

WTIO30 FMEE 171237

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

0.A WARNING NUMBER: 21/10/20192020

1.A TROPICAL CYCLONE 10 (HEROLD)

2.A POSITION 2020/03/17 AT 1200 UTC:
WITHIN 30 NM RADIUS OF POINT 20.2 S / 62.0 E
(TWENTY DECIMAL TWO DEGREES SOUTH AND
SIXTY TWO DECIMAL ZERO DEGREES EAST)
MOVEMENT: SOUTH-EAST 20 KT

3.A DVORAK ANALYSIS: 4.5/5.5/W 1.0/6 H

4.A CENTRAL PRESSURE: 965 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 80 KT
RADIUS OF MAXIMUM WINDS (RMW): 37 KM

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

28 KT NE: 440 SE: 180 SW: 220 NW: 260

34 KT NE: 170 SE: 110 SW: 170 NW: 170

48 KT NE: 90 SE: 60 SW: 110 NW: 110

64 KT NE: 60 SE: 50 SW: 70 NW: 70

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

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2020/03/18 00 UTC: 21.9 S / 64.7 E, VENT MAX= 065 KT, TROPICAL CYCLONE

24H: 2020/03/18 12 UTC: 23.1 S / 66.9 E, VENT MAX= 045 KT, MODERATE TROPICAL
STORM

36H: 2020/03/19 00 UTC: 23.9 S / 68.8 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

48H: 2020/03/19 12 UTC: 25.0 S / 70.0 E, VENT MAX= 030 KT, FILLING UP

60H: 2020/03/20 00 UTC: 26.3 S / 70.9 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=4.5- CI=5.5-

A SIGNIFICANT WEAKENING TREND HAS STARTED SHORTLY AFTER THE PREVIOUS
ADVISORY. THE EYE PATTERN HAS SHIFTED TOWARDS AN EMBEDDED CENTER
PATTERN WITH WARMING CLOUD TOPS. 88 GHZ NPP MW IMAGERY ALONG WITH

VISIBLE MSG-1 IMAGERY SUGGEST THAT THE SOLID INNER-CORE SEEN THIS MORNING HAS BEEN BLOWN BY THE DETERIORATION OF THE ENVIRONMENTAL CONDITIONS. THE FINAL INTENSITY IS LOWERED AT 80 KT TO TAKE INTO ACCOUNT THAT EFFECT AND IS JUST BELOW SUBJECTIVE DVORAK ESTIMATES.

THE UNCERTAINTY ON THE CENTER POSITION HAS INCREASED BUT IS EXPECTED TO MOVE RAPIDLY ON A HEADING OSCILLATING BETWEEN THE SOUTH-EAST AND THE EAST-SOUTH-EAST UNDER THE INFLUENCE OF THE MID-TROPICAL RIDGE TO THE NORTHEAST WHICH GOVERNS HEROLD'S TRACK. FROM WEDNESDAY, HEROLD WILL MOVE UNDER THE INFLUENCE OF A DEEP TROUGH TO ITS SOUTH-WEST BEFORE MERGING WITH IT BY THE END OF THE WEEK. THERE IS STILL SOME GOOD AGREEMENT BETWEEN THE GUIDANCE ON THIS TRACK.

UNDER THE INCREASING IMPACT OF THE NORTHWEST SHEAR AND ASSOCIATED DRY AIR INTRUSION, SUSTAINED WEAKENING IS NOW IN PLACE AND HEROLD IS EXPECTED TO BECOME A FILLING UP LOW IN 48 HOURS.

HEROLD IS EXPECTED TO PASS LATER TONIGHT AT AROUND 100 KM TO THE SOUTH-WEST OF RODRIGUES. GALE FORCE WINDS ARE EXPECTED TO SPREAD LATER TONIGHT (ASSOCIATED WITH POSSIBLE GUSTS UP TO 100-120 KM/H) ASSOCIATED WITH DANGEROUS SURF CONDITIONS (WAVE HEIGHT EXCEEDING 4 METERS). LITTLE RAINFALL AMOUNT ARE EXPECTED. THE SYSTEM IS EXPECTED TO MOVE AWAY OF THE ISLAND AS SOON AS TOMORROW MORNING.