



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

CLIMATE STATISTICS
March Quarter 2024

Climate – Rarotonga and Aitutaki recorded an average temperature of 26.5 and 27.5 degrees Celsius respectively, with a total rainfall of 449 millimeters for Rarotonga and 365 millimeters for Aitutaki. Penrhyn had an average temperature of 29.7 degrees Celsius with a total rainfall of 439 millimeters during March quarter 2024.

A total of 632 hours of sunshine was recorded for Rarotonga.

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

Taggy Tangimetua
Government Statistician
July 2024

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 |
| | Dec | 24.4 | 25.4 | 29.1 |
| 2024 | Mar | 26.5 | 27.5 | 29.7 |

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 |
| | Dec | 154 | 474 | 470 | 579 |
| 2024 | Mar | 449 | 365 | 439 | 632 |

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 |
| 2023 | 24.2 | 25.8 | 28.8 |

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 |
| 2023 | 1,655 | 1,260 | 1,028 | 2,191 |