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

0.A WARNING NUMBER: 7/16/20202021
1.A TROPICAL CYCLONE 16 (JOBO)

2.A POSITION 2021/04/21 AT 1200 UTC:
WITHIN 20 NM RADIUS OF POINT 9.8 S / 47.6 E
(NINE DECIMAL EIGHT DEGREES SOUTH AND
FORTY SEVEN DECIMAL SIX DEGREES EAST)
MOVEMENT: WEST-SOUTH-WEST 4 KT

3.A DVORAK ANALYSIS: 4.0/4.0/D 0.5/6 H

4.A CENTRAL PRESSURE: 985 HPA
5.A MAX AVERAGE WIND SPEED (10 MN): 65 KT
RADIUS OF MAXIMUM WINDS (RMW): 19 KM

6.A EXTENSION OF WIND BY QUADRANTS (KM):
28 KT NE: 95 SE: 185 SW: 185 NW: 95
34 KT NE: 55 SE: 95 SW: 95 NW: 55
48 KT NE: 35 SE: 35 SW: 40 NW: 35
64 KT NE: 20 SE: 20 SW: 20 NW: 20

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1009 HPA / 400 KM
8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):
12H: 2021/04/22 00 UTC: 9.8 S / 46.3 E, VENT MAX= 080 KT, TROPICAL CYCLONE
28 KT NE: 75 SE: 155 SW: 130 NW: 100
34 KT NE: 65 SE: 65 SW: 55 NW: 75
48 KT NE: 45 SE: 35 SW: 45 NW: 45
64 KT NE: 20 SE: 20 SW: 20 NW: 20

24H: 2021/04/22 12 UTC: 9.7 S / 45.1 E, VENT MAX= 065 KT, TROPICAL CYCLONE
28 KT NE: 75 SE: 130 SW: 110 NW: 95
34 KT NE: 65 SE: 45 SW: 45 NW: 65
48 KT NE: 45 SE: 35 SW: 35 NW: 45
64 KT NE: 20 SE: 20 SW: 20 NW: 20

36H: 2021/04/23 00 UTC: 9.5 S / 43.9 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM
28 KT NE: 75 SE: 85 SW: 95 NW: 75
34 KT NE: 55 SE: 45 SW: 45 NW: 45
48 KT NE: 45 SE: 35 SW: 35 NW: 35

48H: 2021/04/23 12 UTC: 9.3 S / 42.9 E, VENT MAX= 035 KT, MODERATE TROPICAL

STORM
28 KT NE: 65 SE: 100 SW: 95 NW: 65
34 KT NE: 45 SE: 35 SW: 35 NW: 35

60H: 2021/04/24 00 UTC: 8.9 S / 42.1 E, VENT MAX= 030 KT, FILLING UP
28 KT NE: 0 SE: 55 SW: 55 NW: 55

72H: 2021/04/24 12 UTC: 8.4 S / 41.0 E, VENT MAX= 025 KT, FILLING UP

2.B LONGER-RANGE OUTLOOK:
96H: 2021/04/25 12 UTC: 7.2 S / 38.7 E, VENT MAX= 020 KT, OVERLAND DEPRESSION

2.C ADDITIONAL INFORMATION:
T=CI=4.0+

DURING THE LAST 6 HOURS, THE CURVED BAND LET PLACE TO A QUITE WELL DEFINED EYE PATTERN PEAKING AT 10Z. BUT CLOUD TOPS REMAINED RATHER WARM AND SINCE 10Z, THE CLOUD CONFIGURATION DETERIORATE WITH THE DECAY OF THE EYE. GMI AND AMSR2 AFTERNOON DATA SHOW THAT THE INNER CORE CONTRACTED IN COMPARISON WITH LAST NIGHT DATA WITH ALSO A BETTER EYEWALL, SUGGESTING THAT JOBO INTENSIFIED DURING THIS LAPSE OF TIME. IN AGREEMENT WITH THE STRONGEST DVORAK ANALYSIS AS WELL AS MICROWAVE DATA, JOBO IS ANALYZED AS A TROPICAL CYCLONE.

EVEN IF JOBO IS MOVING WESTWARD, IT SLOWED DOWN SIGNIFICANTLY BECAUSE OF ITS HIGHER STEERING FLOW DUE TO ITS DEEPENING. NEXT THERE IS A FAIRLY GOOD AGREEMENT BETWEEN MODELS FOR THE MAIN PHILOSOPHY OF THE TRACK AS THE SYSTEM MOVES ON THE NORTHERN SIDE OF THE LOW TROPOSPHERIC SUBTROPICAL RIDGE . HOWVEER THERE IS QUITE A SPREAD AMONG THE GUIDANCE ON THE MOTION SPEED, POTENIALLY EXPLAINED BY THE WEAKER STEERING FLOWS AND THE DEPENDANCE OF THE MOTION TO ITS INTENSITY. THE CURRENT FORECAST IS BASED ON A MEDIAN SCENARIO SOMEWHAT SLOWER THAN LATEST EURO MODELS. AFTER A CLOSE PATH TO COSMOLEDO TODAY, IT IS EXPECTED TO PASS NEAR ALDABRA TONIGHT OR TOMORROW MORNING.

ENVIRONMENTAL CONDITIONS REMAIN RELATIVELY FAVORABLE FOR DEVELOPMENT FOR THE NEXT 12H, WITH GOOD UPPER DIVERGENCE AND LOW SHEAR. TOMORROW THURSDAY AND ONWARDS, UNDER THE INFLUENCE OF THE TROUGH PASSING FURTHER SOUTH, WESTERLY SHEAR SHOULD PROGRESSIVELY SET UP, WHICH WILL THEN LEAD TO A GRADUAL WEAKENING OF THE SMALL CONVECTIVE CORE AND DRY AIR ADVECTION. WEAKENING OF THE SYSTEM IS THUS EXPECTED IN THE SECOND PART OF THE WEEK. THE SMALL SIZE OF THE SYSTEM'S CORE MAKE IT VERY RESPONSIVE TO ITS ENVIRONMENT, INDUCING A HIGHER THAN AVERAGE UNCERTAINTY ON THE PRESENT INTENSITY FORECAST.

POSSIBLE IMPACTS EXPECTED ON THE OUTER ISLANDS OF THE SEYCHELLES (ASTOVE, COSMOLEDO, ALDABRA) :
-VERY INTENSE RAINFALL THAT COULD EXCEED 200 MM IN 24 HOURS.
-STRONG WINDS (DEPENDING ON THE EXACT TRACK OF THE STORM): CYCLONIC CONDITIONS (GUSTS OVER 150 KM/H) CAN'T BE RULED OUT

-DANGEROUS SEA CONDITIONS: WAVES EXCEEDING 6 METERS LOCALLY, STORM SURGE REACHING 30 TO 40 CM.
BECAUSE OF JOBO'S SMALL SIZE, THE AREA AFFECTED BY SEVERE WEATHER CONDITIONS IS VERY NARROW, HENCE HIGH UNCERTAINTY ABOUT THESE IMPACTS.