

WTIO30 FMEE 301235

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 18/2/20212022

1.A TROPICAL CYCLONE 2 (BATSIRAI)

2.A POSITION 2022/01/30 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 16.8 S / 66.1 E

(SIXTEEN DECIMAL EIGHT DEGREES SOUTH AND
SIXTY SIX DECIMAL ONE DEGREES EAST)

MOVEMENT: WEST-NORTH-WEST 9 KT

3.A DVORAK ANALYSIS: 5.0/5.0/D 1.0/24 H

4.A CENTRAL PRESSURE: 963 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 80 KT

RADIUS OF MAXIMUM WINDS (RMW): 11 KM

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

28 KT NE: 130 SE: 295 SW: 185 NW: 130

34 KT NE: 75 SE: 110 SW: 110 NW: 75

48 KT NE: 45 SE: 55 SW: 60 NW: 45

64 KT NE: 30 SE: 30 SW: 30 NW: 30

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1004 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/01/31 00 UTC: 16.6 S / 64.5 E, VENT MAX= 085 KT, TROPICAL CYCLONE

28 KT NE: 140 SE: 250 SW: 270 NW: 155

34 KT NE: 85 SE: 110 SW: 150 NW: 100

48 KT NE: 65 SE: 65 SW: 75 NW: 55

64 KT NE: 45 SE: 45 SW: 45 NW: 45

24H: 2022/01/31 12 UTC: 16.4 S / 62.6 E, VENT MAX= 085 KT, TROPICAL CYCLONE

28 KT NE: 165 SE: 260 SW: 240 NW: 165

34 KT NE: 100 SE: 120 SW: 155 NW: 110

48 KT NE: 65 SE: 75 SW: 75 NW: 65

64 KT NE: 45 SE: 45 SW: 55 NW: 45

36H: 2022/02/01 00 UTC: 16.7 S / 60.8 E, VENT MAX= 090 KT, INTENSE TROPICAL
CYCLONE

28 KT NE: 205 SE: 295 SW: 335 NW: 175

34 KT NE: 120 SE: 140 SW: 185 NW: 120

48 KT NE: 75 SE: 85 SW: 85 NW: 65

64 KT NE: 55 SE: 55 SW: 55 NW: 45

48H: 2022/02/01 12 UTC: 17.0 S / 58.5 E, VENT MAX= 090 KT, INTENSE TROPICAL CYCLONE

28 KT NE: 185 SE: 350 SW: 305 NW: 215
34 KT NE: 120 SE: 175 SW: 205 NW: 140
48 KT NE: 85 SE: 85 SW: 85 NW: 75
64 KT NE: 55 SE: 55 SW: 65 NW: 55

60H: 2022/02/02 00 UTC: 17.6 S / 56.8 E, VENT MAX= 090 KT, INTENSE TROPICAL CYCLONE

28 KT NE: 240 SE: 335 SW: 315 NW: 215
34 KT NE: 155 SE: 175 SW: 205 NW: 140
48 KT NE: 85 SE: 85 SW: 85 NW: 85
64 KT NE: 65 SE: 65 SW: 65 NW: 55

72H: 2022/02/02 12 UTC: 18.3 S / 55.3 E, VENT MAX= 095 KT, INTENSE TROPICAL CYCLONE

28 KT NE: 250 SE: 345 SW: 295 NW: 295
34 KT NE: 155 SE: 185 SW: 205 NW: 195
48 KT NE: 95 SE: 85 SW: 85 NW: 85
64 KT NE: 65 SE: 65 SW: 65 NW: 65

2.B LONGER-RANGE OUTLOOK:

96H: 2022/02/03 12 UTC: 18.5 S / 53.4 E, VENT MAX= 095 KT, INTENSE TROPICAL CYCLONE

28 KT NE: 250 SE: 360 SW: 345 NW: 270
34 KT NE: 165 SE: 215 SW: 220 NW: 175
48 KT NE: 95 SE: 95 SW: 95 NW: 95
64 KT NE: 65 SE: 75 SW: 75 NW: 65

120H: 2022/02/04 12 UTC: 18.6 S / 52.4 E, VENT MAX= 095 KT, INTENSE TROPICAL CYCLONE

28 KT NE: 250 SE: 380 SW: 325 NW: 240
34 KT NE: 175 SE: 240 SW: 240 NW: 155
48 KT NE: 90 SE: 100 SW: 100 NW: 90
64 KT NE: 70 SE: 70 SW: 70 NW: 60

2.C ADDITIONAL INFORMATION:

T=5.0 CI=5.0+

THE BATSIRAI EYE PATTERN IN VISIBLE IMAGERY HAS SHOWN FLUCTUATIONS DURING THE DAY, IMPROVING IN THE MIDDLE OF THE DAY AND LESS WELL DEFINED IN THE LAST IMAGES. THE INTENSITY REMAINS ESTIMATED AT 80 KT, POTENTIALLY A BIT CONSERVATIVE, BASED ON THE LAST OBJECTIVE AND SUBJECTIVE GUIDANCE.

NO BIG CHANGE ON THE TRACK PHILOSOPHY. BATSIRAI CONTINUES ITS TRAJECTORY TOWARDS THE WEST-NORTHWEST, DRIVEN BY A STEERING FLOW GENERATED BY THE SUBTROPICAL RIDGE. THE SYSTEM SHOULD PASS WELL NORTH OF RODRIGUES TOMORROW MONDAY.

ON MONDAY, THE SYSTEM SHOULD PROGRESSIVELY CURVE TOWARDS THE WEST-SOUTH-WEST AS THE RIDGE OF HIGH PRESSURE MOVES EASTWARDS. BY THE

MIDDLE OF NEXT WEEK, HOWEVER, BATSIRAI SHOULD SLOW DOWN WITH THE STRENGTHENING OF THE NEAR EQUATORIAL RIDGE TO THE NORTHEAST AND THE APPEARANCE OF A WEAKNESS IN THE SUBTROPICAL RIDGE. AS THIS SITUATION MAY GIVE RISE TO CONFLICTING STEERING FLOWS, UNCERTAINTY REMAINS MORE PRONOUNCED AT THE END OF THE RANGE AS REFLECTED IN THE VARIOUS LONG-RANGE MODELS. THE CURRENT FORECAST HAS BEEN RAISED A BIT NORTH IN LINE WITH THE LATEST AVAILABLE GUIDANCE.

BATSIRAI IS CURRENTLY WITHIN RATHER GOOD ENVIRONMENTAL CONDITIONS. WHILE AN EAST TO NORTHEASTERLY CONSTRAINT COULD BE FELT AT TIMES, THE ENVIRONMENTAL PARAMETERS ARE RATHER FAVORABLE FOR AN INTENSIFICATION DURING THE NEXT 5 DAYS. FLUCTUATIONS IN INTENSITY RELATED TO EYEWALL REPLACEMENT CYCLE(S) ARE LIKELY, LEADING TO SOME BROADENING OF THE WIND FIELD. THE LOW PREDICTABILITY OF THESE MECHANISMS MAINTAINS AN UNCERTAINTY ON THE INTENSITY PREDICTION.

POSSIBLE IMPACTS ON INHABITED LANDS :

- FOR RODRIGUES, A SLIGHT DEGRADATION OF THE CONDITIONS (NOTABLY A RISK OF BRIEF HEAVY RAINS) IS EXPECTED FROM THE NEXT NIGHT UNTIL TUESDAY.

- FOR MAURITIUS AND LA REUNION, A DEGRADATION OF THE CONDITIONS SHOULD START FROM TUESDAY. WITH THE NORTHWARD TREND OF THE LAST GUIDANCE, THE SCENARIO OF AN INFLUENCE OF THE PERIPHERY OF THE INNER CORE OF THE SYSTEM BECOMES THE MOST PROBABLE SCENARIO: HEAVY RAINS ON THE RELIEFS (NOTABLY REUNION) AND STRONG WIND GUSTS THAT CAN APPROACH 100 KM/H OR LOCALLY EXCEED THEM. THESE FORECASTS STILL NEED TO BE CONFIRMED AND PEOPLE ARE INVITED TO FOLLOW THE EVOLUTION OF THE SITUATION.