

WTIO30 FMEE 040637

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 12/10/20182019

1.A TROPICAL CYCLONE 10 (HALEH)

2.A POSITION 2019/03/04 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 18.1 S / 73.1 E

(EIGHTEEN DECIMAL ONE DEGREES SOUTH AND
SEVENTY THREE DECIMAL ONE DEGREES EAST)

MOVEMENT: SOUTH 9 KT

3.A DVORAK ANALYSIS: 5.5/5.5/D 1.0/6 H

4.A CENTRAL PRESSURE: 962 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 85 KT

RADIUS OF MAXIMUM WINDS (RMW): 28 KM

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

28 KT NE: 280 SE: 430 SW: 430 NW: 190

34 KT NE: 170 SE: 280 SW: 280 NW: 130

48 KT NE: 90 SE: 110 SW: 110 NW: 90

64 KT NE: 50 SE: 50 SW: 50 NW: 50

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/04 18 UTC: 19.0 S / 72.7 E, VENT MAX= 090 KT, INTENSE TROPICAL
CYCLONE

24H: 2019/03/05 06 UTC: 19.8 S / 72.0 E, VENT MAX= 095 KT, INTENSE TROPICAL
CYCLONE

36H: 2019/03/05 18 UTC: 20.9 S / 71.2 E, VENT MAX= 090 KT, INTENSE TROPICAL
CYCLONE

48H: 2019/03/06 06 UTC: 22.0 S / 70.2 E, VENT MAX= 085 KT, TROPICAL CYCLONE

60H: 2019/03/06 18 UTC: 23.1 S / 69.2 E, VENT MAX= 080 KT, TROPICAL CYCLONE

72H: 2019/03/07 06 UTC: 24.3 S / 68.3 E, VENT MAX= 070 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK:

96H: 2019/03/08 06 UTC: 27.2 S / 66.6 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM

120H: 2019/03/09 06 UTC: 32.2 S / 65.8 E, VENT MAX= 045 KT, POST-TROPICAL
DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=5.5-

OVER THE LAST 6 HOURS, THE CLOUD PATTERN HAS EVOLVED INTO AN EYE PATTERN. AT 03UTC, A WELL-DEFINED EYE IS NOTICEABLE ON SATELLITE DATA WITH A WELL-MARKED CONVECTION RING THAT HAS SUBSEQUENTLY ATTENUATED. THE DVORAK ANALYSIS LEAVES HALEH AT THE EDGE OF THE TROPICAL CYCLONE THRESHOLD WITH ESTIMATED WINDS IN THE ORDER OF 85KT.

IN TERMS OF TRACK FORECASTING, THE DIRECTIONAL FLOW REMAINS TO THE NORTH DUE TO THE WEAKNESS OF THE SUBTROPICAL RIDGE TO THE SOUTH. A SOUTH-SOUTH-WEST ORIENTATION IS EXPECTED IN THE NEXT FEW HOURS BEFORE MOVING SOUTH-WEST BY ACCELERATING. THE CURRENT FORECAST REMAINS BASED ON A CONSENSUS OF THE MAIN NUMERICAL MODELS WITH A PRIVILEGED COMPONENT ON THE MODELS DEFINING A MORE SOUTH-SOUTH-EASTERN TRACK.

THE SYSTEM IS CURRENTLY EXPERIENCING FAVOURABLE ENVIRONMENTAL CONDITIONS TO CONTINUE ITS INTENSIFICATION OVER THE NEXT 24 HOURS. VERTICAL WINDSHEAR IS EXPECTED TO REMAIN LOW AHEAD OF AN UPPER LEVEL TROUGH THAT CONTINUES TO PROVIDE EXCELLENT UPPER LEVEL DIVERGENCE THROUGH A GOOD POLAR EVACUATION CHANNEL. FROM WEDNESDAY, HALEH WILL BE LOCATED UNDER A MODERATE VERTICAL WINDSHEAR FROM THE NORTHWEST. THE SYSTEM SHOULD THEN EXPERIENCE A SLOW WEAKENING. FROM THURSDAY, THE WEAKENING SHOULD BECOME MORE SIGNIFICANT WITH INCREASING WINDSHEAR AND INSUFFICIENT OCEAN ENERGY CONTENT.