



Direction Interrégionale pour l'Océan Indien  
50, Boulevard du Chaudron  
97490 Sainte-Clotilde  
Tél : 0262 92 11 00  
Fax Exploitation : 0262 92 11 48  
Fax Direction : 0262 92 11 47



**METEO FRANCE**

WTIO30 FMEE 220016

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

0.A WARNING NUMBER: 7/3/20152016

1.A MODERATE TROPICAL STORM 3 (CORENTIN)

2.A POSITION 2016/01/22 AT 0000 UTC:

WITHIN 21 NM RADIUS OF POINT 17.3 S / 73.1 E

(SEVENTEEN DECIMAL THREE DEGREES SOUTH AND SEVENTY THREE DECIMAL ONE DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-WEST 7 KT

3.A DVORAK ANALYSIS: 3.5/3.5/D 0.5/6 H

4.A CENTRAL PRESSURE: 984 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT

RADIUS OF MAXIMUM WINDS (RMW) :111 KM

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

28 KT NE: 610 SE: 460 SW: 560 NW: 220

34 KT NE: 430 SE: 220 SW: 110 NW: 0

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2016/01/22 12 UTC: 19.1 S / 71.5 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

24H: 2016/01/23 00 UTC: 21.1 S / 70.8 E, MAX WIND=065 KT, TROPICAL CYCLONE

36H: 2016/01/23 12 UTC: 23.1 S / 70.9 E, MAX WIND=070 KT, TROPICAL CYCLONE

48H: 2016/01/24 00 UTC: 25.2 S / 71.7 E, MAX WIND=075 KT, TROPICAL CYCLONE

60H: 2016/01/24 12 UTC: 26.9 S / 73.3 E, MAX WIND=070 KT, TROPICAL CYCLONE

72H: 2016/01/25 00 UTC: 27.3 S / 74.6 E, MAX WIND=060 KT, POST-TROPICAL

DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2016/01/26 00 UTC: 27.7 S / 74.1 E, MAX WIND=050 KT, POST-TROPICAL

DEPRESSION

120H: 2016/01/27 00 UTC: 29.6 S / 71.5 E, MAX WIND=040 KT, POST-TROPICAL

DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=3.5-

OVER THE LAST 6 HOURS, DEEP CONVECTION HAS CLEARLY DEVELOP, WRAPPING

AROUND THE CENTER, INTO A BETTER ORGANIZATION MORE SYMMETRICAL (AMSR 1949Z).

OVER THE NEXT 12 HOURS, CORENTIN IS LIKELY TO GO ON TRACKING SOUTH-WESTWARD, OVER THE NORTH-WESTERN EDGE OF THE LOW TO MID-TROPOSPHERIC RIDGE.

WHILE REMAINING UNDER A CELL OF UPPER LEVEL HIGH GEOPOTENTIALS, THE SYSTEM SHOULD DEEPEN STEADILY WITHOUT ANY PARTICULAR ENVIRONMENTAL CONSTRAINTS.

TOMORROW, WITH THE STRENGTHENING OF THE UPPER LEVEL OUTFLOW CHANNEL ON THE SOUTHERN SIDE, AHEAD OF A POLAR TROUGH, THE LOW COULD DRAW BENEFIT FROM EVEN BETTER UPPER LEVEL ENVIRONMENTAL CONDITIONS AND DEEPEN QUITE RAPIDLY. CONSEQUENTLY, IT SHOULD BE STEERED BY THE MID-LEVEL RIDGE IN ITS EAST, AND TRACK SOUTH-WESTWARD ON FRIDAY, THEN BEND SOUTH TO SOUTH-SOUTH-EASTWARD ON SATURDAY.

FROM SUNDAY, AHEAD OF AN UPPER TROUGH, THE NORTH-WESTERLY VERTICAL WIND SHEAR SHOULD INCREASE AND THE OHC DECREASE SOUTH OF 27S. THE LOW MAY WEAKEN AND BEGIN AN EXTRATROPICAL TRANSITION FROM SUNDAY EVENING. THE WEAKENED SYSTEM MAY MOVE TEMPORARILY WESTWARD OVER THE NORTHERN SIDE OF THE SUBTROPICAL ANTICYCLONE BUILDING IN ITS SOUTH.

THIS FORECAST IS BASED ON THE AVAILABLE NWP MODELS, IN RATHER GOOD AGREEMENT.