Effective Multi-hazard Early Warning System Across Multiple and Widely Dispersed Islands







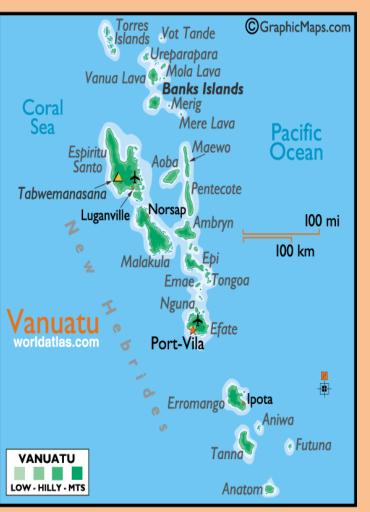
Peter Korisa Brian Phillips



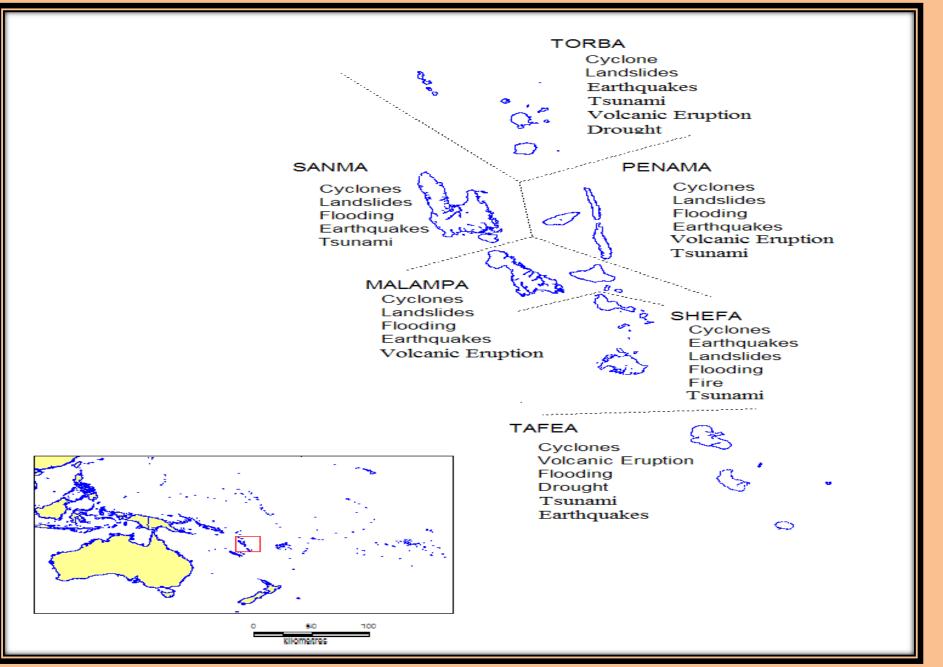
Country Context

- Vanuatu comprises around 83 islands
- ✤ A total land area of 12,300 square kilometres spread over some 1,300 kilometres in a north to south direction.
- ✤ 2009 National Census record total population of 234,023
- ✤ 76% of total population live in rural villages of Vanuatu

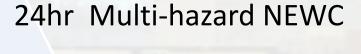
Province	Main Islands	Land	Demographi
		Area	c Info (2009
		(Km ²)	National
			Census)
Malampa	Ambrym,Malekula,Paama	2,779	36,724
Penama	Pentecost, Ambae, Maewo	1,198	30,819
Sanma	Santo,Malo	4,248	45,850
Shefa	Efate, Shepherd Islands	1,455	78,721
Tafea	Tanna,Aniwa,Futuna,Erroma	1,628	32,540
	ngo,Anatom		
Torba	Banks & Torres Islands	882	9359
TOTAL		12,190	234,013



Distribution of Natural Hazards Per Province



Institutional Arrangement



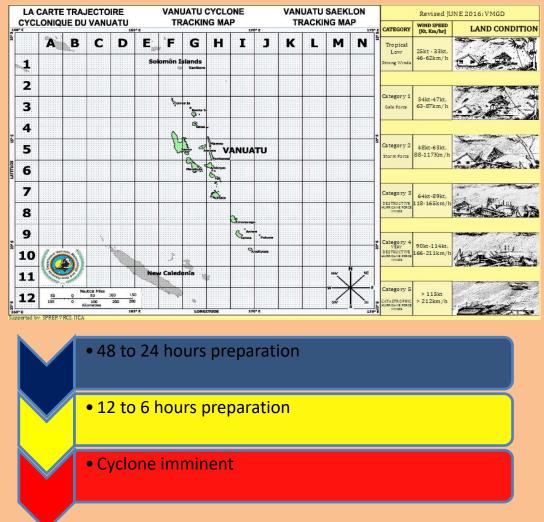
NEOC & Telecom/Media

Provincial Operation Centres

Community Disaster and Climate Change Committees

Cyclone Early Warning System

- 24 hours forecasting NEWC
- Warning & Information
 Dissemination
 mediums (SMS, Radio
 FM/Shortwave, FB,
 Webpage, TV, Tele radio
 system, call center)
- Tools Tracking map
- Colour Alert system



www.vmgd.gov.vu / www.ndmo.gov.vu

Volcano Early Warning System

- 24 hours observation -NEWC
- Volcano monitoring CCTV live streaming
- Warning & Information
 Dissemination
 mediums (SMS, Radio
 FM/Shortwave, FB,
 Webpage, TV, Tele radio
 system, call center)
- Volcano alert system
- Volcano hazard maps

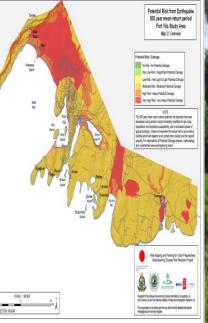


Earthquake/Tsunami Early Warning System

- 24 hours observation NEWC
- Seismic monitoring network live feed
- Tsunami siren system/evacuation signage/information boards/community evacuation plans
- Warning & Information Dissemination mediums – (SMS, Radio FM/Shortwave, FB, Webpage, TV, Tele radio system, call center)









Challenges

- Budget constraint to expand systems country wide (80 islands)
- Multi-hazard risk mapping not country wide
- Physical planning (zoning and land use)
- Back-up early warning systems