# DOCUMENTO ORIGINAL EN MAL ESTADO

### 1.. Policy and Organization

The Cabinet has overall responsibility for disaster management and usually calls special Cabinet meetings to consider necessary relief, rehabilitation and reconstruction programmes after national disasters. The Minister responsible for National Office for Disaster Relief and Rehabilitation, is Hon. Dr. S. Langi Kavaliku, who is also the Deputy Prime ribister and Minister of Works. Education and Civil Aviation.

The two important bodies of the Mational Disaster Advisory Committee (NDAC) and the Mational Office for Disaster Relief and Rehabilitation (NODER) are responsible for the Minister responsible for Disaster Relief and Rehabilitation (Minister i/c DER).

The National Disaster Advisory Committee (NDAC) advise the Minister in-charge on policy jesues, programmes and finance, and which are eventually submitted to Cabinet for a decision. The NDAC consists of Heads of Government Departments and NGOs with the key members being the Chief Secretary & Secretary to Cabinet, Director of Works, Director of Civil Aviation. Secretary for Foreign Affairs. Director of Health. Director of Agriculture, Police Commander, Commander of Tonga Defence dervices, Harbour Master and representatives of Tonga Red Cross Society, world Vision, and Tonga Council of Churches. The Secretary of the RDAC is a Deputy Secretary of the Prime Minister's Office. All funds for disaster relief and rehabilitation are controlled by the Prime Hinister's Office. Activities of the RDAC are controlled also from the Prime Minister's Office, under the authority of the Deputy Prime Minister and Minister responsible for Disaster Relief Rehabilitation.

The Marional Office for Disaster Kelief and Rehabilitation is managed by a Senior Works Supervisor who is responsible to the Director of Works. This Office maintains supplies and provisions (tents, clothing ore) for disaster relief purposes.

Each of the key Government Departments and NGOs that work on Disasters have standing procedures on measures to be implemented before, during and after disasters. A National Disaster Clan has been drawn up and it needs further modifications prior to its formal adoption.

The NDAC ideally meets on a regular basis, however in practice, meetings are mostly convened in the event of a national disaster. All the NDAC members report to the Committee, and as well information are usually sought from relevant non member representatives, such as the General Sanager Tonga Telecommunications Commission, Tonga Electric Power Board and Tonga Water Board. Each member of NDAC are supported by staff and resources of their own department in implementing their responsibilities on disaster relief, rehabilitation and reconstruction.

### 2. Prevuiling Hozards

The types of hazards to which Yongs is vulnerable are tropical cyclones (including storm sarge and sait spray), earthquakes, vulcanism, temposis, and droughts. Fires are a problem, but not at national problem level. Of the above, tropical cyclones are the most frequent, cause the most damage, and affect the most polutation.

The following is a summary of prevailing hazards:

Туре	Location	Affected Population	
Tropical Cyclone	firoughout Tonga	411	
Carthquake	Throughout Tonga	VII	
Vertcanism	da'apai, Vaya'u, Niuas	Aprox 30.	
Oroly,ht	All(particularly small follonds)	All	
Апиана	Codatal Barrier	<b>Λρμιαх</b> 60-90Σ	

### 3. Recent Natural Disasters

dramples of recent disasters include:

Турв	Location	Affected Population	Losses
D <sup>em</sup> Kina <sup>n</sup> 1993	da'apni/ Tongatapu	70%	Approx 92300,000
10"tosac",1902	All of the group	All	Approx GPSM
chi thquake, 1977	All	A11	digirami
Vhleanic Uruption	Minafoon, late 30s	5.X	илкпомп
orought, Late 1980s	<sup>¶a¹</sup> apsi	10%	unknown

### 4. National Socio-Economic Conditions

Tongo comprises 170 islands, of which 36 are inhabited. The total land area is 747 sq km. The population of Tongo is estimated at 99,420 (1994). The Gross Domestic Product (GDP) is A\$1254, and per capital Income is A\$1297 (1990).

# 5. Availability of Assistance to Other Countries in the Field of Natural Disaster Reduction

Tonga bas, in the past, provided both financial and resource assistance to other Pacific Island countries during times of disaster (e.g. Fiji, 1993, Western Samoa, 1990, 1992), as well as providing facilities for aid collection and distribution to neighbouring counties. For example, During 1992 Cyclone "Val" in Western Samoa close the port and nerodrome facilities, and Tonga was used as a collection distribution and administrative centre for New Zealand relief to Western Samoa. Tonga had joined other countries in sharing the grief following the New South Wales Bush Fires 1993 and the Los Angeles Earthquake, 1993, by donating T\$20,000 each to assist with reconstruction works.

### 6. International Assistance Required for Natural Disaster Reduction

Expertise: Foreign assistance to help prepare and implement a comprehensive national disaster plan is urgently required. Follow up assistance is required to advise on areas of the disaster plan, particularly development planning, hazard assessment, public education and awareness, and training disaster response personnel.

Technology: Computers and equipment, particularly associated with meteorological and geological monitoring and warning, are required, as are improved international and domestic communications links.

Resources: Emergency supplies such as tarpaulins, stoves, first aid, etc are always required. Other equipment such as chainsows portable satellite communication equipment, reverse osmosis water distilling devices, etc are also needed.

### SECTION B: STRATEGIES AND ACTIVITIES

#### 1. Steps Toward Achieving the 3 Main Decade Targets

### (a) Comprehensive national assessments of risks from natural hazards, with these assessments taken into account in development plans;

The main threat to Tonga is from tropical cylcones, and risk assessment of such hazards is reasonably well known, although far from comprehensive. Tropical cylcones affecting Tonga generally come from the north or west of the group. Tropical cylcones are more frequent in the area around Tonga during EL Mino years. Similarly, droughts are generally confined to the smaller islands of the group, and are most common during El Mino years. Risk from other hazards such as earthquakes, taunamis and volcances

are poorly known. At present there is only an informal arrangement for including risk of tropical cyclones in national development plans.

## (b) Mitigation plans at national and/or local levels, involving long term prevention and preparedness and community awareness:

Government is to shortly enact legislation giving the Tonga Electricity Board greater powers in clearing trees on private property from around power poles and structures, to minimise damage and disruption to power supply during tropical cyclones. With assistance from the government of New Zealand there is movement toward a common building code to encompass both earthquakes and tropical cyclones.

The local MCOs have conducted 2 workshops for all MCOs in Tonga on disaster preparedness with assistance from ATDAB and Australian MCOs. The first was in September 1987, and the second in October 1990. There are plans to follow these with workshops aimed at a community level, particularly women. The reports of both workshops have been published and are available to the public in both Conflish and Tongan.

The Tongo Electricity Board undertakes a public education campaign just before and during the tropical cyclone season to advise the public what is required prior to and during a tropical cyclone. This includes clearing trees from wires, switching off power during a cyclone, not touching fallen wires after a cyclone, etc. The public are advised by way of announcements over the local radio and television, and newspaper advertisements.

A foreshore protection project is presently being discussed with the government of France, however no firm details on the scope or nature of this proposal have been reached as yet.

# (c) Ready access to global regional, national and local varning systems and broad dissemination of warnings

Warnings for tropical cyclones affecting Tonga are received from the South Pacific Regional Tropical Cyclone Marning Centre (TCWC) in Nadi, Fiji. The Tonga Meteorological Service translate all warnings and advisory messages into fongan, add supplementary information if necessary and disseminate these messages to the media for immediate broadcast. Warnings are also provided, in English, via the short wave service of Radio New Zealand. When windspeed reaches 60 knots at Juku alofa, the satellite antenna for international telecommunication is lowered for protection puposes and communication with the TCWC is thus discontinued. Alternative Messages are being discussed to maintain communication when windspeed is over 60 knots.

### TROPICAL CYCLONE COMMITTEE FOR THE SOUTH PACTITE

Tonga has become a member of the Tropical Cyclone Committee for the South Pacific since it was established in 1980. This committee is a working group of the World Meteorological Organization for

#### 2. Propent National Plan for Natural Digaster Reduction

At present there is no national plan for natural disauter reduction in place in the Kingdom of Tonga.

### ). Legislation Introduced and Enacted in Relation to Natural Disaster Reduction

Legislation relating to Tonga Electricity Board authority to clear trees from power lines, and a comprehensive building code are presently being prepared, but have not as yet been chacted. The marine are of 1007 is now in force, and regulations for safety at sea, specifically requirements for safety equipment for commorcial and pleasure boating, are presently being drafted with the assistance of the formal Secretariat.

### 4. Disaster Mitigation Activities Completed or Undervay

" monitoring, prediction and warning:

Title of Project: Climate Monitoring Equipment

Upgrade (Forum Countries)

Status: Under viry

Participating Institutions: Australian Eureau of McLeorology,

Tunga Meteorological Service.

Cost of project: AUDI.3M (throughout the

Pacific)

Sources of Funding: Australian International

Development Assistance Bureau

(AIDAB)

Implementing Agencies: Australian Eureau of Motoorology

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### Plans to Fully Achieve Decade Targets by the End of 1999

Tongo has not been active in IDMDR until very recently, and or the moment there are no plans in place simed at meeting specified targets for the decade. Fowever, it is hoped that a plan incorporating current and new plans can be enacted to improve the prospects for meeting IDMDR targets.

### SECTION C: INTERACTIONS

### 1. Publication on IDNDR Related Subjects

Reports of two workshops conducted by Tonga Association of Non-Government Organisations (TANGO) have been published. The workshops were titled "Disaster Preparedness Workshop for son Government Organisations". These can be obtained from the Tonga Red Cross or the Tonga Council of Churches in both English and Tongan.

## Current or Planned Partnerships and Cooperation Related to IDNDR with Other Countries

The government of Tonga is working closely with the United Nations Department of Humanitarian Affairs (UNDHA) South Pacific Programme Office (SPPO) in Suva to implement a project titled Tonga Disaster Reduction Programme (TDRF). Tonga is also included in the UNDHA-SPPO South Pacific Disaster Peduction

Activity related to disaster mirigation have taken place to date without access to IDNOR framework or a national disaster plan. The absence of such juidance has meant that the limited mitigation project, while themselves successful, have not benefited from the local, national and international linkages that would occur if an overall national framework or action plan were in place. Muture activity the

### A. Review of the IDNDR

All activity undertaken so for in relation to diseaser reduction have occurred outside the framework of LDNDR on an "as needed" basis. Tonga has now fully embraced the concept of disaster reduction by seeking membership to LDNDR. The next priority for longa to establish a comprehensive national disaster plan as a framework for future activity.