

WTIO30 FMEE 210640

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

0.A WARNING NUMBER: 13/5/20182019

1.A INTENSE TROPICAL CYCLONE 5 (CILIDA)

2.A POSITION 2018/12/21 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 14.6 S / 58.0 E

(FOURTEEN DECIMAL SIX DEGREES SOUTH AND FIFTY EIGHT DECIMAL ZERO  
DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-WEST 5 KT

3.A DVORAK ANALYSIS: 5.5/5.5/D 1.5/24 H

4.A CENTRAL PRESSURE: 955 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 95 KT

RADIUS OF MAXIMUM WINDS (RMW) :24 KM

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

28 KT NE: 170 SE: 280 SW: 310 NW: 130

34 KT NE: 80 SE: 150 SW: 150 NW: 70

48 KT NE: 60 SE: 60 SW: 60 NW: 60

64 KT NE: 50 SE: 50 SW: 50 NW: 40

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1010 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/12/21 18 UTC: 15.5 S / 57.7 E, MAX WIND=100 KT, INTENSE TROPICAL  
CYCLONE

24H: 2018/12/22 06 UTC: 17.1 S / 58.2 E, MAX WIND=105 KT, INTENSE TROPICAL  
CYCLONE

36H: 2018/12/22 18 UTC: 18.8 S / 58.9 E, MAX WIND=100 KT, INTENSE TROPICAL  
CYCLONE

48H: 2018/12/23 06 UTC: 21.0 S / 60.2 E, MAX WIND=090 KT, INTENSE TROPICAL  
CYCLONE

60H: 2018/12/23 18 UTC: 23.3 S / 62.1 E, MAX WIND=075 KT, TROPICAL CYCLONE

72H: 2018/12/24 06 UTC: 25.6 S / 64.1 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2018/12/25 06 UTC: 29.8 S / 68.3 E, MAX WIND=045 KT, POST-TROPICAL  
DEPRESSION

120H: 2018/12/26 06 UTC: 34.9 S / 71.6 E, MAX WIND=040 KT, POST-TROPICAL  
DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=5.5+

OVER THE PAST SIX HOURS, CILIDA CLOUD PATTERN, BARELY EVOLVED. RAW DVORAK ANALYSIS KEEP ON OSCILLATING BETWEEN 5.0 AND 6.0. CURRENT INTENSITY IS THEREFORE MAINTAINED TO 95KT, IN AGREEMENT WITH OTHERS ANALYSIS (ADT/SATCON). FROM 00Z, LAST MICROWAVES SHOW NO SIGNIFICANT CHANGE.

NO SIGNIFICANT CHANGE ON THE TRACK FORECAST : CILIDA IS STILL STEERED BY A MID-TROPOSPHERE SUBTROPICAL RIDGE IN THE SOUTH-EAST THAT DRIVES A DUE SOUTH-SOUTH-WESTWARDS MOTION UNTIL LATER TODAY OR THIS EVENING. THEN, WITH THE EASTWARD SHIFT OF THE SUBTROPICAL HIGH GEOPOTENTIALS AND THE ARRIVAL OF A MID-LEVEL TROUGH FROM THE WEST (SEEN OFF SOUTH-EASTERN AUSTRAL AFRICA IN WV IMAGERY), CILIDA SHOULD SLOW DOWN WHILE GRADUALLY TURNING SOUTH-SOUTH-EASTWARDS TONIGHT AND THEN SOUTH-EASTWARD AS IT WILL ACCELERATE SATURDAY. THE MODEL DISPERSION REMAINS RELATIVELY LOW, SPECIALLY REGARDS TO CROSS TRACK SPREAD.

THE SHEAR IS DECREASING AS THE SYSTEM MOVE CLOSER TO THE UPPER LEVEL RIDGE AND BENEFIT FROM VERY GOOD ENVIRONMENTAL CONDITIONS UNTIL SATURDAY (WITH A VERY GOOD UPPER DIVERGENCE INCREASED BY TWO OUTFLOW CHANNELS).EYEWALL REPLACEMENT CYCLE MAY HAPPEN AND COULD MODULATE THE INTENSITY (NO CHANGE IN CIMSS MPERC PROBABILITY)

FROM SATURDAY, A STRENGTHENING OF THE WEST-NORTH-WESTERLY SHEAR AHEAD OF AN UPPER TROUGH AND A DRIER MID-LEVEL ENVIRONMENT SHOULD TRIGGER THE WEAKENING OF THE SYSTEM, AS IT EVACUATES TOWARDS THE MID-LATITUDES. AT THE END OF THE PERIOD, UNDER THE INFLUENCE OF THIS UPPER TROUGH THAT SHOULD EVENTUALLY CATCH UP, THE SYSTEM SHOULD BEGIN AN EXTRATROPICALISATION PHASE.

CILIDA IS NOW A VERY DANGEROUS TROPICAL CYCLONE AND IS POSING A POTENTIAL THREAT TO THE MASCARENES ISLANDS (MAINLY MAURITIUS AND RODRIGUES ISLANDS). THE INHABITANTS OF THESE ISLANDS ARE INVITED TO CLOSELY MONITOR THE PROGRESS OF THE SYSTEM.