

MANGAIA, Cook Islands**Annual Climatic Design Data (1986–2019)**

Latitude	Longitude	Elevation m	Standard Station Pressure kPa	Winter Temperature °C	Summer Temperature °C	Extreme Wind Speed m/s	Extreme Wind Direction
21.917S	157.950W	41	100.83	16.1	29.9	9.5	SE

Monthly Winds (1986–2019)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
%CALM	12	16	18	14	15	14	12	8	13	8	11	8
Prevailing Wind #1												
DIR	NNE	E	E	SE	SE	SE	SE	NNE	SE	E	E	NNE
%OCC	18	15	14	22	15	15	13	25	17	19	23	17
AVG m/s	3.5	4.4	4.0	4.7	4.5	4.1	4.4	3.7	4.5	3.6	4.1	3.5
MED m/s	3.4	3.9	3.7	4.4	4.2	3.7	3.8	3.6	4.3	3.4	3.7	3.3
Prevailing Wind #2												
DIR	E	ESE	SE	E	E	E	S	SE	E	NNE	SE	SE
%OCC	12	10	12	17	12	10	10	9	12	18	18	17
AVG m/s	4.0	5.5	3.9	4.2	4.0	4.1	4.4	4.5	4.2	3.5	4.4	4.2
MED m/s	3.5	4.9	3.6	4.0	3.9	3.9	4.0	4.1	4.1	3.3	4.1	4.0
Prevailing Wind #3												
DIR	NE	SE	ESE	ESE	ESE	ESE	E	NE	S	ESE	ESE	E
%OCC	10	10	8	11	10	8	8	8	11	16	13	15
AVG m/s	3.9	5.6	4.1	5.0	3.8	4.5	4.2	3.7	4.3	3.8	4.1	3.6
MED m/s	3.6	4.4	4.0	4.9	3.5	4.4	3.9	3.4	4.1	3.7	3.8	3.4
Prevailing Wind #4												
DIR	SE	NE	NE	N	S	NE	W	E	ESE	SE	NE	ESE
%OCC	10	10	7	7	8	8	7	8	9	11	9	14
AVG m/s	4.3	4.0	3.7	5.4	3.9	4.1	5.5	3.6	4.5	4.1	3.8	4.1
MED m/s	4.0	3.6	3.5	4.8	3.5	3.8	5.2	3.5	4.4	3.8	3.6	3.9