

WTIO30 FMEE 290635

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 13/2/20212022

1.A SEVERE TROPICAL STORM 2 (BATSIRAI)

2.A POSITION 2022/01/29 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 18.4 S / 71.2 E  
(EIGHTEEN DECIMAL FOUR DEGREES SOUTH AND  
SEVENTY ONE DECIMAL TWO DEGREES EAST)  
MOVEMENT: WEST 6 KT

3.A DVORAK ANALYSIS: 4.0/4.0/D 1.0/6 H

4.A CENTRAL PRESSURE: 987 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 50 KT  
RADIUS OF MAXIMUM WINDS (RMW): NIL

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

28 KT NE: 75 SE: 75 SW: 85 NW: 75  
34 KT NE: 55 SE: 55 SW: 45 NW: 45  
48 KT NE: 0 SE: 30 SW: 30 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1005 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/01/29 18 UTC: 18.5 S / 69.6 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM  
28 KT NE: 95 SE: 130 SW: 130 NW: 95  
34 KT NE: 65 SE: 75 SW: 85 NW: 65  
48 KT NE: 45 SE: 55 SW: 35 NW: 45

24H: 2022/01/30 06 UTC: 17.9 S / 67.6 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM  
28 KT NE: 95 SE: 130 SW: 110 NW: 95  
34 KT NE: 65 SE: 65 SW: 75 NW: 65  
48 KT NE: 45 SE: 45 SW: 0 NW: 45

36H: 2022/01/30 18 UTC: 17.4 S / 66.0 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM  
28 KT NE: 100 SE: 185 SW: 260 NW: 95  
34 KT NE: 75 SE: 100 SW: 110 NW: 65  
48 KT NE: 55 SE: 55 SW: 45 NW: 45

48H: 2022/01/31 06 UTC: 17.1 S / 64.3 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM  
28 KT NE: 120 SE: 280 SW: 295 NW: 150  
34 KT NE: 85 SE: 150 SW: 140 NW: 100  
48 KT NE: 65 SE: 65 SW: 55 NW: 45

60H: 2022/01/31 18 UTC: 17.2 S / 62.6 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM  
28 KT NE: 165 SE: 295 SW: 315 NW: 165  
34 KT NE: 110 SE: 165 SW: 185 NW: 120  
48 KT NE: 75 SE: 85 SW: 75 NW: 55

72H: 2022/02/01 06 UTC: 17.7 S / 60.7 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM  
28 KT NE: 195 SE: 325 SW: 335 NW: 195  
34 KT NE: 130 SE: 195 SW: 185 NW: 140  
48 KT NE: 75 SE: 85 SW: 65 NW: 65

2.B LONGER-RANGE OUTLOOK:

96H: 2022/02/02 06 UTC: 18.9 S / 56.8 E, VENT MAX= 065 KT, TROPICAL CYCLONE  
28 KT NE: 230 SE: 280 SW: 250 NW: 215  
34 KT NE: 155 SE: 185 SW: 175 NW: 150  
48 KT NE: 85 SE: 85 SW: 65 NW: 75  
64 KT NE: 55 SE: 45 SW: 55 NW: 55

120H: 2022/02/03 06 UTC: 19.3 S / 53.8 E, VENT MAX= 070 KT, TROPICAL CYCLONE  
28 KT NE: 260 SE: 260 SW: 250 NW: 325  
34 KT NE: 185 SE: 185 SW: 175 NW: 220  
48 KT NE: 90 SE: 80 SW: 60 NW: 90  
64 KT NE: 60 SE: 50 SW: 50 NW: 70

2.C ADDITIONAL INFORMATION:

T=CI=4.0

DURING THE LAST 6 HOURS, THE BATSIRAI CLOUD PATTERN HAS IMPROVED WITH A LOW LEVEL CENTER THAT REMAINED UNDER THE MAIN CONVECTION. THE CLOUD PATTERN LOOKING MORE LIKE A CDO AT 00Z, HAS PROGRESSIVELY TURNED INTO A CURVED BAND PATTERN, WITH A COLD BAND EXTENDING TO THE SOUTHEAST. THE LATEST SATELLITE IMAGES SHOW A PERSISTENT NORTHEASTERLY SHEAR, SUGGESTED BY THE VISIBLE IMAGERY AND CORROBORATED BY THE LATEST CIMMS DATA. THE MAX WIND INTENSITY IS BASED ON THE SMAP DATA FROM 0121Z, AS WELL AS THE ASCAT-B FROM 0507Z WHICH SUGGESTS STORM WINDS FORCE IN THE SOUTHERN SEMICIRCLE. GIVEN THESE OBJECTIVE DATA, BATSIRAI HAS BEEN UPGRADED TO A SEVERE TROPICAL STORM.

BATSIRAI IS EXPECTED TO CURVE SLIGHTLY TODAY TOWARDS THE WEST-SOUTHWEST WHILE SLOWING DOWN, ATTRACTED BY A SLIGHT WEAKNESS IN THE SUBTROPICAL RIDGE. FROM SUNDAY, THE STRENGTHENING OF THE HIGH GEOPOTENTIALS SOUTH OF MADAGASCAR SHOULD CURVE THE TRACK TOWARDS WEST-NORTH-WEST THEN WEST WHILE THE SYSTEM WILL TRACK CLOSE TO THE EAST OF THE MASCARENES WITH A TRACK DRIFTING NORTH OF RODRIGUES ON MONDAY. IN ADDITION, THE SETTING OF A NEAR EQUATORIAL TO THE NORTH-EAST OF THE SYSTEM AT THE BEGINNING OF NEXT WEEK, COULD TEMPORARILY GENERATE CONTRADICTORY DIRECTING FLOWS. THE UNCERTAINTY ON THE TRACK INCREASES SIGNIFICANTLY FROM THAT MOMENT. A STRONG DISPERSION IS STILL PRESENT IN THE ENSEMBLE FORECASTS, HENCE A STRONG UNCERTAINTY ON THE TIMING AND THE DISTANCE OF PASSAGE NEAR THE INHABITED LANDS OF THE MASCARENE ARCHIPELAGO.

THE SUSTAINED NORTHEASTERN CONSTRAINTS ALOFT SHOULD MORE OR LESS CONTAIN THE DEOPENING FOR THIS WEEKEND. BUT WITH THE LOW LEVEL CIRCULATION REMAIN SMALL, RAPID FLUCTUATIONS IN INTENSITY, DIFFICULT TO PREDICT, REMAIN QUITE POSSIBLE. FROM SUNDAY AND ESPECIALLY FROM MONDAY, THE CONSTITUTION OF A LARGER LOW CIRCULATION AND AN EVOLUTION OF THE SYSTEM NEAR THE UPPER RIDGE COULD ALLOW AN INTENSIFICATION, THANKS TO A BETTER LOW LEVEL CONVERGENCE, A GOOD UPPER DIVERGENCE AND A STRONG OCEANIC POTENTIAL. HOWEVER, THE SYSTEM SHOULD THEN BE MORE OR LESS INFLUENCED BY THE SOUTHERN EDGE OF A MODERATE SHEAR ZONE, BRINGING UNCERTAINTY ON THE INTENSIFICATION POTENTIAL. INTENSIFICATION TO TROPICAL CYCLONE STRENGTH SEEMS LIKELY AS THE SYSTEM MOVES NORTHWEST OF RODRIGUES.

POSSIBLE IMPACTS ON INHABITED LANDS :

BATSIRAI WILL STAY AWAY FROM INHABITED LANDS UNTIL SUNDAY INCLUDED. ON MONDAY, IT COULD TRACK NEAR THE NORTH OF RODRIGUES AT A DISTANCE STILL UNCERTAIN. MAURITIUS COULD BE CONCERNED FROM TUESDAY / WEDNESDAY, AGAIN WITH A STRONG UNCERTAINTY ON THE TRAJECTORY BUT ALSO ON THE INTENSITY OF THE SYSTEM AT THIS TIME AND ON THE CHRONOLOGY OF THE DEGRADATION. WITH THE PROBABILITY OF VERY DISTURBED WEATHER AND DANGEROUS SEAS INCREASING AT THE BEGINNING OR MIDDLE OF NEXT WEEK, THE INHABITANTS OF THE MASCARENE ISLANDS (RODRIGUES, MAURITIUS AND REUNION) ARE INVITED TO FOLLOW CLOSELY THE EVOLUTION OF THE FORECASTS AND TO PREPARE THEMSELVES FOR A POSSIBLE THREAT OF A MATURE TROPICAL SYSTEM.