Direction Interrégionale de Météo-France pour l'Océan Indien
50 Boulevard du Chaudron
97490 Sainte-Clotilde
Tél : 0262 92 11 00
Fax Exploitation : 0262 92 11 48
Fax Direction : 0262 92 11 47

WTIO30 FMEE 071823
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 26/10/20182019
1.A SEVERE TROPICAL STORM 10 (HALEH)

2.A POSITION 2019/03/07 AT 1800 UTC:
WITHIN 20 NM RADIUS OF POINT 28.3 S / 67.0 E
(TWENTY EIGHT DECIMAL THREE DEGREES SOUTH AND
SIXTY SEVEN DECIMAL ZERO DEGREES EAST)
MOVEMENT: SOUTH 13 KT

3.A DVORAK ANALYSIS: 3.0/3.5/W 1.0/24 H

4.A CENTRAL PRESSURE: 977 HPA
5.A MAX AVERAGE WIND SPEED (10 MN): 55 KT
RADIUS OF MAXIMUM WINDS (RMW): 83 KM

6.A EXTENSION OF WIND BY QUADRANTS (KM):
28 KT NE: 460 SE: 630 SW: 520 NW: 240
34 KT NE: 330 SE: 440 SW: 370 NW: 200
48 KT NE: 140 SE: 140 SW: 140 NW: 0

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 06 UTC: 31.3 S / 65.6 E, VENT MAX= 050 KT, POST-TROPICAL DEPRESSION
24H: 2019/03/08 18 UTC: 33.8 S / 64.4 E, VENT MAX= 050 KT, POST-TROPICAL DEPRESSION
36H: 2019/03/09 06 UTC: 36.3 S / 63.8 E, VENT MAX= 045 KT, POST-TROPICAL DEPRESSION
48H: 2019/03/09 18 UTC: 38.4 S / 65.6 E, VENT MAX= 040 KT, POST-TROPICAL DEPRESSION
60H: 2019/03/10 06 UTC: 40.8 S / 70.9 E, VENT MAX= 040 KT, POST-TROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK:
NIL

2.C ADDITIONAL INFORMATION:
T=3.0- CI=3.5

THE ASCAT-A SWATH OF 1634Z WAS USEFULL TO LOCATE THE CENTER OF HALEH

AND TO ASSESS BOTH INTENSITY AND WIND STRUCTURE. MAXIMUM WINDS READING WAS 51 KT SUGGESTING MAX WINDS AT 55 KT. THE INNER-CORE WIND FIELD HAS BROADEN AND SUGGEST THAT EXTRATROPICAL PROCESS MAY BE IMMINENT. THE CLOUD PATTERN REMAINS AS A SHEAR PATTERN WITH THE CENTER LOCATED ON THE WESTERN EDGE OF THE DEEP CONVECTION WHICH IS ASSOCIATED WITH WARMING CLOUD TOPS.

THE TRACK FORECAST IS UNCHANGED: HALEH IS MOVING GENERALLY 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 RECENT WIND STRUCTURE ON ASCAT AND WV IMAGERY SUGGEST THAT BAROCLINIC PROCESS MAY START SOON TO GET INVOLVED TO MAINTAIN THE CIRCULATION'S STRENGTH. SUNDAY, THE RESIDUAL CIRCULATION SHOULD MERGE WITHIN A BROADER BAROCLINIC LOW AND RACE EASTWARDS WITHIN THE MID-LAT WESTERLIES.