

WTIO30 FMEE 211211

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 34/10/20222023

1.A FILLING UP 10 (FABIEN)

2.A POSITION 2023/05/21 AT 1200 UTC:

WITHIN 30 NM RADIUS OF POINT 11.2 S / 68.6 E

(ELEVEN DECIMAL TWO DEGREES SOUTH AND
SIXTY EIGHT DECIMAL SIX DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-WEST 3 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 1000 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: 130 SE: 195 SW: 205 NW: 130

34 KT NE: 0 SE: 0 SW: 95 NW: 0

48 KT NE: 0 SE: 0 SW: 0 NW: 0

64 KT NE: 0 SE: 0 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: SHALLOW

1.B FORECASTS (WINDS RADII IN KM):

12H: 2023/05/22 00 UTC: 12.4 S / 68.5 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 0 SE: 130 SW: 150 NW: 85

24H: 2023/05/22 12 UTC: 13.7 S / 68.5 E, VENT MAX= 025 KT, FILLING UP

36H: 2023/05/23 00 UTC: 14.5 S / 68.6 E, VENT MAX= 025 KT, FILLING UP

48H: 2023/05/23 12 UTC: 14.9 S / 68.4 E, VENT MAX= 020 KT, DISSIPATING

60H: 2023/05/24 00 UTC: 15.4 S / 67.7 E, VENT MAX= 020 KT, DISSIPATING

72H: 2023/05/24 12 UTC: 15.9 S / 66.7 E, VENT MAX= 020 KT, DISSIPATING

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

THE DEEP CONVECTION THAT HAD RESUMED IN THE NORTHWEST QUADRANT

DURING THE DAY IS WARMING UP, AND SHOULD DISAPPEAR AGAIN AT THE END OF THE DAY. THE CIRCULATION CAN BE SEEN UNDER THE CIRRHUS CLOUDS TO THE SOUTH-EAST OF IT. THE CENTER IS DIFFICULT TO LOCATE ON SATELLITE IMAGERY IN THE ABSENCE OF OTHER DATA.

IN THE ABSENCE OF RELIABLE DATA SINCE THE LAST NETWORK, THE MAXIMUM WINDS ARE ESTIMATED AT 35KT IN THE SOUTHWEST QUADRANT.

FABIEN IS CONTINUING ITS SLOW MOVEMENT GLOBALLY TOWARDS THE SOUTHWEST, WITH A STEERING FLOW DRIVEN BY A RIDGE EAST OF THE SYSTEM, INDUCING A MORE MERIDIAN TRAJECTORY NEXT NIGHT.

FROM TUESDAY ONWARDS, WITH AN EXPECTED LOWERING OF THE LEVEL OF THE STEERING FLOW, THE TRAJECTORY SHOULD ONCE AGAIN BE ORIENTED TOWARDS THE SOUTHWEST. EVEN IF THERE IS A CONSENSUS ON THE PHILOSOPHY OF THE TRAJECTORY, THERE IS STILL QUITE A LOT OF DISPERSION WITHIN THE ENSEMBLE AND DETERMINISTIC FORECASTS. IFS IN PARTICULAR PROPOSES A FASTER DISPLACEMENT AND THEREFORE A MUCH MORE SOUTHERLY POSITION. THE PRESENT FORECAST IS A COMPROMISE BETWEEN THE MAIN MODELS, ESPECIALLY BETWEEN IFS AND GFS.

BY MONDAY EVENING, THE SOUTH-WESTERN SHEAR SHOULD STRENGTHEN AGAIN AND LEAD TO THE FINAL WEAKENING OF FABIEN. INDEED IN A VERY DRY ENVIRONMENT AND WITH A WEAK SURFACE CONVERGENCE, THE SYSTEM SHOULD FILL UP GRADUALLY.

THIS IS THE LAST WARNING ABOUT THE SYSTEM FABIEN EXCEPT REINTENSIFICATION.