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METEO FRANCE
Toujours un temps d'avance

WTIO30 FMEE 201846

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

0.A WARNING NUMBER: 10/9/20122013

1.A TROPICAL CYCLONE 9 (HARUNA)

2.A POSITION 2013/02/20 AT 1800 UTC:

WITHIN 20 NM RADIUS OF POINT 22.3 S / 41.1 E

(TWENTY TWO DECIMAL THREE DEGREES SOUTH AND FORTY ONE DECIMAL ONE DEGREES EAST)

MOVEMENT : SOUTH 2 KT

3.A DVORAK ANALYSIS: 5.0/5.0/D 1.5/24 H

4.A CENTRAL PRESSURE: 965 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 80 KT

RADIUS OF MAXIMUM WINDS (RMW) :59 KM

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

28 KT NE: 280 SE: 240 SW: 200 NW: 220

34 KT NE: 240 SE: 200 SW: 190 NW: 190

48 KT NE: 150 SE: 150 SW: 130 NW: 140

64 KT NE: 100 SE: 100 SW: 90 NW: 90

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1005 HPA / 800 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2013/02/21 06 UTC: 22.7 S / 41.7 E, MAX WIND=090 KT, INTENSE TROPICAL CYCLONE

24H: 2013/02/21 18 UTC: 22.7 S / 42.5 E, MAX WIND=090 KT, INTENSE TROPICAL CYCLONE

36H: 2013/02/22 06 UTC: 23.3 S / 43.7 E, MAX WIND=070 KT, TROPICAL CYCLONE

48H: 2013/02/22 18 UTC: 24.7 S / 45.0 E, MAX WIND=030 KT, OVERLAND DEPRESSION

60H: 2013/02/23 06 UTC: 26.1 S / 46.4 E, MAX WIND=030 KT, TROPICAL DEPRESSION

72H: 2013/02/23 18 UTC: 26.9 S / 47.9 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2013/02/24 18 UTC: 27.4 S / 51.6 E, MAX WIND=030 KT, TROPICAL DEPRESSION

120H: 2013/02/25 18 UTC: 26.6 S / 53.4 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=5.0+

HARUNA IS INTENSIFYING AND SHOW NOW A WIDE BUT VERY WELL DEFINED EYE (DIAMETER AROUND 65 NM). DEFINITION OF THE EYE IS IMPROVING SINCE 1630Z.

CURRENT INTENSITY ESTIMATE IS BASED ON 3 HOURS MANUAL DVORAK AVERAGE AND IS IN AGREEMENT WITH MOST OF LATEST AVAILABLE INTENSITY ANALYSIS (KNES AT 90 KT, PGTW AT 79 KT, ADT AT 87 KT AT 18Z AND SATCON AT 71 KT AT 14Z).

HARUNA IS CURRENTLY ABOUT 70 KM EAST OF EUROPA. THE SMALL ISLAND WENT THROUGH THE EYEWALL BETWEEN 12Z AND 15Z. TOP GUSTS REACHED 78 KT NEAR 1430Z (MAX 10 MIN WINDS AT 47 KT NEAR 12Z) AND MSLP REACHED A MIN AT 981.2 HPA NEAR 14Z.

WITHIN THE NEXT HOURS, SYSTEM IS EXPECTED TO MOVE SLOWLY OR QUASI-STAT. BEYOND, MOST OF AVAILABLE NWP MODELS ARE IN AGREEMENT FOR A GENERALLY EASTWARD TO EASTWARDS AND THEN SOUTH-EASTWARDS TRACK UNDER THE STEERING INFLUENCE OF A BROAD MID LEVEL TROUGH TRANSITING SOUTH OF 30S AND A STRENGTHENING RIDGE IN THE NORTH-EAST, BUT RATHER SIGNIFICANT DIFFERENCES REMAIN IN CHRONOLOGY AND CAP VARIATIONS.

RSMC OFFICIAL FORECAST TRACK REMAINS ON CONTINUITY OF THE PREVIOUS TRACK. ONE SHOULD NOTE THAT THE LATEST ECMWF OUTPUTS (NOT TAKEN INTO ACCOUNT HERE) DELAYED THE TIME OF LANDFALL (FRIDAY EVENING OR FRIDAY NIGHT).

OVER HIGH ENERGETIC POTENTIAL SEAS (29/30 DEGREES C) AND UNDER THE UPPER LEVEL RIDGE, SYSTEM IS EXPECTED TO STRENGTHEN WITHIN THE NEXT 24/36 HOURS BEFORE LANDFALL THAT IS EXPECTED FRIDAY. HOWEVER AS THE SYSTEM IS STILL EXPECTED TO MOVE LITTLE, A TEMPORARILY WEAKENING TREND COULD OCCUR UNTIL THE SYSTEM WILL MOVE AWAY FROM SYSTEM SELF-INDUCED COOL WATERS ..

HARUNA PRESENTS AN IMPORTANT THREAT FOR THE SOUTH-WESTERN COASTS OF MADAGASCAR THAT SHOULD BE TO IMPINGE WITHIN THE NEXT 2/3 DAYS. CURRENTLY, COASTAL AREAS BETWEEN MOROMBE AND CAP SAINTE-MARIE IS THE POTENTIAL LANDFALL AREA. INHABITANTS OF THIS AREA SHOULD MONITOR THE EVOLUTION OF THIS SYSTEM AND STAY TUNED WITH INFORMATIONS PROVIDED BY THEIR NATIONAL WEATHER SERVICES.

SYSTEM IS EXPECTED TO RETURN OVERSEA FRIDAY TO SATURDAY NIGHT AND TO KEEP A EAST-SOUTH-EASTWARD TRACK WITHOUT NOTABLE RE-INTENSIFICATION DUE TO ENVIRONMENTAL CONDITIONS BECOMING UNFAVOURABLE (STRONG NORTH-WESTERLY WIND-SHEAR AND COOLER SST).