# PACIFIC RISK PROFILE **PAPUA NEW GUINEA**



## **Basic Country Statistics**









Male 4,604,071 persons or 51.53% Female 4,330,403

persons or 48.47%

Product (GDP) per Capita

**Gross Domestic** 

US\$2,854 (2019)

statistical-summary-resume-statistique-de-poche-2020



**Disability Prevalence** 13.4%

Women's Labour Force

at https://www.unescap.org/publications/ disability-glance-2019

**Participation Rate** 

**62%** 

Per cent of Children, Youth and Elderly

> Children (<14) 37%

**Youth** (15-24) 19%

**Elderly** (60+) 5%



**Population Density** 19 persons/km<sup>2</sup>

at https://sdd.spc.int/digital\_library/pocket-statistical-summary-resume-statistique-de-poche-2020

Pacific Risk Profile is a snapshot of climate and disaster risk information that is collected from credible open data sources. It is intended to provide DFAT program managers and implementing partners with easy access to essential risk information. When employing risk information in specific program contexts, however, it is strongly encouraged to study the original risk information sources or even undertake proper risk assessments.

For more information or other technical support, you may contact the Australia Pacific Climate Partnership Support Unit at helpdesk@apclimatepartnership.com.au.

Published in July 2021

### Hazard Likelihood



### **Economic Loss Due to Disasters**

#### Total Average Annual Losses (AAL) US\$295 million

AAL as a Percentage of GDP 1.61%

UNESCAP (2020) The Disaster Riskscape across the Pacific Small Island Developing States at https://www. unescap.org/sites/delault/dRites/IDD-APDR-Subreport-Pacific-SIDS.pdf UNESCAP (2020) The Disaster Riskscape across the Pacific Small Island Developing States

### **Risk Index**

#### World Risk index

Papua New Guinea is ranked 8th among the countries with the highest disaster risk.

Exposure - Very High Vulnerability - Very High Susceptibility - Very High Lack of Coping Capacities - Very High Lack of Adaptive Capacities - Very High

World Risk Report 2020 at https://reliefweb.int/sites/reliefweb.int/files/resources/WorldRiskReport-2020.pd Climate Risk Index for 1999-2018 Between 1999 and

2018, Papua New Guinea was the 98th country most affected by extreme weather events.

Global Climate Risk Index 2020 at https://www.germanwatch.org/ en/17307



Papua New Guinea's risk level is high when assessing the potential humanitarian impacts of Covid-19 in combination with other pre-existing crisis risks.

INFORM Covid-19 Warning (beta version) at https://dmkc.jrc.ec.europa. eu/inform-index/INFORM-Covid-19/INFORM-Covid-19-Warning-beta-version

# Major Disasters 2011-2020

Per cent of Disaster Type

(Major Disasters 2011-2020)





Total Damage US\$148 million



3

Number of Major Cyclones in 2011-2020

EM-DAT Database (February 2021) at https://www.emdat.be/

# HIGHLAND EARTHQUAKE (2018)

On 26 February 2018, a M7.5 earthquake took place in the Highlands of Papua New Guinea affecting more than

544,000 people

The initial damage from the earthquake in Papua New Guinea's Hela Province alone is more than

# US\$61 million

RNZ News at https://www.rnz.co.nz/international/pacific-news/354087/png-pm-says-hela-quake-damage-costs-over-us-61m

## **Climate Projection**



#### Cyclone

Tropical cyclones are projected to be less frequent but more intense.

### Temperature

Annual mean temperatures and extremely high daily temperatures will continue to rise.



### Rainfall

Average rainfall is projected to increase in most areas, along with more extreme rain events.

# Sea-level Rise

Sea level is expected to continue to rise.



Very High Emissions Scenario



# Ocean Acidification



Ocean acidification is expected to continue.

# **Coral Bleaching Risk**



The risk of coral bleaching is expected to increase.

## El Niño / La Niña



El Niño and La Niña events will continue to occur in the future.

Generally in Papua New Guinea El Niño years are usually drier than normal while La Niña events are usually wetter. The dry season at Port Moresby is cooler than normal in El Niño years and warmer than normal in La Niña years, while the wet season tends to be warmer and drier than normal during an El Niño event.