

PTWS Post-Event Brief II

3rd February, 2022

Update of the Hunga-Ha'apai, Tonga Eruption Event and Tsunami

15 January, 2022

WG-PICT Update

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Summary of PICT Alert Products

	Tonga	American Samoa	Fiji	Vanuatu	Samoa	Solomon Islands	FSM	Tuvalu
Tsunami Warning Message 1 Issue Time (UTC)	04:31							
Tsunami Advisory Message 1 Issue Time (UTC)		05:50	06:35	7:35	08:45	09:25		
Tsunami Information Statement (UTC)							0800 16/1/22	11:27 16/1/22
PTWC Message 7 (UTC)							20:06 16/01/22	
Cancellation		22:12 17/01	21:00 15/01	16:12 16/01/22	18:30 16/01	21:00 16/01		

Highlights

- Timely receipt of PTWC products
- Detection and Alerts via Social Media (Unofficial Warning)
- Warning SOP limited to earthquake triggered tsunamis
- Over reliance on PTWC products for issuance of local warning
- Lack of seismic networks close to the source of tsunami
- Limited source detection
- Limited coordination between warning centers in Southwest Pacific

Areas that needs Improvement

- Capacity Development on Atypical Tsunami
- Warning SOP development for Atypical tsunami
- Strengthen coordination among PIC warning centers
- Leverage social media for monitoring and detection
- Expedite visibility of seismic networks in Fiji, Tonga and Samoa through ORSNET
- Densify Sea Level Monitoring Stations around PIC tsunamigenic sources
- Backup Communication for NTWC i.e. HF Radio, SAT Phones etc..
- LIDAR – Baseline data to improve localized forecast, preparedness and warning