

WTIO30 FMEE 191228

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

0.A WARNING NUMBER: 22/7/20172018

1.A MODERATE TROPICAL STORM 7 (ELIAKIM)

2.A POSITION 2018/03/19 AT 1200 UTC:

WITHIN 25 NM RADIUS OF POINT 24.4 S / 50.8 E

(TWENTY FOUR DECIMAL FOUR DEGREES SOUTH AND FIFTY DECIMAL EIGHT
DEGREES EAST)

MOVEMENT : SOUTH-EAST 13 KT

3.A DVORAK ANALYSIS: 2.5/3.0/W 0.5/6 H

4.A CENTRAL PRESSURE: 988 HPA

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

RADIUS OF MAXIMUM WINDS (RMW) :93 KM

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

28 KT NE: 370 SE: 520 SW: 370 NW: 280

34 KT NE: 260 SE: 330 SW: 220 NW: 190

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 1100 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION : DEEP

1.B FORECASTS:

12H: 2018/03/20 00 UTC: 26.8 S / 52.1 E, MAX WIND=045 KT, MODERATE TROPICAL
STORM

24H: 2018/03/20 12 UTC: 29.9 S / 53.3 E, MAX WIND=045 KT, POST-TROPICAL
DEPRESSION

36H: 2018/03/21 00 UTC: 32.4 S / 54.1 E, MAX WIND=040 KT, POST-TROPICAL
DEPRESSION

48H: 2018/03/21 12 UTC: 34.5 S / 55.1 E, MAX WIND=040 KT, POST-TROPICAL
DEPRESSION

60H: 2018/03/22 00 UTC: 36.5 S / 56.9 E, MAX WIND=040 KT, POST-TROPICAL
DEPRESSION

72H: 2018/03/22 12 UTC: 40.2 S / 60.4 E, MAX WIND=040 KT, EXTRATROPICAL
DEPRESSION

2.B LONGER-RANGE OUTLOOK :

2.C ADDITIONAL INFORMATION:

T=2.5+ CI=3.0

DURING THE LAST HOURS, CLOUD PATTERN BARELY EVOLVED. DEEP CONVECTION STILL LOCATED IN THE SOUTH-WESTERN QUADRANT, BUT IS NOW FURTHER FROM THE CENTER. THIS SHEARED STRUCTURE IS THE CONSEQUENCE OF AN UPPER CONSTRAINT ANALYSED BY CIMSS AT 09Z AROUND 20/25KT. INTENSITY WAS UPGRADED TO 45KT BECAUSE OF COMPLEMENTARY DATA FROM THIS MORNING ASCAT SWATHS. REGARDING THE CURRENT POSITION, IT IS QUITE UNCERTAIN DUE TO THE LACK OF RELIABLE DATA (MICROWAVE).

ELIAKIM CONTINUES ITS SOUTH-EASTWARD THEN SOUTH-SOUTH-EASTWARD TRACK ON THE SOUTH-WESTERN EDGE OF A MID-TROPOSPHERIC RIDGE. IT IS FORECAST TO KEEP THIS COURSE WITH HIGH CONFIDENCE (EXCELLENT AGREEMENT AMONG NUMERICAL GUIDANCE). LATER THIS WEEK, THE SYSTEM MAY TRACK MORE SOUTH-EASTWARD AHEAD OF AN UPPER TROUGH WITHIN THE DISTURBED MID LATITUDES FLOW.

THE SYSTEM STILL BENEFITS FOR THE MOMENT OF A GOOD UPPER LEVEL DIVERGENCE AND AN OUTFLOW CHANNEL, AHEAD OF THE ARRIVING TROUGH. HOWEVER THE INCREASING NORTH-WESTERLY UPPER SHEAR IS LIKELY TO PREVENT FROM ANY SIGNIFICANT DEEPENING. TOMORROW, ELIAKIM SHOULD BEGIN ITS EXTRATROPICALISATION WITH COOLER UNDERNEATH WATERS SOUTH OF 27S AND THE ARRIVAL OF AN UPPER ANOMALY. FROM THURSDAY, THE LOW IS EXPECTED TO PROGRESSIVELY DISAPPEAR WITHIN A BROAD LOW PRESSURE SYSTEM, AND LEAVE OUR AREA OF RESPONSIBILITY.