

WTIO30 FMEE 061321

RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 17/6/20162017

1.A INTENSE TROPICAL CYCLONE 6 (ENAWO)

2.A POSITION 2017/03/06 AT 1200 UTC:

WITHIN 15 NM RADIUS OF POINT 14.1 S / 53.1 E

(FOURTEEN DECIMAL ONE DEGREES SOUTH AND FIFTY THREE DECIMAL ONE DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 6 KT

3.A DVORAK ANALYSIS: 5.5/5.5/D 1.0/24 H

4.A CENTRAL PRESSURE: 954 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 90 KT

RADIUS OF MAXIMUM WINDS (RMW) :37 KM

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

28 KT NE: 260 SE: 370 SW: 300 NW: 260

34 KT NE: 190 SE: 300 SW: 240 NW: 190

48 KT NE: 150 SE: 170 SW: 150 NW: 150

64 KT NE: 90 SE: 90 SW: 90 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 1000 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2017/03/07 00 UTC: 14.7 S / 51.5 E, MAX WIND=100 KT, INTENSE TROPICAL CYCLONE

24H: 2017/03/07 12 UTC: 15.4 S / 50.1 E, MAX WIND=100 KT, INTENSE TROPICAL CYCLONE

36H: 2017/03/08 00 UTC: 16.3 S / 48.9 E, MAX WIND=070 KT, OVERLAND DEPRESSION

48H: 2017/03/08 12 UTC: 17.5 S / 47.9 E, MAX WIND=040 KT, OVERLAND DEPRESSION

60H: 2017/03/09 00 UTC: 19.2 S / 47.1 E, MAX WIND=025 KT, OVERLAND DEPRESSION

72H: 2017/03/09 12 UTC: 21.2 S / 46.9 E, MAX WIND=000 , OVERLAND DEPRESSION

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=CI=5.5

OVER THE PAST HOURS, THE EYE PATTERN BECAME WELL DEFINED WITH A COLD

RING. ENAWO INTENSITY WAS THUS UPGRADED TO INTENSE TROPICAL CYCLONE. 0854Z AMRS2 37 COLOR DATA CONFIRM THE IMPROVEMENT (MORE SYMMETRIC AND SMALLER EYE) IN COMPARISON WITH 0217Z WINDSAT. ENAWO STARTED TO MOVE WEST-SOUT-WESTWARDS.

THE MID-TROPOSPHERE RIDGE OVER SOUTH OF MADAGASCAR CONTINUES TO ORIENT THE TRACK IN A GENERAL DIRECTION TOWARDS WEST-SOUTHWEST. THIS TRACK WILL MAINTAIN WITH A RELATIVELY CONSTANT SPEED BEFORE THE LANDFALL, EXPECTED TOMMORROW ON MADAGASCAR. THEN, ENAWO SHOULD FOLLOW A PARABOLIC TRACK SOUTHWARDS, BECAUSE OF THE WEAKENING OF THE MID-TROPOSPHERE RIDGE ON MADAGASCAR. RESIDUAL VORTEX SHOULD TRANSIT ON LAND TOWARDS SOUTH AND DISSIPATE.

THE GOOD ENVIRONMENTAL CONDITIONS (EXCELLENT UPPER DIVERGENCE, HIGH OHC ...) UP TO TOMORROW SHOULD ALLOW THE SYSTEM TO CONTINUE ITS INTENSIFICATION UNTIL THE FINAL APPROACH OF MADAGASCAR. HOWEVER A SLIGHT EASTERLY UPPER CONSTRAINT MAY PREVENT ENAWO FROM REACHING THE VERY INTENSE STAGE.

ENAWO IS NOW A VERY DANGEROUS CYCLONE, THREATENING THE NORTH-EAST OF MADAGASCAR. NPW ARE IN VERY GOOD AGREEMENT OVER SEVERAL RUNS TO SUGGEST A LANDFALL OVER THE MASAOLA PENINSULA SOUTH OF ANTALAHA TOMORROW. THE LANDFALL TIMING REMAINS THE SAME NEAR MIDDAY, WITH LITTLE UNCERTAINTY IN NUMERICAL GUIDANCE. ANTONGIL BAY IS MORE LIKELY TO UNDERGO SIGNIFICANT STORM SURGE. IT IS EXPECTED TO REACH 3-4 METERS NEAR MAROANTSETRA BUT CLOSER TO 1 METER SOUTH OF ANTALAHA AND NEAR ANTANAMBE.