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**METEO FRANCE**

WTIO30 FMEE 201829

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

0.A WARNING NUMBER: 22/6/20152016

1.A MODERATE TROPICAL STORM 6 (EMERAUDE)

2.A POSITION 2016/03/20 AT 1800 UTC:

WITHIN 30 NM RADIUS OF POINT 11.4 S / 87.3 E

(ELEVEN DECIMAL FOUR DEGREES SOUTH AND EIGHTY SEVEN DECIMAL THREE DEGREES EAST)

MOVEMENT : SOUTH 3 KT

3.A DVORAK ANALYSIS: 3.0/3.5/S 0.0/12 H

4.A CENTRAL PRESSURE: 993 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 45 KT

RADIUS OF MAXIMUM WINDS (RMW) :19 KM

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

28 KT NE: 110 SE: 330 SW: 280 NW: 70

34 KT NE: 60 SE: 130 SW: 170 NW: 60

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2016/03/21 06 UTC: 12.0 S / 86.1 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

24H: 2016/03/21 18 UTC: 12.4 S / 84.4 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

36H: 2016/03/22 06 UTC: 12.3 S / 82.7 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

48H: 2016/03/22 18 UTC: 12.2 S / 81.4 E, MAX WIND=045 KT, MODERATE TROPICAL STORM

60H: 2016/03/23 06 UTC: 12.2 S / 80.5 E, MAX WIND=040 KT, MODERATE TROPICAL STORM

72H: 2016/03/23 18 UTC: 12.1 S / 79.8 E, MAX WIND=035 KT, MODERATE TROPICAL STORM

2.B LONGER-RANGE OUTLOOK :

96H: 2016/03/24 18 UTC: 12.0 S / 79.3 E, MAX WIND=025 KT, POST-TROPICAL DEPRESSION

120H: 2016/03/25 18 UTC: 12.5 S / 79.7 E, MAX WIND=020 KT, POST-TROPICAL DEPRESSION

## 2.C ADDITIONAL INFORMATION:

T=3.0+;CI=3.5-

OVER THE LAST SIX HOURS, THE MODERATE NORTH-EASTERLY VERTICAL WINDSHEAR (20 KT ACCORDING TO CIMSS) KEPT ON AFFECTING EMERAUDE CDO CLOUD PATTERN. CLOUD TOPS HAVE QUITE CLEARLY WARMED, DESPITE A FEW CONVECTIVE BURSTS STILL TRIGGERING NEAR THE CENTER. 1217Z AND 1343Z SSMIS MW IMAGES CONFIRM THAT CONVECTION IS STRUGGLING TO REMAIN CLOSE TO THE CENTER, WHICH IS LOCATED NEAR THE NORTH-EASTERN BORDER OF THE CDO. WITHOUT ANY RECENT MW OR DIFFUSOMETRIC DATA, ITS EXACT LOCALISATION REMAIN IMPRECISE.

EMERAUDE IS CURRENTLY TRACKING SOUTHWARD, UNDER THE INFLUENCE OF A MID-LEVEL RIDGE BUILDING IN ITS SOUTH-EAST. EMERAUDE'S TRACK SHOULD GRADUALLY BEND WEST-SOUTH-WESTWARD, ON THE EQUATORIAL SIDE OF THE HIGH GEOPOTENTIAL CELL. FROM WEDNESDAY, THE DISPERSION AMONG THE MODEL GUIDANCE IS INCREASING, WITH THE EVENTUAL ARRIVAL OF A TROUGH AT SOUTH. EMERAUDE SHOULD THEN SLOW DOWN BUT WITH A STILL UNCERTAIN TIMING. MOREOVER, IN THE FOLLOWING, THE FORECASTED TRACK DIRECTION IS RANGING FROM THE SOUTH-WEST TO THE EAST-SOUTH-EAST AMONG THE MODELS. THE CURRENT TRACK FORECAST IS BASED ON A GFS/UKMO/ECMWF CONSENSUS.

ALONG THIS TRACK, THE NORTH-EASTERLY UPPER LEVEL WIND SHEAR GENERATED BY AN UPPER LEVEL RIDGE, IS EXPECTED TO MAINTAIN UNTIL TUESDAY NIGHT. TOMORROW, A MID LEVEL DRY AIRMASS IS LIKELY TO REACH THE INNER CORE, WHICH WILL MAKE ANY FURTHER DEEPENING UNLIKELY, IF NOT IMPOSSIBLE, DESPITE THE HIGHER OHC IN THE UNDERLYING WATERS WEST OF 85°E. WEDNESDAY, UNDER THE INFLUENCE OF AN UPPER LEVEL TROUGH ARRIVING FROM THE SOUTH-WEST, A GOOD POLEWARD EVACUATION CHANNEL COULD DEVELOP AGAIN, EXTENDING EMERAUDE'S LIFE A LITTLE BIT. FROM THURSDAY, THE WEST-NORTH-WESTERLY SHEAR GENERATED AHEAD THE TROUGH SHOULD DESTROY THE VERTICAL STRUCTURE OF THE SYSTEM. THEN, EMERAUDE IS LIKELY TO WEAKEN WHILE LOSING ITS PURELY TROPICAL FEATURES.

GIVEN THE SMALL SIZE OF THE SYSTEM, RAPID VARIATIONS (INCLUDING RAPID INTENSIFICATION AND RAPID DECAY) ARE LIKELY.