

Guam Wildfire Impacts

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Wildfire Environmental Impacts



Helicopter support responding to wild grassland fire off
Cross Island Road, 2016/2017

Wildfire Environmental Impacts



Norman
Taruc, 2016

Wildfire Environmental Impacts



Photo: SIFA Pacific

Financial, Infrastructure and Life Exposure

- A relatively large portion of Guam's population, about 110,000 people (69.1 percent), is exposed to a very high or high wildland fire hazard.
- Essential Facilities, Major Utilities, and Transportation Systems exposed include:
 - 145 Essential Facilities (worth \$360.7 million),
 - 239 Major Utilities (worth \$460.7 million), and
 - 73 Transportation Systems (worth \$12.1 million)

2024 Guam Hazard Mitigation Plan



Guam Watershed Plan

July 2022



**US Army Corps
of Engineers** ®
Honolulu District



Guam Watershed Plan Stakeholder Input

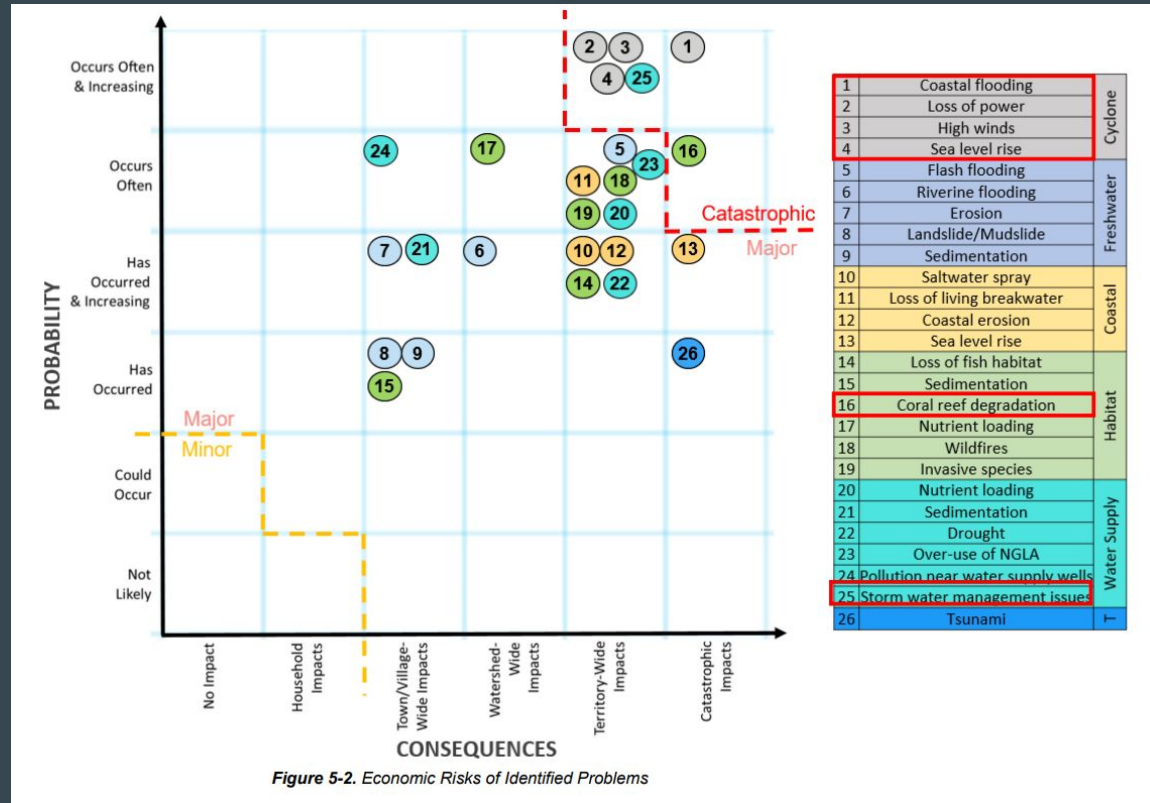
Four risk metric categories:

- Economic,
- Life loss,
- Social, and
- Environmental

Results of the risk assessment for each metric category were compiled.

- ❑ Social and environmental risk metrics assume permanent impacts are exhibited.
- ❑ The relative highest economic risks were those where widespread impacts occur with high frequency.
- ❑ Highest life loss risks consider the magnitude of potential life loss and frequency of the stressor occurring. The range for life loss highest risk spans from frequent events with low magnitude life loss to infrequent events with the potential for high magnitude life loss.
- ❑ The highest relative risk rankings for each risk metric are categorized as catastrophic. A yellow dashed line also designated a minor risk category to denote the relative lowest risk stressors for each risk metric. Stressors falling between minor and catastrophic are considered a major risk

Economic Risks of Identified Problems



Life Loss Risk Summary

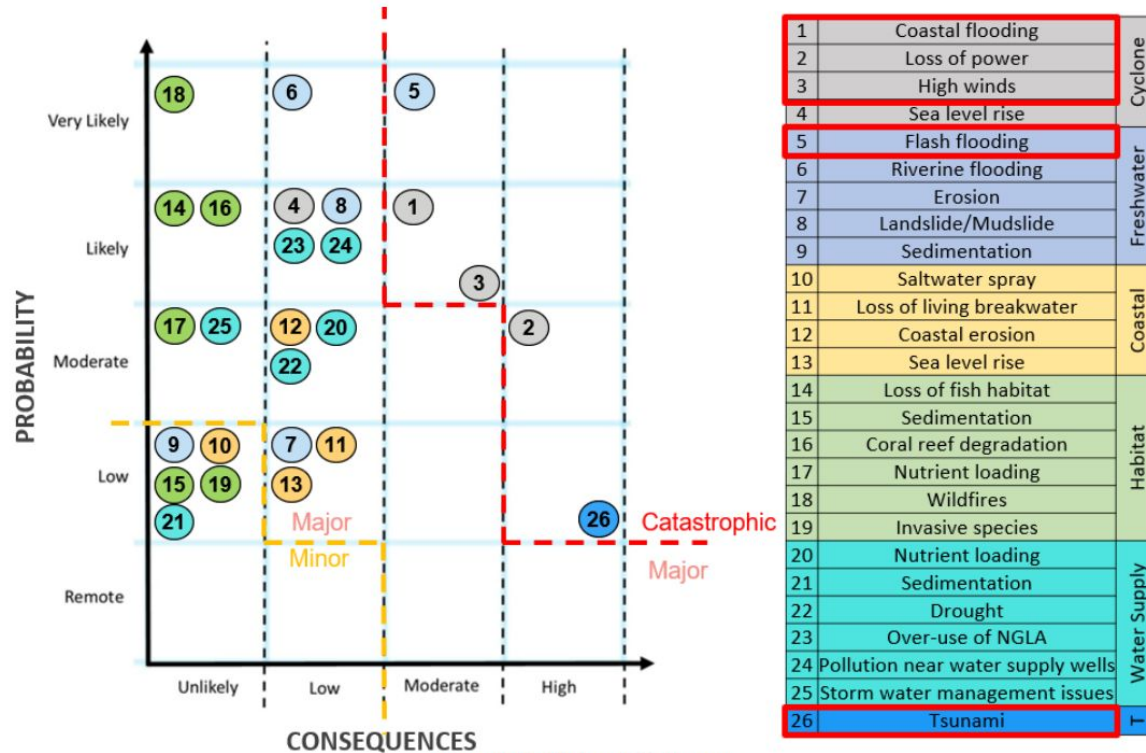
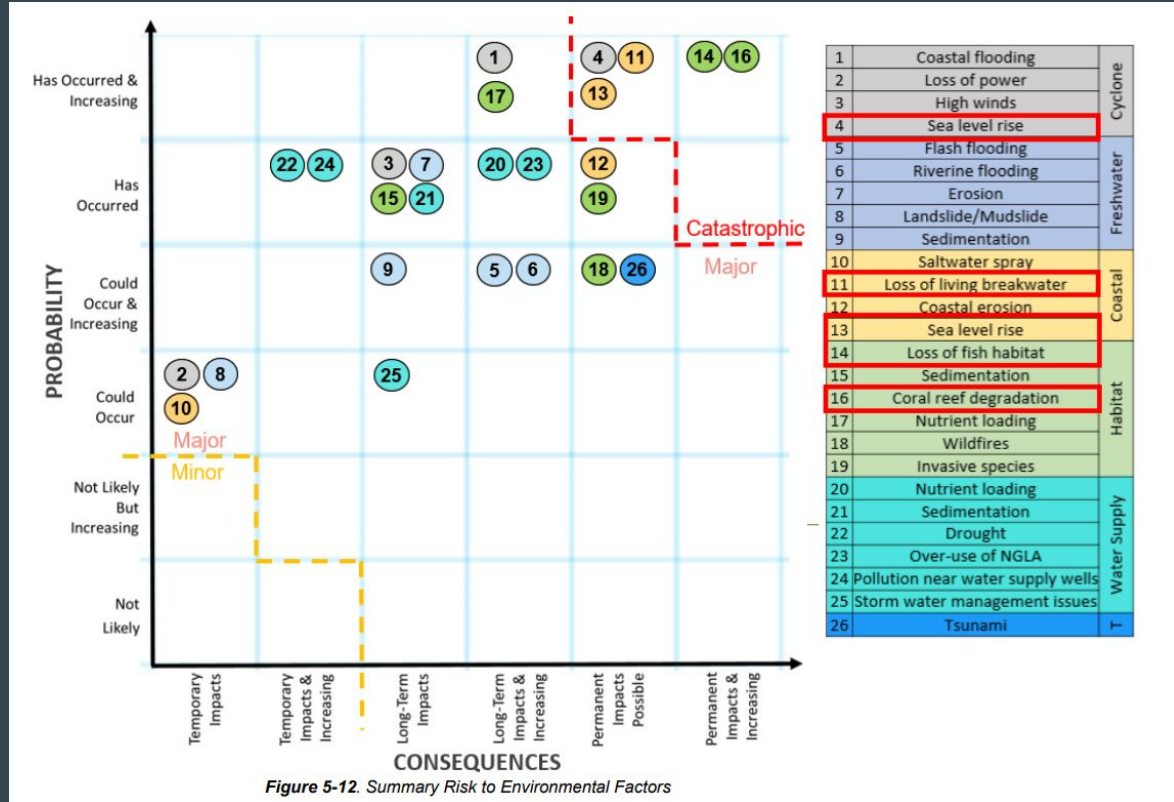
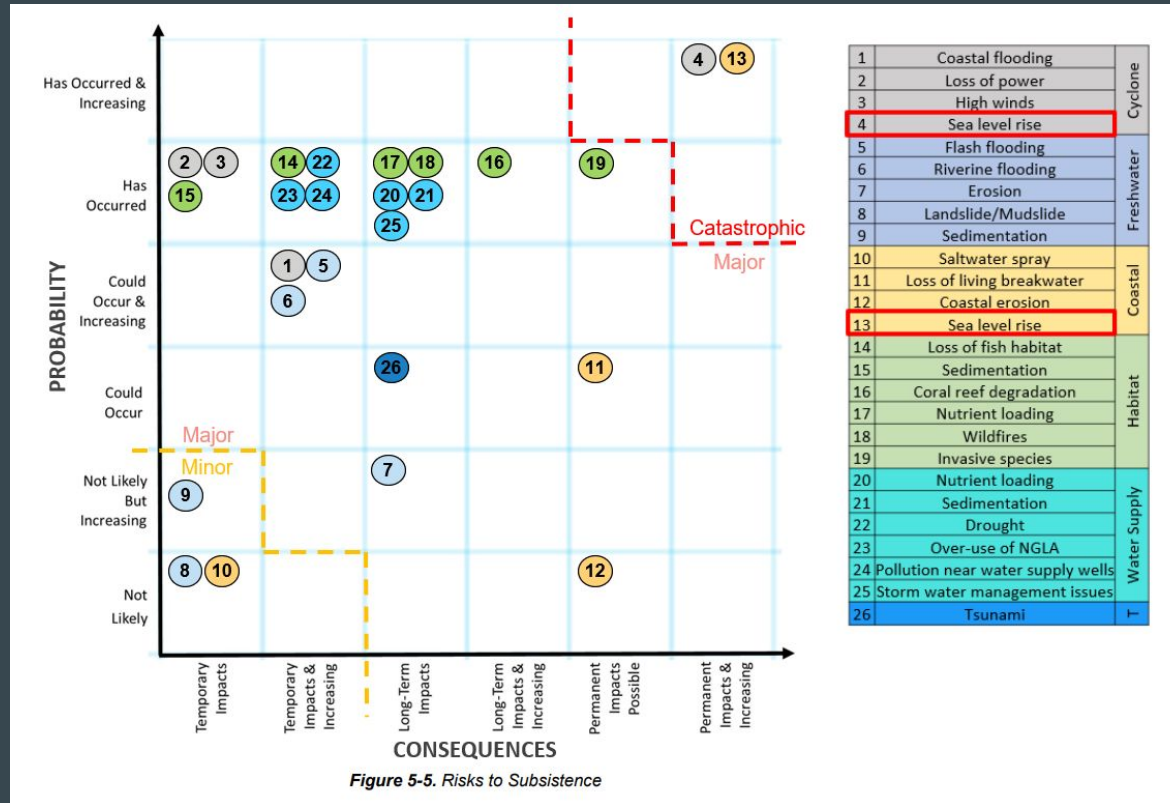


Figure 5-13. Life Loss Risk Summary

Summary Risk to Environmental Factors



Risk to Subsistence



Solutions Identified

- Update laws and regulations related to arson.
- Provide alternative methods for hunting.
- Increase the number of conservation officers and enforcement officers.
- Increase personnel capacity for Forestry for reforestation/urban/rural forestry management, wildland firefighters, and investigators.
- Elevate Forestry personnel to 'public safety'.
- Improve community understanding of fires and support community wildfire protection plans. Provide funding to agencies that fight fires.

Si yu'os ma'åse!