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

0.A WARNING NUMBER: 24/10/20122013

1.A SEVERE TROPICAL STORM 10 (IMELDA)

2.A POSITION 2013/04/11 AT 1800 UTC:

WITHIN 20 NM RADIUS OF POINT 13.2 S / 58.4 E

(THIRTEEN DECIMAL TWO DEGREES SOUTH AND FIFTY EIGHT DECIMAL FOUR DEGREES EAST)

MOVEMENT : SOUTH-SOUTH-EAST 3 KT

3.A DVORAK ANALYSIS: 3.0/3.5/W 0.5/12 H

4.A CENTRAL PRESSURE: 983 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 50 KT

RADIUS OF MAXIMUM WINDS (RMW) :65 KM

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

28 KT NE: 240 SE: 300 SW: 260 NW: 170

34 KT NE: 150 SE: 170 SW: 170 NW: 110

48 KT NE: 80 SE: 80 SW: 80 NW: 80

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1006 HPA / 600 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2013/04/12 06 UTC: 14.0 S / 58.4 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

24H: 2013/04/12 18 UTC: 15.0 S / 58.3 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

36H: 2013/04/13 06 UTC: 15.8 S / 58.1 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

48H: 2013/04/13 18 UTC: 16.5 S / 58.0 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

60H: 2013/04/14 06 UTC: 17.1 S / 58.2 E, MAX WIND=055 KT, SEVERE TROPICAL STORM

72H: 2013/04/14 18 UTC: 17.6 S / 58.8 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2013/04/15 18 UTC: 19.3 S / 60.6 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

120H: 2013/04/16 18 UTC: 20.3 S / 60.6 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=3.0 AND CI=3.5+

IMELDA STILL UNDERGOES A MODERATE WESTERLY VERTICAL WIND SHEAR

(CIMSS DATA 1800Z 240/09KT). CONVECTION HAS STILL WEAKENED AND IS

WRAPPING BY NARROW BANDS FAR AWAY FROM THE CENTRE. MET IS AT 3.0 (DT

NOT RELIABLE). GENERAL PATTERN OF THE SYSTEM IS VERY DEGRADED. CURRENT

INTENSITY IS DOWNGRADED AT 50KT.

UNCERTAINTY ABOUT THE FORECAST INTENSITY OF THE SYSTEM, INDUCE UNCERTAINTY ABOUT THE FORECAST TRACK, STEERING FLOW MAY VARY DEPENDING OF THE VERTICAL EXTENSION OF IMELDA. HOWEVER, IMELDA IS EXPECTED TO KEEP ON TRACKING GLOBALLY SOUTHWARD QUITE SLOWLY WITHIN THE NEXT 48 HOURS UNDER THE STEERING INFLUENCE OF A MID LEVEL RIDGE EXISTING NORTH-EAST OF THE SYSTEM AND OF THE COMBINED EFFECT OF A BAROMETRIC COL SOUTHWARD AND A RIDGE IN THE SOUTH-EAST MORE OR LESS EFFECTIVE DEPENDING OF THE LEVEL OF THE STEERING FLOW.

ON THIS TRACK, UPPER LEVELS CONDITIONS SHOULD COME BACK QUITE FAVOURABLE ON FRIDAY AND SATURDAY WITH A PERSISTENT GOOD UPPER LEVEL OUTFLOW POLEWARD. SST ARE VERY FAVOURABLE UP TO 18 DEGREES LATITUDE. THEREFORE, SYSTEM SHOULD INTENSIFY AGAIN BUT AS REGARD OF ITS ACTUAL STRUCTURE VERY DEGRADED, THIS RE-INTENSIFICATION IS UNCERTAIN.

ON AND AFTER 48 HOURS, SYSTEM SHOULD RE-CURVE SOUTH-EASTWARD WITH A DEEP TROUGH PASSING IN THE SOUTH. FROM SUNDAY, IT MAY UNDERGO A STRENGTHENING WEST-NORTHWESTERLY WIND-SHEAR AND ENCOUNTER SST MORE AND MORE COLD AND SO MORE OR LESS RAPIDLY WEAKEN.

AT THE MAXIMUM LEAD TIME, IN RELATION WITH ITS WEAKENING, SYSTEM IS EXPECTED TO RECURVE WESTWARD WITHIN THE LOW LEVEL TRADE-WIND FLOW.

INHABITANTS OF ST BRANDON ARCHIPELAGO, OF MAURITIUS AND RODRIGUES ISLANDS AND TO A LESSER EXTENT INHABITANTS OF LA REUNION ARE INVITED TO CLOSELY MONITOR THE PROGRESS OF THIS SYSTEM.