EARLY WARNING SYSTEM SURVEY

COUNTRY:

MONTSERRAT

Please complete one form for each Hazard

I INFORMATION ON THE HAZARD

1. The Hazard HURRICANE

2. Summary of events triggered by the hazard

WIND DAMAGE, STORM SURGES, FLOODING OF VALLEYS

3. Historical events of significance.

HURRICANE HUGO-1989

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) HIGH

a. Number of communities affected by the hazards (Approximate #) 10

c. Number of persons exposed (#) 4,000

c. Percentage of people exposed to hazard, etc).(%) 90%

Is there adequate public awareness about the hazard? (Y/N) YES
 Attitude towards freedom of hazard information: (Very good/Good/Poor/None) GOOD

II TECHNICAL ASPECTS OF THE EARLY WARNING SYSTEM

1. Type of system employed to monitor the hazard:

SATELLITE (INTERNET) MONITORING,

HUMAN REPORTING, CABLE CHANNELS, MIXTURE

2. Year in which system became operational. 1989 - 2003 (GRADUAL DEVELOPMENT)

3. Time employed for the design and implementation of the system. 14 YRS

4. Geographic coverage of EWS. ENTIRE 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) EMERGENGY DEPARTMENT, MEDIA

2) Regional; (Position)

3) Local government agency; (Position) CENTRALIZED AT NATIONAL LEVEL

4) Research center; (Name) NONE

5) Consulting firm; (Y/N) NO

6) NGO; **(Name**)

7) Other (Name)

8) Mixed; (Y/N) YES

7. Type of instrumentation used

a. to monitor the hazard; SATELLITE TVRO, TELEPHONE CALLS TO ANTIGUA MET OFFICE COMPUTERS-INTERNET, 2 WAY RADIOS,

b. to process information gathered;

c. to transfer it. BROADCAST RADIO AND TV, BULL HORNS, HF/VHF/UHF RADIO,

TELEPHONES, CELL PHONES

8. Mechanisms used to forecast the events: a. Procedures? (Y/N) YES

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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 - ANTIGUA MET OFFICE
	3) Other (Name)
	4) Automatic? (Y/N) NO
	5) Mixed? (Y/N) YES
	6) Other (Name)
9. Is war	ning adequately published in public broadcast media? (Y/N) YES
	recast and media agencies fully integrated? (Y/N) YES
	e redundancy and backup for the EW system? (Y/N) NO
	ine equipment (eg standby power) adequate? (Y/N) NO
	e adequate provision for maintenance of the EWS? (Y/N) NO
	ical support used for the Design, Implementation, Development of the EWS:
	a. International (Name) CDERA
	b. National (Name) EMERGENCY DEPARTMENT, REGIONAL CONSULTANTS
	c. Technical (Name) HAM OPERATORS
	d. Scientific (Name) REGIONAL CONSULTANTS
	e. Academic (Name) UWI
	f. Consulting firm (Name)
	g. Civil defense agency (Name) EMERGENCY DEPARTMENT, POLICE
	h. NGO (Name) RED CROSS
	i. Other (Name) NEWS MEDIA (CABLE OPERATORS, TV, RADIO)
III INS	
	TITUTIONAL AND FINANCIAL ASPECTS OF THE EWS.
	a legal framework for the EWS? (Y/N) YES
2. Institut	ion(s) in charge of design and implementation (Name) EMERGENCY DEPARTMENT
3. Institut	ion (s) which participate routinely in monitoring the hazard (Name) EMERGENCY DEPARTMENT
	adequate public awareness of the EWS? (Y/N) YES
5. Is there	parity between forecasting and warning? (Y/N) YES
5. Is there 6. Is there	parity between forecasting and warning? (Y/N) YES provision for nightime warning and response? (Y/N) YES
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IV MECHANISMS TO ISSUE A WARNING AND AN ALERT		
1. Who is warned or alerted by those who monitor the hazard?		
	. Community (Y/N) YES	
	. Local (Name) FIRST RESPONDERS AND COMMUNITIES	
	. Regional (Name) CDERA	
	. National Government (Name) GOVERNOR, CHIEF MINISTER, MINISTRIES, RESPONSE AGENCIES	
2. Which m	eans are employed to warn the people and the various agencies or institutions?	
Т	ELEPHONE, FAX, EMAIL, PUBLIC MEDIA,	
	n charge of declaring the state of alert:	
	. The Community (Y/N) NO	
	. Technical personnel who monitor the hazard (Y/N) NO	
	. Local (Name)	
	. Regional (Name)	
	National level government (Name) DIRECTOR OF EMERGENCY DEPARTMENT	
	National civil protection agency (Y/N) NO	
	oublic alert employed:	
	Siren / Bells / Public Radio / TV / Flags / Whistles / Megaphones / Email / Fixed Frequency	
	Radio / Fax / Cell Phone / Community Members Cascade / Multiple options	
	n charge of operating the alert mechanisms/equipment and orders the activation of alerts?	
D	DIRECTOR OF EMERGENCY DEPARTMENT	
6. Official p	policies, norms, and procedures in place to issue warnings and alerts (if any)	
Y	ES - NATIONAL DISASTER PLAN	
7. Local go	vernment participation: CENTRALIZED	
8. Is the co	ntent of the alert message adequate? (Y/N) YES	
9. Is there v	verification that the information is correct and acted on? (Y/N) YES	
	. Type of municipal organization (Name Type)	
b	. Resources provided. AS SPECIFIED ABOVE	
10. Commu	inity participation:	
а	. Type of organization (Name Type) COMMUNITY ASSOCIATIONS, NGO'S, CHURCHES, ETC	
	. Participants (Name Organizations) RED CROSS, ST JOHNS AMBULANCE, ETC	
С	. 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. Commen	ts regarding successful and unsuccessful results during the operation of the EWS.	
	ADEQUATE PUBLIC AWARENESS HAS LED TO MINIMAL LOSS OF LIFE AND PROPERTY	
	DAMAGE.	
2. Strengths and weaknesses of the EWS.		
	STRENGTHS: CENTRALIZED SYSTEM ALLOWS QUICK, EASY AND CONTROLLED WARNING	
	DISSEMINATION, VARIETY OF WARNING METHODS ALLOWS REDUNDANCY	
	,	
	WEAKNESSES: INADEQUATE RESOURCES AND EQUIPMENT MAINTENANCE	
	learned, benefits of the EWS.	
	A SMALL SINGLE ISLAND STATE IS BETTER OFF WITH A CENTRALIZED SYSTEM AS IT MAKES	
	BEST USE OF SCARCE RESOURCES, EARLY WARNING WILL SAVE LIVES AND PROPERTY BUT	
	IT WILL NOT ASSIST THE LONGER TERM RECOVERY EFFORT WITHOUT ADEQUATE	
RESOURCES		
4. Added value gathered from the EWS (benefits not initially conceived during the planning stages, which emerged during standard operation offthe system).		
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	NONE
ANNEX:	MAP OF THE REGION WHERE EWS IS OPERATED.