

WTIO30 FMEE 140701

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

0.A WARNING NUMBER: 1/1/20182019

1.A TROPICAL DISTURBANCE 1

2.A POSITION 2018/09/14 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 9.3 S / 74.1 E

(NINE DECIMAL THREE DEGREES SOUTH AND SEVENTY FOUR DECIMAL ONE
DEGREES EAST)

MOVEMENT : SOUTH-WEST 6 KT

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

4.A CENTRAL PRESSURE: 1005 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :NIL

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2018/09/14 18 UTC: 10.0 S / 72.9 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

24H: 2018/09/15 06 UTC: 10.7 S / 71.1 E, MAX WIND=030 KT, TROPICAL DEPRESSION

36H: 2018/09/15 18 UTC: 11.2 S / 69.0 E, MAX WIND=030 KT, TROPICAL DEPRESSION

48H: 2018/09/16 06 UTC: 11.9 S / 67.1 E, MAX WIND=030 KT, TROPICAL DEPRESSION

60H: 2018/09/16 18 UTC: 13.0 S / 65.0 E, MAX WIND=025 KT, FILLING UP

72H: 2018/09/17 06 UTC: 14.0 S / 63.0 E, MAX WIND=025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK :

96H: 2018/09/18 06 UTC: 14.8 S / 59.4 E, MAX WIND=025 KT, FILLING UP

2.C ADDITIONAL INFORMATION:

FT=CI=2.0

SATELLITE DATA SHOW THAT THE SYSTEM FORMED YESTERDAY EAST OF THE
CHAGOS ARCHIPELAGO HAS INTENSIFIED OVER THE LAST 24 HOURS. HIGH
RESOLUTION MSG-1 DATA REVEAL A SMALL BUT WELL-DEFINED LOW LEVEL

CIRCULATION ASSOCIATED WITH CURVED BANDING DEEP CONVECTION. HOWEVER THE THUNDERSTORM ACTIVITY STILL APPEAR FLUCTUATING AT THIS TIME.

THE SYSTEM IS BENEATH LIGHT TO MODERATE EASTERLY SHEAR NORTH OF THE UPPER LEVEL RIDGE. THE LOW LEVEL CONVERGENCE IS POOR EQUATORWARD AND GOOD ON THE TRADEWINDS SIDE. DRY MID LEVEL AIR WRAPS AROUND THE OUTER CIRCULATION IN THE WESTERN AND NORTHERN SECTORS. OCEANIC HEAT CONTAIN IS CURRENTLY SUFFICIENT.

WITHIN THE NEXT 48 HOURS, THE SYSTEM IS EXPECTED TO EVOLVE WITHIN MARGINAL ENVIRONMENTAL CONDITIONS AND ONLY MODEST INTENSIFICATION IS SUGGESTED. HOWEVER GIVEN THE EXCELLENT INITIAL DEFINITION OF THE LOW LEVEL CIRCULATION, ONE CAN NOT RULED OUT SOME MORE INTENSIFICATION UP TO THE TROPICAL STORM STAGE DURING THAT TIME.

MONDAY AND BEYOND, THE SYSTEM SHOULD EVOLVE WITHIN A MORE MID-LEVEL DRY ENVIRONMENT, WITH TILL SOME SHEAR AND MOVE OVER COOLER WATERS (LITTLE OR NO OCEANIC HEAT CONTAIN SOUTH OF 12S). GRADUAL WEAKENING IS ANTICIPATED BY THAT TIME.

THE CURRENT INTENSITY DOES NOT REQUIRE THE ISSUANCE OF REGULAR WARNINGS AT THIS TIME.