

WTIO30 FMEE 060640

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 25/6/20202021

1.A MODERATE TROPICAL STORM 6 (DANILO)

2.A POSITION 2021/01/06 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 16.5 S / 75.4 E

(SIXTEEN DECIMAL FIVE DEGREES SOUTH AND

SEVENTY FIVE DECIMAL FOUR DEGREES EAST)

MOVEMENT: WEST 8 KT

3.A DVORAK ANALYSIS: 2.5/3.0/W 1.5/24 H

4.A CENTRAL PRESSURE: 994 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

6.A EXTENSION OF WIND BY QUADRANTS (KM):

28 KT NE: 75 SE: 720 SW: 465 NW: 95

34 KT NE: 0 SE: 95 SW: 110 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1005 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2021/01/06 18 UTC: 17.0 S / 73.5 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

28 KT NE: 45 SE: 260 SW: 260 NW: 95

34 KT NE: 0 SE: 30 SW: 75 NW: 0

24H: 2021/01/07 06 UTC: 17.1 S / 71.1 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

28 KT NE: 30 SE: 205 SW: 215 NW: 55

36H: 2021/01/07 18 UTC: 17.2 S / 68.5 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

28 KT NE: 30 SE: 250 SW: 240 NW: 55

48H: 2021/01/08 06 UTC: 17.3 S / 66.1 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

28 KT NE: 30 SE: 205 SW: 165 NW: 55

60H: 2021/01/08 18 UTC: 17.5 S / 63.8 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

28 KT NE: 220 SE: 315 SW: 445 NW: 55

72H: 2021/01/09 06 UTC: 18.0 S / 61.3 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

28 KT NE: 260 SE: 315 SW: 445 NW: 55

2.B LONGER-RANGE OUTLOOK:

96H: 2021/01/10 06 UTC: 19.0 S / 57.8 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

28 KT NE: 285 SE: 280 SW: 470 NW: 75

34 KT NE: 35 SE: 130 SW: 30 NW: 65

120H: 2021/01/11 06 UTC: 20.2 S / 54.4 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

28 KT NE: 55 SE: 165 SW: 100 NW: 75

34 KT NE: 35 SE: 130 SW: 45 NW: 65

2.C ADDITIONAL INFORMATION:

T=2.5 CI=3.0

DANILO STILL PRESENTS A SHEAR PATTERN WITH A CENTER LOCATED AT THE NORTHEASTERN EDGE OF THE THUNDERSTORM ACTIVITY. THIS DEEP CONVECTION HAS STRENGTHENED OVER THE LAST 6 HOURS BUT SHOWS A LOT OF FLUCTUATIONS. THE INTENSITY ESTIMATE IS BASED ON THE DIFFERENT ASCAT SWATHS OF THE MORNING WHICH SHOW MAXIMUM WINDS AT 35 KT IN THE SOUTHERN SEMICIRCLE.

IN TERMS OF TRACK FORECAST, DANILO IS MOVING WESTWARD UNDER THE INFLUENCE OF THE LOW TO MID-LEVELS SUBTROPICAL RIDGE. THIS TRACK SHOULD CONTINUE OVER THE NEXT 3 DAYS. AT THE END OF THE PERIOD, DANILO COULD MOVE MORE SOUTH-WESTWARDS WITH THE SHIFT OF THE SUBTROPICAL HIGHS TOWARDS THE EAST.

IN TERMS OF INTENSITY, THE FORECAST REMAINS VERY UNCERTAIN. THE SHEAR THAT IMPACTED DANILO SHOULD CONTINUE OVER THE NEXT TWO DAYS. IN THIS STILL FAVORABLE CONTEXT FOR DRY AIR INTRUSIONS, THE INTENSITY OF THE SYSTEM SHOULD REMAIN LOW OVER THE NEXT 2 TO 3 DAYS. OVER THE WEEKEND, THE ENVIRONMENTAL CONDITIONS COULD BECOME A LITTLE MORE CONDUCIVE FOR INTENSIFICATION WITH A GOOD UPPER LEVELS DIVERGENCE AND LOW SHEAR. HOWEVER, SURFACE CONVERGENCE SHOULD BE WEAK ON THE NORTH SIDE. SO THIS POSSIBLE INTENSIFICATION IS FAR FROM CERTAIN. THE MOST RELIABLE NUMERICAL GUIDANCES DIVERGE AT THIS TIME: RE-INTENSIFICATION SUGGESTED BY IFS AND FILLING BY GFS / HWRF.