

WTIO30 FMEE 161234

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 4/2/20202021

1.A TROPICAL DEPRESSION 2

2.A POSITION 2020/11/16 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 9.6 S / 73.0 E

(NINE DECIMAL SIX DEGREES SOUTH AND
SEVENTY THREE DECIMAL ZERO DEGREES EAST)

MOVEMENT: EAST 18 KT

3.A DVORAK ANALYSIS: 1.5/1.5/S 0.0/0 H

4.A CENTRAL PRESSURE: 1000 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): 1003 HPA / 300 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS:

12H: 2020/11/17 00 UTC: 11.3 S / 74.4 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

24H: 2020/11/17 12 UTC: 13.2 S / 74.7 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

36H: 2020/11/18 00 UTC: 15.4 S / 74.0 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

FT=CI=1.5

OVER THE LAST HOURS, THE INNER CIRCULATION BECAME APPARENT ON VISIBLE IMAGES ON THE SIDE OF THE DEEP CONVECTION. HOWEVER THE SYSTEM IS STILL MOVING RAPIDLY EASTWARD SUGGESTING THAT THE WESTERLY FLOW IS STILL STRONG IN THE NORTHERN SEMI-CIRCLE. INTENSITY IS THUS MAINTAINED AT 30KT.

THE SYSTEM SHOULD START BENDING SOUTHWARD IN THE NEXT HOURS IN THE WAKE OF ALICIA 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.

WITH NO RENEWED DEEPENING, THIS WILL BE THE LAST WARNING ON THIS SYSTEM.