

WTIO30 FMEE 071255

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 25/10/20182019

1.A SEVERE TROPICAL STORM 10 (HALEH)

2.A POSITION 2019/03/07 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 27.1 S / 67.1 E

(TWENTY SEVEN DECIMAL ONE DEGREES SOUTH AND  
SIXTY SEVEN DECIMAL ONE DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-WEST 11 KT

3.A DVORAK ANALYSIS: 3.0/4.0/W 1.0/24 H

4.A CENTRAL PRESSURE: 975 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 60 KT

RADIUS OF MAXIMUM WINDS (RMW): 46 KM

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

28 KT NE: 460 SE: 570 SW: 430 NW: 300

34 KT NE: 280 SE: 410 SW: 280 NW: 190

48 KT NE: 110 SE: 190 SW: 110 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 1200 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/08 00 UTC: 29.7 S / 66.0 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

24H: 2019/03/08 12 UTC: 32.4 S / 64.7 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM

36H: 2019/03/09 00 UTC: 34.9 S / 63.7 E, VENT MAX= 045 KT, POST-TROPICAL  
DEPRESSION

48H: 2019/03/09 12 UTC: 37.3 S / 63.9 E, VENT MAX= 040 KT, POST-TROPICAL  
DEPRESSION

60H: 2019/03/10 00 UTC: 39.4 S / 67.2 E, VENT MAX= 040 KT, EXTRATROPICAL  
DEPRESSION

72H: 2019/03/10 12 UTC: 42.6 S / 74.4 E, VENT MAX= 040 KT, EXTRATROPICAL  
DEPRESSION

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=3.0+ CI=4.0+

OVER THE LAST 6 HOURS, CLOUD PATTERN BARELY EVOLVED WITH DEEP

CONVECTION RESISTING IN THE SOUTHERN SEMI-CIRCLE. NORTH-WESTERLY VERTICAL WIND SHEAR IS ANALYZED BY CIMSS AROUND 25KT AT 09Z. 0942Z AMSR2 SHOW THAT THE INNER CORE IS STILL RATHER WELL-DEFINED. 0114Z SMAP DATA SUGGEST WINDS ABOVE 70KT. THUS, INTENSITY WAS NOT DOWNGRADED.

THE TRACK FORECAST IS UNCHANGED: HALEH IS MOVING SOUTHSOUTHWESTWARD WITH THE WEAKENING OF THE SMALL RIDGE IN THE SOUTH AND ITS EASTWARDS SHIFT. FROM SATURDAY, AHEAD OF A DEEP MID-LATITUDES TROUGH, THE SYSTEM IS FORECAST TO RAPIDLY EVACUATE SOUTHEASTWARD. AMONG THE NUMERICAL GUIDANCE, DISPERSION IS RATHER WEAK.

ENVIRONMENTAL CONDITIONS ARE NOW CLEARLY UNFAVORABLE WITH AN INSUFFICIENT OCEANIC POTENTIAL AND A DEEP VERTICAL WIND SHEAR. THE TIMING OF HALEH EXTRATROPICALISATION IS A BIT BLURRY BUT IT SHOULD BEGIN ON FRIDAY OR SATURDAY WITH ASYMMETRIES DEVELOPING IN THE FORECAST FIELDS. ON SUNDAY, THE RESIDUAL CIRCULATION SHOULD BLEND A BROADER TROUGH AND SO END ITS TRANSFORMATION INTO A BAROCLINIC LOW.