

WTIO30 FMEE 060056

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 44/2/20212022

1.A OVERLAND DEPRESSION 2 (BATSIRAI)

2.A POSITION 2022/02/06 AT 0000 UTC:

WITHIN 30 NM RADIUS OF POINT 20.9 S / 47.2 E
(TWENTY DECIMAL NINE DEGREES SOUTH AND
FORTY SEVEN DECIMAL TWO DEGREES EAST)
MOVEMENT: WEST 10 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 980 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT
RADIUS OF MAXIMUM WINDS (RMW): 46 KM

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

28 KT NE: 465 SE: 665 SW: 650 NW: 185

34 KT NE: 260 SE: 370 SW: 370 NW: 130

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1001 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/02/06 12 UTC: 22.6 S / 44.4 E, VENT MAX= 035 KT, OVERLAND DEPRESSION
28 KT NE: 185 SE: 565 SW: 490 NW: 240
34 KT NE: 95 SE: 325 SW: 295 NW: 175

24H: 2022/02/07 00 UTC: 23.5 S / 42.5 E, VENT MAX= 040 KT, MODERATE TROPICAL
STORM

28 KT NE: 215 SE: 555 SW: 435 NW: 240

34 KT NE: 100 SE: 325 SW: 260 NW: 195

36H: 2022/02/07 12 UTC: 24.4 S / 41.7 E, VENT MAX= 040 KT, MODERATE TROPICAL
STORM

28 KT NE: 280 SE: 565 SW: 285 NW: 360

34 KT NE: 140 SE: 335 SW: 150 NW: 250

48H: 2022/02/08 00 UTC: 25.6 S / 41.4 E, VENT MAX= 040 KT, MODERATE TROPICAL
STORM

28 KT NE: 425 SE: 585 SW: 415 NW: 400

34 KT NE: 220 SE: 350 SW: 220 NW: 280

60H: 2022/02/08 12 UTC: 26.8 S / 41.5 E, VENT MAX= 040 KT, MODERATE TROPICAL
STORM

28 KT NE: 435 SE: 630 SW: 425 NW: 400
34 KT NE: 230 SE: 380 SW: 260 NW: 280

72H: 2022/02/09 00 UTC: 28.9 S / 42.1 E, VENT MAX= 040 KT, MODERATE TROPICAL STORM

28 KT NE: 565 SE: 610 SW: 405 NW: 380
34 KT NE: 295 SE: 380 SW: 280 NW: 270

2.B LONGER-RANGE OUTLOOK:

96H: 2022/02/10 00 UTC: 32.6 S / 44.0 E, VENT MAX= 035 KT, POST-TROPICAL DEPRESSION

28 KT NE: 575 SE: 470 SW: 250 NW: 350
34 KT NE: 285 SE: 305 SW: 165 NW: 240

120H: 2022/02/11 00 UTC: 35.0 S / 47.9 E, VENT MAX= 030 KT, POST-TROPICAL DEPRESSION

28 KT NE: 435 SE: 270 SW: 140 NW: 0

2.C ADDITIONAL INFORMATION:

DURING THE LAST HOURS, BATSIRAI HAS LANDED AND MOVED ON THE MALAGASY EAST COAST NEAR THE NORTH OF MANANJARY.

ON A TRAJECTORY THAT WILL PROGRESSIVELY TAKE THE SOUTH-WEST DIRECTION, IT IS EXPECTED TO EMERGE ON THE CHANNEL AT THE END OF THE DAY.

ON SUNDAY EVENING, BATSIRAI WILL EMERGE, WEAKENED, IN THE SOUTH OF THE MOZAMBIQUE CHANNEL. IT WILL CURVE ITS TRAJECTORY TOWARDS THE SOUTH-WEST THEN SOUTH AT THE BEGINNING OF NEXT WEEK BECAUSE OF THE WEAKENING AND THE SHIFT TOWARDS THE EAST OF THE SUBTROPICAL RIDGE AND THE APPROACH OF A TROUGH BY THE SOUTH-WEST.

IN THE MOZAMBIQUE CHANNEL, AFTER A SIGNIFICANT WEAKENING FOLLOWING ITS PASSAGE OVER LAND, THE SYSTEM SHOULD HAVE A RATHER LARGE STRUCTURE WHICH WILL NOT REALLY ALLOW IT TO TAKE ADVANTAGE OF THE FAIRLY GOOD ENVIRONMENTAL CONDITIONS AT FIRST. IN THE LONGER TERM, THE ENVIRONMENTAL CONDITIONS (SHEAR, PRESENCE OF DRY AIR IN THE NORTH-WEST OF THE SYSTEM, DECREASING OCEANIC POTENTIAL) SHOULD LIMIT THE INTENSITY OF THE SYSTEM AS IT PLUNGES TOWARDS THE SOUTHERN LATITUDES WITH A PROBABLE POST-TROPICAL TRANSITION IN THE MIDDLE OF THE WEEK THROUGH INTERACTION WITH A MID-LATITUDE TROUGH.

EXPECTED IMPACTS ON MADAGASCAR AND THE SOUTH PART OF THE CHANNEL:

DETERIORATED CONDITIONS WILL PERSIST OVER A LARGE SOUTHERN HALF OF MADAGASCAR, WITH HEAVY RAINS EXCEEDING 100MM OVER THE EPISODE, EVEN NUCLEI OF 300/500MM OVER THE EAST.

STRONG STORM FORCE WINDS ARE MAINTAINED DURING THE DAY ALONG THE EAST COAST, AND ARE ALSO QUICKLY ESTABLISHED SOUTH OF CAPE SAINT-VINCENT ON THE SOUTHWEST COAST. THE EAST SWELL REMAINS MODERATE ON THE SOUTHEAST COAST TODAY. A BIG SOUTH SWELL IS ESTABLISHING ITSELF BETWEEN TOLIARA AND CAPE ST-VINCENT ON THE SOUTH-WEST COAST ON SUNDAY EVENING, THEN A BIG SOUTH-EAST SWELL IS REACHING EUROPA ISLAND ON MONDAY.

