METEOROLOGY DIVISION

Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications

Climate Summary

December 2016

Summary of Temperatures (ºC)

Table 1. Summary of December 2016 Temperatures

Stations	Highest Recorded Temperature ºC	Lowest Recorded Temperature ºC)	2016 Mean Temperature ºC	Reference Temperature (1981-2010) ºC	Departure from normal ºC
Niuafoóu	33.4	21.5	27.3	27.2	0.1
Niuatoputapu	32.2	23.0	27.8	27.5	0.3
Vava'u	31.2	20.5	26.6	26.3	0.3
Ha'apai	31.3	22.0	27.1	25.7	1.4
Fua'amotu	32.7	17.8	25.5	25.3	0.2
Nuku'alofa	31.6	19.4	25.9	26.0	0.1

Table 2. Summary of monthly mean maximum temperatures

	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Niuafo'ou	31.7	32.7	31.8	30.5	30.0	30.1	30.5	30.8	30.9	31.0	30.6	31.1
Niuatoputapu	31.2	31.8	31.0	29.7	29.4	28.7	27.9	29.1	29.0	29.8		30.9
Vava'u	29.6	30.3	29.5	28.4	27.7	26.6	26.1	26.1	26.5	28.4	29.2	29.8
Ha'apai	30.1	30.5	29.4	28.3	27.9	27.1	26.2	25.6	25.8	27.8	29.2	29.7
Fua'amotu	30.4	30.2	29.3	27.5	27.3	26.7	25.9	24.9	26.2	27.7	28.8	28.9
Nuku'alofa	30.8	30.4	29.7	28.2	28.0	27.0	26.6	25.1	26.4	28.3	28.9	29.4

Table 3. Summary of monthly mean minimum temperatures

	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct.	Nov.	Dec.
Niuafo'ou	24.1	23.8	24.1	23.5	23.4	23.1	22.9	22.7	22.8	23.1	24.2	23.4
Niuatoputapu	25.2	25.5	25.3	24.9	24.0	24.2	22.4	23.6	23.1	24.2		24.6
Vava'u	24.3	24.4	24.0	23.9	21.2	20.6	19.6	20.5	20.1	21.0	22.1	23.4
Ha'apai	25.5	25.4	24.7	24.2	23.2	22.8	21.4	21.1	21.6	23.1	24.4	24.6
Fua'amotu	24.2	24.3	23.6	22.7	21.0	20.4	19.3	18.8	19.2	20.1	21.7	22.0
Nuku'alofa	24.5	24.6	23.7	22.0	20.9	20.3	18.8	18.6	18.2	20.7	20.7	22.4

Table 4.Summary of highest maximum temperatures.

	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Niuafo'ou	33.3	35.5	34.1	32.4	31.5	31.9	32.4	33.2	33.2	32.5	31.8	33.4
Niuatoputapu	32.5	34	32.0	32.0	30.3	30.0	29.4	31.0	32.0	31.2		32.2
Vava'u	30.9	32.5	30.5	29.7	29.5	28.2	28.2	28.5	29.6	30.9	30.0	31.2
Ha'apai	31.9	33.2	30.8	30.0	29.4	29.3	28.5	28.5	28.5	29.0	31.0	31.3
Fua'amotu	33.5	34.4	30.6	29.3	29.2	28.5	29.4	29.4	30.5	30.7	30.8	32.7
Nuku'alofa	32.9	33.2	31.2	31.1	30.2	29.5	28.2	27.5	29.3	30.4	30.7	31.6

The hottest temperature recorded in Tonga in December 2016 was 33.4ºC recorded in Niuafo'ou on Sunday the11th ·.

Table 5. Summary of monthly lowest minimum temperatures.

	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Niuafo'ou	22.1	22.4	22.2	21.9	22.3	21.9	20.7	20.2	20.2	22.4	22.9	21.5
Niuatoputapu	22.4	22.5	23.2	23.0	21.7	22.0	18.0	21.5	19.5	21.2		23.0
Vava'u	20.5	21.7	21.3	19.4	14.4	16.5	12.9	15.6	14.9	15.9	17.5	20.5
Ha'apai	24.0	23.0	21.5	22.5	18.9	20.0	16.4	16.5	18.0	20.1	20.0	22.0
Fua'amotu	21.8	20.9	21.5	19.1	15.1	17.0	15.8	13.6	15.1	15.1	17.2	17.8
Nuku'alofa	22.7	22.4	20.0	18.0	15.7	17.5	15.8	14.0	15.0	16.6	17.2	19.4

The coolest temperature recorded in Tonga in December 2016 was 17.8ºC recorded in Fua'amotu on Saturday the 10th.

SUMMARY OF RAINFALL

Table 6. Summary of December rainfall 2016

Stations	December Total Rainfall (mm	30 Year Normal (1981-2010) (mm)	Percentage Normal (%)	Highest 1-Day Rainfall (mm)
Niuafo'ou	307.3	311.6	98	49.9mm Wed. 28th
Niuatoputapu	317.6	260.1	82	97.7mm Sun. 18th
Vava'u	145.1	244.0	59	41.3mm Fri 30th
Ha'apai	318.2	133.4	238	184.2mm Mon. 19th
Fua'amotu	209.4	146.9	43	105.3mm Mon 05th
Nuku'alofa	135.4	159	85	95.2mm Mon 05th

Table 7. Monthly rainfall for 2016

Station	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Niuafo'ou	61.4	133.3	271.2	449.3	77.2	112.1	44.1	113.4	101.9	182.3	235.3	307.3
Niuatoputapu	111	71.3	125.6	369.0	49.4	224.4	45.1	73.3	255.7	200.0	66.4	317.6
Vava'u	170.2	463.1	189.3	226.2	232.3	329.5	49.2	304.3	11.9	253.6	184.0	145.1
Ha'apai	84.7	307.8	233.8	111.2	436.9	387.1	59.1	147.9	38.5	129.5	58.9	318.2
Fua'amotu	80.4	228.8	139.6	238.5	276.2	564.3	31.4	297.2	11.9	137.3	166.7	209.4
Nuku'alofa	50.5	351.5	127.9	238.1	181.4	435.4	24.1	306.7	9.0	72.2	127.6	135.4