

WTIO30 FMEE 160648

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 3/2/20202021

1.A TROPICAL DEPRESSION 2

2.A POSITION 2020/11/16 AT 0600 UTC:

WITHIN 30 NM RADIUS OF POINT 10.0 S / 71.5 E

(TEN DECIMAL ZERO DEGREES SOUTH AND
SEVENTY ONE DECIMAL FIVE DEGREES EAST)

MOVEMENT: EAST 20 KT

3.A DVORAK ANALYSIS: 1.5/1.5/S 0.0/6 H

4.A CENTRAL PRESSURE: 999 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: 190 SE: 0 SW: 0 NW: 240

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

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS:

12H: 2020/11/16 18 UTC: 11.1 S / 73.9 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

24H: 2020/11/17 06 UTC: 13.2 S / 74.8 E, VENT MAX= 025 KT, FILLING UP

36H: 2020/11/17 18 UTC: 14.8 S / 74.8 E, VENT MAX= 025 KT, FILLING UP

48H: 2020/11/18 06 UTC: 19.0 S / 74.3 E, VENT MAX= 020 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

FT=CI=1.5

THE CONFIGURATION HAS CHANGED LITTLE IN THE LAST 6 HOURS. IT REMAINS STRONGLY SHEARED WITH INTENSE BURST OF CONVECTION OCCURRING NEAR THE CENTER. 0338Z SCATSAT SWATH STILL SHOW NEAR GALE FORCE WINDS IN THE NORTHERN SEMI-CIRCLE.

THE SYSTEM CONTINUES ON A GENERAL EASTWARD TRACK WITHIN A STEERING FLOW DRIVEN BY A WEST-EQUATORIAL FLOW TO THE NORTH AND THE NORTHERN PORTION OF ALICIA'S CIRCULATION TO THE SOUTH. THE SYSTEM IS EXPECTED TO MAKE A SOUTH-EASTERN THEN SOUTHERN TURN IN A STEERING FLOW MAINLY

DRIVEN BY ALICIA'S CIRCULATION. THE MODELS MOSTLY AGREE ON THIS TRACK PHILOSOPHY.

ENVIRONMENTAL CONDITIONS REMAIN UNFAVORABLE FOR THE INTENSIFICATION OF THE SYSTEM DUE TO THE PERSISTENCE OF A STRONG EASTERLY SHEAR. THE SURGE OF THE EQUATORIAL WESTERLIES IN THE LOW AND MID-LEVELS REMAINS THE MAIN DRIVER OF THE INTENSIFICATION OF THIS SYSTEM. THE SYSTEM IS EXPECTED TO REMAIN AT SIMILAR INTENSITY AND STRUCTURE OVER THE NEXT HOURS AS LONG AS THE EQUATORIAL DYNAMICS REMAIN PRESENT AND THEN TO WEAKEN DUE TO LACK OF CONVERGENCE IN THE LOW-LEVELS DESPITE A DECREASING SHEAR. ON THIS SCENARIO, GALE FORCE WINDS ARE POSSIBLE LOCALLY IN THE SHORT TERM IN THE NORTHERN SEMICIRCLE. IT CANNOT BE COMPLETELY EXCLUDED IN THIS INTERVAL THAT A MORE GENERALIZED GALE FORCE WINDS MAY DEVELOP BUT THIS PROBABILITY REMAINS VERY LOW FOR THE MOMENT.