

# EARLY WARNING SYSTEM SURVEY

COUNTRY: **ANGUILLA**

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.

**HURRICANES LUIS-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 #) **10**

c. Number of persons exposed (#) **11,000**

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, WIND VANES, RAIN GAUGES,  
HUMAN REPORTING, CABLE CHANNELS, MIXTURE**

2. Year in which system became operational. **1995 - 2003 (GRADUAL DEVELOPMENT)**

3. Time employed for the design and implementation of the system. **8 YRS**

4. Geographic coverage of EWS. **ENTIRE ISLAND**

5. Arrangements made for remote areas? (Y/N) **GOOD**

6. Routine operation of the EWS:

a. Members of the community; (Position)

b. Personnel from:

1) National; (Position) **MET OFFICE, 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; **ANEMOMETERS, SATELLITE TVRO,**

**COMPUTERS-INTERNET, RAIN GAUGES, 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**

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 - MET OFFICE**
- 3) Other (Name)
- 4) Automatic? (Y/N) **NO**
- 5) Mixed? (Y/N) **YES**
- 6) Other (Name)

9. Is warning adequately published in public broadcast media? (Y/N) **YES**

10. Are forecast and media agencies fully integrated? (Y/N) **YES**

11. Is there redundancy and backup for the EW system? (Y/N) **NO**

12. Is lifeline equipment (eg standby power) adequate? (Y/N) **NO**

13. Is there adequate provision for maintenance of the EWS? (Y/N) **NO**

14. Technical support used for the Design, Implementation, Development of the EWS:

- a. International (Name) **CDERA**
- b. National (Name) **MET OFFICE, REGIONAL CONSULTANTS**
- c. Technical (Name) **HAM OPERATORS**
- d. Scientific (Name) **REGIONAL CONSULTANTS**
- e. Academic (Name)
- f. Consulting firm (Name)
- g. Civil defense agency (Name) **POLICE**
- h. NGO (Name) **RED CROSS**
- i. Other (Name) **NEWS MEDIA (CABLE OPERATORS, TV, RADIO)**

### III INSTITUTIONAL AND FINANCIAL ASPECTS OF THE EWS.

1. Is there a legal framework for the EWS? (Y/N) **YES**

2. Institution(s) in charge of design and implementation (Name) **MET OFFICE**

3. Institution (s) which participate routinely in monitoring the hazard (Name) **MET OFFICE**

4. Is there adequate public awareness of the EWS? (Y/N) **YES**

5. Is there parity between forecasting and warning? (Y/N) **YES**

6. Is there provision for nighttime warning and response? (Y/N) **YES**

7. Type of resources required for the implementation, routine operation, and maintenance of the EWS:

- a. Technical personnel **METEOROLOGISTS, HYDROLOGISTS, COMPUTER OPERATORS AND TECHNICIANS, RADIO ENGINEERS AND OPERATORS, MEDIA PERSONNEL**
- b. Equipment: **COMPUTERS, RADIOS, CELL PHONES, SATELLITE PHONES, SIRENS, BULL HORNS, WEATHER RADAR, FIXED FREQUENCY RECEIVERS GIS SYSTEMS, SMS READY CELL SYSTEMS, INTERNET ACCESS, ISLANDWIDE MEDIA (RADIO & TV) COVERAGE,**
- c. Logistical support (transportation for example) **4WD PICKUPS WITH MAINTENANCE PACKAGES**
- d. Monetary resources **ADEQUATE GOVERNMENT REVENUES,**
- e. Other (Name) **COMMUNITY PERSONNEL FOR A VARIETY OF MANUAL OPERATIONS**

8. Origin of resources required to implement, operate, and provide maintenance to the EWS:

- a. Community (Y/N) **NO**
- b. National (Name) **GOVERNMENT MINISTRY, UK GOVERNMENT**
- c. Regional (Name) **CDERA, CDB, UWI**
- d. Local institutions (Name) **GOVERNMENT MINISTRY**
- e. International agencies (Name) **UNDP, OCHA, ECHO, DFID, USAID, CIDA,**
- f. Donors (Name)
- g. NGOs (Name) **RED CROSS**
- h. Mixed (Y/N) **YES**

9. Inter agency and Inter personal relations between emergency agencies and personnel: (Very good/Good/Poor/None) **GOOD**

## 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) **GOVERNOR, CHIEF MINISTER, 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) **DIRECTOR OF DISASTER MANAGEMENT**

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 / Cell Phone / Community Members Cascade / Multiple options**

5. Who is in charge of operating the alert mechanisms/equipment and orders the activation of alerts?

**DIRECTOR OF DISASTER MANAGEMENT**

6. Official policies, norms, and procedures in place to issue warnings and alerts (if any)

**YES - NATIONAL DISASTER PLAN**

7. Local government participation: **CENTRALIZED**

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)

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, ST JOHNS AMBULANCE, 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.

**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**

3. Lessons 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**

4. Added value gathered from the EWS (benefits not initially conceived during the planning stages, which emerged during standard operation of the system).

**VERY HIGH RESILIENCY IN PRIVATE HOUSING CONSTRUCTION AND THEREFORE LITTLE NEED FOR PUBLIC SHELTERS**

ANNEX: **MAP OF THE REGION WHERE EWS IS OPERATED.**