

WTIO30 FMEE 060736

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 8/8/20182019

1.A SEVERE TROPICAL STORM 8 (FUNANI)

2.A POSITION 2019/02/06 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 16.8 S / 64.1 E

(SIXTEEN DECIMAL EIGHT DEGREES SOUTH AND
SIXTY FOUR DECIMAL ONE DEGREES EAST)

MOVEMENT: SOUTH 3 KT

3.A DVORAK ANALYSIS: 4.0/4.0/D 1.0/18 H

4.A CENTRAL PRESSURE: 988 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 50 KT

RADIUS OF MAXIMUM WINDS (RMW): 37 KM

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

28 KT NE: 280 SE: 220 SW: 150 NW: 110

34 KT NE: 150 SE: 130 SW: 90 NW: 70

48 KT NE: 60 SE: 60 SW: 40 NW: 40

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/02/06 18 UTC: 17.8 S / 64.4 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

24H: 2019/02/07 06 UTC: 19.1 S / 65.4 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM

36H: 2019/02/07 18 UTC: 20.7 S / 66.9 E, VENT MAX= 070 KT, TROPICAL CYCLONE

48H: 2019/02/08 06 UTC: 22.8 S / 68.7 E, VENT MAX= 075 KT, TROPICAL CYCLONE

60H: 2019/02/08 18 UTC: 25.4 S / 71.3 E, VENT MAX= 075 KT, TROPICAL CYCLONE

72H: 2019/02/09 06 UTC: 28.5 S / 74.2 E, VENT MAX= 065 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK:

96H: 2019/02/10 06 UTC: 35.2 S / 77.0 E, VENT MAX= 050 KT, POST-TROPICAL
DEPRESSION

120H: 2019/02/11 06 UTC: 41.3 S / 78.7 E, VENT MAX= 045 KT, EXTRATROPICAL
DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=4.0-

AT THE END OF THE NIGHT, LAST MICROWAVES DATA SHOW THE CONSOLIDATION
OF THE LOW LEVEL EYE (SSMIS 0150Z), AND THE FIRST VISIBLE SATELLITE

IMAGERY SHOWS A ILL-DEFINED EYE WITHIN A STRUCTURES OF CONVECTION REMAINING VERY DISSYMETRICAL (MAIN CONVECTION IN THE EASTERN SEMI-CERCLE).

LAST ASCATAL DATA CONFIRM THE INTENSIFICATION, AND ALSO THE DISSYMETRY OF THE WINDS, WITH THE STRONGER WINDS IN THE EASTERN PART OF THE CIRCULATION.

CONVECTION CONTINUED TO STRENGTHEN AROUND THE CENTRE, DEFINING A CENTRAL EMBEDDED IN THE MASS PATTERN FOR THE MODERATE TROPICAL STORM FUNANI. WITH A CENTRE LOCATED IN THE WESTERN SECTOR OF THE CDO, THE DVORAK ANALYSIS ALLOWS TO ESTIMATE WINDS OF ABOUT 45KT, DUE TO THE LACK OF RECENT ASCAT OR MICROWAVE DATA. THE OLD ASCAT AND MICROWAVE DATA SUGGEST A FAIRLY WIDE WIND STRUCTURE THAT SEEMS TO HAVE DIFFICULTY CONTRACTING.

NO CHANGE IN TERMS OF FORECASTING WITH MODELS THAT REMAIN IN GOOD AGREEMENT, CORRECTLY REPRESENTING THE SYNOPTIC CONFIGURATION. FUNANI HAS SLOWED DOWN SOUTHWARDS. IT IS EXPECTED TO TRACK PROGRESSIVELY SOUTH-EASTERLY TODAY FOLLOWING THE SHIFTING OF THE LOW/MID LEVEL RIDGE TO THE EAST. THE DEEP MID-LATITUDES TROUGH THUS OPENS AN EVACUATION CHANNEL TO THE SOUTH-EAST FROM THURSDAY BY ENCOURAGING THE ACCELERATION OF FUNANI WHICH HEADING TOWARDS THE MID-LATITUDES.

ON THIS TRACK, ATMOSPHERIC AND OCEANIC ENVIRONMENTAL CONDITIONS ARE RATHER GOOD UNTIL THURSDAY. LOW LEVEL EQUATORWARD FEEDING REMAINS VERY GOOD AND WEAK VERTICAL WINDSHEAR PERSISTS OVER THE NEXT 24 HOURS. HOWEVER, WITH FAIRLY LARGE MAXIMUM WIND EXTENSIONS AND A FAIRLY MARKED ASYMMETRY BETWEEN THE EASTERN AND WESTERN SEMI-CIRCLE, THE INTENSIFICATION CAN ONLY BE GRADUAL. FROM THURSDAY 18UTC PASSING SOUTH OF 20°S, THE WESTERN VERTICAL WINDSHEAR AHEAD THE UPPER LEVEL TROUGH SHOULD BECOME MODERATE TO STRONG. ITS INFLUENCE SHOULD BE ATTENUATED BY THE ACCELERATION SOUTHEASTERWARDS OF THE SYSTEM, BUT IT SHOULD HOWEVER ENDS TO WEAKEN THE SYSTEM. FROM THE END OF THE WEEK, THE SYSTEM SHOULD LOOSE ITS PURELY TROPICAL CHARACTERISTICS AS IT INTERACTS WITH THE SUBTROPICAL JET.

THE TRACK FORECAST LEAVES FUNANI AT A DISTANCE OF NEARLY 200KM FROM THE ISLAND OF RODRIGUES FROM TOMORROW. HOWEVER, PERIPHERAL BANDS COULD CONCERN THE ISLAND TODAY.