

WTIO30 FMEE 061226

RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 2/2/20182019

1.A TROPICAL DEPRESSION 2

2.A POSITION 2018/11/06 AT 1200 UTC:

WITHIN 25 NM RADIUS OF POINT 9.5 S / 59.7 E

(NINE DECIMAL FIVE DEGREES SOUTH AND FIFTY NINE DECIMAL SEVEN DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 7 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 1000 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 30 KT

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

28 KT NE: SE: 140 SW: 140 NW:

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1011 HPA / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/11/07 00 UTC: 9.9 S / 57.9 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

24H: 2018/11/07 12 UTC: 10.6 S / 56.3 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

36H: 2018/11/08 00 UTC: 11.5 S / 55.3 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

48H: 2018/11/08 12 UTC: 12.4 S / 54.6 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

60H: 2018/11/09 00 UTC: 13.2 S / 54.3 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

72H: 2018/11/09 12 UTC: 13.7 S / 54.2 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2018/11/10 12 UTC: 13.9 S / 54.0 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

120H: 2018/11/11 12 UTC: 13.6 S / 53.2 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

2.C ADDITIONAL INFORMATION:

T=CI=2.5-

OVER THE LAST 6 HOURS, CONVECTION DID NOT WRAP OVER THE EASTERN SEMI-CIRCLE, PROBABLY BECAUSE OF A DRIER AIR INTRUSION IN THIS SECTOR. HOWEVER, STRONG CONVECTIVE BURSTS MAINTAINED OVER THE CIRCULATION CENTER. 89GHZ AND 36GHZ AMSR2 MW IMAGES STILL SHOW A SLIGHT WESTWARD TILT OF THE VORTEX. THE LOW LEVEL STRUCTURE APPEARS TO BE CONSOLIDATING.

THE WESTSOUTHWESTWARD MOTION OF TROPICAL DEPRESSION NB.2 IS CURRENTLY STEERED BY A LOW LEVEL RIDGE LOCATED IN THE SOUTH-EAST OF THE SYSTEM. WITH AN INTENSIFYING SYSTEM, THE MID-LEVELS PATTERNS WILL TAKE OVER AND THE PROGRESSION OF THE STORM SHOULD BE EVENTUALLY BLOCKED BY A HIGH GEOPOTENTIAL AREA LOCATED IN THE SOUTH-WEST. THE TRACK WILL THUS BEGIN TO BEND SOUTHWARD THURSDAY BEFORE A SIGNIFICANT SLOWING FRIDAY EVENING. AT LATE TAUS, THE MUCH WEAKER SYSTEM COULD BE TAKEN AWAY BY THE TRADE WINDS FLOW. THIS TRACK FORECAST IS BASED ON A IFS/GFS CONSENSUS. THE TWO MODELS HAVE A SIMILAR PHILOSOPHY BUT THE LAST TWO IFS RUNS PRESENT A LITTLE NORTHWARD OFFSET.

THE UPPER-LEVEL CONDITIONS WILL IMPROVE THIS EVENING, WITH THE DISAPPEARANCE OF THE VERTICAL WIND SHEAR AND THE GRADUAL STRENGTHENING OF A POLEWARD OUTFLOW CHANNEL. THEREFORE, THE SYSTEM IS FORECAST TO INTENSIFY AT A QUICKER PACE FROM TOMORROW. FROM THURSDAY EVENING, MID-TROPOSPHERIC DRY AIR LOCATED IN THE WEST COULD BE ADVECTED CLOSER TO THE SYSTEM'S CORE BY A STRENGTHENING SOUTH-WESTERLY WINDSHEAR ABOVE 400HPA. THEREFORE, THE STORM SHOULD BEGIN TO WEAKEN SIGNIFICANTLY. WITH THE QUASI-COMPLETE STOP FORECAST FRIDAY EVENING, THE UNDERLYING WATERS WILL BE COOLED QUICKLY AND PARTICIPATE TO THE WEAKENING.