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**METEO FRANCE**

WTIO30 FMEE 161232

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

0.A WARNING NUMBER: 8/5/20152016

1.A SEVERE TROPICAL STORM 5 (URIAH)

2.A POSITION 2016/02/16 AT 1200 UTC:

WITHIN 20 NM RADIUS OF POINT 18.0 S / 84.3 E

(EIGHTEEN DECIMAL ZERO DEGREES SOUTH AND EIGHTY FOUR DECIMAL THREE DEGREES EAST)

MOVEMENT : WEST 10 KT

3.A DVORAK ANALYSIS: 4.0/4.0/D 1.0/12 H

4.A CENTRAL PRESSURE: 981 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 60 KT

RADIUS OF MAXIMUM WINDS (RMW) :56 KM

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

28 KT NE: 220 SE: 410 SW: 440 NW: 240

34 KT NE: 110 SE: 200 SW: 280 NW: 150

48 KT NE: 80 SE: 120 SW: 110 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1008 HPA / 800 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2016/02/17 00 UTC: 18.1 S / 82.3 E, MAX WIND=070 KT, TROPICAL CYCLONE

24H: 2016/02/17 12 UTC: 18.7 S / 80.6 E, MAX WIND=080 KT, TROPICAL CYCLONE

36H: 2016/02/18 00 UTC: 19.8 S / 79.3 E, MAX WIND=080 KT, TROPICAL CYCLONE

48H: 2016/02/18 12 UTC: 21.2 S / 78.7 E, MAX WIND=070 KT, TROPICAL CYCLONE

60H: 2016/02/19 00 UTC: 22.3 S / 78.5 E, MAX WIND=060 KT, SEVERE TROPICAL STORM

72H: 2016/02/19 12 UTC: 22.8 S / 78.2 E, MAX WIND=050 KT, SEVERE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2016/02/20 12 UTC: 22.9 S / 77.6 E, MAX WIND=040 KT, POST-TROPICAL DEPRESSION

120H: 2016/02/21 12 UTC: 24.1 S / 78.0 E, MAX WIND=035 KT, POST-TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=4.0+ CI=4.0+

OVER THE LAST 6 HOURS, CONVECTION HAS GRADUALLY ORGANISED ITSELF AS A CDO PATTERN. THEN, THE CENTER HAS WARMED AND NOW, AN EYE IS EVEN

VISIBLE ON THE LAST IR IMAGES. 0933Z SSMI MICROWAVE IMAGES WERE ALREADY DEPICTING THE BUILDING OF AN EYE PATTERN WITH A CLOSED CONVECTION RING AT 37GHZ BUT NOT AT 85GHZ YET, WHERE A WEAKNESS WAS STILL PRESENT IN THE SOUTH-WESTERN QUADRANT. ON THESE IMAGES, A CONVECTIVE BURST IS ALSO VISIBLE INSIDE THE MAX WINDS RADIUS WHICH COULD BE AN HARBINGER OF A QUICKER INTENSIFICATION. DVORAK DT AGREES WITH MET AT 4.0.

URIAH'S TRACK HAS SIGNIFICANTLY BEND WESTWARD SINCE 00Z. THIS EXPECTED TREND IS DUE TO A BUILDING LOW TO MID-LEVELS SUBTROPICAL RIDGE LOCATED ON ITS SOUTH IN THE WAKE OF A TROUGH THAT HAS BYPASSED THE SYSTEM YESTERDAY. FROM WEDNESDAY, THE SYSTEM WILL PROGRESSIVELY MOVE TOWARDS THE SOUTH-SOUTH-WEST, WITH THE REBUILDING OF A MID-LEVEL RIDGE IN THE EAST. FOR THE END OF THE WEEK, URIAH IS LIKELY TO SLOW DOWN BECAUSE OF THE BUILDING OF A SECOND RIDGE IN THE SOUTH. 00Z EURO ENSEMBLE FORECAST STILL SHOW LARGE SPREAD FROM FRIDAY EVENING, SUGGESTING AN INCREASED UNCERTAINTY. HOWEVER, THE MAJORITY OF THE ENSEMBLE MEMBERS AND THE OTHER NWP MODELS FORECAST A SOUTHWARD TO SOUTHWESTWARD TRACK STEERED BY A BAROCLINIC LOW MOVING TOWARDS THE MID-LATITUDES AND CAUSING A WEAKNESS IN THE SUBTROPICAL RIDGE.

ON THIS TRACK, UPPER LEVELS CONDITIONS SHOULD REMAIN CONDUCIVE UP TO THURSDAY WITH A WEAK VERTICAL WINDSHEAR. ON WEDNESDAY, THE BUILDING OF A NEW OUTFLOW CHANNEL ON THE POLAR SIDE ALONG WITH GOOD OCEANIC HEAT CONTAIN NEAR 80E, ARE LIKELY TO HELP THE SYSTEM INTENSIFYING MORE RAPIDLY. AFTER THURSDAY, THE ARRIVAL OF AN UPPER TROUGH WILL INCREASE THE NORTH-WESTERLY VWS, AND START THE WEAKENING, ACCENTUATED BY THE MARGINAL OCEAN HEAT CONTENT SOUTH OF 23-24S. MOREOVER, THE SLOW MOTION FORECAST FROM FRIDAY IS EXPECTED TO SIGNIFICANTLY COOL THE UNDERLYING SST AND INCREASE THE WEAKENING TREND.