

WTIO30 FMEE 081257

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

0.A WARNING NUMBER: 17/8/20182019

1.A TROPICAL CYCLONE 8 (FUNANI)

2.A POSITION 2019/02/08 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 24.0 S / 70.7 E

(TWENTY FOUR DECIMAL ZERO DEGREES SOUTH AND
SEVENTY DECIMAL SEVEN DEGREES EAST)

MOVEMENT: SOUTH-EAST 15 KT

3.A DVORAK ANALYSIS: 4.5/5.0/W 1.5/24 H

4.A CENTRAL PRESSURE: 960 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 80 KT

RADIUS OF MAXIMUM WINDS (RMW): 93 KM

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

28 KT NE: 370 SE: 330 SW: 190 NW: 280

34 KT NE: 280 SE: 220 SW: 110 NW: 200

48 KT NE: 220 SE: 150 SW: 110 NW: 190

64 KT NE: 170 SE: 150 SW: 110 NW: 150

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/02/09 00 UTC: 27.0 S / 72.6 E, VENT MAX= 070 KT, TROPICAL CYCLONE

24H: 2019/02/09 12 UTC: 29.8 S / 75.5 E, VENT MAX= 060 KT, POST-TROPICAL
DEPRESSION

36H: 2019/02/10 00 UTC: 33.3 S / 78.1 E, VENT MAX= 050 KT, POST-TROPICAL
DEPRESSION

48H: 2019/02/10 12 UTC: 37.2 S / 80.2 E, VENT MAX= 050 KT, POST-TROPICAL
DEPRESSION

60H: 2019/02/11 00 UTC: 44.6 S / 83.2 E, VENT MAX= 050 KT, EXTRATROPICAL
DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=4.5;CI=5.0+

OVER THE LAST 6 HOURS, CLOUD PATTERN HAS DETERIORATED AS A RESULT OF

THE STRONG WESTERN VERTICAL WINDSHEAR. THE LAST VISIBLE IMAGERIES OF THE DAY SHOW A PARTIALLY EXPOSED CIRCULATION OVER THE WESTERN QUADRANT WITH A CENTER ON THE WESTERN EDGE OF THE DEEP CONVECTION. THE CURRENT INTENSITY ASSESSMENT IS IN GOOD AGREEMENT WITH ADT FROM CIMSS.

FUNANI KEEPS ON ACCELERATING SOUTH-EASTWARD, STEERED BY THE EASTERN SIDE OF A DEEP UPPER-TO-MID LEVEL TROUGH CIRCULATING FROM THE SOUTH-WEST AND BY A VANISHING RIDGE IN THE EAST. THE AVAILABLE GUIDANCE REMAIN IN RATHER GOOD AGREEMENT OVER THIS SCENARIO ALTHOUGH THE DISPERSION OF THE DETERMINISTIC MODELS AND THE EPS ENSEMBLE INCREASES ONCE FUNANI CROSSES THE 30TH PARALLEL.

THE SYSTEM IS NOW EMBEDDED WITHIN THE STRONG UPPER LEVEL WESTERLIES ASSOCIATED TO THE DEEP UPPER LEVEL TROUGH. TOMORROW, THE SYSTEM IS FORECASTED TO LOOSE ITS PURELY TROPICAL CHARACTERISTICS AS IT INTERACTS WITH THE SUBTROPICAL JET STREAM AND AS IT EVOLVES OVER COOLER AND COOLER SST. HOWEVER, THE WINDS ASSOCIATED TO FUNANI SHOULD REMAIN RATHER STRONG AS IT EVACUATES TOWARD THE MID-LATITUDES, THANKS TO BAROCLINIC PROCESSES.