Direction Interrégionale de Météo-France pour l'Océan Indien
50 Boulevard du Chaudron
97490 Sainte-Clotilde
Tél : 0262 92 11 00
Fax Exploitation : 0262 92 11 48
Fax Direction : 0262 92 11 47

WTIO30 FMEE 091312
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 21/8/20182019
1.A SEVERE TROPICAL STORM 8 (FUNANI)

2.A POSITION 2019/02/09 AT 1200 UTC:
WITHIN 20 NM RADIUS OF POINT 29.9 S / 76.1 E
(TWENTY NINE DECIMAL NINE DEGREES SOUTH AND
SEVENTY SIX DECIMAL ONE DEGREES EAST)
MOVEMENT: SOUTH-EAST 20 KT

3.A DVORAK ANALYSIS: 3.5/3.5/S 0.0/6 H

4.A CENTRAL PRESSURE: 977 HPA
5.A MAX AVERAGE WIND SPEED (10 MN): 55 KT
RADIUS OF MAXIMUM WINDS (RMW): 56 KM

6.A EXTENSION OF WIND BY QUADRANTS (KM):
28 KT NE: 370 SE: 460 SW: 150 NW: 280
34 KT NE: 280 SE: 280 SW: 130 NW: 190
48 KT NE: 150 SE: 90 SW: 0 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1005 HPA / 500 KM
8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:
12H: 2019/02/10 00 UTC: 33.2 S / 78.2 E, VENT MAX= 050 KT, POST-TROPICAL DEPRESSION
24H: 2019/02/10 12 UTC: 37.7 S / 80.4 E, VENT MAX= 045 KT, POST-TROPICAL DEPRESSION
36H: 2019/02/11 00 UTC: 43.7 S / 83.6 E, VENT MAX= 035 KT, EXTRATROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK:
NIL

2.C ADDITIONAL INFORMATION:
T=CI=3.5

FUNANI'S CONVECTION CONTINUES TO DECREASE, UNDER THE EFFECT OF STRONG VERTICAL WIND SHEAR. THE CENTRE REMAINS ON THE SOUTHEAST EDGE OF THE STRONGEST CONVECTIVE ACTIVITY. A DVORAK ANALYSIS IN SHEAR PATTERN OF 3.5 CAN BE DONE BUT DUE TO ITS FAST DISPLACEMENT, THE MAXIMUM WINDS REMAIN ESTIMATED AT 55KT.

NO CHANGE IN THE FORECASTED TRACK OF FUNANI : THE SYSTEM CONTINUES ITS RAPID DISPLACEMENT TO THE SOUTHEAST, STEERED BY THE EASTERN SIDE OF A DEEP UPPER-TO-MID LEVEL TROUGH. ON THIS TRACK, FUNANI MOVES SOUTHWARD AND IS CAUGHT IN THE CIRCULATION OF SOUTHERN LATITUDES.

THE SYSTEM IS NOW EMBEDDED WITHIN THE STRONG UPPER LEVEL WESTERLIES ASSOCIATED TO THE DEEP UPPER LEVEL TROUGH, DEFINING A HIGHLY WINDSHEAR ENVIRONMENT. FROM SUNDAY, 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 AND ITS HIGH SPEED OF TRACK.

DUE TO ITS SOUTHERN LATITUDE, THIS ADVISORY IS THE LAST ONE ON THIS SYSTEM. FURTHER INFORMATION ON THIS SYSTEM WITHIN THE NEXT FEW DAYS WILL BE AVAILABLE UNDER FQIO21 FMEE HEADER.