

# 18<sup>th</sup> SESSION OF THE PACIFIC ISLANDS CLIMATE OUTLOOK FORUM PICOF - 18

23 - 24 April, 2026 | Nadi, Fiji





# PICOF-18 Niue's Report



Clemencia Sioneholo (Scientific Officer)

# Impacts

Period: Oct 2025 – Mar 2026

Country: Niue

ENSO phase: Neutral / La Niña

	Synoptic Situation	Type of Hazard	Impacts	Image	Sectors affected	No. of Deaths
1	Low-pressure system (18 <sup>th</sup> November)	Flooding low lying areas	High school and Primary School was closed.		Private Sector Government Sector	None
2	Low-pressure system (28 <sup>th</sup> January)	Flooding low lying areas	High school and Primary School was closed.		Private Sector Government Sector	None



# PICOF-18 SAMOA Report

**Country Representative: Emmanuel Etimani**

**Co-develop presentation: Leasua Maccarios Auvae**

# Impacts

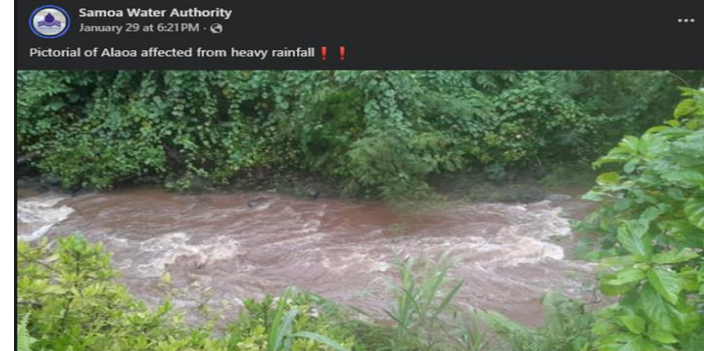
Period: Oct 2025 – Mar 2026

Country: SAMOA

ENSO phase: La Nina

	Synoptic Situation	Type of Hazard	Impacts	Sectors affected	No. of Deaths
1	Trough of low pressure / convergence zone affecting Samoa South Pacific Convergence Zone	Severe Weather Event	Heavy rainfall, localized flooding, strong winds, poor visibility	Transport, agriculture, infrastructure, communities	0 reported
2	Active South Pacific Convergence Zone	Severe Weather Event	Prolonged heavy rain, flooding in low-lying areas, road damage, minor landslides, drainage overflow	Transport, agriculture, infrastructure, communities	0 reported
3	Tropical disturbance	Severe Weather Event	Heavy rainfall, flash flooding, strong winds, rough seas, coastal inundation in exposed areas	Fisheries, transport (marine & road), agriculture, infrastructure, communities	0 reported
4	Active South Pacific Convergence Zone	Severe Weather Event	Intense rainfall, widespread flooding, road damage, landslides, public disruption, water contamination risks	Transport, agriculture, infrastructure, communities	0 reported

# Pictures



Disaster Management Office - Samoa  
February 1 at 10:35 AM · 🌐  
10:35am Sunday 1.2.2026 at Fagalii Ford - Faamuamua lou saogalemu. 🌟





# PICOF-18 Tonga Report

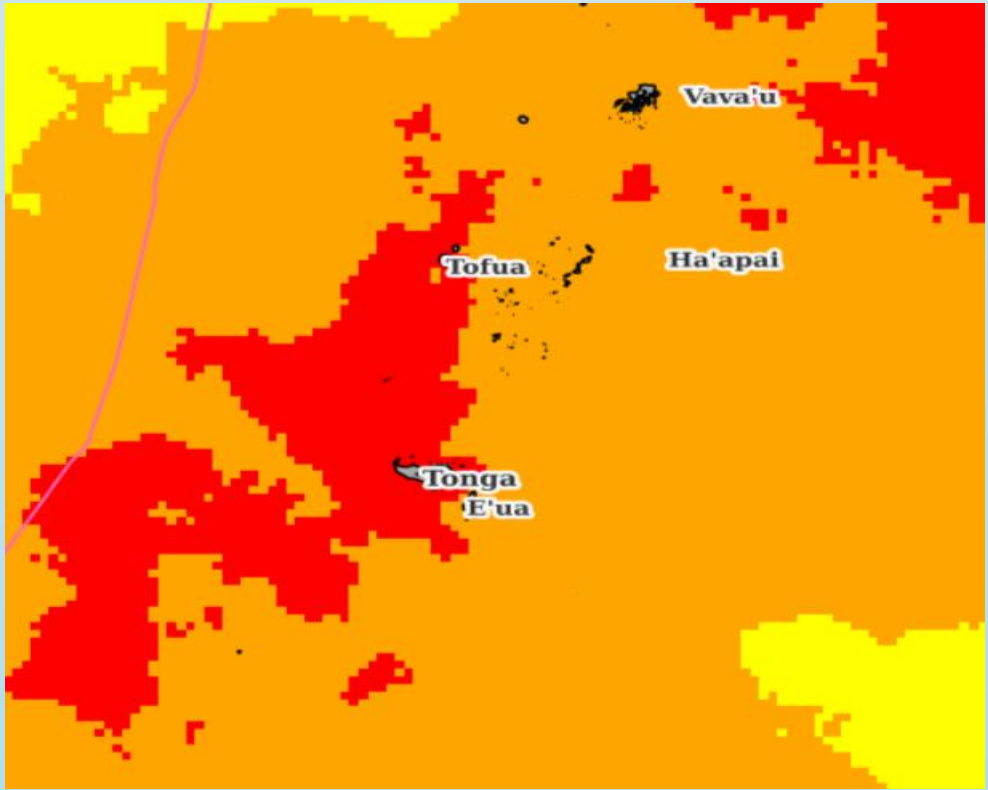

Tutasi Jr Uatahausi



# Impacts

Period: Oct 2025 – Mar 2026

Country: Tonga

ENSO phase: La Nina

	Synoptic Situation	Type of Hazard	Impacts	Image	Lat/Long	Sectors affected	No. of Deaths
1	Marine heatwave / high-pressure system	Heatwave (22nd Jan - 30th March)	<ul style="list-style-type: none"> <li>• Heat stress</li> <li>• Increased water demand</li> <li>• Crop stress</li> <li>• High humidity</li> <li>• Discomfort</li> <li>• Marine stress</li> </ul>		-21.18, -175.20	<ul style="list-style-type: none"> <li>• Health</li> <li>• Agriculture</li> <li>• Water</li> <li>• Fisheries</li> <li>• Environment</li> </ul>	0
2	Elevated sea surface temperatures	Coral bleaching (12th Feb, Tongatapu coral reef)	<ul style="list-style-type: none"> <li>• Coral stress</li> <li>• Reef damage risk</li> <li>• Fisheries impact</li> </ul>		-21.1394, -175.2018	<ul style="list-style-type: none"> <li>• Environment</li> <li>• Fisheries</li> <li>• Tourism</li> </ul>	0

3	ITCZ / tropical disturbance	Heavy rain (8th Dec – Nuku’alofa, Tongatapu)	<ul style="list-style-type: none"> <li>• Flooding in Nuku’alofa</li> <li>• Drainage overflow</li> <li>• Road disruption</li> </ul>		-21.1789, -175.1982	<ul style="list-style-type: none"> <li>• Infrastructure</li> <li>• Transport</li> <li>• Housing</li> </ul>	0
4	Severe thunderstorm instability	Tornadoes (25th Nov – Tungua, Ha’apai)	<ul style="list-style-type: none"> <li>• Localized housing damage</li> <li>• Vegetation loss</li> </ul>		-19.9161, -175.2026	<ul style="list-style-type: none"> <li>• Housing</li> <li>• Agriculture</li> </ul>	0
5	Tropical low intensification	Tropical Cyclone Urmil (27th Feb - 2nd Mar)	<ul style="list-style-type: none"> <li>• Heavy rain</li> <li>• Flooding</li> <li>• Strong winds</li> <li>• Rough seas</li> <li>• Coastal flooding</li> <li>• Risk power outages</li> </ul>		-19.80, -174.35	<ul style="list-style-type: none"> <li>• Infrastructure</li> <li>• Transport</li> <li>• Fisheries</li> <li>• Energy</li> <li>• Housing</li> </ul>	0



# PICOF-18 Tuvalu Report

**Kaani. Kalepo**




**Climate Scientific Officer, Tuvalu Meteorological Service**

# Impacts

Period: October 2025 – April 2026

Country: Tuvalu

ENSO phase: LA NINA




	Synoptic Situation	Type of Hazard	Impacts	Image	Lat/Long	Sectors affected	No. of Deaths
1	An active convergence zone lies slowly moving over Tuvalu. Meanwhile, a strong westerly wind flow affects the central and southern group. (25/01/2026-01/02/2026)	Rough seas, Thunderstorms, Strong winds and Squalls.	<ul style="list-style-type: none"> <li>Strong Wind gusts across the central and southern groups</li> <li>Heavy Rainfall</li> <li>Damages of houses nearby the seashores</li> </ul>	 <p>Strong Wind Gusts, Vaitupu Island (Central Group), Damaged House Properties_Picture, Communication Officer (TMS)</p>	<b>Convergence, Nui</b> - 7.1315 South Niulakita -10.4723 South	<ul style="list-style-type: none"> <li>Marine Department (Operational of shipping vessels)</li> <li>Household Properties</li> </ul>	NIL
2	A moderate north-westerly wind flow prevails over northern group of Tuvalu. Meanwhile, associated clouds and showers affect the group. (311740UTC)	Rough seas, Thunderstorms, Strong winds and Squalls.	<ul style="list-style-type: none"> <li>Sudden strong wind gusts across the island</li> <li>Short-duration heavy rainfall</li> <li>Reduced visibility</li> <li>Potential risk to light structures and small marine vessels</li> <li>Confirmed damages of houses including; <b>49 severely damaged</b>; and <b>52 houses are expected to be affected</b> but assessment not yet done</li> </ul>	  <p>Wind gust generated by nearby squall system, Nanumea Island (Northern group)_Picture, Vaese</p>	<b>Wind gust generated by near Squall System,</b> Nanumea S5'40'26', E176'6'54	<ul style="list-style-type: none"> <li>Tuvalu Red Cross</li> <li>Nanumea Island Council</li> <li>Island Disaster Committee</li> <li>Household Properties</li> </ul>	NIL

# Impacts

Period: November 2025 – April 2026

Country: Tuvalu

ENSO phase: LA NINA

	Synoptic Situation	Type of Hazard	Impacts	Image	Lat/Long	Sectors affected	No. of Deaths
3	Inundated of low-lying and coastal areas, swamps, and barrow pits overflow affected by the king tide of this month, February. High tide was peak on 02/02/2026, approximately 3.191 meters (Tide Gauge Observation)	<ul style="list-style-type: none"> <li>Sea level</li> <li>Soil Erosion</li> </ul>	<ul style="list-style-type: none"> <li>Inundated of coastal areas</li> <li>Inundated low-lying areas which affected some equipment's in the Tuvalu Meteorological Service and transportation service.</li> </ul>	  	<p><b>King Tide</b> 8.5211-degree S.179.1962-degree E</p>	<ul style="list-style-type: none"> <li>Tuvalu Meteorological Service</li> <li>Public Sertor</li> </ul>	NIL

# Summary

## Impact summary to key climate-sensitive sectors

***Neutral and La Nina phase caused different impacts to countries around the pacific.***

1. Impacts affected multiple climate sensitive sectors included;

- I. Heavy rainfall
- II. Severe weather events
- III. Heatwaves
- IV. Coral Bleaching
- V. Tornadoes
- VI. Tropical Cyclone Urmil
- VII. Rough seas/Squall System
- VIII. Strong wind gusts
- IX. Sea level rise
- X. Coastal erosion

a) **NIUE:**

- Niue experienced several active troughs that brought periods of heavy rainfall to the island. November recorded a total rainfall of 702.7 mm, making it the highest monthly rainfall recorded in over 120 years of rainfall data.

a) **SAMOA:**

- A series of rainfall driven events associated with SPCZ, and transitioning ENSO condition have resulted in repeated a moderate impacts across Samoa climate sensitive sectors
- The events caused localized flooding, road damage, transport disruption in low-lying coastal areas, affecting water supply through contamination and turbidity.
- Agricultural and Infrastructure sectors experienced on crop losses and cumulative damage from erosion.
- Fisheries Sector were impacted due to the condition of the sea state, communities experienced public disruption and heightened health risk

a) **TONGA:**

- Heat stress and dry spell were threatening sectors like Health and Water Agriculture Sectors
- Fisheries, tourism and environment sectors were impacted by elevated sea surface temperatures
- Flooding around the country may causing drainage overflow, road disruption affected infrastructures and transportation sectors.

a) **TUVALU:**

- Low pressure system brought heavy rainfall, and strong winds damaging many homes
- Rising of the sea level threaten SIDS like Tuvalu

# THANK YOU

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