

WTIO30 FMEE 170643

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 20/10/20192020

1.A INTENSE TROPICAL CYCLONE 10 (HEROLD)

2.A POSITION 2020/03/17 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 19.1 S / 60.3 E

(NINETEEN DECIMAL ONE DEGREES SOUTH AND
SIXTY DECIMAL THREE DEGREES EAST)

MOVEMENT: SOUTH-EAST 19 KT

3.A DVORAK ANALYSIS: 5.5/5.5/D 1.5/24 H

4.A CENTRAL PRESSURE: 957 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 95 KT

RADIUS OF MAXIMUM WINDS (RMW): 33 KM

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

28 KT NE: 370 SE: 220 SW: 200 NW: 270

34 KT NE: 160 SE: 120 SW: 140 NW: 140

48 KT NE: 70 SE: 60 SW: 80 NW: 70

64 KT NE: 60 SE: 60 SW: 60 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: 2020/03/17 18 UTC: 21.1 S / 63.2 E, VENT MAX= 080 KT, TROPICAL CYCLONE

24H: 2020/03/18 06 UTC: 22.6 S / 65.6 E, VENT MAX= 065 KT, TROPICAL CYCLONE

36H: 2020/03/18 18 UTC: 23.8 S / 67.5 E, VENT MAX= 045 KT, MODERATE TROPICAL
STORM

48H: 2020/03/19 06 UTC: 24.6 S / 69.0 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

60H: 2020/03/19 18 UTC: 25.8 S / 70.3 E, VENT MAX= 030 KT, FILLING UP

72H: 2020/03/20 06 UTC: 27.8 S / 71.9 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=CI=5.5+

HEROLD HAS CONTINUED TO INTENSIFY SINCE THE END OF THE NIGHT WITH A
PEAK PRESENTATION AROUND 03-04Z. THE INTENSITY OF 95 KT IS BASED ON

CONGRUENT DVORAK ANALYSIS AT 5.5 WITHIN ALL AGENCIES (ADT UNRELIABLE AND SATCON IS NOT UPDATED) AND SOME RAUW DT NUMBVERS AT 6.0 AT PEAK CONFIGURATION.

THE FORWARD MOTION REMAINS FAST AND A SOUTH-EASTWARDS HEADING IS NOW IN PLACE, UNDER THE INFLUENCE OF THE MID-TROPICAL RIDGE TO THE NORTHEAST WHICH GOVERNS HEROLD'S TRACK. THE MODELS ARE IN GOOD AGREEMENT ON THE DIRECTION. THERE IS LESS UNCERTAINTY ON THE TRACK AND THE FORECAST CLOSEST DISTANCE TO MAURITIUS AND RODRIGUES IS GETTING RELIABLE. FROM WEDNESDAY, HEROLD WILL MOVE UNDER THE INFLUENCE OF A DEEP TROUGH TO THE SOUTH-WEST BEFORE MERGING WITH IT BY THE END OF THE WEEK.

UNDER THE INCREASING IMPACT OF THE NORTHWEST SHEAR AND ASSOCIATED DRY AIR INTRUSION, SUSTAINED WEAKENING IS EXPECTED TO BEGIN WITHIN THE NEXT 12 HOURS.

HEROLD IS EXPECTED TO PASS LATER TONIGHT BETWEEN 100 AND 200 KM TO THE SOUTH-WEST OF RODRIGUES. FAST DETERIORATION OF THE WEATHER CONDITIONS IS EXPECTED THIS AFTERNOON WITH GALES FORCE WINDS EXPECTED TO SPREAD LATER TONIGHT (ASSOCIATED GUSTS AT 100-120 KM/H) AND DANGEROUS SURF CONDITIONS (WAVE HEIGHT EXCEEDING 4 METERS). HEAVY RAINFALLS ARE EXPECTED TO LAST NOT VERY LONG WITH DAILY RAINFALLS ONLY EXPECTED LOCALLY TO EXCEED 50 MM. THE SYSTEM IS EXPECTED TO MOVE AWAY OF THE ISLAND AS SOON AS TOMORROW MORNING.