EARLY WARNING SYSTEM SURVEY

COUNTRY:

Please complete one form for each Hazard

ST KITTS & NEVIS

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

3. Historical events of significance.

HURRICANES HUGO-1989, GEORGES-1995

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 #) 70

c. Number of persons exposed (#) 36,000

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) GOOD II TECHNICAL ASPECTS OF THE EARLY WARNING SYSTEM

1. Type of system employed to monitor the hazard:

SATELLITE (INTERNET) MONITORING, RAIN GAUGES, WIND VANES,

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. BOTH ISLANDS

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) NEMA, MEDIA, DEFENCE FORCE

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) RED CROSS

7) Other (Name)

8) Mixed; (Y/N) YES

7. Type of instrumentation used

a. to monitor the hazard; SATELLITE TVRO, RAIN GAUGES, WIND VANES,

COMPUTERS-INTERNET, 2 WAY RADIOS,

b. to process information gathered; **COMPUTERS**

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

TELEPHONES, CELL PHONES, CABLE TV'S

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 |
| | Personnel from technical institutions? (Y/N) YES - MET OFFICE |
| | 3) Other (Name) CMO |
| | 4) Automatic? (Y/N) NO |
| | 5) Mixed? (Y/N) YES |
| | 6) Other (Name) |
| 9. Is wa | 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) NO |
| | ine equipment (eg standby power) adequate? (Y/N) NO |
| | re adequate provision for maintenance of the EWS? (Y/N) NO |
| 14. Techr | nical support used for the Design, Implementation, Development of the EWS: |
| | a. International (Name) CDERA, CMO, UWI |
| | b. National (Name) NEMA, REGIONAL CONSULTANTS |
| | c. Technical (Name) HAM OPERATORS |
| | d. Scientific (Name) UWI |
| | e. Academic (Name) UWI |
| | f. Consulting firm (Name) |
| | g. Civil defense agency (Name) NEMA, DEFENCE FORCE |
| | h. NGO (Name) RED CROSS |
| | i. Other (Name) NEWS MEDIA (CABLE OPERATORS, TV, RADIO) |
| | |
| | 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) NEMA |
| | |
| | |
| 3. Institut | ion (s) which participate routinely in monitoring the hazard (Name) MET OFFICE, NEMA |
| | |
| | |
| | |
| | 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? | | |
| | Community (Y/N) YES | |
| | Local (Name) FIRST RESPONDERS AND COMMUNITIES | |
| | Regional (Name) CDERA | |
| | National Government (Name) PRIME MINISTER, MINISTRIES, RESPONSE AGENCIES | |
| 2. Which mea | ans are employed to warn the people and the various agencies or institutions? | |
| | LEPHONE, CELL PHONE FAX, EMAIL, PUBLIC MEDIA, CABLE TV | |
| | 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) NATIONAL DISASTER COORDINATOR | |
| | lational civil protection agency (Y/N) NO | |
| | blic alert employed: | |
| | en / Bells / Public Radio / TV / Flags / Whistles / Megaphones / Email / | |
| | | |
| | x / Cell Phone / Community Members Cascade / Multiple options | |
| | charge of operating the alert mechanisms/equipment and orders the activation of alerts? | |
| | TIONAL DISASTER COORDINATOR | |
| - | licies, norms, and procedures in place to issue warnings and alerts (if any) | |
| YE | S - NATIONAL DISASTER PLAN | |
| | ernment participation: CENTRALIZED | |
| | ent of the alert message adequate? (Y/N) YES | |
| | rification that the information is correct and acted on? (Y/N) YES | |
| | Type of municipal organization (Name Type) | |
| b. H | Resources provided. AS SPECIFIED ABOVE | |
| | | |
| | ity participation: | |
| | Type of organization (Name Type) COMMUNITY ASSOCIATIONS, NGO'S, CHURCHES, ETC | |
| | Participants (Name Organizations) RED CROSS, ST JOHNS AMBULANCE, ETC | |
| | Relation with the local government. (Very good/Good/Poor/None) GOOD | |
| - | rrangements 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. | | |
| | 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, COMMITTMENTS AND EQUIPMENT | |
| | MAINTENANCE | |
| 3. Lessons learned, benefits of the EWS. | | |
| | ALL SINGLE ISLAND STATES ARE BETTER OFF WITH A CENTRALIZED SYSTEM AS IT MAKES | |
| | EST 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 opeନିୟାରେ ଔମ୍ପhe system). | |
| | | |

| | IMPROVED INTEGRATION OF GOVERNMENT AGENCIES AND SERVICES |
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| ANNEX: | MAP OF THE REGION WHERE EWS IS OPERATED. |