

WTIO30 FMEE 071233

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 50/2/20212022

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

2.A POSITION 2022/02/07 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 24.8 S / 41.7 E

(TWENTY FOUR DECIMAL EIGHT DEGREES SOUTH AND
FORTY ONE DECIMAL SEVEN DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-WEST 12 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 991 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: 280 SE: 405 SW: 405 NW: 370

34 KT NE: 185 SE: 260 SW: 335 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/02/08 00 UTC: 26.0 S / 41.0 E, VENT MAX= 035 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 335 SE: 490 SW: 435 NW: 305

34 KT NE: 175 SE: 260 SW: 305 NW: 165

24H: 2022/02/08 12 UTC: 27.7 S / 41.3 E, VENT MAX= 035 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 350 SE: 445 SW: 400 NW: 335

34 KT NE: 185 SE: 250 SW: 230 NW: 185

36H: 2022/02/09 00 UTC: 30.0 S / 41.9 E, VENT MAX= 035 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 435 SE: 545 SW: 415 NW: 345

34 KT NE: 230 SE: 315 SW: 230 NW: 195

48H: 2022/02/09 12 UTC: 33.0 S / 42.7 E, VENT MAX= 035 KT, POST-TROPICAL
DEPRESSION

28 KT NE: 455 SE: 555 SW: 415 NW: 285

34 KT NE: 240 SE: 345 SW: 270 NW: 155

60H: 2022/02/10 00 UTC: 35.5 S / 44.2 E, VENT MAX= 035 KT, EXTRATROPICAL

DEPRESSION

28 KT NE: 545 SE: 435 SW: 285 NW: 335

34 KT NE: 295 SE: 295 SW: 155 NW: 185

72H: 2022/02/10 12 UTC: 37.7 S / 48.7 E, VENT MAX= 035 KT, EXTRATROPICAL
DEPRESSION

28 KT NE: 500 SE: 400 SW: 295 NW: 370

34 KT NE: 280 SE: 285 SW: 195 NW: 205

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

DURING THE LAST 6 HOURS, STRONG CONVECTIVE ACTIVITY RESUMED IN THE SOUTHERN PART OF THE INNER CORE. IN RELATION WITH THE INCREASING NORTH-NORTH-WESTERLY SHEAR, THIS BURST HELPED IN ELONGATING THE CIRCULATION NEAR THE CENTRE. THIS LOSS OF SYMMETRY IN A CONTEXT OF POLARWARD ACCELERATION, LED TO THE CLASSIFICATION OF THE SYSTEM AS POST-TROPICAL DEPRESSION EX-BATSIRAI.

NO CHANGE IN THE TRACK FORECAST: TODAY, BATSIRAI STARTED A PROGRESSIVE ACCELERATION SOUTHWARD IN DIRECTION OF A WEAKNESS IN THE SUBTROPICAL RIDGE. ITS MOVEMENT SHOULD REMAIN SLOW AT FIRST BECAUSE OF CONTRADICTORY FLOWS BETWEEN THE TWO SUBTROPICAL RIDGES TO THE WEST AND SOUTHEAST. FROM TUESDAY EVENING ONWARDS, WITH THE SUBTROPICAL RIDGE MOVING TO THE NORTHEAST OF THE SYSTEM AND THE ARRIVAL OF A MID-LATITUDE TROUGH FROM THE SOUTHWEST, EX-BATSIRAI SHOULD ACCELERATE TOWARDS THE SOUTHEAST. BATSIRAI SHOULD FINALLY DISAPPEAR LATER THIS WEEK WITHIN A BROAD SURFACE TROUGH.

DESPITE A STILL SUFFICIENT OCEANIC POTENTIAL AT SHORT RANGE, THE CHANCES FOR A NEW DEVELOPMENT PHASE ARE DECAYING. THE NORTHERLY SHEAR, COMBINED WITH THE PRESENCE OF DRY AIR IN THE MID-TROPOSPHERE, SHOULD CONTINUE TO LIMIT DEEP CONVECTION NEAR THE CENTER. A SHALLOW DEEPENING WITH THE STRENGTHENING OF THE PRESSURE GRADIENT IS STILL POSSIBLE IN THE NEXT HOURS. FROM TOMORROW, WITH THE ARRIVAL OF AN UPPER TROUGH AND THE RAPID DECREASE OF THE OCEANIC POTENTIAL, THE SYSTEM SHOULD CONTINUE TO LOSE ITS TROPICAL CHARACTERISTICS. SOUTH OF 30S IN PARTICULAR, THE SST SHOULD DROP BELOW 23C.

IN TERMS OF IMPACTS ON MADAGASCAR, WITH THE PROGRESSIVE EVACUATION OF THE SYSTEM, THE WIND AND THE RISK OF HEAVY RAINS RELATED TO BATSIRAI IN THE AREA FROM MOROMBE TO CAP SAINTE-MARIE, SHOULD WEAKEN TOMORROW AND DEFINITELY BY WEDNESDAY MORNING.