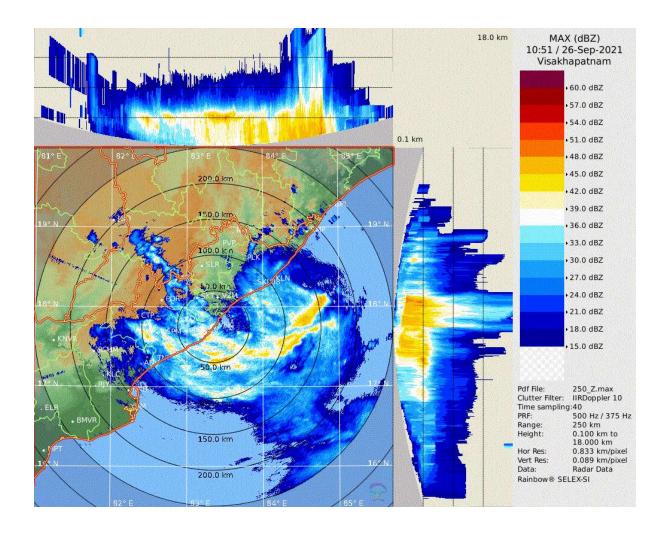
| FORECAST WIND SPEED (KMPH) AT THE TIME OF LANDFALL | 75-85 KMPH GUSTING TO 95 KMPH |
|---|--|
| FORECAST STORM SURGE | TIDAL WAVE OF ABOUT 0.5 M HEIGHT ABOVE THE ASTRONOMICAL TIDE LIKELY TO INUNDATE LOW LYING AREAS OF SRIKAKULAM, VIZIANAGARAM, GANJAM DISTRICTS DURING THE TIME OF LANDFALL. |
| OBSERVED RAINFALL (MM) (FROM 0830 HRS IST OF TODAY) AND WIND (KMPH) DATA | WIND: PURI-31, GOPLAPUR-26 RAINFALL: PURI-9, GOPALPUR-12 |

SAT : INSAT-3D IMG IMG_TIR1_TEMP 10.8 um 26-09-2021/(1030 to 1056) GMT 26-09-2021/(1600 to 1626) IST



L1C Mercator

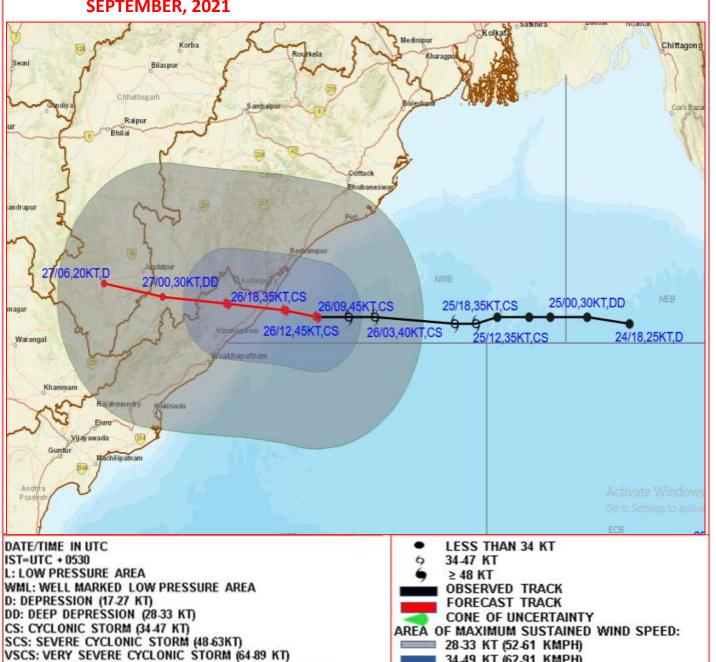




Reflectivity imagery from Doppler weather RADAR Vishakhapatnam based on 1620 hrs IST of 26^{th} September 2021.



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



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)

AREA OF MAXIMUM SUSTAINED WIND SPEEL

28-33 KT (52-61 KMPH)

34-49 KT (62-91 KMPH)

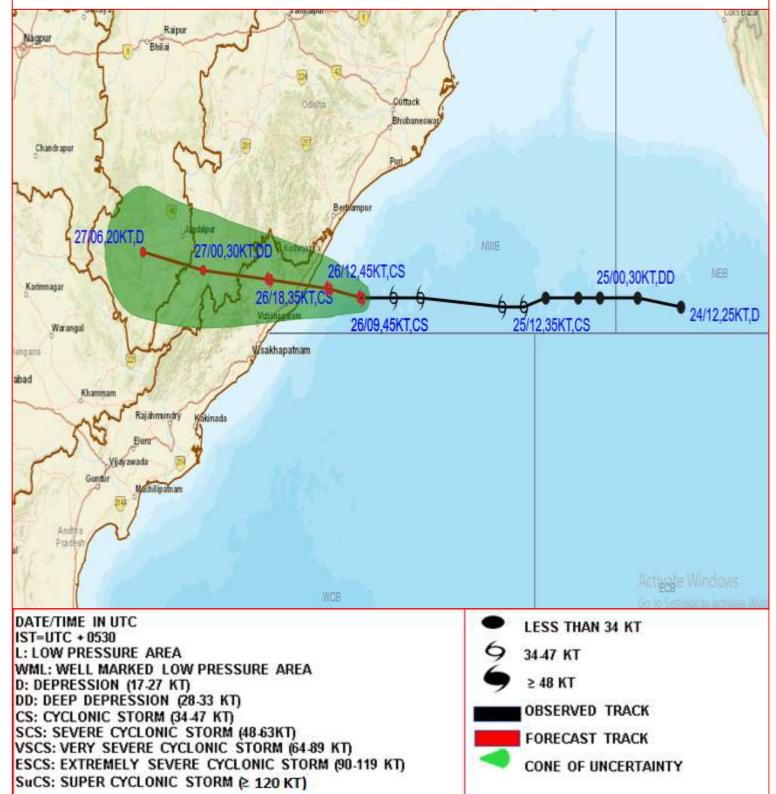
50-63 KT (92-117 KMPH)

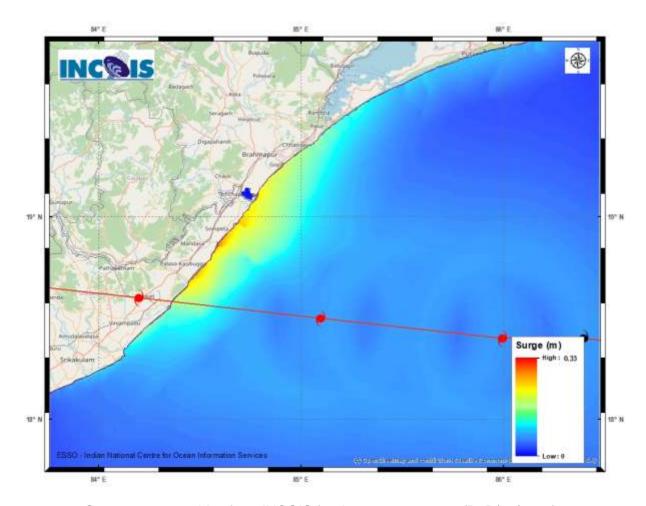
≥ 64 KT (≥118 KMPH)

| 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 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.

