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WTIO30 FMEE 030702

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

0.A WARNING NUMBER: 4/6/20162017

1.A MODERATE TROPICAL STORM 6 (ENAWO)

2.A POSITION 2017/03/03 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 12.8 S / 57.0 E

(TWELVE DECIMAL EIGHT DEGREES SOUTH AND FIFTY SEVEN DECIMAL ZERO DEGREES EAST)

MOVEMENT : WEST-SOUTH-WEST 10 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 998 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW) :46 KM

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

28 KT NE: 110 SE: 0 SW: 240 NW: 280

34 KT NE: 0 SE: 0 SW: 90 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 1400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2017/03/03 18 UTC: 13.2 S / 55.9 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

24H: 2017/03/04 06 UTC: 13.6 S / 55.7 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

36H: 2017/03/04 18 UTC: 13.9 S / 55.8 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

48H: 2017/03/05 06 UTC: 14.2 S / 55.5 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

60H: 2017/03/05 18 UTC: 14.7 S / 54.6 E, MAX WIND=070 KT, TROPICAL CYCLONE

72H: 2017/03/06 06 UTC: 15.0 S / 53.6 E, MAX WIND=080 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2017/03/07 06 UTC: 16.0 S / 51.4 E, MAX WIND=095 KT, INTENSE TROPICAL CYCLONE

120H: 2017/03/08 06 UTC: 18.4 S / 50.0 E, MAX WIND=100 KT, INTENSE TROPICAL CYCLONE

2.C ADDITIONAL INFORMATION:

T=CI=2.5+

OVER THE LAST 6 HOURS, THE CLOUD PATTERN HAS SHIFT TOWARDS A CURVED BAND PATTERN THAT WRAPS 0.5° AROUND THE LLCC (A BIT MORE SOMETIMES). PARTIAL ASCAT-B DATA OF THIS MORNIG SUGGEST THAT GALE FORCE WINDS ARE ONLY WITHIN THE WESTERN SEMI-CIRCLE.

THE CURRENT TRACK IS DRIVEN BY A SUBTROPICAL RIDGE. THIS RIDGE SHOULD GRADUALLY WEAKEN OVER THE WEEK-END, LEAVING THE SYSTEM DRIFTING WITHIN A WEAK STEERING ENVIRONMENT (A SOUTHWARDS DRIFT IS POSSIBLE). IN THE BEGINNING OF NEXT WEEK, THE AVAILABLE MODELS SEEM TO CONVERGE TOWARD A MORE ZONAL TRACK AND A DELAYED PARABOLIC TRACK, BRINGING THE SYSTEM SIGNIFICANTLY CLOSER OF THE EASTERN COAST OF MADAGASCAR.

AS THE LIGHT UPPER SHEAR SHOULD DISAPPEAR BY THIS EVENING, THE ENVIRONMENTAL CONDITIONS ARE THEN ALL CONDUCIVE FOR A STEADY INTENSIFICATION. THE UPPER DIVERGENCE SHOULD REMAIN WELL ESTABLISHED. FURTHERMORE, THE SYSTEM SHOULD ONLY TRACK OVER WATERS WITH HIGH ENERGY CONTENT.

THE THREAT IS INCREASING FOR THE EASTERN COAST OF MADAGASCAR. THE WORST CASE SCENARII SUGGEST A POSSIBLE LANDFALL EARLY NEXT WEEK.