

WTIO30 FMEE 280050

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 8/2/20212022

1.A MODERATE TROPICAL STORM 2 (BATSIRAI)

2.A POSITION 2022/01/28 AT 0000 UTC:

WITHIN 30 NM RADIUS OF POINT 18.1 S / 75.8 E

(EIGHTEEN DECIMAL ONE DEGREES SOUTH AND  
SEVENTY FIVE DECIMAL EIGHT DEGREES EAST)

MOVEMENT: WEST 17 KT

3.A DVORAK ANALYSIS: 3.0/4.0/W 2.5/12 H

4.A CENTRAL PRESSURE: 995 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT

RADIUS OF MAXIMUM WINDS (RMW): NIL

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

28 KT NE: 0 SE: 260 SW: 240 NW: 0

34 KT NE: 0 SE: 85 SW: 85 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 200 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2022/01/28 12 UTC: 18.4 S / 73.9 E, VENT MAX= 040 KT, MODERATE TROPICAL  
STORM

28 KT NE: 0 SE: 270 SW: 230 NW: 0

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

24H: 2022/01/29 00 UTC: 19.0 S / 72.5 E, VENT MAX= 040 KT, MODERATE TROPICAL  
STORM

28 KT NE: 0 SE: 260 SW: 220 NW: 0

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

36H: 2022/01/29 12 UTC: 19.7 S / 70.9 E, VENT MAX= 040 KT, MODERATE TROPICAL  
STORM

28 KT NE: 0 SE: 250 SW: 215 NW: 0

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

48H: 2022/01/30 00 UTC: 19.3 S / 69.1 E, VENT MAX= 035 KT, MODERATE TROPICAL  
STORM

28 KT NE: 0 SE: 240 SW: 205 NW: 0

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

60H: 2022/01/30 12 UTC: 18.9 S / 67.7 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

28 KT NE: 0 SE: 230 SW: 195 NW: 100

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

72H: 2022/01/31 00 UTC: 18.6 S / 66.3 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

28 KT NE: 0 SE: 215 SW: 195 NW: 110

34 KT NE: 0 SE: 140 SW: 140 NW: 65

#### 2.B LONGER-RANGE OUTLOOK:

96H: 2022/02/01 00 UTC: 18.6 S / 63.3 E, VENT MAX= 040 KT, MODERATE TROPICAL STORM

28 KT NE: 0 SE: 195 SW: 175 NW: 150

34 KT NE: 0 SE: 140 SW: 140 NW: 85

120H: 2022/02/02 00 UTC: 19.4 S / 60.0 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

28 KT NE: 175 SE: 175 SW: 165 NW: 100

34 KT NE: 100 SE: 140 SW: 140 NW: 75

48 KT NE: 80 SE: 80 SW: 60 NW: 60

#### 2.C ADDITIONAL INFORMATION:

T=3.0 CI=4.0

GMI AND AMSR2 MICROWAVE IMAGERY ACQUIRED AROUND 1930Z SHOW THAT THE LOW-LEVEL CENTER IS LOCATED AT THE NORTHERN EDGE OF THE DEEP CONVECTION AND THAT THE COMPACT CENTRAL CORE PRESENT UNTIL YESTERDAY EVENING IMPOLODED DURING THE NIGHT. THE INTENSITY ESTIMATE IS LOWER THAN THE DVORAK ESTIMATES AND IS CLOSE TO THE LAST SATCON ESTIMATES (46 KT 1-MIN AT 2032Z).

LITTLE CHANGE IN TERMS OF TRACK PHILOSOPHY AND TIMING COMPARED TO THE PREVIOUS FORECAST. WITH THE WEAKENING, BATSIRAI IS MOVING MORE TOWARDS THE WEST GUIDED BY THE LOW LEVELS SUBTROPICAL RIDGE TO THE SOUTH. ITS MOVEMENT SHOULD CONTINUE TO SLOW DOWN A BIT FROM TODAY IN RELATION WITH THE RELATIVE WEAKENING OF THE SUBTROPICAL RIDGE (BAROMETRIC COL SITUATION SOUTH OF THE SYSTEM). FROM SUNDAY, THE STRENGTHENING OF THE SUBTROPICAL RIDGE SOUTH OF MADAGASCAR SHOULD BEND THE TRAJECTORY TOWARDS WEST-NORTH-WEST THEN WEST WHILE THE SYSTEM WILL TRANSIT NEAR THE EAST OF THE MASCAREIGNES (NEAR RODRIGUES). IN THE FIRST PART OF NEXT WEEK, THE POSITIONING OF A MID LEVELS RIDGE TO THE EAST AND NORTHEAST OF THE SYSTEM WILL TEMPORARILY GIVE CONTRADICTORY STEERING FLOWS. THE UNCERTAINTY ON THE TRACK FORECAST INCREASES SIGNIFICANTLY FROM THAT MOMENT ON. AT THESE TIMES AND BECAUSE OF THE DISPERSION OF THE ENSEMBLE FORECASTS, A STRONG UNCERTAINTY ON THE TIMING AND THE DISTANCE OF PASSAGE NEAR INHABITED LANDS REMAINS PRESENT.

THE VERTICAL NORTHWARD SHEAR IN THE MID-TROPOSPHERE WITH INTRUSIONS OF DRY AIR IN THE MID-TROPOSPHERE SHOULD LIMIT THE POTENTIAL FOR RE-INTENSIFICATION OVER THE NEXT 3 DAYS. HOWEVER, A RAPID EVOLUTION, ASSOCIATED WITH THE MAINTENANCE OF A SMALL CIRCULATION, REMAINS

POSSIBLE AND WILL BE MONITORED.

FROM SUNDAY-MONDAY, A CHANGE OF STRUCTURE WITH THE CONSTITUTION OF A LARGER CLOCKWISE CIRCULATION AND A POSITION CLOSE TO THE UPPER RIDGE COULD ALLOW AN INTENSIFICATION, BUT THE NORTHEAST SHEAR SHOULD REMAIN SENSITIVE AND MAKE THIS INTENSIFICATION TREND RATHER SLOW.

POSSIBLE IMPACTS ON INHABITED LANDS :

THIS SYSTEM WILL STAY AWAY FROM INHABITED LANDS UNTIL SUNDAY INCLUDED. FROM MONDAY (DELAYED TIMING), IT COULD APPROACH THE EAST OF THE MASCAREIGNES IN PARTICULAR RODRIGUES. IF IT IS STILL TOO EARLY TO ESTIMATE RELIABLY THE IMPACTS OF THIS SYSTEM ON THIS ISLAND, THE PROBABILITIES OF WEATHER AND DANGEROUS SEA INCREASE FROM MONDAY. THE INHABITANTS OF THE MASCAREIGNES (RODRIGUES, MAURITIUS AND REUNION) ARE THEREFORE INVITED TO FOLLOW ITS EVOLUTION.