

WTIO30 FMEE 041232

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 1/3/20212022

1.A TROPICAL DEPRESSION 3

2.A POSITION 2022/02/04 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 18.3 S / 83.5 E

(EIGHTEEN DECIMAL THREE DEGREES SOUTH AND
EIGHTY THREE DECIMAL FIVE DEGREES EAST)

MOVEMENT: SOUTH-WEST 6 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 0.5/12 H

4.A CENTRAL PRESSURE: 995 HPA

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

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

28 KT NE: 0 SE: 0 SW: 335 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 1900 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/02/05 00 UTC: 18.6 S / 83.1 E, VENT MAX= 030 KT, TROPICAL DEPRESSION
28 KT NE: 0 SE: 0 SW: 370 NW: 0

24H: 2022/02/05 12 UTC: 19.2 S / 82.3 E, VENT MAX= 025 KT, REMNANT LOW

36H: 2022/02/06 00 UTC: 19.9 S / 80.8 E, VENT MAX= 020 KT, REMNANT LOW

48H: 2022/02/06 12 UTC: 20.7 S / 79.4 E, VENT MAX= 020 KT, REMNANT LOW

60H: 2022/02/07 00 UTC: 21.9 S / 77.7 E, VENT MAX= 015 KT, FILLING UP

72H: 2022/02/07 12 UTC: 22.7 S / 75.7 E, VENT MAX= 015 KT, DISSIPATING

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=CI=2.5-.

DURING THE LAST SIX HOURS, THE CONVECTION HAS DEVELOPED WELL UNDER

THE BENEFICIAL ACTION OF THE APPROACHING JET FROM THE SOUTHWEST. THE CENTER IS ON THE NORTHEASTERN EDGE OF THIS RELATIVELY RECENT CONVECTION. THE STRONGEST WINDS ARE MAINLY LOCATED FAR FROM THE CENTER IN THE SOUTHWEST QUADRANT.

THE WINDOW OF INTENSIFICATION ASSOCIATED WITH THE APPROACH OF THE JET SHOULD CLOSE RAPIDLY FROM THE NEXT NIGHT, WITH THE INCREASE OF THE NORTH-WESTERN SHEAR (OF THE ORDER OF 15/20KT ON THE DATA OF THE CIMMS OF 09UTC), FORCING THE INTRUSION OF DRY AIR PRESENT IN THE WEST OF THE SYSTEM, AND WEAKENING DURABLY THE SYSTEM.

THE MOVEMENT IS IN GENERAL SOUTH-WEST DIRECTION SLOWLY FOR THE NEXT 24 HOURS, BEFORE ACCELERATING PROGRESSIVELY IN SOUTH-WEST DIRECTION WITH THE CONSTRUCTION OF A RIDGE OF HIGH PRESSURE IN THE SOUTHEAST OF THE SYSTEM.