EARLY WARNING SYSTEM SURVEY DOMINICA COUNTRY: Please complete one form for each Hazard I INFORMATION ON THE HAZARD 1. The Hazard **VOLCANO** 2. Summary of events triggered by the hazard PYROCLASTIC FLOW, ASH FALL, SULPHUR RAIN, MUD FLOW, FIRES 3. Historical events of significance. 4. Description of the region and the population under hazard and of the existing vulnerabilities b. Degree of exposure of population to hazards (High/Medium/Low) MEDIUM a. Number of communities affected by the hazards (Approximate #) c. Number of persons exposed (#) c. Percentage of people exposed to hazard, etc).(%) 5. Is there adequate public awareness about the hazard? (Y/N) NO 6. Attitude towards freedom of hazard information: (Very good/Good/Poor/None) POOR TECHNICAL ASPECTS OF THE EARLY WARNING SYSTEM 1. Type of system employed to monitor the hazard: SEISMIC SENSORS, GEOLOGICAL ANALYSIS 2. Year in which system became operational. 1998 - 2003 (GRADUAL DEVELOPMENT) 3. Time employed for the design and implementation of the system. 5 YRS 4. Geographic coverage of EWS. ACTIVE VOLCANOS AND HIGH RISK VENTS ON THE ISLAND 5. Arrangements made for remote areas? (Y/N) YES 6. Routine operation of the EWS: a. Members of the community; (Position) b. Personnel from: 1) National; (Position) DPO, MEDIA 2) Regional; (Position) UWI Local government agency; (Position) CENTRALIZED AT NATIONAL LEVEL 4) Research center; (Name) UWI 5) Consulting firm; **(Y/N**) 6) NGO; **(Name**) 7) Other (Name) 8) Mixed; (Y/N) YES 7. Type of instrumentation used a. to monitor the hazard; SEISMIC SENSORS, GEOLOGICAL ANALYSERS, COMPUTERS-INTERNET, RADIO / SATELLITE TRANSCEIVERS b. to process information gathered; **COMPUTERS** c. to transfer it. BROADCAST RADIO AND TV, SIRENS, BULL HORNS, HF/VHF/UHF RADIO, **TELEPHONES, CELL PHONES, CABLE TV** 8. Mechanisms used to forecast the events: Page 1 of 4 a. Procedures? (Y/N) b. Are procedures documented in a national plan? (Y/N) YES c. Are procedures backed by legal authority? (Y/N) YES

	d. Who carries out this task?
•	1) Members of the community? (Y/N) NO
	2) Personnel from technical institutions? (Y/N) YES - UWI
	3) Other (Name)
	4) Automatic? (Y/N) YES
	5) Mixed? (Y/N) YES
	6) Other (Name)
	ning adequately published in public broadcast media? (Y/N) NO
10. Are fo	recast and media agencies fully integrated? (Y/N) YES
11. Is the	e redundancy and backup for the EW system? (Y/N) YES
	ine equipment (eg standby power) adequate? (Y/N) YES
13. Is the	e adequate provision for maintenance of the EWS? (Y/N) YES
14. Techn	ical support used for the Design, Implementation, Development of the EWS:
	a. International (Name) UWI
	b. National (Name) DPO, UWI
	c. Technical (Name) UWI
	d. Scientific (Name) <mark>UWI</mark>
	e. Academic (Name) UWI
	f. Consulting firm (Name)
	g. Civil defense agency (Name) NONE
	h. NGO (Name) RED CROSS
	i. Other (Name) NEWS MEDIA (CABLE OPERATORS, TV, RADIO)
III INS	TITUTIONAL AND FINANCIAL ASPECTS OF THE EWS.
	e a legal framework for the EWS? (Y/N) YES
∠. ınstitut	ion(s) in charge of design and implementation (Name) DPO
0 loot!4: 1	ian (a) which mouticingte vertically in war thanks the barrand (Normal) 200 1040
ง. institut	ion (s) which participate routinely in monitoring the hazard (Name) DPO, UWI
4 - 4	adagueta nuklia gueranaga af the EMOS (V/N) NO
	adequate public awareness of the EWS? (Y/N) NO
5. Is there	parity between forecasting and warning? (Y/N) NO
5. Is there	parity between forecasting and warning? (Y/N) NO provision for nightime warning and response? (Y/N) YES
5. Is there	parity between forecasting and warning? (Y/N) NO
5. Is there	parity between forecasting and warning? (Y/N) NO provision for nightime warning and response? (Y/N) YES resources required for the implementation, routine operation, and maintenance of the EWS:
5. Is there	parity between forecasting and warning? (Y/N) NO provision for nightime warning and response? (Y/N) YES resources required for the implementation, routine operation, and maintenance of the EWS: a. Technical personnel VOLCANOLOGISTS, GEOLOGISTS,
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5. Is there	e parity between forecasting and warning? (Y/N) NO e provision for nightime warning and response? (Y/N) YES f resources required for the implementation, routine operation, and maintenance of the EWS: a. Technical personnel VOLCANOLOGISTS, GEOLOGISTS, COMPUTER OPERATORS AND TECHNICIANS, RADIO ENGINEERS AND OPERATORS, MEDIA PERSONNEL
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5. Is there 6. Is there 7. Type of 8. Origin 9. Inter ag	parity between forecasting and warning? (Y/N) NO provision for nightime warning and response? (Y/N) YES resources required for the implementation, routine operation, and maintenance of the EWS: a. Technical personnel VOLCANOLOGISTS, GEOLOGISTS, COMPUTER OPERATORS AND TECHNICIANS, RADIO ENGINEERS AND OPERATORS, MEDIA PERSONNEL b. Equipment: COMPUTERS, RADIOS, CELL PHONES, SATELLITE PHONES, SIRENS, BULL HORNS, FIXED FREQUENCY RECEIVERS, MONITORING EQUIPMENT, GIS SYSTEMS, SMS READY CELL SYSTEMS, INTERNET ACCESS, TOTAL MEDIA (RADIO & TV) COVERAGE, c. Logistical support (transportation for example) d. Monetary resources ADEQUATE GOVERNMENT REVENUES, e. Other (Name) of resources required to implement, operate, and provide maintenance to the EWS: a. Community (Y/N) NO b. National (Name) GOVERNMENT MINISTRY c. Regional (Name) GDERA, CDB d. Local institutions (Name) GOVERNMENT MINISTRY e. International agencies (Name) UNDP, WORLD BANK, OCHA, ECHO, DFID, USAID, CIDA f. Donors (Name) g. NGOS (Name) RED CROSS

IV MECHANISMS TO ISSUE A WARNING AND AN ALERT
Who is warned or alerted by those who monitor the hazard?
a. Community (Y/N) YES
b. Local (Name) FIRST RESPONDERS AND THREATENED COMMUNITIES
c. Regional (Name) CDERA
d. National Government (Name) PRIME MINISTER, MINISTRIES, RESPONSE AGENCIES
2. Which means are employed to warn the people and the various agencies or institutions?
TELEPHONE, CELL PHONE FAX, EMAIL, PUBLIC MEDIA, CABLE TV, BULL HORNS ETC
3. Who is in charge of declaring the state of alert:
a. The Community (Y/N) NO
b. Technical personnel who monitor the hazard (Y/N) NO
c. Local (Name)
d. Regional (Name)
e. National level government (Name) PRIME MINISTER
f. National civil protection agency (Y/N) NO
4. Type of public alert employed:
Bells / Public Radio / TV / Flags / Whistles / Megaphones / Email /
Fax / Cell Phone / Community Members Cascade / Multiple options
5. Who is in charge of operating the alert mechanisms/equipment and orders the activation of alerts?
NATIONAL DISASTER COORDINATOR
6. Official policies, norms, and procedures in place to issue warnings and alerts (if any)
YES - NATIONAL DISASTER PLAN
7. Local government participation: CENTRALIZED AT NATIONAL LEVEL
8. Is the content of the alert message adequate? (Y/N) YES 9. Is there verification that the information is correct and acted on? (Y/N) AS FAR AS POSSIBLE
a. Type of municipal organization (Name Type)
b. Resources provided. AS SPECIFIED ABOVE
b. Resources provided. As SPECIFIED ABOVE
10. Community participation:
a. Type of organization (Name Type) COMMUNITY ASSOCIATIONS, NGO'S, CHURCHES, ETC
b. Participants (Name Organizations) RED CROSS, ETC c. Relation with the local government. (Very good/Good/Poor/None) GOOD
11. Special arrangements for social groups with limited resources and special needs? (Y/N) YES
V ANALYSIS OF EWS
1. Comments regarding successful and unsuccessful results during the operation of the EWS.
POPULATION NOT AT ALL INTEGRATED WITH EWSINFORMATION IS TIGHTLY HELD BY
GOVERNMENT AND MOST OF POPULATION IS NOT AWARE OF EXACT STATUS OF VOLCANIC
THREAT
2. Strengths and weaknesses of the EWS.
STRENGTHS: GOOD SCIENTIFIC MONITORING BY UWI SEISMIC DEPARTMENT
WEAKNESSES: IS UNLIKELY TO PRODUCE BEST RESULTS AS POPULATION IS EXCLUDE
3. Lessons learned, benefits of the EWS.
NONE AS YET AS NO CATASTROPHIC ERUPTION FOR MORE THAN 100 YEARS
NONE AS YET AS NO CATASTROPHIC ERUPTION FOR MORE THAN 100 YEARS
NONE AS YET AS NO CATASTROPHIC ERUPTION FOR MORE THAN 100 YEARS
NONE AS YET AS NO CATASTROPHIC ERUPTION FOR MORE THAN 100 YEARS
NONE AS YET AS NO CATASTROPHIC ERUPTION FOR MORE THAN 100 YEARS 4. Added value gathered from the EWS (benefits not initally contelived during the planning stages, which emerged during standard operation of the system).

IMPROVED INTEGRATION OF GOVERNMENT AGENCIES AND SERVICES

ANNEX: MAP OF THE REGION WHERE EWS IS OPERATED.