

WTIO30 FMEE 031241
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 9/10/20182019

1.A SEVERE TROPICAL STORM 10 (HALEH)

2.A POSITION 2019/03/03 AT 1200 UTC:
WITHIN 20 NM RADIUS OF POINT 15.5 S / 73.6 E
(FIFTEEN DECIMAL FIVE DEGREES SOUTH AND
SEVENTY THREE DECIMAL SIX DEGREES EAST)
MOVEMENT: SOUTH 8 KT

3.A DVORAK ANALYSIS: 4.0/4.0/D 0.5/12 H

4.A CENTRAL PRESSURE: 982 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 60 KT
RADIUS OF MAXIMUM WINDS (RMW): 65 KM

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

28 KT NE: 240 SE: 370 SW: 430 NW: 170

34 KT NE: 150 SE: 260 SW: 260 NW: 130

48 KT NE: 80 SE: 80 SW: 80 NW: 60

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 900 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/04 00 UTC: 16.6 S / 73.4 E, VENT MAX= 070 KT, TROPICAL CYCLONE

24H: 2019/03/04 12 UTC: 17.6 S / 73.0 E, VENT MAX= 080 KT, TROPICAL CYCLONE

36H: 2019/03/05 00 UTC: 18.5 S / 72.5 E, VENT MAX= 085 KT, TROPICAL CYCLONE

48H: 2019/03/05 12 UTC: 19.5 S / 72.0 E, VENT MAX= 090 KT, INTENSE TROPICAL
CYCLONE

60H: 2019/03/06 00 UTC: 20.5 S / 70.9 E, VENT MAX= 095 KT, INTENSE TROPICAL
CYCLONE

72H: 2019/03/06 12 UTC: 21.7 S / 69.8 E, VENT MAX= 090 KT, INTENSE TROPICAL
CYCLONE

2.B LONGER-RANGE OUTLOOK:

96H: 2019/03/07 12 UTC: 24.3 S / 67.7 E, VENT MAX= 065 KT, TROPICAL CYCLONE

120H: 2019/03/08 12 UTC: 27.5 S / 65.4 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

2.C ADDITIONAL INFORMATION:

T=CI=4.0+

DURING THE LAST 6 HOURS, CLOUD PATTERN HAS IMPROVED. SOME BURSTS OF

CONVECTION HAVE OCCURRED NEAR THE CENTER WITHIN THE EASTERN QUADRANT RE-HUMIDIFYING PROGRESSIVELY THIS QUADRANT INVADED BY DRY AIR. SO, A RAGGED WARM POINT HAS APPEARED IN INFRARED IMAGERY. ACCORDING WITH THE CONVENTIONAL IMAGERY, THE 1032Z 85GHZ SSMI SWATH SHOW A CONSOLIDATING EYE FEATURE.

TODAY, THE STEERING FLOW IS EXPECTED TO BEND NORTHWARD AS A WEAKNESS DEVELOPS IN THE SUBTROPICAL RIDGE. AT LONGER RANGE, THE SYSTEM MAY MOVE SOUTH-WESTWARD AHEAD OF A NEW SUBTROPICAL RIDGE. THE CURRENT SCENARIO IS BASED ON A CONSENSUS BETWEEN THIS MAIN GUIDANCE.

THE SYSTEM SHOULD EXPERIENCE FAVORABLE ENVIRONMENTAL CONDITIONS TO KEEP ON ITS STRENGTHENING DURING THE NEXT FEW DAYS. THE VERTICAL WINDSHEAR IS FORECASTED TO REMAIN WEAK AHEAD AN UPPER LEVEL TROUGH THAT PROVIDES A GOOD UPPER LEVEL DIVERGENCE. THE INTENSITY FORECAST IS IN A GOOD AGREEMENT WITH THE ICNW CONSENSUS. FROM WEDNESDAY, THE UPPER LEVEL DIVERGENCE SHOULD DECREASE AND A MODERATE NORTHWESTERN VERTICAL WINDSHEAR SHOULD ESTABLISH. SO THE INTENSITY SHOULD BEGIN TO DECREASE BUT LIMITED BY A GOOD OCEANIC HEAT CONTENT (OHC). FROM FRIDAY, THE WEAKENING SHOULD BECOME MORE SIGNIFICANTLY WITH AN INCREASING VERTICAL WINDSHEAR AND AN INSUFFICIENT OHC.