



MINISTRY OF FINANCE AND ECONOMIC MANAGEMENT
GOVERNMENT OF THE COOK ISLANDS
COOK ISLANDS
STATISTICAL BULLETIN

CLIMATE STATISTICS
September Quarter 2023

Climate – Rarotonga and Aitutaki recorded an average temperature of 22.2 and 25.0 degrees Celsius respectively, with a total rainfall of 291 millimeters for Rarotonga and 193 millimeters for Aitutaki. Penrhyn had an average temperature of 28.7 degrees Celsius with a total rainfall of 184 millimeters during September quarter 2023.

A total of 520 hours of sunshine was recorded for Rarotonga.

Further information about this release can be obtained from the Statistics Office.

Taggy Tangimetua
Government Statistician
December 2023

Table 1
Average Temperature

Quarterly	Average Temperature (celsius)			
	Rarotonga	Aitutaki	Penrhyn	
2014	Mar	26.5	26.5	28.8
	Jun	23.5	24.7	29.0
	Sep	21.5	23.2	28.9
	Dec	24.2	25.1	28.9
2015	Mar	25.7	26.2	28.5
	Jun	22.9	25.1	29.1
	Sep	21.6	24.9	29.0
	Dec	24.2	24.8	29.4
2016	Mar	26.1	25.6	29.1
	Jun	23.8	24.5	28.9
	Sep	23.6	23.8	28.7
	Dec	25.6	24.9	28.8
2017	Mar	27.5	26.1	28.7
	Jun	25.0	24.8	29.0
	Sep	22.9	24.0	28.6
	Dec	24.6	24.9	28.4
2018	Mar	26.6	26.0	28.5
	Jun	25.1	24.8	29.0
	Sep	23.0	24.2	28.1
	Dec	27.0	24.9	28.9
2019	Mar	26.9	25.9	29.2
	Jun	24.3	24.7	29.5
	Sep	23.3	24.0	28.3
	Dec	24.3	24.9	28.6
2020	Mar	26.9	26.0	28.8
	Jun	25.0	24.7	29.2
	Sep	22.3	24.1	28.4
	Dec	25.2	24.9	28.2
2021	Mar	27.0	25.9	28.8
	Jun	24.3	24.7	28.9
	Sep	23.8	24.1	27.9
	Dec	24.8	25.9	28.1
2022	Mar	26.5	27.3	28.3
	Jun	25.6	26.9	28.5
	Sep	23.4	24.1	27.4
	Dec	24.7	25.9	27.8
2023	Mar	26.4	27.5	28.5
	Jun	23.7	25.3	29.0
	Sep	22.2	25.0	28.7

Table 2
Total Rainfall and Total Hours of Sunshine

Quarterly	Total Rainfall (mm)			Total Hours of Sunshine	
	Rarotonga	Aitutaki	Penrhyn	Rarotonga	
2014	Mar	511	493	440	575
	Jun	325	211	227	530
	Sep	304	189	108	602
	Dec	522	479	474	576
2015	Mar	771	481	1031	546
	Jun	367	209	139	485
	Sep	83	195	94	547
	Dec	220	464	656	611
2016	Mar	246	484	940	552
	Jun	159	209	883	546
	Sep	508	193	470	579
	Dec	508	479	307	506
2017	Mar	492	486	691	593
	Jun	436	210	518	500
	Sep	111	193	125	631
	Dec	529	474	352	508
2018	Mar	886	484	418	539
	Jun	535	209	110	487
	Sep	362	194	258	576
	Dec	339	472	235	541
2019	Mar	762	598	513	497
	Jun	445	209	269	481
	Sep	243	193	320	549
	Dec	552	475	134	518
2020	Mar	850	523	654	488
	Jun	393	209	224	549
	Sep	427	193	281	527
	Dec	257	474	127	609
2021	Mar	705	535	250	672
	Jun	888	209	192	577
	Sep	344	193	254	591
	Dec	507	474	441	685
2022	Mar	862	170	845	579
	Jun	423	106	632	585
	Sep	357	193	349	684
	Dec	500	474	244	651
2023	Mar	767	409	223	580
	Jun	443	183	151	512
	Sep	291	193	184	520

Table 3
Average Temperature

Period	Average Temperature (celsius)		
	Rarotonga	Aitutaki	Penrhyn
1986	24.2	25.8	...
1987	23.8	25.5	28.2
1988	24.7	25.9	27.6
1989	24.5	25.9	25.1
1990	24.5	28.2	27.9
1991	24.4	26.0	28.2
1992	24.6	26.2	28.0
1993	24.5	26.2	28.2
1994	24.2	26.0	28.1
1995	24.6	26.3	28.2
1996	24.8	25.9	28.5
1997	24.1	24.6	28.5
1998	24.5	27.2	28.9
1999	24.3	25.6	28.3
2000	24.2	25.9	28.6
2001	24.6	25.7	28.8
2002	24.8	26.4	29.2
2003	24.6	25.9	29.2
2004	24.8	26.1	28.8
2005	24.6	25.5	29.0
2006	24.8	25.5	29.1
2007	25.0	25.8	29.0
2008	25.0	26.1	28.5
2009	24.3	26.1	28.9
2010	24.7	26.0	28.9
2011	25.2	25.5	28.4
2012	24.3	25.0	28.6
2013	24.4	25.0	28.5
2014	23.9	24.9	28.9
2015	23.6	25.2	29.0
2016	24.8	24.7	28.9
2017	25.0	24.9	28.7
2018	25.4	25.0	28.6
2019	24.7	24.9	28.9
2020	24.9	24.9	28.7
2021	25.0	25.2	28.4
2022	25.0	26.0	28.0

Table 4
Total Rainfall and Total Hours of Sunshine

Period	Total Rainfall (mm)			Total Hours of Sunshine
	Rarotonga	Aitutaki	Penrhyn	Rarotonga
1991	1,790	2,006	3,310	2,075
1992	1,184	1,377	1,393	1,643
1993	1,299	1,439	3,992	2,355
1994	1,940	2,159	3,146	2,008
1995	2,121	2,222	1,989	2,177
1996	1,957	2,595	1,839	2,209
1997	1,372	1,127	2,172	2,409
1998	1,084	586	2,029	2,301
1999	2,250	1,567	911	2,421
2000	2,122	1,765	846	2,439
2001	1,837	2,191	1,263	2,245
2002	1,794	1,394	1,657	2,269
2003	2,073	952	1,862	2,246
2004	1,724	602	1,994	2,526
2005	1,969	793	1,179	2,099
2006	2,246	1,460	1,882	2,169
2007	1,991	1,828	2,024	2,084
2008	1,991	1,358	1,213	2,088
2009	1,657	1,230	1,356	2,282
2010	1,684	1,388	1,320	2,294
2011	1,640	1,443	1,341	2,413
2012	1,215	1,298	1,717	2,136
2013	1,405	1,376	2,237	2,005
2014	1,662	1,372	1,249	2,283
2015	1,441	1,349	1,920	2,189
2016	1,421	1,366	2,600	2,183
2017	1,568	1,362	1,686	2,232
2018	2,122	1,359	1,021	2,143
2019	2,002	1,476	1,236	2,045
2020	1,927	1,399	1,286	2,173
2021	2,444	1,411	1,137	2,525
2022	2,142	943	2,070	2,499