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METEO FRANCE
Toujours un temps d'avance

WTIO30 FMEE 260648

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

0.A WARNING NUMBER: 1/7/20122013

1.A TROPICAL DEPRESSION 7

2.A POSITION 2013/01/26 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 13.1 S / 65.5 E

(THIRTEEN DECIMAL ONE DEGREES SOUTH AND SIXTY FIVE DECIMAL FIVE DEGREES EAST)

MOVEMENT : WEST 7 KT

3.A DVORAK ANALYSIS: 2.5/2.5/D 1.0/12 H

4.A CENTRAL PRESSURE: 999 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :19 KM

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

28 KT NE: 220 SE: 130 SW: 60 NW: 40

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2013/01/26 18 UTC: 13.1 S / 64.0 E, MAX WIND=030 KT, TROPICAL DEPRESSION

24H: 2013/01/27 06 UTC: 13.2 S / 62.6 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

36H: 2013/01/27 18 UTC: 13.2 S / 61.2 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

48H: 2013/01/28 06 UTC: 13.3 S / 59.4 E, MAX WIND=030 KT, TROPICAL DEPRESSION

60H: 2013/01/28 18 UTC: 13.5 S / 57.6 E, MAX WIND=030 KT, TROPICAL DEPRESSION

72H: 2013/01/29 06 UTC: 13.5 S / 55.8 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2013/01/30 06 UTC: 14.6 S / 53.1 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

120H: 2013/01/31 06 UTC: 16.8 S / 51.3 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

2.C ADDITIONAL INFORMATION:

T=2.5 AND CI=2.5

TAKING BENEFIT OF A WEAKENING SOUTHERLY VERTICAL WINDSHEAR, CONVECTIVE ACTIVITY HAS CONSOLIDATED WITHIN THE PAST 12 HOURS.

IT SHOWS NOW ON METEOSAT7 VISIBLE CHANNEL IMAGERY A CURVED BAND

PATTERN AT ABOUT 4 TO 5 TENS. LAST SSMIS SWATHS (F17 AT 0059Z, F16 AT 0113Z ET F18 AT 0402Z) CONFIRM THAT CONVECTIVE PATTERN IS PROGRESSIVELY

IMPROVING.

DVORAK MAXIMUM WINDS ESTIMATION (30 KT) IS CONFIRMED THANKS TO 14043 BUOY AT 0300Z THAT REPORTED 29 KT WIND AND A PRESSURE DEEPENING DESPITE SYSTEM CENTRE IS SHIFTING AWAY WESTWARDS.

0522Z ASCAT SWATH REVEALS A VERY ASYMMETRIC WINDS STRUCTURE.

STRONGEST WINDS EXTEND FAR FROM THE CENTRE IN THE EASTERN SECTOR WHEN GALE FORCE WINDS EXTENSION REMAINS SMALL IN THE WESTERN SEMI-CIRCLE.

SYSTEM SI EXPECTED TO TRACK GLOBALLY WESTWARDS WITHIN THE NEXT 72 LEAD TIME HOURS. ON AND AFTER SUNDAY WINDSHEAR SHOULD CLEARLY STRENGTHEN OVER THIS FORECAST TRACK AND A SIGNIFICATIVE DEEPENING SEEMS THEREFORE NOT LIKELY, A WEAKENING IS EVEN EXPECTED SUNDAY AND MONDAY.

THUESDAY AND WEDNESDAY, ENVIRONMENTAL CONDITIONS ARE EXPECTED TO CLEARLY IMPROVE ALOFT AS VERTICAL WINDSHEAR DECREASES AND AS UPPER LEVEL EQUATORWARD DIVERGENCE KEEPS ON BEING VERY FAVOURABLE. LOW LEVEL CONVERGENCE REMAINS VERY GOOD WITHIN THE SAME PERIOD, ON THE BOTH SIDES.

SYSTEM IS THEREFORE EXPECTED TO REGULARLY STRENGTHENING AND PASS UNDER THE STEERING INFLUENCE OF THE MID-LEVEL RIDGE EXISTING IN ITS EAST AND IS EXPECTED TO RE-CURVE SOUTH-WESTWARDS FROM WEDNESDAY.