

WTIO30 FMEE 240642

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 1/7/20182019

1.A TROPICAL DEPRESSION 7

2.A POSITION 2019/01/24 AT 0600 UTC:

WITHIN 21 NM RADIUS OF POINT 24.2 S / 42.1 E

(TWENTY FOUR DECIMAL TWO DEGREES SOUTH AND
FORTY TWO DECIMAL ONE DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-EAST 10 KT

3.A DVORAK ANALYSIS: 2.5/2.5/S 0.0/0 H

4.A CENTRAL PRESSURE: 998 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 30 KT

RADIUS OF MAXIMUM WINDS (RMW): 111 KM

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

28 KT NE: 190 SE: 0 SW: 0 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/01/24 18 UTC: 25.9 S / 42.9 E, VENT MAX= 035 KT, MODERATE TROPICAL
STORM

24H: 2019/01/25 06 UTC: 28.5 S / 45.2 E, VENT MAX= 030 KT, TROPICAL DEPRESSION

36H: 2019/01/25 18 UTC: 30.3 S / 49.1 E, VENT MAX= 035 KT, SUBTROPICAL DEPRESSION

48H: 2019/01/26 06 UTC: 32.5 S / 52.9 E, VENT MAX= 030 KT, FILLING UP

60H: 2019/01/26 18 UTC: 35.1 S / 56.3 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:

NIL

2.C ADDITIONAL INFORMATION:

THE ZONE OF DISTURBED WEATHER LOCATED NEAR EUROPA ISLAND FOR 48 HOURS
HAS SEEN ITS LOWLEVEL CLOCKWISE CIRCULATION STRUCTURED SINCE THE LAST
12 HOURS. THE 0306UTC SSMIS SWATH OF THIS MORNING VALIDATES A BETTER
DEFINED LOWLEVEL CIRCULATION. THE 1916UTC ASCAT SWATH OF YESTERDAY
ESTIMATES MAXIMUM WINDS IN THE ORDER OF 30KT IN THE EASTERN SECTOR OF
THE 07S SYSTEM. THIS ANALYSIS CLASSIFIES THE 07S SYSTEM AS A TROPICAL
DEPRESSION. DURING THE LAST 6 HOURS, CONVECTION HAS BEEN ORGANIZED IN
CDO PATTERN WITH INCREASED ACTIVITY IN THE NORTHEAST SECTOR.

IN TERMS OF TRACK FORECAST, THE MODELS ARE IN GOOD AGREEMENT: THE LOW-LEVEL TROUGH WHICH FLOWS FURTHER SOUTH INDUCES A TRACK TOWARDS THE SOUTH-EAST. SUBSEQUENTLY, CAPTURED IN THE CIRCULATION OF THIS TROUGH, THE SYSTEM WILL ACCELERATE AND EVACUATE RAPIDLY TOWARDS THE SOUTH-SOUTHEAST.

UNDER THE EFFECT OF THE UPPER-LEVEL TROUGH, THE INTENSITY WILL INCREASE TODAY TO REACH THE MODERATE TROPICAL STORM THRESHOLD. THIS INTENSIFICATION WILL BE SHORT-LIVED DUE TO VERTICAL WIND SHEAR. FROM FRIDAY EVENING ONWARDS, THE SYSTEM SHOULD EVOLVE INTO A SUB-TROPICAL SYSTEM BEFORE GRADUALLY FILLING UP BY MOVING TOWARDS MORE SOUTHERLY LATITUDES.