

WTIO30 FMEE 090633

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 13/2/20222023

1.A POST-TROPICAL DEPRESSION 2 (BALITA)

2.A POSITION 2022/10/09 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 15.7 S / 86.9 E

(FIFTEEN DECIMAL SEVEN DEGREES SOUTH AND
EIGHTY SIX DECIMAL NINE DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-EAST 7 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 1001 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

28 KT NE: 150 SE: 595 SW: 405 NW: 185

34 KT NE: 0 SE: 260 SW: 205 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: 2022/10/09 18 UTC: 16.7 S / 87.0 E, VENT MAX= 040 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 0 SE: 650 SW: 405 NW: 295

34 KT NE: 0 SE: 335 SW: 280 NW: 0

24H: 2022/10/10 06 UTC: 16.5 S / 86.1 E, VENT MAX= 035 KT, FILLING UP

28 KT NE: 0 SE: 610 SW: 350 NW: 0

34 KT NE: 0 SE: 295 SW: 205 NW: 0

36H: 2022/10/10 18 UTC: 16.0 S / 85.0 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 0 SE: 595 SW: 335 NW: 0

48H: 2022/10/11 06 UTC: 15.3 S / 84.1 E, VENT MAX= 025 KT, FILLING UP

60H: 2022/10/11 18 UTC: 14.8 S / 83.5 E, VENT MAX= 020 KT, REMNANT LOW

72H: 2022/10/12 06 UTC: 14.5 S / 82.6 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, THE SYSTEM'S STRUCTURE HAS KEPT BECOMING MORE AND MORE ELONGATED AND ASYMMETRICAL, AS SEEN ON CLASSIC SATELLITE IMAGERY AND THE 0322Z GMI MICRO-WAVE PASS. MOREOVER, DEEP CONVECTION HAS BEEN REJECTED FURTHER AND FURTHER SOUTHEAST FROM THE LOW-LEVEL CENTER, WHICH IS NOW CLEARLY EXPOSED (AT 06Z, THERE IS NO LONGER ANY COLD CONVECTIVE CLOUD-TOPS WITHIN 100NM FROM THE CENTER), WHICH INDICATES THAT MID-LEVEL DRY AIR ADVECTION HAS TAKEN PLACE OVER THE LLC DUE TO THE NORTHWESTERLY MID-SHEAR. BALITA IS THUS CLEARLY LOSING ITS TROPICAL CHARACTERISTICS AND IS NOW CLASSIFIED AS A POST-TROPICAL DEPRESSION AT 06Z. MAXIMUM WINDS REMAIN ESTIMATED AT 35KT IN THE SOUTHERN SEMI-CIRCLE, WHICH IS PARTLY CONFIRMED BY A 0002Z SMOS PASS (34KT) AND 0251Z AND 0343Z PARTIAL ASCAT PASSES (35/40KT IN THE SOUTHEASTERN QUADRANT UNDER CONVECTION, SO PROBABLY A BIT OVERESTIMATED).

NO PARTICULAR CHANGE IN THE TRACK FORECAST : THE SYSTEM SHOULD KEEP TRACKING SOUTHWARD THIS SUNDAY BETWEEN A BAROMETRIC COL TO THE SOUTHWEST AND A NEAR-EQUATORIAL RIDGE TO THE EAST. BUT AS FROM TONIGHT 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 TONIGHT, PREVENTING ANY CHANCES OF TROPICAL REDEVELOPMENT. CONVECTION SHOULD THUS CONTINUE TO WEAKEN WHILE THE SYSTEM'S KEEPS BECOMING MORE ASYMMETRICAL. MAXIMUM WINDS CAN STILL REACH GALE FORCE UNTIL MONDAY MID-DAY IN THE SOUTHERN SEMI-CIRCLE DUE TO THE GRADIENT WITH THE SUBTROPICAL HIGH PRESSURE CELL, THEN THE REMNANT LOW SHOULD RAPIDLY FILL UP WHILE DRIFTING IN THE TRADE WINDS FLOW.