

WTIO30 FMEE 210644

RSMC / TROPICAL CYCLONE CENTER / LA REUNION

TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 6/16/20202021

1.A SEVERE TROPICAL STORM 16 (JOB0)

2.A POSITION 2021/04/21 AT 0600 UTC:

WITHIN 20 NM RADIUS OF POINT 9.8 S / 48.2 E

(NINE DECIMAL EIGHT DEGREES SOUTH AND
FORTY EIGHT DECIMAL TWO DEGREES EAST)

MOVEMENT: WEST-NORTH-WEST 10 KT

3.A DVORAK ANALYSIS: 3.5/3.5/D 1.0/6 H

4.A CENTRAL PRESSURE: 992 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 55 KT

RADIUS OF MAXIMUM WINDS (RMW): 30 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

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1012 HPA / 400 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS (WINDS RADII IN KM):

12H: 2021/04/21 18 UTC: 9.5 S / 46.6 E, VENT MAX= 060 KT, SEVERE TROPICAL STORM

28 KT NE: 85 SE: 140 SW: 140 NW: 100

34 KT NE: 75 SE: 55 SW: 75 NW: 95

48 KT NE: 55 SE: 45 SW: 65 NW: 65

24H: 2021/04/22 06 UTC: 9.3 S / 45.3 E, VENT MAX= 070 KT, TROPICAL CYCLONE

28 KT NE: 85 SE: 140 SW: 120 NW: 95

34 KT NE: 75 SE: 55 SW: 65 NW: 85

48 KT NE: 55 SE: 45 SW: 55 NW: 65

64 KT NE: 30 SE: 30 SW: 45 NW: 55

36H: 2021/04/22 18 UTC: 9.2 S / 44.2 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

28 KT NE: 75 SE: 120 SW: 100 NW: 85

34 KT NE: 65 SE: 55 SW: 65 NW: 65

48 KT NE: 55 SE: 45 SW: 55 NW: 55

48H: 2021/04/23 06 UTC: 9.1 S / 43.2 E, VENT MAX= 045 KT, MODERATE TROPICAL
STORM

28 KT NE: 85 SE: 100 SW: 100 NW: 85

34 KT NE: 75 SE: 0 SW: 0 NW: 75

60H: 2021/04/23 18 UTC: 8.9 S / 42.0 E, VENT MAX= 035 KT, MODERATE TROPICAL STORM

28 KT NE: 85 SE: 100 SW: 100 NW: 85

34 KT NE: 55 SE: 0 SW: 0 NW: 65

72H: 2021/04/24 06 UTC: 8.6 S / 41.0 E, VENT MAX= 030 KT, FILLING UP

28 KT NE: 85 SE: 100 SW: 100 NW: 85

2.B LONGER-RANGE OUTLOOK:

96H: 2021/04/25 06 UTC: 7.8 S / 38.8 E, VENT MAX= 025 KT, OVERLAND DEPRESSION

2.C ADDITIONAL INFORMATION:

T=CI=3.5+

DURING THE LAST 6 HOURS, CONVECTION ASSOCIATED WITH STORM JOBO WRAPPED ON A TIGHT CURVED BAND (MORE THAN A HALF TURN). MICROWAVE DATA CONFIRM THE DEEPENING WITH A DEFINED EYE IN BOTH 37 AND 89 GHZ (0049 AND 0240Z SSMIS). MOREOVER THIS MORNING SMAP AND SMOS DATA GIVE RESPECTIVELY 54 AND 50KT I AGREEMENT WITH DVORAK ANALYSIS. INTENSITY IS RAISED TO 55KT.

THE WESTWARD TO WEST-NORTHWESTWARD TRACK IS CONFIRMED, WITH A FAIRLY GOOD AGREEMENT BETWEEN MODELS FOR THE NEXT 48 HOURS. THE SYSTEM IS MOVING ON THE NORTHERN SIDE OF THE LOW TROPOSPHERIC SUBTROPICAL RIDGE WHILE SLOWING DOWN. AFTER A CLOSE PATH TO COSMOLEDO TODAY, IT IS EXPECTED TO PASS NEAR ALDABRA TONIGHT. FROM WEDNESDAY AND THE FOLLOWING NIGHT WHILE GRADUALLY SLOWING DOWN. FROM THURSDAY ONWARDS, UNCERTAINTY ABOUT THE TRACK INCREASES WITH STEERING FLOWS BECOMING WEAKER AND THE TRACK ALSO DEPENDING ON THE INTENSITY THAT THE SYSTEM WILL HAVE AT THAT TIME. SOME DIFFERENCES IN THE TRACK SPEED ARE FOUND IN THE LATEST GUIDANCE WITH THE LATEST EURO MODELS QUICKER. THE PRESENT FORECAST IS BASED ON A MEDIAN SCENARIO BUT WILL HAVE TO BE CONFIRMED.

ENVIRONMENTAL CONDITIONS REMAIN RELATIVELY FAVORABLE FOR DEVELOPMENT FOR THE NEXT 24H, WITH GOOD UPPER DIVERGENCE AND LOW SHEAR. GIVEN THIS CONTEXT, JOBO IS EXPECTED TO REACH TROPICAL CYCLONE STATUS OVERNIGHT. BUT THEN, FROM THURSDAY 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 MAKING IT VERY REACTIVE TO ITS ENVIRONMENT INDUCES 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 FOR ALDABRA.
-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.