



WTIO30 FMEE 150644
RSMC / TROPICAL CYCLONE CENTER / LA REUNION
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 1
1.A TROPICAL CYCLONE # (ELAL)

#.A POSITION #0#4/01/15 AT 0600 UTC!
WITHIN #0 NM RADIUS OF POINT #0." S / 55.4 E
(TWENTY DECIMAL SE\$EN DEGREES SOUTH AND
FIFTY FI\$E DECIMAL FOUR DEGREES EAST)
MO\$EMENT! EAST-SOUTH-EAST 13 %T

3.A D\$ORA% ANALYSIS! 5.0/5.0/S 0.0/1# H

4.A CENTRAL PRESSURE! &64 HPA
5.A MA ' A\$ERAGE WIND SPEED (10 MN)! (0 %T
RADIUS OF MA ' IMUM WINDS (RMW)! #0 %M

6.A E ' TENSION OF WIND Y)UADRANTS (%M)!
#(%T NE! #50 SE! #40 SW! #15 NW! 1&5
34 %T NE! 150 SE! 155 SW! 155 NW! 110
4(%T NE! (5 SE! 100 SW! &0 NW! "5
64 %T NE! 55 SE! 55 SW! 55 NW! 55

".A FIRST CLOSED ISO BAR (PRESSURE / A\$ERAGE DIAM)! 100& HPA / 1000 %M
(.A \$ERTICAL E ' TENSION OF CYCLONE CIRCULATION! DEEP

1. FORECASTS (WINDS RADII IN %M)!
1#H! #0#4/01/15 1(UTC! #1.6 S / 56.5 E* \$ENT MA ' + 0"0 %T* TROPICAL CYCLONE
#(%T NE! #(0 SE! 315 SW! #(0 NW! 165
34 %T NE! 155 SE! 1&5 SW! 155 NW! 100
4(%T NE! 65 SE! &5 SW! &5 NW! 55
64 %T NE! 45 SE! 45 SW! 45 NW! 45

#4H! #0#4/01/16 06 UTC! ##.# S / 5(.1 E* \$ENT MA ' + 0"5 %T* TROPICAL CYCLONE
#(%T NE! #(5 SE! #50 SW! #(0 NW! #15
34 %T NE! 155 SE! 150 SW! 130 NW! 130
4(%T NE! 65 SE! (5 SW! "5 NW! 45
64 %T NE! 45 SE! 45 SW! 45 NW! 35

36H! #0#4/01/16 1(UTC! ##.6 S / 5&. E* \$ENT MA ' + 0"5 %T* TROPICAL CYCLONE
#(%T NE! #(5 SE! #60 SW! ##0 NW! #05
34 %T NE! 165 SE! 155 SW! 140 NW! 110
4(%T NE! 65 SE! (5 SW! (5 NW! 45
64 %T NE! 55 SE! 45 SW! 45 NW! 35

4(H! #0#4/01/1" 06 UTC! ##.5 S / 61.4 E* \$ENT MA ' + 0"5 %T* TROPICAL CYCLONE
#(%T NE! #50 SE! #30 SW! 1&5 NW! 1(5
34 %T NE! 140 SE! 130 SW! 130 NW! 110
4(%T NE! 65 SE! (5 SW! "5 NW! 45
64 %T NE! 45 SE! 35 SW! 45 NW! 35

60H! #0#4/01/1" 1(UTC! ##.4 S / 6#.# E* \$ENT MA ' + 0"0 %T* TROPICAL CYCLONE
#(%T NE! #30 SE! #50 SW! #15 NW! 1"5
34 %T NE! 1#0 SE! 140 SW! 150 NW! 100
4(%T NE! 65 SE! (5 SW! (5 NW! 55
64 %T NE! 45 SE! 45 SW! 45 NW! 45

"#H! #0#4/01/1(06 UTC! ##.1 S / 63.# E* \$ENT MA ' + 065 %T* TROPICAL CYCLONE
#(%T NE! #15 SE! #30 SW! 1&5 NW! 1"5
34 %T NE! 1#0 SE! 140 SW! 140 NW! 100
4(%T NE! 55 SE! (5 SW! "5 NW! 55
64 %T NE! 35 SE! 35 SW! 45 NW! 45

#. LONGER-RANGE OUTLOOK!

&6H! #0#4/01/1& 06 UTC! #1.& S / 6#.# E* \$ENT MA ' + 050 %T* SE\$ERE TROPICAL STORM
#(%T NE! 165 SE! 1"5 SW! 150 NW! 1#0
34 %T NE! &5 SE! 1#0 SW! 110 NW! 65
4(%T NE! 65 SE! "5 SW! 65 NW! 45

1#0H! #0#4/01/#0 06 UTC! #1.& S / 6#.# E* \$ENT MA ' + 035 %T* MODERATE TROPICAL
STORM
#(%T NE! 1"5 SE! 150 SW! 130 NW! 1#0
34 %T NE! &5 SE! &5 SW! 100 NW! "5

#.C ADDITIONAL INFORMATION!
PT+CI+5.0

O\$ER THE PAST 6 HOURS* THE CLOUD PATTERN HAS REMAINED UNCHANGED* WITH
CON\$ECTI\$E ACTI\$ITY \$ERY MAR%ED IN THE CENTER OF THE CYCLONE* AS WELL
AS IN THE NORTHEAST)UADRANT. A D\$ORA% ANALYSIS IN CDO WITH AN
ADDITIONAL AND ALLOWS US TO ESTIMATE A CI OF 5.0* I.E. WINDS OF AROUND
(0%T. DOPPLER RADAR DATA FROM REUNION \$ALIDATES THIS ESTIMATE* WITH
MA ' IMUM \$ALUES OF (#%T AT 3000M. THESE \$ALUES WEA%EN DURING THE
CURRENT PASSAGE O\$ER REUNION. \$ALUES OF &"1HPA WERE MEASURED O\$ER
NORTH-WEST REUNION AS THE EYE WALL PASSED O\$ER AT 06UTC. 10MIN GUSTS OF
&1%T WERE MEASURED AT ROLAND GARROS AIRPORT IN REUNION. SIGNIFICANT
WAS\$ES OF ".3M MEASURED EAST OF REUNION.

ELAL CONTINUES ON AN EAST-SOUTH-EAST TO SOUTH-EAST TRAC%* LANDING
PARTIALLY ON THE ISLAND OF REUNION THIS MONDAY AT 06UTC. AS IT
APPROACHES REUNION* THE TERRAIN SHOULD HA\$E A SLIGHT IMPACT ON ELAL,S
TRAC%* UT THE EYEWALL SHOULD STILL E CLOSE ENOUGH TO TOUCH REUNION.
ELAL CONTINUES ITS O\$ERALL EAST-SOUTHEASTWARD MO\$EMENT UNTIL
TUESDAY* AS THE NEAR-E)UATORIAL RIDGE TO THE NORTHEAST OF THE SYSTEM
STRENGTHENS. AT THE END OF THE WEE%* WITH A NEW RIDGE SWELLING TO THE
WEST AND SOUTH-WEST OF THE SYSTEM* MORE CONTRADICTIONARY STEERING
FLOWS SHOULD LEAD TO A SLOWDOWN IN MO\$EMENT! A PHASE OF

QUASI-STATIONARITY OR EVEN A LOOP TO THE NORTH IS THEN CONCEIVABLE WHILE REMAINING IN THE TROPICAL DOMAIN. IN THE LONGER TERM CONTRADICTORY DIRECTING CURRENTS CONTINUE TO MAKE TRACK PREDICTION HIGHLY UNCERTAIN AND THE RSMC IS CURRENTLY OPTING FOR AN ERRATIC TRACK ON THESE TIMESCALES WHICH MAY CHANGE CONSIDERABLY.

FOLLOWING A SLIGHT INCREASE IN WEST-SOUTH-WEST SHEAR INTENSITY IS BELLEGGING OFF! ELAL WILL NOT PASS THE STAGE OF AN INTENSE TROPICAL CYCLONE. HOWEVER AS IT INTERACTS WITH REUNION'S TOPOGRAPHY INTENSITY MAY FLUCTUATE VERY TEMPORARILY AS WINDS INTENSIFY SLIGHTLY DUE TO REUNION'S TOPOGRAPHY. ALL THESE PARAMETERS SHOULD HOWEVER LEAD TO A RELATIVE WEAKENING OF THE SYSTEM AFTER PASSING OVER OR CLOSE TO REUNION. IN THE LONGER TERM THE SHEAR SHOULD WEAKEN ALLOWING ELAL TO CONTINUE EVOLVING AT SIGNIFICANT INTENSITY. HOWEVER ITS ERRATIC TRACK STARTING MID-WEEK COULD REDUCE THE OCEANIC POTENTIAL AND LEAD TO A NOTICEABLE WEAKENING OF THE SYSTEM.

EXPECTED IMPACTS ON REUNION AND MAURITIUS OVER THE NEXT 72 HOURS !

REUNION!

- CYCLONIC FORCE WINDS UNDERWAY ON REUNION WITH PASSAGE OF THE EYE WALL. END OF STORM FORCE ON MONDAY NIGHT. END OF NEAR GALE FORCE FOR TUESDAY MORNING.
- HEAVY RAINFALL TOTALS OF AROUND 400-400MM IN 4HRS OVER LOW-LYING AREAS AND AROUND 1000-1500MM IN 4HRS OVER HIGHER-LYING AREAS BETWEEN SUNDAY EVENING AND MONDAY EVENING.
- WAVES AROUND 10M ON MONDAY. THE HIGHEST WAVES MAY REACH 15M THESE HEIGHTS.
- A SURGE OF AROUND 50CM IS EXPECTED.

MAURITIUS !

- MAURITIUS NO LONGER AFFECTED BY DIRECT IMPACT.
- GALE FORCE WINDS LIKELY ON MONDAY EVENING.
- HEAVY RAINFALL OF AROUND 100MM IN 4HRS ON MONDAY AND THE FOLLOWING NIGHT.
- WAVES EXCEEDING 6M ON MONDAY.