

WTIO30 FMEE 071836

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 51/2/20212022

1.A MODERATE TROPICAL STORM 2 (BATSIRAI)

2.A POSITION 2022/02/07 AT 1800 UTC:

WITHIN 40 NM RADIUS OF POINT 25.3 S / 41.8 E

(TWENTY FIVE DECIMAL THREE DEGREES SOUTH AND  
FORTY ONE DECIMAL EIGHT DEGREES EAST)

MOVEMENT: SOUTH 8 KT

3.A DVORAK ANALYSIS: 2.0/2.0/D 1.0/24 H

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: 220 SE: 665 SW: 445 NW: 280

34 KT NE: 0 SE: 465 SW: 350 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 06 UTC: 26.6 S / 41.6 E, VENT MAX= 035 KT, MODERATE TROPICAL  
STORM

28 KT NE: 325 SE: 620 SW: 465 NW: 315

34 KT NE: 120 SE: 285 SW: 325 NW: 185

24H: 2022/02/08 18 UTC: 28.6 S / 41.7 E, VENT MAX= 035 KT, POST-TROPICAL  
DEPRESSION

28 KT NE: 380 SE: 640 SW: 455 NW: 315

34 KT NE: 150 SE: 315 SW: 270 NW: 185

36H: 2022/02/09 06 UTC: 31.7 S / 42.1 E, VENT MAX= 035 KT, POST-TROPICAL  
DEPRESSION

28 KT NE: 510 SE: 610 SW: 390 NW: 295

34 KT NE: 220 SE: 315 SW: 285 NW: 185

48H: 2022/02/09 18 UTC: 34.7 S / 43.3 E, VENT MAX= 035 KT, POST-TROPICAL  
DEPRESSION

28 KT NE: 510 SE: 530 SW: 370 NW: 335

34 KT NE: 220 SE: 280 SW: 240 NW: 205

60H: 2022/02/10 06 UTC: 35.9 S / 46.5 E, VENT MAX= 035 KT, EXTRATROPICAL DEPRESSION

28 KT NE: 510 SE: 435 SW: 260 NW: 345

34 KT NE: 230 SE: 250 SW: 155 NW: 205

72H: 2022/02/10 18 UTC: 38.4 S / 52.0 E, VENT MAX= 035 KT, EXTRATROPICAL DEPRESSION

28 KT NE: 510 SE: 400 SW: 195 NW: 150

34 KT NE: 230 SE: 250 SW: 140 NW: 0

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

T=2.0 CI=2.0

THE CONVECTIVE ACTIVITY INITIATED SHORTLY BEFORE THE LAST BULLETIN, HAS CONTINUED WITH FLUCTUATIONS BUT ALSO SHOWING SIGNS OF CURVATURE. COMPARED TO 24 HOURS AGO, THE CLOUD PATTERN IS IMPROVING. IN A MODERATELY SHEARED ENVIRONMENT (14 KT FROM NORTHWEST ACCORDING TO CIMSS), THE SYSTEM DOES NOT SEEM TO INTERACT YET ENOUGH WITH THE SUBTROPICAL JET TO LOSE ITS TROPICAL CHARACTERISTICS. CONSEQUENTLY, THE SYSTEM IS RECLASSIFIED AS A TROPICAL STORM BATSIRAI. ITS CENTER REMAINS HOWEVER RATHER POORLY DEFINED FROM MICROWAVE IMAGERY.

NO CHANGE IN TERMS OF TRACK FORECAST REASONING : BATSIRAI HAS STARTED ITS ACCELERATION SOUTHWARD TOWARDS THE WEAKNESS OF THE SUBTROPICAL RIDGE. HOWEVER, ITS MOVEMENT SHOULD REMAIN RELATIVELY 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 RISING TO THE NORTHEAST OF THE SYSTEM AND THE ARRIVAL OF A MID-LATITUDE TROUGH FROM THE SOUTHWEST, BATSIRAI SHOULD ACCELERATE TOWARDS THE SOUTHEAST. BATSIRAI SHOULD FINALLY DISAPPEAR IN THE SECOND PART OF THE WEEK WITHIN A LARGE SURFACE TROUGH.

IN SPITE OF A STILL SUFFICIENT OCEANIC POTENTIAL IN THE SHORT TERM, THE CHANCES OF A NEW INTENSIFICATION TREND ARE REDUCING. THE NORTHERLY SHEAR, COMBINED WITH THE PRESENCE OF DRY AIR IN THE MIDDLE TROPOSPHERE, SHOULD CONTINUE TO LIMIT DEEP CONVECTION NEAR THE CENTER. A DEEPENING AT THE MARGIN IS STILL POSSIBLE IN THE NEXT FEW HOURS. FROM TOMORROW EVENING, WITH THE UPWELLING OF THE UPPER TROUGH AND THE RAPID DECREASE OF THE OCEANIC POTENTIAL, THE SYSTEM SHOULD DEFINITELY LOSE ITS TROPICAL CHARACTERISTICS THIS TIME. SOUTH OF 30S IN PARTICULAR, THE SST SHOULD DROP BELOW 23C.

IN TERMS OF IMPACTS ON MADAGASCAR, ADDITIONAL RAINS REACHING UP TO 50 MM IN THE NEXT 24 HOURS ARE EXPECTED AROUND MOROMBE - TULEAR. WIND GUSTS SHOULD REMAIN UNDER 100 KM/H. THERE IS NO MORE SIGNIFICANT INFLUENCE TO EXPECT BEYOND 24 HOURS.

