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Review of Tonga Tsunami Warning and Response SOP

12-15 March 2024

**NDRMO Conference Room,
Nuku'alofa, Tonga**

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(UNESCO/IOC TRS)*

2.0 Objectives

Follow up and address 2019 SOP review and National Tsunami Drills 2022, 2023 recommendations.

Review definition of local and regional tsunami zones

Review decision-support tools and alert levels

Update Regional Tsunami Warning and Response SOP with consideration to the ICG/PTWS Local Source Tsunami Response Best Practice Guideline (draft 2019) and HTHH Interim Procedures and PTWS Products and Tsunami Generated by Volcano SOP

Update Local Tsunami Warning and Response SOP

Conduct Mock Exercises for the draft regional and local source and TGV SOP

Review and Update National Tsunami Response Plan

2.1 Expected Outputs



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- **To review each agency Tsunami warning and response SOP.**
- **To align actions of each agency against each Alert level to remove confusion.**
- **To identify capacity needs for each agency to support their actions stated in the SOP**
- **To identify interventions to address capacity needs of each agency SOP.**
- **To identify gaps within the 2012 National Tsunami Response SOP**
- **To incorporate the updated SOPs into the National Tsunami Response Plan**
- **To identify interventions to address Gaps in the 2012 national Tsunami Response Plan P.**
- **To map out UNESCO/IOC Tsunami Ready Recognition Implementation Programme**

2.1 Intended Outcomes

Updated TMS & TGS TSUNAMI WARNING SOP

Updated NEOC SOP on Tsunami Hazard & Tsunami Response Plan.

Updated TGS SOP on responding to Earthquake, Volcano and Tsunami .

Improved Understanding of Updated Tsunami Warning SOP and Bulletins

Capacity Assessment of TMS, TGS, NDRMO & Identification of Intervention Programmes (Next Steps)

Updated National Tsunami Response Plan



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TSUNAMIS & GLOBAL TSUNAMI WARNING SYSTEM

IOC ICG/PTWS STRUCTURE - WORKING GROUPS AND TASK TEAMS 2021-2023



2.1 ICG/PTWS-XXX – PICTs outcomes



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- **WG-TOR**
- **3 Task Team under WG-PICT TOR**
 - 1) **Task Team Capacity Development – Chair Ofa Fa’anunu**
 - 2) **Task Team Seismic Data Sharing in the Southwest Pacific – Rennie & Mathew**
 - 3) **Task Team Information Sharing Platform – Chair – Anthony and Jonathan**

2.1 ICG/PTWS-XXX – PICTs outcomes



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- **Exercise Pacific Wave 2024 – Sept –Nov 2024**
- **Task Team on Tsunami Generated by Volcanoes SOPs**
- **PTWS NTWC Competency Framework and Development of Global Framework -2024-2025 – WG-PICT Task Team Capacity Development**
- **World Tsunami Awareness Day 2024**
- **Ocean Decade Tsunami Programme 2021-2023**
- **Tsunami Warning in a Multi-hazard Framework**

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- **PART VII – EVACUATION POWERS**

76. Power to order evacuation

77. Emergency evacuation power of Director NDRMO

78. Emergency evacuation power for Tonga Meteorological Services and other lead agencies for respective hazard type

79. Evacuation powers of the National Disaster Operations Sub-Committee

80. Exemption from evacuation

81. Funds for evacuation

82. Cancellation of Evacuation Order

83. Duty to Comply

84. Penalty for non-compliance

85. Evacuation of foreigners

86. Ministry to ensure safe evacuation centers

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• PART VIII – MULTI HAZARD EARLY WARNING SYSTEM

87. Establishment of the multi-hazard early warning system

88. Dissemination of early warning information

Regulations **or** standard operating procedures **made under this Act shall outline procedures for the dissemination and management of early warning information under this Act** and the functions and linkages of key personnel and governing bodies in relation to the multi-hazard early warning system.

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• PART X – STANDARD OPERATING PROCEDURES

90. Standard operating procedures

(1) Within 24 months of the commencement of this Act, the Ministry shall develop standard operating procedures for each event, as defined in section 2(a) to 2(f) of this Act.

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(2) A standard operating procedure for each event shall, among other things, cover the following –

(a) roles and responsibilities of governing bodies under this Act;

(b) roles and responsibilities of key stakeholders;

(c) linkages and co-ordination between governing bodies, with particular attention to co-ordination between national and local bodies; and

(d) any other matter which the Minister considers appropriate.

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91. Adoption of a standard operating procedure

(1) The Minister, with the consent of Cabinet, shall approve a standard operating procedure under this section and any future revisions.

(2) The Director shall ensure that a copy of a standard operating procedure adopted under this section is published on the website of the Ministry.