

WTIO30 FMEE 020724

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

0.A WARNING NUMBER: 1/6/20172018

1.A TROPICAL DISTURBANCE 6

2.A POSITION 2018/03/02 AT 0600 UTC:

WITHIN 30 NM RADIUS OF POINT 13.5 S / 53.6 E

(THIRTEEN DECIMAL FIVE DEGREES SOUTH AND FIFTY THREE DECIMAL SIX DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-WEST 5 KT

3.A DVORAK ANALYSIS: 2.0/2.0/D 1.0/24 H

4.A CENTRAL PRESSURE: 1002 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 25 KT

RADIUS OF MAXIMUM WINDS (RMW) :74 KM

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 900 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/03/02 18 UTC: 13.9 S / 53.8 E, MAX WIND=030 KT, TROPICAL DEPRESSION

24H: 2018/03/03 06 UTC: 14.6 S / 53.8 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

36H: 2018/03/03 18 UTC: 16.2 S / 53.2 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

48H: 2018/03/04 06 UTC: 18.2 S / 52.3 E, MAX WIND=065 KT, TROPICAL CYCLONE

60H: 2018/03/04 18 UTC: 19.8 S / 52.0 E, MAX WIND=075 KT, TROPICAL CYCLONE

72H: 2018/03/05 06 UTC: 21.3 S / 52.2 E, MAX WIND=085 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK :

96H: 2018/03/06 06 UTC: 24.6 S / 55.0 E, MAX WIND=070 KT, TROPICAL CYCLONE

120H: 2018/03/07 06 UTC: 28.3 S / 58.3 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

2.C ADDITIONAL INFORMATION:

T=CI=2.0-

DURING THE LAST HOURS, UNDER THE COMBINED EFFECT OF THE STRENGTHENING MONSOON FLOW AND THE TEMPORALY TRADES BURSTS, AND ASSOCIATED TO THE

STRENGTHENING THE NIGHT CONVECTION, THE ZONE OF DISTURBED WEATHER FOLLOWED YESTERDAY NORTH OF THE MASCAREIGNES HAS REACHED TROPICAL DISTURBANCE INTENSITY.

ACCORDING TO LAST ASCAT DATA (02/03 AT 05H15UTC) THE CIRCULATION REMAINS QUITE LARGE, BUT IS EXPECTED TO CONCENTRATE AS THE UPPER LEVEL CONDITIONS ENVIRONMENT IS FAVORABLE TO INTENSIFICATION (VERY GOOD UPPER LEVEL DIVERGENCE AND EQUATORIAL OUTFLOW CHANNEL).

IN A FIRST TIME, THE MOVEMENT SHOULD REMAINS WEAK UNDER THE EFFECT OF TWO ANTAGONIST STEERING FLOWS, EASTWARDS IN THE NORTH AND SOUTHWESTWARDS IN THE SOUTH.

ON SATURDAY, THE SYSTEM IS FORECAST TO INTENSIFY RAPIDLY DUE TO A BUILDING SECOND POLAR OUTFLOW CHANNEL. IT WILL TRACK SLOWLY SOUTHWARDS TO SOUTHWESTWARDS AS A RIDGE BUILDS IN THE MIDDLE LEVEL IN THE EAST OF THE SYSTEM.

ON SUNDAY, THE SYSTEM GOES ON INTENSIFYING, WITH ONLY ON POLAR OUTFLOW CHANNEL LEFT, TRACKING MORE SOUTHWARDS UNDER THE STEERING FLOW OF THE RIDGE PRESENT AT 400HPA.

ON MONDAY, THE SYSTEM IS FORECAST TO BEGIN WEAKENING UNDER A STRENGTHENING WESTERLY UPPER LEVEL CONSTRAINT. THE SYSTEM WILL RECURVE SOUTHEASTWARDS UNDER THE STEERING RIDGE LOCATE NORTHEAST THEN NORTH OF THE SYSTEM.