

WTIO30 FMEE 111414 CCA

*****CORRECTIVE*****

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

0.A WARNING NUMBER: 10/4/20242025

1.A TROPICAL CYCLONE 4 (CHIDO)

2.A POSITION 2024/12/11 AT 1200 UTC:
WITHIN 10 NM RADIUS OF POINT 10.5 S / 57.5 E
(TEN DECIMAL FIVE DEGREES SOUTH AND
FIFTY SEVEN DECIMAL FIVE DEGREES EAST)
MOVEMENT: WEST 8 KT

3.A DVORAK ANALYSIS: 5.5/5.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 965 HPA
5.A MAX AVERAGE WIND SPEED (10 MN): 85 KT
RADIUS OF MAXIMUM WINDS (RMW): 15 KM

6.A EXTENSION OF WIND BY QUADRANTS (KM):
28 KT NE: 110 SE: 215 SW: 215 NW: 110
34 KT NE: 75 SE: 75 SW: 75 NW: 75
48 KT NE: 45 SE: 45 SW: 50 NW: 45
64 KT NE: 30 SE: 30 SW: 30 NW: 30

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 700 KM
8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):
12H: 2024/12/12 00 UTC: 10.6 S / 55.5 E, VENT MAX= 095 KT, INTENSE TROPICAL
CYCLONE
28 KT NE: 120 SE: 195 SW: 195 NW: 110
34 KT NE: 95 SE: 95 SW: 110 NW: 85
48 KT NE: 45 SE: 55 SW: 55 NW: 65
64 KT NE: 35 SE: 35 SW: 45 NW: 45

24H: 2024/12/12 12 UTC: 10.8 S / 53.7 E, VENT MAX= 095 KT, INTENSE TROPICAL
CYCLONE
28 KT NE: 120 SE: 195 SW: 195 NW: 120
34 KT NE: 95 SE: 95 SW: 110 NW: 95
48 KT NE: 55 SE: 55 SW: 55 NW: 45
64 KT NE: 45 SE: 35 SW: 45 NW: 35

36H: 2024/12/13 00 UTC: 11.2 S / 51.7 E, VENT MAX= 090 KT, INTENSE TROPICAL
CYCLONE
28 KT NE: 110 SE: 185 SW: 195 NW: 130

34 KT NE: 85 SE: 95 SW: 110 NW: 100
48 KT NE: 55 SE: 55 SW: 55 NW: 45
64 KT NE: 45 SE: 35 SW: 35 NW: 35

48H: 2024/12/13 12 UTC: 11.7 S / 49.7 E, VENT MAX= 080 KT, TROPICAL CYCLONE
28 KT NE: 110 SE: 165 SW: 175 NW: 110
34 KT NE: 85 SE: 85 SW: 110 NW: 85
48 KT NE: 55 SE: 55 SW: 55 NW: 45
64 KT NE: 45 SE: 45 SW: 35 NW: 35

60H: 2024/12/14 00 UTC: 12.5 S / 47.6 E, VENT MAX= 075 KT, TROPICAL CYCLONE
28 KT NE: 100 SE: 155 SW: 155 NW: 95
34 KT NE: 65 SE: 75 SW: 100 NW: 65
48 KT NE: 45 SE: 45 SW: 55 NW: 45
64 KT NE: 35 SE: 35 SW: 45 NW: 35

72H: 2024/12/14 12 UTC: 13.3 S / 45.3 E, VENT MAX= 070 KT, TROPICAL CYCLONE
28 KT NE: 100 SE: 165 SW: 150 NW: 95
34 KT NE: 75 SE: 85 SW: 100 NW: 65
48 KT NE: 45 SE: 45 SW: 55 NW: 45
64 KT NE: 35 SE: 35 SW: 45 NW: 35

2.B LONGER-RANGE OUTLOOK:

96H: 2024/12/15 12 UTC: 14.4 S / 40.2 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM
28 KT NE: 95 SE: 185 SW: 150 NW: 85
34 KT NE: 65 SE: 100 SW: 75 NW: 55
48 KT NE: 45 SE: 45 SW: 45 NW: 35

120H: 2024/12/16 12 UTC: 15.7 S / 35.6 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=5.5-

OVER THE PAST 6 HOURS, CHIDO HAS CONSOLIDATED ITS EYE PATTERN WITH COLDER TOPS. THE LATEST SUBJECTIVE DVORAK ANALYSES ARE AROUND 5.5. IN LINE WITH THESE ANALYSES AND THE CIMSS DPRINT ESTIMATES, THE INTENSITY IS RAISED TO 85KT.

REGARDING THE TRACK, THERE IS FAIRLY GOOD AGREEMENT BETWEEN THE MODELS UNTIL FRIDAY MORNING ON A WESTWARD THEN WEST-SOUTHWESTWARD TRACK DRIVEN BY A POWERFUL SUBTROPICAL RIDGE TO THE SOUTH, SLIDING PROGRESSIVELY TO THE SOUTHEAST. ON THIS TRACK, CHIDO SHOULD PASS CLOSE TO AGALEGA THIS EVENING, SOME 100 KM SOUTH OF FARQUHAR. FROM FRIDAY ONWARDS, THE DIFFERENCES BETWEEN THE GUIDANCE ARE A MORE MARKED, NOTABLY IN TERMS OF SPEED. AMONG THE DETERMINISTS GFS AND HAFS ARE FASTER THAN IFS. THE RSMC FORECAST IS A BLEND OF THESE DIFFERENT SCENARIOS, CLOSE TO AROME 00Z. THERE IS STILL CONSIDERABLE UNCERTAINTY REGARDING THE DISTANCES AND TIMING OF PASSAGE TO THE NORTHERN ISLANDS OF THE CHANNEL AND TO MOZAMBIQUE.

IN TERMS OF INTENSITY, IN A CONTEXT OF STRONG OCEANIC POTENTIAL, GOOD DIVERGENCE IN THE WESTERN SEMICIRCLE AND REDUCED SHEAR, CHIDO COULD

INTENSIFY TO THE INTENSE TROPICAL CYCLONE STAGE IN THE NEXT 24 HOURS. FROM THURSDAY OR FRIDAY, THE SHEAR COULD STRENGTHEN AGAIN, BUT IN THE SAME DIRECTION AS THE MOVEMENT, LIMITING ITS IMPACT. THE CURRENT FORECAST IS BASED ON A SLIGHT WEAKENING TREND. FROM SATURDAY ONWARDS, INTENSITY IN THE CHANNEL WILL BE HIGHLY DEPENDENT ON WHETHER OR NOT IT PASSES OVER LAND. IN THE LONG TERM, A DECREASE IN SHEAR COULD FAVOR A NEW PHASE OF INTENSIFICATION, BEFORE A POSSIBLE LANDFALL OVER MOZAMBIQUE.

IMPACTS ON INHABITED LAND IN THE NEXT 72 HOURS :

AGALEGA :

- HURRICANE-FORCE WINDS LIKELY.
 - RAINFALL TOTALS OF 100-200 MM IN 12H LIKELY BETWEEN THIS AFTERNOON AND TOMORROW MORNING.
 - VERY ROUGH TO HIGH SEAS (4 TO 8 M WAVES) UP TO TOMORROW
- RAPID IMPROVEMNT ON THURSDAY.
- 50 CM STORM SURGE.

FARQUHAR :

- 50 TO 100MM RAINFALL POSSIBLE THURSDAY TO FRIDAY NIGHT.
- VERY ROUGH SEAS (WAVES AROUND 4M TO 6M) THURSDAY TO FRIDAY NIGHT.

MADAGASCAR (PROVINCE OF ANTSIRANANA) ESPECIALLY ON THE NORTHERN PARTS. :

- GALE VERY LIKELY, STORM OR EVEN HURRICANE FORCE POSSIBLE FRIDAY
- RAINFALL TOTALS OF 50-100 LOCALLY 150-300 MM IN 12H POSSIBLE BETWEEN FRIDAY.
- SEA: VERY ROUGH LOCALLY HIGH SEAS (WAVES AROUND 4M TO 6M OR HIGHER) ON FRIDAY.
- 50 CM POSSIBLE STORM SURGE.

GLORIEUSES :

FRIDAY TO SATURDAY NIGHT OR EVEN SATURDAY MORNING, GALE WINDS POSSIBLE AND ROUGH SEAS.