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METEO FRANCE
Toujours un temps d'avance

WTIO30 FMEE 210640

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

0.A WARNING NUMBER: 12/9/20122013

1.A TROPICAL CYCLONE 9 (HARUNA)

2.A POSITION 2013/02/21 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 22.4 S / 41.5 E

(TWENTY TWO DECIMAL FOUR DEGREES SOUTH AND FORTY ONE DECIMAL FIVE DEGREES EAST)

MOVEMENT : EAST-SOUTH-EAST 2 KT

3.A DVORAK ANALYSIS: 5.0/5.0/D 1.0/24 H

4.A CENTRAL PRESSURE: 965 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :69 KM

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

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

34 KT NE: 170 SE: 160 SW: 160 NW: 150

48 KT NE: 140 SE: 130 SW: 130 NW: 120

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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1002 HPA / 500 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2013/02/21 18 UTC: 22.1 S / 42.1 E, MAX WIND=080 KT, TROPICAL CYCLONE

24H: 2013/02/22 06 UTC: 22.4 S / 42.9 E, MAX WIND=075 KT, TROPICAL CYCLONE

36H: 2013/02/22 18 UTC: 23.4 S / 43.7 E, MAX WIND=070 KT, TROPICAL CYCLONE

48H: 2013/02/23 06 UTC: 24.7 S / 45.1 E, MAX WIND=035 KT, OVERLAND DEPRESSION

60H: 2013/02/23 18 UTC: 25.6 S / 47.3 E, MAX WIND=025 KT, TROPICAL DISTURBANCE

72H: 2013/02/24 06 UTC: 26.7 S / 48.9 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.B LONGER-RANGE OUTLOOK :

96H: 2013/02/25 06 UTC: 26.4 S / 51.3 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

120H: 2013/02/26 06 UTC: 25.2 S / 50.8 E, MAX WIND=030 KT, TROPICAL DEPRESSION

2.C ADDITIONAL INFORMATION:

T=5.0- ET CI=5.0

HARUNA STILL PRESENTS A LARGE EYE STRUCTURE. OVER THE PAST SIX HOURS, THE EYE CONTINUED TO WIDEN AND THE DEEP CONVECTION RING HAS WARMED. ACCORDING TO THE LAST SATELLITE PICTURES (MET7) AND MW IMAGERY (SSMIS AT 02.28Z), HARUNA HAT REACHED A PEAK OF INTENSITY AROUND 02.00Z AND

SHOWS ACTUALLY SIGNS OF WEAKENING.

OVER THE PAST SIX HOURS, HARUNA CONTINUES TO TRACK VERY SLOWLY EAST-SOUTH-EASTWARD AT 2KT.

AN UPPER TO MID LEVEL TROUGH, WELL DEPICTED ON WV IMAGERY SOUTH OF 30S, IS TRANSITING SOUTH OF THE SYSTEM. UNDER COMBINED INFLUENCE OF A WESTERLY STEERING FLOW PRESENT TO THE NORTH OF THE TROUGH AND A SOUTH-SOUTHEASTERLY STEERING FLOW ASSOCIATED WITH THE MID LEVELS HIGHS LOCATED OVER SOUTHERN AFRICA, THE SYSTEM SHOULD CONTINUE TODAY AND TONIGHT ON A SLOW EASTWARDS OR NORTHEASTWARDS TRACK. FROM FRIDAY TO SUNDAY, AS THE TROUGH BYPASS THE SYSTEM, HARUNA SHOULD BE EMBEDDED WITHIN A NORTHWESTERLY STEERING FLOW ON THE SOUTHWESTERN SIDE OF A NEAR EQUATORIAL RIDGE, AND ACCELERATE A LITTLE.

OVER HIGH ENERGETIC POTENTIAL SEAS (29/30 DEGREES C) AND UNDER THE UPPER LEVEL RIDGE, ENVIRONMENTAL CONDITIONS ARE FAVORABLE. BUT ON THE OTHER HAND, THE SLOW TRACK IS UNFAVORABLE FOR INTENSIFICATION. INTENSITY MAY ALSO FLUCTUATE DURING THE NEXT 36 HOURS. ACTUAL FORECAST OF INTENSITY HAS BEEN LOWERED.

HARUNA PRESENTS AN IMPORTANT THREAT FOR THE SOUTH-WESTERN COASTS OF MADAGASCAR. THE POTENTIAL AREA OF LANDFALL IS STILL RATHER WIDE AROUND TULEAR (UNCERTAINTY OF MORE THAN 200KM NORTH AND SOUTH OF TULEAR). UNCERTAINTY EXISTS ALSO FOR THE TIME OF LANDFALL, ALTHOUGH FRIDAY OR FRIDAY NIGHT IS HIGHLY SUGGESTED BY THE GUIDANCES. INHABITANTS OF THIS AREA SHOULD MONITOR THE EVOLUTION OF THIS SYSTEM AND STAY TUNED WITH INFORMATIONS PROVIDED BY THEIR NATIONAL WEATHER SERVICES.

AFTER THE SYSTEM WOULD GET BACK OVER WATERS TO THE SOUTH-EAST OF MADAGASCAR (SUNDAY AND BEYOND), THE SYSTEM SHOULD BE WITHIN A BAROMETRIC COL SITUATION AND SHOULD GRADUALLY SLOW DOWN. AT THE END OF THE FORECAST PERIOD, HARUNA COULD MISS THE TROUGH AND NOT MOVES TOWARDS THE MID-LATS. AS A LOW TO MID-LEVEL HIGHS SHOULD BUILD BY THE SOUTHWEST, A GRADUAL TURN TOWARDS THE NORTH OR THE NORTHWEST COULD BE EXPECTED. OVER THAT PORTION OF THE FORECAST TRACK, ENVIRONMENTAL CONDITIONS APPEAR UNFAVOURABLE (STRONG NORTH-WESTERLY WIND-SHEAR AND COOLER SST). HOWEVER, SOME MODEST INTENSIFICATION MAY BE POSSIBLE.

GIVEN THE HIGH SPREAD SHOWN BY THE MODELS, THERE IS A HIGHER THAN USUAL UNCERTAINTY IN THE TRACK FORECAST OF THAT SYSTEM. ACTUELLE