

WTIO30 FMEE 230645

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

0.A WARNING NUMBER: 1/8/20172018

1.A TROPICAL DEPRESSION 8

2.A POSITION 2018/04/23 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 14.6 S / 52.1 E

(FOURTEEN DECIMAL SIX DEGREES SOUTH AND FIFTY TWO DECIMAL ONE DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 15 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 1.0/24 H

4.A CENTRAL PRESSURE: 1002 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :28 KM

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

28 KT NE: 280 SE: 310 SW: 190 NW: 190

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1011 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/04/23 18 UTC: 17.3 S / 53.4 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

24H: 2018/04/24 06 UTC: 19.9 S / 54.8 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

36H: 2018/04/24 18 UTC: 22.7 S / 56.2 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

48H: 2018/04/25 06 UTC: 24.3 S / 57.2 E, MAX WIND=035 KT, POST-TROPICAL DEPRESSION

60H: 2018/04/25 18 UTC: 25.3 S / 58.1 E, MAX WIND=030 KT, LOW

72H: 2018/04/26 06 UTC: 25.2 S / 59.1 E, MAX WIND=025 KT, LOW

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=CI=2.5-

LAST NIGHT, CONVECTIVE ACTIVITY INCREASED NEAR THE SYSTEM 08 CENTER. 18Z ASCAT DATA SHOWS THE EXISTENCE OF WINDS RANGING UP TO 20/25KT. SINCE, CLOUD PATTERN IMPROVED SIGNIFICANTLY WITH THE BUILDING OF A CURVED BAND. LAST MICROWAVE DATA (WINDSAT 0218Z) CONFIRM THE DEEPENING WITH A CONSOLIDATED INNER CIRCULATION. THEREFORE, TROPICAL DEPRESSION STATUS IS REACHED.

THE DEPRESSION IS MOVING RAPIDLY SOUTH-SOUTH-EASTWARDS, BETWEEN A RIDGE AT EAST AND A DEEP TROUGH AT WEST FROM WEDNESDAY AND THURSDAY, THE SYSTEM IS LIKELY TO SLOW DOWN WITH THE ARRIVAL OF A NEW RIDGE FROM THE WEST. THE LOW MAY THEN MOVE NORTH-EASTWARD. NUMERICAL GUIDANCE IS IN A GOOD AGREEMENT WITH THE FIRST PART OF THIS SCENARIO. UNCERTAINTY IS MORE IMPORTANT AT LONG RANGE.

DURING THE NEXT 12H, DEPRESSION 08 BENEFITS FROM A CONDUCTIVE UPPER ENVIRONMENT WITH AN EXCELLENT DIVERGENCE IN THE SOUTH-WESTERN QUADRANT. THE SYSTEM MAY REACH MODERATE TROPICAL STORM INTENSITY BY THE END OF THE DAY. WITH THE ARRIVAL OF THE UPPER DYNAMISM FROM THE WEST, THE SHEAR WILL PROGRESSIVELY INCREASE AND INDUCE A DRY AIR INTRUSION IN THE INNER CORE. TOMORROW, IN A MORE BAROCLINIC ENVIRONMENT, THE LOW IS EXPECTED TO LOOSE SOME TROPICAL CHARACTERISTICS. BY THE END OF THE WEEK, OVER COOLER WATER, STILL UNDERGOING A STRONG NORTH-WESTERLY UPPER CONSTRAINT, THE SYSTEM IS LIKELY TO FILL UP.