EARLY WARNING SYSTEM SURVEY

COUNTRY:	С	0	U	N	TF	2'	Y	:
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JAMAICA

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 FLAT AREAS AND MOUNTAIN VALLEYS, FLOODING FROM RIVER OVERFLOWS

3. Historical events of significance.

MOST RECENT HURRICANE GILBERT - 1988

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 #) 300

c. Number of persons exposed (#) 2.25M

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

5. Is there adequate public awareness about the hazard? (Y/N) YES

6. Attitude towards freedom of hazard information: (Very good/Good/Poor/None) VERY GOOD

II TECHNICAL ASPECTS OF THE EARLY WARNING SYSTEM

1. Type of system employed to monitor the hazard:

SATELLITE (INTERNET) MONITORING, WEATHER RADAR, WIND VANES, RAIN GAUGES 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. ISLAND WIDE

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) MET OFFICE, ODPEM, MEDIA HOUSES

2) Regional; (Position)

3) Local government agency; (Position) PARISH DISASTER COORDINATORS

4) Research center; (Name) MET OFFICE, UWI

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; ANEMOMETERS, SATELLITE TVRO, WEATHER RADAR,

COMPUTERS-INTERNET, RAIN GAUGES, 2 WAY RADIOS,

b. to process information gathered; **COMPUTERS, COMPUTER MODELS, CALCULATORS**

c. to transfer it. BROADCAST RADIO AND TV, SIRENS, BULL HORNS, FAX, HF/VHF/UHF RADIO, EMAIL, TELEPHONES, CELL PHONES, SATELLITE PHONES, SMS,

 8. Mechanisms used to forecast the events:

 a. Procedures? (Y/N) YES

 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
	Personnel from technical institutions? (Y/N) YES - MET OFFICE, ODPEM
	3) Other (Name)
	4) Automatic? (Y/N) YES
	5) Mixed? (Y/N) YES
	6) Other (Name)
9. Is wai	ning adequately published in public broadcast media? (Y/N) YES
10. Are fo	recast and media agencies fully integrated? (Y/N) YES
11. Is the	re redundancy and backup for the EW system? (Y/N) YES
12. Is life	ine equipment (eg standby power) adequate? (Y/N) YES
13. Is the	re adequate provision for maintenance of the EWS? (Y/N) YES
	ical support used for the Design, Implementation, Development of the EWS:
	a. International (Name) NHC, NOAA, CMO, CDERA
	b. National (Name) MET OFFICE, ODPEM, LOCAL CONSULTANTS
	c. Technical (Name) HAM OPERATORS
	d. Scientific (Name) UWI
	e. Academic (Name) UWI
	f. Consulting firm (Name) DIVERSE
	g. Civil defense agency (Name) DEFENCE FORCE, FIRE SERVICE, POLICE
	h. NGO (Name) RED CROSS
	i. Other (Name) NEWS MEDIA (CABLE OPERATORS, PRINT, TV, RADIO)
III INS	TITUTIONAL AND FINANCIAL ASPECTS OF THE EWS.
	e a legal framework for the EWS? (Y/N) YES
2. Institut	ion(s) in charge of design and implementation (Name) MET OFFICE, ODPEM
2 1.0.04:4.4	ion (a) which neutrining to reacting the beyond (Neme) MET OFFICE OPPEN
s. institut	ion (s) which participate routinely in monitoring the hazard (Name) MET OFFICE, ODPEM
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	e adequate public awareness of the EWS? (Y/N) YES
5. Is there	e parity between forecasting and warning? (Y/N) YES
5. Is there 6. Is there	e parity between forecasting and warning? (Y/N) YES e 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?
a. Community (Y/N) YES
b. Local (Name) FIRST RESPONDERS AND COMMUNITIES VIA MASS MEDIA
c. Regional (Name) CDERA
d. National Government (Name) PRIME MINISTER, ALL MINISTRIES, RESPONSE AGENCIES
2. Which means are employed to warn the people and the various agencies or institutions?
TELEPHONE, FAX, EMAIL, PUBLIC MEDIA,
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) ODPEM
f. National civil protection agency (Y/N) NO
4. Type of public alert employed:
Siren / Bells / Public Radio / TV / Flags / Whistles / Megaphones / Email / Fixed Frequency
Radio / Fax / Satphone / Cell Phone / Community Members Cascade / Multiple options
5. Who is in charge of operating the alert mechanisms/equipment and orders the activation of alerts?
ODPEM
6. Official policies, norms, and procedures in place to issue warnings and alerts (if any)
YES - NATIONAL DISASTER PLAN
7. Local government participation: YES
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) YES
a. Type of municipal organization (Name Type) LOCAL GOVERNMENT PARISH COUNCIL
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, ADRA, ST JOHNS AMBULANCE, ETC
c. Relation with the local government. (Very good/Good/Poor/None) BETWEN GOOD AND POOR
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.
VERY SUCCESSFUL RESULTS OVER THE YEARS AS PEOPLE BECOME MORE AWARE AND
TAKE PRECAUTIONARY MEASURES. COMMUNITY INVOLVEMENT ASSISTS WITH SERVICEABILITY OF EQUIPMENT. SOME COMMUNITY MEMBERS LEND THEIR OWN
EQUIPMENT TO BE USED.
2. Strengths and weaknesses of the EWS.
STRENGTHS: DECENTRALIZED, COMMUNITY INVOLVEMENT, TECHNICAL, PUBLIC
AWARENESS, VARIETY OF WARNING METHODS ALLOWS REDUNDANCY, MOST COMMUNITIES
HAVE ACCESS TO PUBLIC ELECTRICITY
WEAKNESSES: GOOD EW CAUSES COMPLACENCY, INSUFFICIENT COMPUTERS AT
COMMUNITY LEVEL TO MAXIMIZE EW VIA INTERNET,
3. Lessons learned, benefits of the EWS.
INVOLVE COMMUNITY, DECENTRALIZE EWS BUT ONLY WITH GOOD PUBLIC EDUCATION AND
AWARENESS PROGRAMMES,
4. Added value gathered from the EWS (benefits not initially conceived during the planning stages, which
emerged during standard operation of the system).
COMMUNITY EXPOSURE TO TECHNICAL SYSTEMS
ANNEX: MAP OF THE REGION WHERE EWS IS OPERATED.