

WTIO30 FMEE 231316

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

0.A WARNING NUMBER: 2/8/20172018

1.A MODERATE TROPICAL STORM 8 (FAKIR)

2.A POSITION 2018/04/23 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 16.2 S / 52.9 E

(SIXTEEN DECIMAL TWO DEGREES SOUTH AND FIFTY TWO DECIMAL NINE DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 17 KT

3.A DVORAK ANALYSIS: 3.0/3.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 995 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 40 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

34 KT NE: 90 SE: 90 SW: 60 NW: 60

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 1000 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/04/24 00 UTC: 18.8 S / 54.2 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

24H: 2018/04/24 12 UTC: 21.5 S / 55.8 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

36H: 2018/04/25 00 UTC: 23.6 S / 56.9 E, MAX WIND=035 KT, POST-TROPICAL DEPRESSION

48H: 2018/04/25 12 UTC: 25.7 S / 58.1 E, MAX WIND=035 KT, POST-TROPICAL DEPRESSION

60H: 2018/04/26 00 UTC: 26.3 S / 58.7 E, MAX WIND=030 KT, LOW

72H: 2018/04/26 12 UTC: 25.6 S / 60.3 E, MAX WIND=025 KT, LOW

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=CI=3.0+

OVER THE PAST SIX HOURS, CLOUD PATTERN IMPROVED WITH A CURVED BAND WITH VERY COLD SUMMITS. CURVATURE IN INFRARED IMAGERY INCREASED CLOSE TO THE CENTER. MICROWAVE DATA AS IN 1122Z SSMI CONFIRM ALSO THE DEEPENING, WITH APPARENTLY AN EYE IN 37GHZ. GIVEN THAT DATA, SYSTEM WAS NAMED FAKIR BY MALAGASY METEOROLOGICAL SERVICES AT 11Z.

FAKIR KEEPS ON MOVING RAPIDLY SOUTH-SOUTH-EASTWARDS, BETWEEN A RIDGE AT EAST AND A DEEP UPPER 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 VERY GOOD AGREEMENT WITH THE FIRST PART OF THIS SCENARIO. UNCERTAINTY IS MORE IMPORTANT AT LONG RANGE WITH DIFFERENCES IN THE SLOWING DOWN AMONG THE GUIDANCE.

FAKIR INTENSIFIED RATHER RAPIDLY OVER THE LAST HOURS, BENEFITING FROM AN EXCELLENT DIVERGENCE IN THE SOUTHERN SEMI-CIRCLE. ITS SMALL SIZE ALSO HELPED IN THIS RHYTHM. HOWEVER THE CONDUCIVE PERIOD FOR DEEPENING IS COMING TO AN END TONIGHT. 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 MAY LOOSE TEMPORARILY 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.

FAKIR IS EXPECTED TO TRIGGER A SIGNIFICANT DETERIORATION OF THE WEATHER CONDITIONS IN THE MASCARENE ISLANDS, IN THE NEXT HOURS. INHABITANTS ARE THUS, INVITED TO FOLLOW REGULARLY THE UPDATES ON THIS SYSTEM.