



Overview of recent arboviral threats in the Pacific

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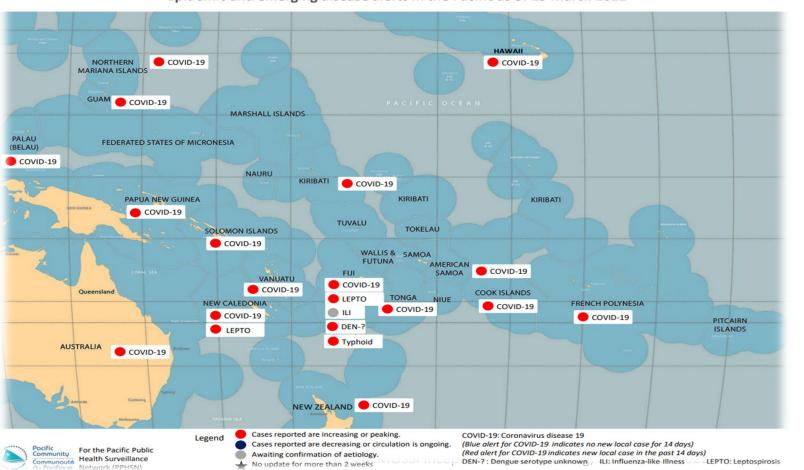
Introduction

- Emerging and re-emerging diseases are significant threats to Pacific health security.
- The region has been threatened by unprecedented outbreaks of arboviral diseases (dengue fever, zika and chikungunya) over the last decade or so.
- Zika virus first emerged in the region in Yap State, FSM in 2007 and later declared a Public Health of International Concern (PHEIC) in 2016 (1 Feb-18 November).
- Drivers of emerging and re-emerging arboviral diseases include population growth and movement, encroachment into vector habitats, changes in vector behaviour due to rapid urbanization and changes in natural habitats brought about by climate change.



Epidemic and emerging disease alerts in the Pacific as of 15 March 2022

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- 1 Dengue fever
- 1 Influenza
- 1 Typhoid fever
- 2 Leptospirosis
- 16 COVID-19

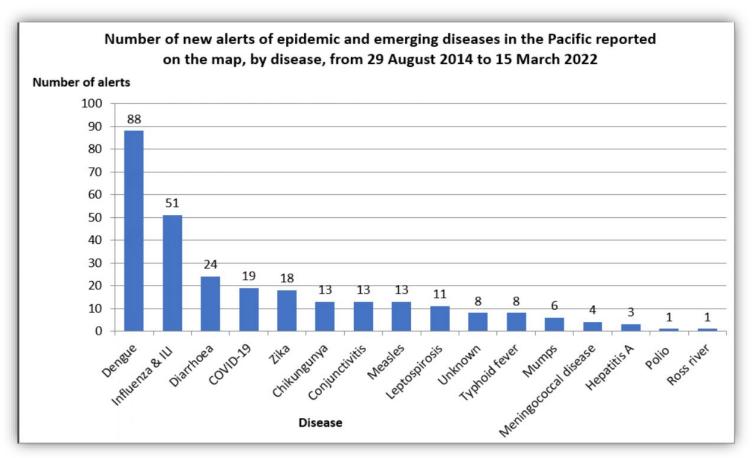


Source: Pacific Community (SPC) Regional Epidemic Intelligence System Database.



Reported number of new alerts: 2014 - 15 March 2022

- 281 alerts from 29
 August 2014 to 15
 March 2022
- Dengue fever tops all alerts for this period

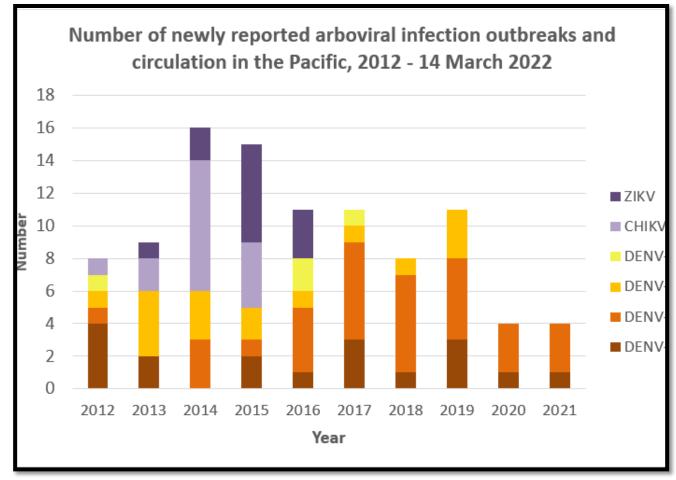


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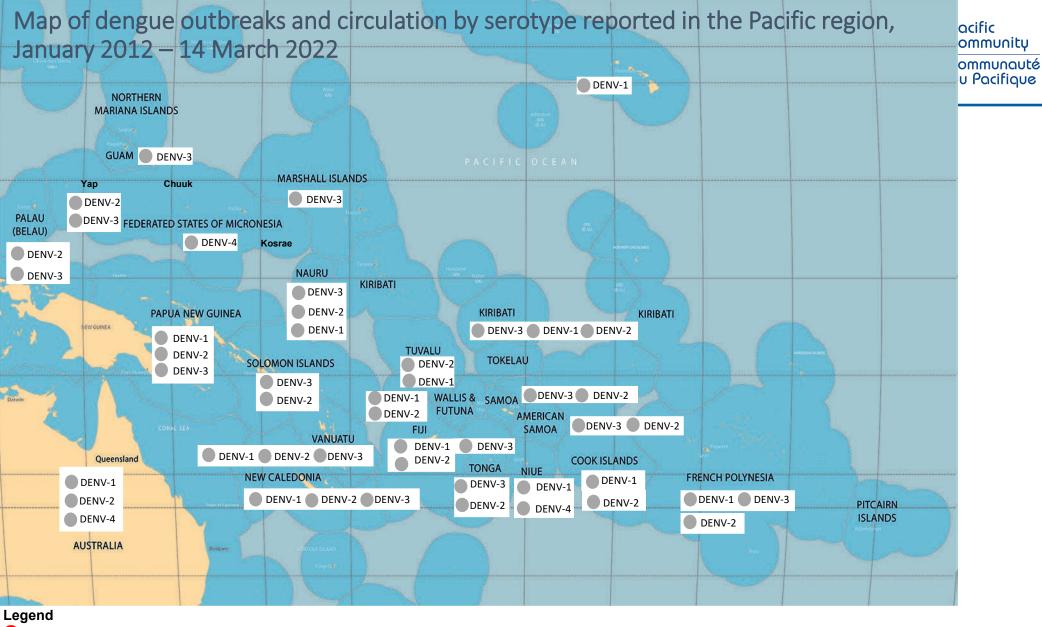
Newly reported arboviral outbreaks: January 2012 – 14 March 2022



- 97 newly reported arboviral outbreaks and circulation
- Total number of newly reported dengue outbreaks and circulation was 70: DENV1-18, DENV2-32, DENV3-16 and DENV4-4
- Total number of newly reported Zika virus outbreaks was 12
- Total number of newly reported Chikungunya outbreaks was 15



Source: Pacific Community (SPC) Regional Epidemic Intelligence System Database.



- Cases reported are increasing or peaking.
- Cases reported are decreasing or viral circulation is ongoing
- Outbreak or viral circulation is over.



What is SPC doing?

- Strengthening surveillance of arboviral diseases through a One Health approach
- Production of knowledge products
- Signing of Agreement between SPC and JCU (PacMOSSI) on capacity building on entomology
- Risk communication and awareness on arboviral diseases via various media platforms
- Support for operational research
- Support for serosurveys of dengue fever in Vanuatu and New Caledonia in collaboration with IPNC and the Ministries of Health of the two countries
- Development of a dengue fever predictive tool in collaboration with IRD
- Conduct of a feasibility study for establishment of regional insectary





