



**PALAU** 

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# **NGARCHELONG**

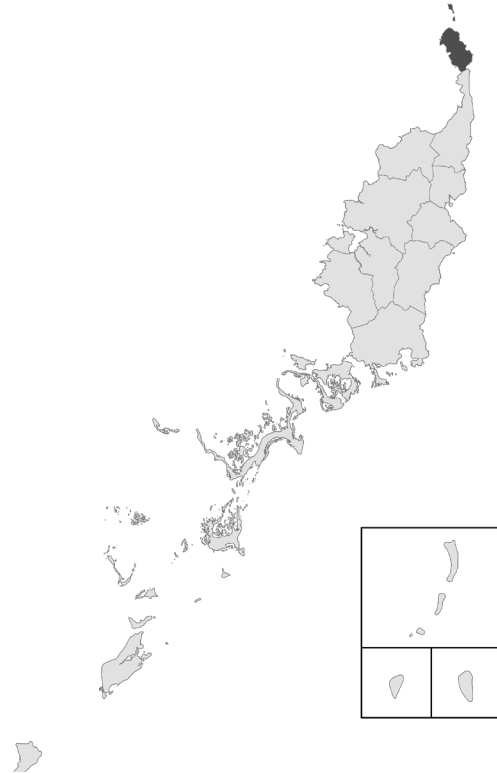
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## **NDPBA SUBNATIONAL PROFILE**

# PALAU NGARCHELONG

**CAPITAL: MENGELLANG**

Area: 3 mi<sup>2</sup>



## RISK AND VULNERABILITY COMPONENT SCORE



**MULTI-HAZARD RISK (MHR) -**

**Moderate**

Score: 0.485 • Rank: 9/16



**RESILIENCE (R) - Moderate**

Score: 0.601 • Rank: 6/16



**MULTI-HAZARD EXPOSURE**

**(MHE) - High**

Score: 0.655 • Rank: 5/16



**VULNERABILITY (V) -**

**Moderate**

Score: 0.533 • Rank: 8/16



**COPING CAPACITY (CC) - High**

Score: 0.734 • Rank: 5/16



Population (2020 Census)

**384**



Poverty

**35.4%**



No High School Diploma

**12.0%**



Households without Internet

**59.3%**



Temporary Structures as Housing

**3.54%**



# MULTI-HAZARD EXPOSURE (MHE)

RANK: 5 / 16 STATES

SCORE: 0.655



MHE  
0.655

Raw MHE  
0.622

Relative MHE  
0.689

## ESTIMATED EXPOSURE TO EACH HAZARD:



Sea Level Rise

**4.7%**

18

-

Critical Infrastructure Exposed:  
16.7%



Tsunami

**4.0%**

15

\$4.56 Million

Critical Infrastructure Exposed:  
31.9%



Storm Surge + Sea Level Rise

**9.2%**

35

\$6.93 Million

Critical Infrastructure Exposed:  
37.5%



Earthquake

**100.0%**

384

\$11.5 Million

Critical Infrastructure Exposed:  
100.0%



Storm Surge

**4.1%**

16

\$4.56 Million

Critical Infrastructure Exposed:  
31.9%



Landslide

**5.8%**

22

-

Critical Infrastructure Exposed:  
4.2%



Tropical Cyclone Wind

**100%**

384

\$11.9 Million

Critical Infrastructure Exposed:  
100%



## VULNERABILITY (V)

**RANK: 8 / 16 STATES ASSESSED**  
**SCORE: 0.533**

Vulnerability measures the conditions and processes that increase susceptibility of communities and systems to the damaging effects of hazards. Vulnerability in Ngarchelong is primarily driven by Household Composition and Disability and Socioeconomic Status. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



### Housing Characteristics

0 1 **SCORE: 0.333** **RANK: 11/16 STATES ASSESSED**

|   |   |   |
|---|---|---|
| <b>23.9%</b><br>Households<br>Using Biomass<br>for Fuel | <b>2.7%</b><br>Households<br>without<br>Electricity | <b>3.5%</b><br>Households<br>without<br>Access to<br>Public Water |
|---|---|---|



### Communication Assets

0 1 **SCORE: 0.466** **RANK: 9/16 STATES ASSESSED**

|  |   |   |   |  |
|--|---|---|---|--|
| <b>8.0%</b><br>Households<br>without Cell<br>Phone | <b>62.8%</b><br>Households<br>without<br>Computer | <b>59.3%</b><br>Households<br>without<br>Internet | <b>15.9%</b><br>Households<br>without Phone | <b>31.0%</b><br>Households<br>without TV |
|--|---|---|---|--|



### Household Composition and Disability

0 1 **SCORE: 1.000** **RANK: 1/16 STATES ASSESSED**

|                                     |   |   |  |
|-------------------------------------|---|---|--|
| <b>22.9%</b><br>Percent<br>Disabled | <b>27.3%</b><br>Percent Under<br>18 Years of<br>Age | <b>23.7%</b><br>Households<br>with Single<br>Mother | <b>46.6%</b><br>Percent Over<br>65 Years of<br>Age |
|-------------------------------------|---|---|--|



### Socioeconomic Status

0 1 **SCORE: 0.733** **RANK: 5/16 STATES ASSESSED**

|  |  |                                     |  |
|--|--|-------------------------------------|--|
| <b>\$8,059.72</b><br>Average Income<br>(USD) | <b>12.0%</b><br>Percent No<br>High School<br>Diploma | <b>5.8%</b><br>Unemployment<br>Rate | <b>35.4%</b><br>Population<br>Earning Less<br>than \$5.50 per<br>day |
|--|--|-------------------------------------|--|



### Housing Type and Transportation

0 1 **SCORE: 0.000** **RANK: 13/16 STATES ASSESSED**

|  |  |  |   |   |  |
|--|--|--|---|---|--|
| <b>3.4</b><br>Median<br>Number of<br>Persons per<br>Housing Unit | <b>13.3%</b><br>Percent of<br>Households<br>with No<br>Vehicle | <b>0.0%</b><br>Population<br>Living in Group<br>Quarters | <b>-</b><br>Institutionalized<br>Population | <b>3.5%</b><br>Households<br>Living in<br>Temporary<br>Structures | <b>0.0%</b><br>Housing<br>Structures<br>with 10 or<br>more Units |
|--|--|--|---|---|--|



## COPING CAPACITY (CC)

RANK: 5 / 16 STATES ASSESSED

SCORE: 0.734

Coping Capacity measures the systems, means, and abilities of people and societies to absorb and respond to disruptions in normal function. The bar charts below indicate the socioeconomic themes contributing to the overall Coping Capacity score.



### Emergency Services Capacity

0  1 SCORE: 0.734 RANK: 5/16 STATES ASSESSED

**8.26**

Average  
Distance to  
Fire Station (mi)

**0.29**

Average  
Distance to  
Shelter (mi)

**0.78**

Average  
Distance to  
Health Facility  
(mi)



### Transportation Capacity

0  1 SCORE: 0.600 RANK: 7/16 STATES ASSESSED

**1.74**

Road Density  
(mi per square  
mi)

**19**

Maximum  
Distance to  
Koror (mi)

**0.58**

Average  
Distance to  
Port (mi)



## RESILIENCE (R)

**RANK: 6 / 16 STATES ASSESSED**

**SCORE: 0.601**

Components of resilience are independent of natural hazard exposure. This type of measure helps rank states based on their likelihood of experiencing a disruption outside of a naturally occurring event.

**Below are the four thematic areas with the weakest relative scores:**



**Household  
Composition and  
Disability**



**Socioeconomic  
Status**



**Transportation  
Capacity**



**Housing  
Characteristics**

## KEY FACTORS INFLUENCING RESILIENCE



### Household Composition and Disability

Single-parent households and those with dependent populations, such as the very young, elderly and the disabled may have more difficulty with mobilizing and evacuating in a timely fashion. The deaf or hard of hearing, for example, may not receive audible hazard alerts. Once evacuated, disabled populations and those with special needs will require additional services and care considerations in the response aftermath and during recovery. Ensure that plans and strategies include special accommodations for these populations.



### Socioeconomic Status

Populations experiencing socioeconomic constraints lack the necessary financial resources to adequately prepare for or recover from a natural disaster. The unemployed, low-income households, and those receiving public assistance have little to no financial buffers that would facilitate preparedness actions such as stocking extra food and supplies, support recovery actions such as repairing homes after a disaster, or fund mitigation actions that would protect their homes and property from future hazard impacts.



### Transportation Capacity

Denser and more diverse transportation networks provide more options for bringing outside resources into an impacted area and increase the ability of response stakeholders to access affected populations. Improved transportation capacity supports the ability to distribute resources before, during, and after a disaster.



### Housing Characteristics

Households experiencing access constraints with regard to information, clean water and energy are challenged to maintain a standard of living that meets basic household needs. Facing significant demands on daily routines effectively limit response and recovery capacity and the ability to maintain livelihoods. Limited communications assets, such as no telephone service or access to the internet can impede the ability of households to receive and act upon urgent hazard warning information.



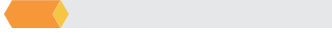
## HAZARD-SPECIFIC RISK (HSR)



**Sea Level Rise**

**RANK: 12 / 16 STATES ASSESSED**

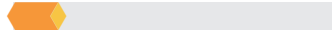
**SCORE: 0.140**



**Sea Level Rise + Storm Surge**

**RANK: 13 / 16 STATES ASSESSED**

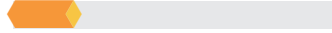
**SCORE: 0.125**



**Storm Surge**

**RANK: 8 / 16 STATES ASSESSED**

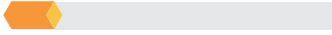
**SCORE: 0.170**



**Tropical Cyclone Wind**

**RANK: 7 / 16 STATES ASSESSED**

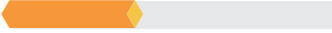
**SCORE: 0.124**



**Earthquake**

**RANK: 3 / 16 STATES ASSESSED**

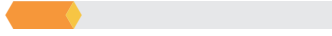
**SCORE: 0.364**



**Tsunami**

**RANK: 8 / 16 STATES ASSESSED**

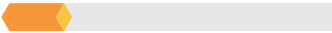
**SCORE: 0.175**



**Landslide**

**RANK: 8 / 16 STATES ASSESSED**

**SCORE: 0.158**







## MULTI-HAZARD RISK (MHR)

**9 / 16**

RANK WITHIN STATES  
Score: 0.485



Ngarchelong's score and ranking are due to High Multi-hazard Exposure combined with Moderate Vulnerability and High Coping Capacity scores.

### Multi-hazard risk component scores compared to overall average country scores:

█ STATES SCORE  
█ STATES SCORE  
█ COUNTRY SCORE



#### Multi-Hazard Exposure



#### Vulnerability



#### Coping Capacity



**Better solutions.  
Fewer disasters.**

# Safer world.

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