EARLY WARNING SYSTEM SURVEY BAHAMAS COUNTRY: 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 3. Historical events of significance. **HURRICANES HUGO-1989, GEORGES - 1998** 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 #) c. Number of persons exposed (#) c. Percentage of people exposed to hazard, etc).(%) 5. Is there adequate public awareness about the hazard? (Y/N) Attitude towards freedom of hazard information: (Very good/Good/Poor/None) TECHNICAL ASPECTS OF THE EARLY WARNING SYSTEM 1. Type of system employed to monitor the hazard: SATELLITE (INTERNET) MONITORING, WIND VANES, WEATHER RADAR, 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. ALL ISLANDS 5. Arrangements made for remote areas? (Y/N) GOOD 6. Routine operation of the EWS: a. Members of the community; (Position) **POLICE** b. Personnel from: 1) National; (Position) MET OFFICE, DMU, MEDIA HOUSES 2) Regional; (Position) 3) Local government agency; (Position) ISLAND COMMISSIONERS Research center; (Name) NONE 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; ANEMOMETERS, SATELLITE TVRO, WEATHER RADAR COMPUTERS-INTERNET, RAIN GAUGES, 2 WAY RADIOS, SAT PHONES b. to process information gathered; **COMPUTERS**, **COMPUTER MODELS** c. to transfer it. BROADCAST RADIO AND TV, BULL HORNS, FAX, HF/VHF/UHF RADIO. **EMAIL, TELEPHONES, CELL PHONES, SATELLITE PHONES** 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 - MET OFFICE
	3) Other (Name)
	4) Automatic? (Y/N) YES
	5) Mixed? (Y/N) YES
	6) Other (Name)
9. Is warı	ning adequately published in public broadcast media? (Y/N) YES FOR MAJOR ISLANDS
10. Are for	ecast and media agencies fully integrated? (Y/N) NO
	e redundancy and backup for the EW system? (Y/N) YES
12. Is lifeli	ne equipment (eg standby power) adequate? (Y/N) YES
	e adequate provision for maintenance of the EWS? (Y/N) YES
	cal support used for the Design, Implementation, Development of the EWS:
	a. International (Name) CDERA, NHC, NOAA
	b. National (Name) MET OFFICE, DMU, POLICE
	c. Technical (Name) POLICE
	d. Scientific (Name) REGIONAL CONSULTANTS
	e. Academic (Name)
	f. Consulting firm (Name)
	g. Civil defense agency (Name) DISASTER MANAGEMENT UNIT
	h. NGO (Name) RED CROSS
	i. Other (Name) NEWS MEDIA (CABLE OPERATORS, PRINT, TV, RADIO)
	TITUTIONAL AND FINANCIAL ASPECTS OF THE EWS.
	a legal framework for the EWS? (Y/N) YES
2. Instituti	on(s) in charge of design and implementation (Name) DMU, MET OFFICE, POLICE
3. Instituti	on (s) which participate routinely in monitoring the hazard (Name) DMU, MET OFFICE, POLICE
	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
5. Is there 6. Is there	parity between forecasting and warning? (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 ETC	
	c. Regional (Name) CDERA	
	d. National Government (Name) PRIME MINISTER, MINISTRIES, RESPONSE AGENCIES	
2. Which i	means are employed to warn the people and the various agencies or institutions?	
	TELEPHONE, SAT PHONE, CELL PHONE, 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): ISLAND COORDINATOR	
	d. Regional (Name)	
	e. National level government (Name) NATIONAL DISASTER COORDINATOR	
	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 / Sat 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)	
o. Official		
	YES - NATIONAL DISASTER PLAN	
	overnment participation: YES	
	ontent of the alert message adequate? (Y/N) YES	
	verification that the information is correct and acted on? (Y/N) YES	
	a. Type of municipal organization (Name Type) ISLAND COORDINATORS	
	b. Resources provided. AS SPECIFIED ABOVE	
	nunity 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) 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.		
	HIGHLY EFFECTIVE AND CENTRALIZED EWS WHICH IS WELL RESOURCED AND RESPONSIVE	
	THROUGHOUT ALL THE ISLANDS	
2. Strengt	hs and weaknesses of the EWS.	
	STRENGTHS: CENTRALIZATION WITH HIGH GOVERNMENT COMMITTMENT AND COMMUNITY	
	INVOLVEMENT, VARIETY OF WARNING METHODS ALLOWS REDUNDANCY	
	WEAKNESSES: MANY ISLANDS WITH TINY POPULATIONS TO COVER	
3. Lessons learned, benefits of the EWS.		
	MULTI ISLAND STATE WITH MANY SPARCELY POPULATED ISLANDS HAVE TO CENTRALIZE	
	RESOURCES AND DEPEND ON A WELLL RUN SYSTEM AND RADIO COVERAGE, TO INVOLVE	
	COMMUNITIES	
4. Added value gathered from the EWS (benefits not initially conceived during the planning stages, which		
emerged during standard operation of the system).		
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	SERVICES	