

WTIO30 FMEE 280626

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 2/9/20202021

1.A TROPICAL DEPRESSION 9

2.A POSITION 2021/01/28 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 18.8 S / 85.5 E

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

MOVEMENT: WEST 13 KT

3.A DVORAK ANALYSIS: 2.5/2.5/S 0.0/24 H

4.A CENTRAL PRESSURE: 1001 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: 205 SW: 165 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1008 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2021/01/28 18 UTC: 18.1 S / 81.9 E, VENT MAX= 030 KT, TROPICAL DEPRESSION
28 KT NE: 0 SE: 165 SW: 165 NW: 0

24H: 2021/01/29 06 UTC: 17.5 S / 78.1 E, VENT MAX= 030 KT, TROPICAL DEPRESSION
28 KT NE: 0 SE: 165 SW: 165 NW: 0

36H: 2021/01/29 18 UTC: 17.0 S / 74.7 E, VENT MAX= 025 KT, TROPICAL DISTURBANCE

48H: 2021/01/30 06 UTC: 16.2 S / 70.7 E, VENT MAX= 025 KT, TROPICAL DISTURBANCE

60H: 2021/01/30 18 UTC: 15.8 S / 67.5 E, VENT MAX= 020 KT, TROPICAL DISTURBANCE

72H: 2021/01/31 06 UTC: 15.3 S / 65.0 E, VENT MAX= 020 KT, TROPICAL DISTURBANCE

2.B LONGER-RANGE OUTLOOK:

96H: 2021/02/01 06 UTC: 14.5 S / 59.8 E, VENT MAX= 020 KT, FILLING UP

120H: 2021/02/02 06 UTC: 14.1 S / 55.7 E, VENT MAX= 020 KT, FILLING UP

2.C ADDITIONAL INFORMATION:

T=CI=2.5-

THE CLOUD CONFIGURATION IS A SHEARED CONFIGURATION WHOSE CONVECTIVE ACTIVITY IS LOCATED FAR FROM THE CENTER IN THE SOUTHERN QUADRANT OF THE CIRCULATION. DEEP CONVECTION THE DEEP CONVECTION REGAINED IN INTENSITY AT THE END OF THE NIGHT, BUT THE CENTER OF LOW LEVELS REMAINS COMPLETELY EXPOSED ON THE VISIBLE SATELLITE IMAGES.

ACCORDING TO THE LAST ASCAT-C PASS OF 03UTC, IT APPEARS THAT THE STRONGEST WINDS ARE OF THE ORDER OF 30KT AND ARE LOCATED ONLY FAR FROM THE CENTRE WITHIN THE GRADIENT IN THE SOUTHERN SEMICIRCLE OF THE CIRCULATION.

THE 09 SYSTEM IS IN AN ENVIRONMENT UNFAVORABLE TO INTENSIFICATION WITH DRY AIR PRESENT AT HIGH ALTITUDE (MAINLY IN THE WESTERN AND NORTHERN SECTOR). THE NORTHERLY VERTICAL WIND SHEAR HAS WEAKENED A BIT ACCORDING TO THE CIMMS DATA, BUT CONTRIBUTES A LITTLE MORE TO LOCALIZE THE CONVECTION ONLY IN THE SOUTHERN QUADRANT.

IN TERMS OF TRACK FORECAST, THE 09 SYSTEM IS UNDER THE INFLUENCE OF THE SUBTROPICAL RIDGE WHICH IS LOCATED IN THE SOUTHEAST OF THE BASIN AND WHICH IS WELL PRESENT AT ALL LEVELS OF THE ATMOSPHERE. IN THE COURSE OF THE TIMES, THIS RIDGE STRENGTHENS AND MAINTAINS A WEST-NORTHWEST DIRECTIONAL FLOW ON THE TROPICAL DEPRESSION WHICH WILL KEEP GLOBALLY THIS TRACK THROUGHOUT ITS LIFE. ALL THE GUIDES ARE IN GOOD AGREEMENT ON THIS SCENARIO.

AS REGARDS THE FORECAST OF INTENSITY, THE 09 SYSTEM IS AND WILL REMAIN IN AN ENVIRONMENT UNFAVOURABLE TO INTENSIFICATION: PRESENCE OF DRY AIR AND STRONG SHEAR AT THE WESTERN EDGE OF THE SYSTEM.

DESPITE THE WEAKENING OF THIS SHEAR OVER THE NEXT 48 HOURS, DRY AIR IS STILL PRESENT AND REMAINS THE MAIN LIMITING FACTOR TO THE INTENSIFICATION OF THE SYSTEM.

THE MAXIMUM WINDS WILL REMAIN CLOSE TO 30 KNOTS BEFORE WEAKENING PROGRESSIVELY FROM SUNDAY TO LET THE SYSTEM FILL UP PROGRESSIVELY DURING ITS TRANSIT NORTH OF THE MASCARENES ISLANDS.

FOR THE MOMENT, THIS LOW INTENSITY SYSTEM DOES NOT PRESENT ANY PARTICULAR RISK FOR THE INHABITED LANDS.