

WTIO30 FMEE 050741

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 1/9/20182019

1.A TROPICAL DISTURBANCE 9

2.A POSITION 2019/02/05 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 12.4 S / 55.1 E

(TWELVE DECIMAL FOUR DEGREES SOUTH AND  
FIFTY FIVE DECIMAL ONE DEGREES EAST)

MOVEMENT: WEST-SOUTH-WEST 8 KT

3.A DVORAK ANALYSIS: 2.0/2.0/D 1.0/18 H

4.A CENTRAL PRESSURE: 1002 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 25 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

NIL

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS:

12H: 2019/02/05 18 UTC: 12.3 S / 54.1 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

24H: 2019/02/06 06 UTC: 12.4 S / 53.7 E, VENT MAX= 040 KT, MODERATE TROPICAL  
STORM

36H: 2019/02/06 18 UTC: 12.6 S / 53.8 E, VENT MAX= 045 KT, MODERATE TROPICAL  
STORM

48H: 2019/02/07 06 UTC: 12.9 S / 53.9 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM

60H: 2019/02/07 18 UTC: 13.9 S / 54.5 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM

72H: 2019/02/08 06 UTC: 15.4 S / 55.9 E, VENT MAX= 070 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK:

96H: 2019/02/09 06 UTC: 19.2 S / 61.6 E, VENT MAX= 090 KT, INTENSE TROPICAL  
CYCLONE

120H: 2019/02/10 06 UTC: 23.2 S / 69.1 E, VENT MAX= 080 KT, TROPICAL CYCLONE

2.C ADDITIONAL INFORMATION:

FT=CI=2.0

THE LOW PRESSURE AREA FORMED YESTERDAY WITHIN THE MONSOON TROUGH  
HAS INTENSIFIED OVER THE LAST 24 HOURS. THUNDERSTORM ACTIVITY HAS  
CONSOLIDATED WITHIN THE WESTERN SEMI-CIRCLE DUE TO SOME MODERATE

EASTERLY SHEAR. LATEST MW DATA SUGGEST SOME LACK OF ORGANISATION IN THE LOW LEVELS. THE INITIAL INTENSITY IS BASED ON THE DVORAK ANALYSIS.

THE SYSTEM IS MOVING CURRENTLY WESTWARDS OVER THE NORTHERN EDGE OF A LOW TO MID LEVEL SUBTROPICAL RIDGE. THIS RIDGE IS EXPECTED TO WEAKEN WITHIN THE NEXT 24/48 HRS AS A DEEP HIGH TO MID-LEVELS MID-LAT TROUGH IS EXPECTED PASS SOUTH OF THE MASCAREIGNES ISLANDS FROM THURSDAY. IN THE MEANTIME, A NEAR EQUATORIAL RIDGE IS EXPECTED TO BUILD TO THE NORTH-EAST OF THE SYSTEM. IN THIS ENVIRONMENT, THE SYSTEM IS EXPECTED SHOULD GRADUALLY SLOW DOWN AND MOVE LITTLE UP TO THURSDAY MORNING AS IT WILL BE LOCATED IN-BETWEEN THE TWO RIDGES. A NORTH-WESTWARDS DRIFT IS POSSIBLE DURING THAT TIME AS THE SUBTROPICAL RIDGE SHIFTS TO THE SOUTH-WEST. FROM THURSDAY AND UP TO THE END OF THE FORECAST PERIOD, THE SYSTEM IS EXPECTED TO ACCELERATE SOUTH-EASTWARDS WITHIN A DEEP NORTH-WESTERLY STEERING FLOW BETWEEN THE MID-LAT TROUGH TO THE SOUTH AND THE NEAR EQUATORIAL RIDGE.

THE PRESENT TRACK FORECAST IS BASED ON A IFS/UKMO MEAN TRACK CORRECTED FROM THE INITIAL EAST ERROR OF THE CENTER'S POSITION.

THE INTENSITY FORECAST IS MAINLY BASED ON A CLIMATOLOGICAL DEVELOPMENT ONCE THE SYSTEM WILL MOVE UNDER THE UPPER LEVEL RIDGE. A NEGATIVE FEEDBACK FROM THE SST IS POSSIBLE TOMORROW AS THE SYSTEM IS EXPECTED TO MOVE LITTLE.