

WTIO30 FMEE 150643

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 3/12/20192020

1.A MODERATE TROPICAL STORM 12 (JERUTO)

2.A POSITION 2020/04/15 AT 0600 UTC:

WITHIN 25 NM RADIUS OF POINT 15.8 S / 84.5 E

(FIFTEEN DECIMAL EIGHT DEGREES SOUTH AND

EIGHTY FOUR DECIMAL FIVE DEGREES EAST)

MOVEMENT: WEST-SOUTH-WEST 10 KT

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

4.A CENTRAL PRESSURE: 1000 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW): 37 KM

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

28 KT NE: 0 SE: 130 SW: 170 NW: 0

34 KT NE: 0 SE: 90 SW: 100 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1011 HPA / 800 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2020/04/15 18 UTC: 17.0 S / 83.2 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

24H: 2020/04/16 06 UTC: 18.2 S / 81.7 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

36H: 2020/04/16 18 UTC: 18.6 S / 80.8 E, VENT MAX= 025 KT, FILLING UP

48H: 2020/04/17 06 UTC: 18.8 S / 80.9 E, VENT MAX= 020 KT, REMNANT LOW

60H: 2020/04/17 18 UTC: 18.3 S / 80.8 E, VENT MAX= 020 KT, REMNANT LOW

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

FT=CI=2.5+

DESPITE THE OBVIOUS INFLUENCE OF THE NORTHWESTERLY UPPER WIND SHEAR, STRONG CONVECTIVE BURSTS HAVE MANAGED TO RESIST CLOSE TO THE CENTER OVER THE LAST 12 HRS. THE MW IMAGES OF THE NIGHT (2154Z AND 0112Z SSMIS SWATH) ILLUSTRATE THIS AND ALSO REVEAL A RATHER WELL-DEFINED CENTRAL CIRCULATION. 0330Z ASCAT-B AND ASCAT-C SWATH BOTH SHOW GALE FORCE WINDS OVER A LARGE PORTION OF THE SOUTHERN SEMI-CIRCLE. THIS ASYMETRIC WIND DISTRIBUTION IS EXPLAINED BY THE PRESSURE GRADIENT CAUSED BY A

STRONG HIGH PRESSURE CELL IN THE SOUTH.

THE RSMC DVORAK INTENSITY ESTIMATE IS IN AGREEMENT WITH THESE SCATT DATA AS WELL AS WITH THE AVAILABLE OBJECTIVE ESTIMATES (CIMSS ADT AND SATCON). CONSEQUENTLY, THE SYSTEM HAS BEEN NAMED JERUTO AT 06Z.

THE SYSTEM IS TRACKING OVER THE NORTH-WESTERN EDGE OF THE LOW/MID-LEVEL RIDGE. A GENERALLY SOUTHWESTWARDS TRACK IS EXPECTED UNTIL THURSDAY NIGHT. FRIDAY, ONCE THE SYSTEM HAS WEAKENED, THE STEERING FLOW SHOULD COME BACK DOWN IN THE LOW LEVELS, WHICH SHOULD PREVENT THE RESIDUAL LOW TO EVACUATE TOWARDS THE MID-LATITUDES.

THE WINDOW OF FAVOURABLE CONDITIONS IS CLOSING TONIGHT, WITH THE INCREASING NORTH-WESTERLY SHEAR DRIVEN BY A SUBTROPICAL JET BRANCH APPROACHING FROM THE WEST, ASSOCIATED WITH MID-LEVEL DRY AIR INTRUSIONS. FROM FRIDAY, THE LOW IS FORECAST TO QUICKLY DISSOLVE WHILE REMAINING STATIONARY OR SLOWLY DRIFTING NORTH-WESTWARD.

THIS SYSTEM IS NOT EXPECTED TO THREATEN ANY INHABITED AREAS.