

Climate change, food security, and health in Pacific Island Countries and Territories

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Pacific Island Countries and Territories (PICTs) are experiencing the effects of climate change. A changing climate threatens regional food security. This has implications for the way food is sourced and consumed, and in turn the health challenges PICTs face. This presentation presents a narrative analysis of accessible literature from PICTs on the health impacts of climate change and food security. The Medline and Scopus databases were used to identify relevant literature, with no date restriction. Records were organised using a PRISMA framework. Ten articles, published between 2010 and 2019, were included in the final synthesis. Included articles were those that explored the convergent themes on the described association between climate change, food security and health. Four articles examined the wider Pacific region, four referred to Micronesia region and/or its constituent countries, and two focused at the country level. Various social, cultural and economic factors may explain why food security has been worsening over time, coinciding with shifts in dietary patterns, and in turn health challenges¹. Climate change is impacting food security through its effects on fisheries, agriculture, and migration²⁻³. These shifts are documented in various studies based within PICTs, yet there are relatively few studies drawing together climate change and food security with a view to informing public health interventions. Food security remains a major public health issue for PICTs, and further research is needed to support the development of evidence-based public health policy responses to the climate change impacts on health in the region⁴.

¹Swinburn BA, Kraak VI, Allender S, Atkins VJ, Baker PI, Bogard JR, Brinsden H, Calvillo A, De Schutter O, Devarajan R, Ezzati M. The global syndemic of obesity, undernutrition, and climate change: the Lancet Commission report. *The Lancet*. 2019;393(10173):791-846.

²Savage A, Mclver L, Schubert L. The nexus of climate change, food and nutrition security and diet-related non-communicable diseases in Pacific Island Countries and Territories. *Climate and Development*. 2019;12(2):120-33.

³Campbell JR. Development, global change and traditional food security in Pacific Island countries. *Regional Environmental Change*. 2015;15(7):1313-24.

⁴Farrell P, Thow AM, Wate JT, Nonga N, Vatucaawaqa P, Brewer T, Sharp MK, Farmery A, Trevena H, Reeve E, Eriksson H. COVID-19 and Pacific food system resilience: opportunities to build a robust response. *Food Security*. 2020;12(4):783-91.