

WTIO30 FMEE 091228

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 14/2/20222023

1.A POST-TROPICAL DEPRESSION 2 (EX-BALITA)

2.A POSITION 2022/10/09 AT 1200 UTC:

WITHIN 30 NM RADIUS OF POINT 16.5 S / 87.3 E

(SIXTEEN DECIMAL FIVE DEGREES SOUTH AND

EIGHTY SEVEN DECIMAL THREE DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-EAST 7 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 1002 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 40 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

28 KT NE: 0 SE: 740 SW: 465 NW: 280

34 KT NE: 0 SE: 465 SW: 315 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: SHALLOW

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/10/10 00 UTC: 16.8 S / 86.9 E, VENT MAX= 040 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 0 SE: 665 SW: 425 NW: 335

34 KT NE: 0 SE: 405 SW: 280 NW: 0

24H: 2022/10/10 12 UTC: 16.3 S / 85.9 E, VENT MAX= 035 KT, FILLING UP

28 KT NE: 0 SE: 650 SW: 445 NW: 0

34 KT NE: 0 SE: 370 SW: 240 NW: 0

36H: 2022/10/11 00 UTC: 15.6 S / 84.8 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 0 SE: 705 SW: 445 NW: 0

48H: 2022/10/11 12 UTC: 15.0 S / 84.0 E, VENT MAX= 025 KT, FILLING UP

60H: 2022/10/12 00 UTC: 14.7 S / 83.3 E, VENT MAX= 020 KT, REMNANT LOW

72H: 2022/10/12 12 UTC: 14.6 S / 82.3 E, VENT MAX= 020 KT, REMNANT LOW

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

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DURING THE LAST 6 HOURS, CONVECTION TO THE EAST AND SOUTH OF THE SYSTEM HAS KEPT WEAKENING, ALONG WITH WARMING CLOUD TOPS, EVEN IF SOME MODERATELY DEEP CONVECTION HAS TEMPORARILY TRIED TO BUILD UP AGAIN TO THE SOUTH OF THE SYSTEM. 0805Z AMSR2 AND 1021Z SSMIS MW PASSES CONFIRM THAT THE LOW-LEVEL CENTER IS EXPOSED DUE TO MID-TROPOSPHERE DRY AIR ADVECTION AND SHOWS A BROAD AND ELONGATED CIRCULATION, TYPICAL OF POST-TROPICAL SYSTEMS. WITHOUT ANY NEW INTENSITY ANALYSES, MAXIMUM WINDS AT 12Z HAVE BEEN ADJUSTED UP TO 40KT IN THE SOUTHERN SEMI-CIRCLE, TO MATCH WITH THE MOST RELEVANT NWP GUIDANCE (INCREASING PRESSURE GRADIENT TO THE SOUTH OF THE LOW).

NO PARTICULAR CHANGE IN THE FORECAST TRACK : THE SOUTHWARD MOVEMENT WILL CONTINUE TONIGHT BETWEEN A BAROMETRIC COL TO THE SOUTHWEST AND A NEAR-EQUATORIAL RIDGE TO THE EAST. BUT AS FROM MONDAY MORNING A WEST-NORTHWESTWARD TURN WILL TAKE PLACE DUE TO STEERING FLOW BEING DRIVEN BY A NEW SUBTROPICAL HIGH BUILDING TO THE SOUTHWEST THEN SOUTH OF THE SYSTEM.

MASSIVE MID-LEVEL DRY AIR INVASION OVER THE LOW-LEVEL CIRCULATION CENTER WILL CONTINUE UNTIL MONDAY, THUS PREVENTING ANY CHANCES OF TROPICAL REDEVELOPMENT. CONVECTION SHOULD THUS CONTINUE TO WEAKEN WHILE THE SYSTEM KEEPS BECOMING MORE ASYMMETRICAL. MAXIMUM WINDS CAN STILL REACH GALE FORCE UNTIL MONDAY IN THE SOUTHERN SEMI-CIRCLE DUE TO PRESSURE GRADIENT ON THE EDGE OF THE SUBTROPICAL HIGH, THEN THE REMNANT LOW SHOULD RAPIDLY FILL UP WHILE DRIFTING ALONG THE TRADE WINDS FLOW.

THIS IS THE LAST RSMC BULLETIN ON THIS SYSTEM.