

WTIO30 FMEE 280050

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 27/8/20222023

1.A REMNANT LOW 8 (ENALA)

2.A POSITION 2023/02/28 AT 0000 UTC:

WITHIN 40 NM RADIUS OF POINT 28.1 S / 67.9 E

(TWENTY EIGHT DECIMAL ONE DEGREES SOUTH AND  
SIXTY SEVEN DECIMAL NINE DEGREES EAST)

MOVEMENT: NORTH 4 KT

3.A DVORAK ANALYSIS: NIL

4.A CENTRAL PRESSURE: 999 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: 140 SE: 175 SW: 175 NW: 175

34 KT NE: 0 SE: 100 SW: 100 NW: 100

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1015 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: MEDIUM

1.B FORECASTS (WINDS RADII IN KM):

12H: 2023/02/28 12 UTC: 27.3 S / 67.9 E, VENT MAX= 030 KT, REMNANT LOW

28 KT NE: 120 SE: 215 SW: 175 NW: 110

24H: 2023/03/01 00 UTC: 26.9 S / 67.7 E, VENT MAX= 035 KT, POST-TROPICAL  
DEPRESSION

28 KT NE: 155 SE: 205 SW: 230 NW: 130

34 KT NE: 0 SE: 150 SW: 95 NW: 0

36H: 2023/03/01 12 UTC: 26.6 S / 67.1 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 110 SE: 185 SW: 140 NW: 0

48H: 2023/03/02 00 UTC: 27.3 S / 66.0 E, VENT MAX= 025 KT, FILLING UP

60H: 2023/03/02 12 UTC: 28.6 S / 65.9 E, VENT MAX= 025 KT, FILLING UP

72H: 2023/03/03 00 UTC: 30.1 S / 66.9 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

96H: 2023/03/04 00 UTC: 35.5 S / 70.7 E, VENT MAX= 025 KT, FILLING UP

2.C ADDITIONAL INFORMATION:

DURING THE NIGHT, THE CLOUD PATTERN OF THE SYSTEM GRADUALLY EVOLVED TOWARDS A SHEARED PATTERN WITH A RESIDUAL CONVECTION REJECTED IN THE EASTERN SEMICIRCLE, UNDER THE EFFECT OF AN INCREASE OF THE VERTICAL DEEP AND MID-SHEAR SHEAR. IF THE LOW LEVEL CIRCULATION IS STILL SYMMETRICAL AND QUITE WELL DEFINED (CF SSMIS OF 2308Z ARRIVING JUST AFTER THE BULLETINS WERE SENT), THE GEOGRAPHICAL EXTENSION OF THE DEEP CONVECTION HAS SIGNIFICANTLY DECREASED DURING THE LAST 24 HOURS IN CONNECTION WITH MORE MARKED DRY INTRUSIONS WITHIN THE CLOKWISE CIRCULATION. THE INTENSITY IS EXTRAPOLATED TO 35 KT FOLLOWING THE SCATT ESTIMATES OF YESTERDAY EVENING.

NO CHANGE IN THE PHILOSOPHY OF THE TRACK EXPECTED IN THE NEXT FEW DAYS: ENALA HAS ACCELERATED IN A GENERAL NORTHERLY DIRECTION UNDER THE INFLUENCE OF A SUBTROPICAL RIDGE OF LOW AND MID TROPOSPHERE LOCATED WEST OF THE SYSTEM. FROM WEDNESDAY, THE STEERING FLOW SHOULD GO BACK DOWN IN THE LOW LAYERS FOLLOWING THE WEAKENING OF THE SYSTEM. ENALA SHOULD THEN BE ON THE NORTHWEST TO WEST SIDE OF A LOW LEVEL RIDGE, AHEAD OF A MID-LATITUDE TROUGH THAT WILL EVENTUALLY ABSORB IT IN THE SECOND PART OF THE WEEK. THE RSMC FORECAST IS BASED ON AN UNDERSTANDING BETWEEN THE BEST AVAILABLE GUIDANCE, WHICH IS NOW GLOBALLY MORE COHERENT THAN 24 HOURS AGO.

CONCERNING THE INTENSITY OF THE SYSTEM, THE WEST TO SOUTHWEST SHEAR IS STRENGTHENING AND STRONGLY IMPACTING THE ENALA STRUCTURE. THE OCEANIC POTENTIAL REMAINS VERY MARGINAL AND FROM THIS EVENING, THE SYSTEM COULD TEMPORARILY BE IN A BAROCLINIC ENVIRONMENT IN INTERACTION WITH THE ARRIVAL OF A NEW UPPER TROUGH. A SLIGHT AND TEMPORARY INTENSIFICATION IS POSSIBLE BUT IN THIS CASE, THE SYSTEM SHOULD LOSE ITS TROPICAL CHARACTERISTICS. THE UPPER TROUGH WILL EVACUATE RAPIDLY TOMORROW WEDNESDAY AND A FINAL FILLING PHASE IS THEN EXPECTED FOR THE REST OF THE WEEK.

LAST ADVISORY ON THIS SYSTEM. FUTHER INFORMATION WILL BE AVAILABLE ON A DAILY BASIS WITH THE WTIO30 FMEE BULLETIN.