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

0.A WARNING NUMBER: 23/9/20122013

1.A MODERATE TROPICAL STORM 9 (HARUNA)

2.A POSITION 2013/02/24 AT 0000 UTC:

WITHIN 40 NM RADIUS OF POINT 25.5 S / 50.4 E

(TWENTY FIVE DECIMAL FIVE DEGREES SOUTH AND FIFTY DECIMAL FOUR DEGREES EAST)

MOVEMENT : EAST-SOUTH-EAST 9 KT

3.A DVORAK ANALYSIS: 2.5/2.5/S 0.0/12 H

4.A CENTRAL PRESSURE: 990 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 35 KT

RADIUS OF MAXIMUM WINDS (RMW) :59 KM

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

28 KT NE: 130 SE: 190 SW: 220 NW: 130

34 KT NE: 0 SE: 0 SW: 130 NW: 60

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1003 HPA / 700 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : MEDIUM

1.B FORECASTS:

12H: 2013/02/24 12 UTC: 26.6 S / 53.3 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

24H: 2013/02/25 00 UTC: 26.9 S / 56.2 E, MAX WIND=030 KT, TROPICAL DEPRESSION

36H: 2013/02/25 12 UTC: 26.9 S / 58.7 E, MAX WIND=030 KT, TROPICAL DEPRESSION

48H: 2013/02/26 00 UTC: 26.3 S / 60.1 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

60H: 2013/02/26 12 UTC: 25.7 S / 60.7 E, MAX WIND=025 KT, FILLING UP

72H: 2013/02/27 00 UTC: 24.8 S / 60.2 E, MAX WIND=025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK :

96H: 2013/02/28 00 UTC: 22.8 S / 56.4 E, MAX WIND=020 KT, FILLING UP

120H: 2013/03/01 00 UTC: 22.0 S / 50.5 E, MAX WIND=020 KT, DISSIPATING

2.C ADDITIONAL INFORMATION:

T=2.5 AND CI=2.5

AT THIS WARNING ISSUANCE TIME, LAST AVAILABLE MICRO-WAVE SWATH (SSMIS F16 1432Z) SHOWS THAT LOW LEVEL VORTEX HAS RESISTED AT ABOUT 24 HOURS LONG OVERLAND TRACK - CROSSING THE BIG ISLAND - AND STILL REMAINS WELL DEFINED.

SINCE SATURDAY MORNING AS THE SYSTEM IS BACK OVERSEA, DEEP CONVECTIVE

ACTIVITY HAS PROGRESSIVELY CONSOLIDATED INTO CURVED BAND PATTERN BUT SHOWS NOW SOME SIGNS OF WEST-NORTH-WESTERLY VERTICAL WINDSHEAR CONSTRAINT.

PARTIALLY 1809Z ASCAT SWATH SHOWS THAT GALE FORCE WINDS 35 KT EXISTS OVER ALL THE WESTERN SEMI-CIRCLE (AT LEAST HALF OF THE CLOCKWISE CIRCULATION), LOCALLY REACHING 40 KT IN THE SOUTH-WESTERN QUADRANT. SYSTEM HAS THEREFORE BEEN BACK UPGRADED TO MODERATE TROPICAL STORM STAGE DESPITE A DVORAK MAINTAINED AT FT=2.5.

HARUNA KEEPS ON TRACKING EAST-SOUTH-EASTWARDS UNDER THE STEERING INFLUENCE OF THE SUBTROPICAL RIDGE REBUILDING IN ITS SOUTH-WEST AND IS GOING QUICK AWAY FROM THE MALAGASY COASTLINE.

SYSTEM IS EXPECTED TO ACCELERATE WITHIN THE NEXT 12/24 HOURS AND SHOULD THEN TEMPORARILY LIMIT THE WEST-NORTH-WESTERLY WINDSHEAR INFLUENCE.

NEAR THE AXIS OF THE UPPER LEVEL RIDGE, OVER 26/27°C SST, IT SHOULD THEN KEEP THE CURRENT INTENSITY WITHIN THE NEXT 12 TO 18 HOURS.

BUT IN RELATIONSHIP WITH THE EXPECTED STRENGTHENING WINDSHEAR CONSTRAINT, OVER MARGINAL SST, HARUNA IS BEYOND TAU 24 EXPECTED TO QUICKLY WEAKEN.

ON AND AFTER MONDAY LATE, THE REMNANT LOW, IS EXPECTED TO RE-CURVE LEFT-HAND ON THE NORTH-EASTERN EDGE OF THE SUBTROPICAL RIDGE.

IT IS THEN EXPECTED ON AND AFTER WEDNESDAY TO TRACK GLOBALLY WEST-NORTH-WESTWARDS ON THE NORTHERN EDGE OF THE AFOREMENTIONED SUBTROPICAL RIDGE.