

# ANNUAL REPORT 2013 - 2014

## HAZARD MANAGEMENT CAYMAN ISLANDS





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### VISION

A Comprehensive Disaster Management Program through National approach to hazard management, that will facilitate and co-ordinate the development and implementation of mitigation, preparedness, response and recovery.

### MISSION STATEMENT

Enhance the Cayman Islands resiliency to disaster with full community participation. This will involve participation in the National approach to Comprehensive Hazard Management through mitigation, preparedness, response and recovery thereby ensuring the preservation of human life, property and economic recovery.



### OVERVIEW

The Hazard Management Department of the Cayman Islands has overall responsibility for the national hazard risk management program, including preparedness, response, mitigation and recovery.

HMCI is responsible for the National Radio Communication System which provides Public Safety Officers with the capability to communicate during emergencies and other incidents. The system also provides reliable communication in non-emergency situations and to other government agencies. HMCI also has responsibility for the National Emergency Operations Centre (NEOC), which is activated to direct and coordinate the response to national threats and maintaining

the National Hazard Management plans for threats such as hurricanes and earthquakes.

- developing and implementing policies and programs to achieve and maintain an appropriate state of national preparedness for coping with all emergency situations which may affect the Islands;
- encouraging and supporting disaster preparedness and mitigation measures in the Islands in collaboration with community based organizations, private agencies and voluntary agencies, respectively;
- providing appropriate training programs and consulting services related to all aspects of disaster preparedness, disaster mitigation, loss reduction and disaster management;
- planning and implementing programs to enhance public awareness and understanding of disaster related issues, emergency management, hazard prevention and other similar matters;

### EXECUTIVE SUMMARY

This year witnessed the amalgamation of the Office of Telecommunications (OFTEL) with Hazard Management Cayman Islands (HMCI). On the first of June 2010, Cabinet granted approval for the output functions of the Office of Telecommunication (OFTEL) to be amalgamated into the operations of Hazard Management Cayman Islands (HMCI). On 17 May 2013, Hazard Management Cayman Islands (HMCI) assumed the responsibility for the management and maintenance aspects of the operations and assets.

The Office of Telecommunications was created in the aftermath of Hurricane Gilbert in 1988 when it was determined that the Islands needed a fully functional trunked radio system to allow all Government agencies to communicate with each other and the Emergency Operations Centre (EOC). OFTEL had three main functions: the provision of technical advice to Government agencies and the private sector, technical services for the operation and maintenance of the equipment and the deployment of the communications equipment by trained personnel especially in an emergency. Government Agencies and private sector partners who were using OFTEL services in the past can continue expect access to the full range of services.

## BUDGET AND OUTPUTS

The Department has six outputs that establish the departments' priorities and strategies and define the expenditure and performance indicators within the immediate financial year. A summary of the outputs for the 2013/2014 fiscal year are provided below. The total budget for 2013/2014 was \$1,563,438.

### NEM 1 National Disaster Preparedness

Maintain a state of maximum preparedness through the provision of necessary resources and ensure the existence of hazard management plans from community to national level, and for all sectors. Coordinate and monitor the implementation of the national disaster risk management program.

Through:

- Public Awareness
- Training
- Development and Maintenance of Disaster Plans.

### NEM 2 Policy Advice & Ministerial Servicing

Provide policy advice to the Ministers, Deputy Governor, Chief Officers, Government Departments and others on matters

relating to national hazard management and disaster preparedness. The provision of technical advice to the Ministry, Government agencies and the private sector on telecommunication matters.



Figure 1 Agriculture Show 2014

### NEM 3 Hazard Mitigation

A cooperative proactive partnership of the public, private sectors to build a culture of safety and resilience, to encourage and facilitate implementation of mitigation measures and minimize the consequences of natural and other disasters.

### NEM 4 National Disaster Response

Provide the tools and support needed to ensure National Response readiness in the event of any national disaster. The provision of assistance during or immediately after a disaster for the preservation of life and the provision of basic essential supply and services for those people affected. Management and deployment of telecommunications equipment and personnel.



## **NEM 6 Emergency Shelters Management and Preparedness Activities**

Provide Shelter Management Activities and ensure availability of shelters during and after a disaster. Maintain Emergency Generators and other essential facilities for shelter operations

## **NEM 8 Technical Services for Telecommunication System**

Provision of technical services required for the planning, operating and maintaining of the telecommunication system infrastructure: Switching, Radio, Paging and ancillaries equipment that support the Government Agencies.



**Figure 2 Island Living Show 2014**

## **STRATEGIC PLAN 2012-2016**

HMCI Strategic Plan 2012-2016 was revised to reflect changes as a result of a review of the departments operations and previous plan. The following are the key strategies of the plan.

- Development of "Purpose Built" building for the efficient management and safety of emergency management systems
- Ensure the best possible Shelter Environment for the population of the Cayman Islands through continued

development and enhancement of infrastructure and equipment.

- Ensure that the Islands have adequate Early Warning and Notification systems for all hazards (Improving Early Warning Systems).
- Institutional Capacity Strengthening to ensure delivery of high quality services and products to the country and other international, regional and sub-regional partners. Institutional Capacity Strengthening will also enhance the technical competence of the agency to lead the Country's Disaster Risk Management Program.
- Enhance the country's resilience through an informed public and facilitate the strengthening of community resilience through organization and training. (Building Community Resilience)
- Provide guidance and a legal framework for the reduction of risk and vulnerability to the physical and built environment through mitigation.
- Comprehensive Disaster Plan Development
- Enhancing Emergency Communication

The plan also identified Service needs and gaps such as:

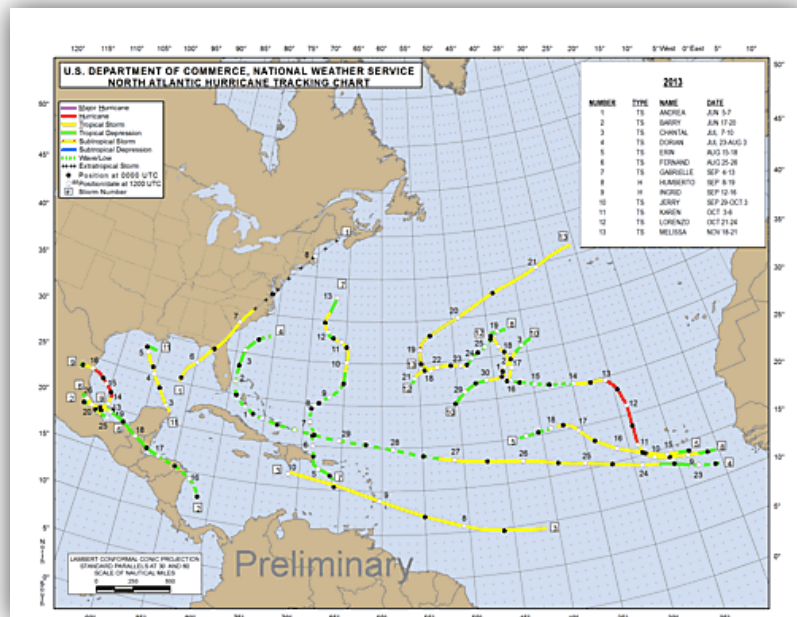
- Mitigation – No Staff to advance the mitigation program.
- Lack of a National Emergency Operations Centre (NEOC)
- Seismic data analysis - no local resource to scientifically analyzing the information that is generated following a seismic event.
- Legislation – legislation pending since 2007.
- Dedicated Recovery Fund – no provisions made for annual contribution to a disaster recovery fund

The responsibility for disaster management is not that of the government alone, each individual, business and community has a role to play in ensuring that the highest level of preparedness is achieved and the response to a disaster is effectively conducted.

## HURRICANE SEASON 2013

The 2013 seasonal Hurricane forecast from NOAA issued August 8, 2013 called for 16 Named Storms, 7 Hurricanes and 4 Intense Hurricanes. At the end of the season there were a total of 13 named storms, 2 hurricanes (Ingrid and Humberto) and no major hurricanes. As a result this led to an unusually quiet Atlantic hurricane season for 2013.

The 2013 hurricane season was the first time since 1994 no major hurricanes formed. The 2013 hurricane season was only the third below-normal season in the last 19 years, since 1995, according to NOAA.<sup>1</sup>



<sup>1</sup> NOAA: Slow Atlantic hurricane season coming to a close, November 25, 2013 (Updated February 11, 2014), [www.noaa.gov/news.noaa.gov/stories2013/20131125\\_endofhurricaneseason.html](http://www.noaa.gov/news.noaa.gov/stories2013/20131125_endofhurricaneseason.html)

The Cayman Islands National Weather Service (CINWS) and HMCI monitor all tropical activity that may affect the Cayman Islands. However, the 2013 hurricane season did not produce any tropical cyclones that affected the Cayman Islands. The Cayman Islands National Weather Service issued advisories for Tropical storm Chantal and Tropical depression Gabrielle.

## PREPAREDNESS/ PUBLIC AWARENESS

Prior to the start of the hurricane season HMCI conducts a media blitz with partner agencies who are involved in the national response mechanism to participate in numerous media appearances on radio and television.

In addition the website CaymanPrepared, Facebook and Twitter sites are utilized regularly to get preparedness and awareness messages across to as broad a spectrum of the population as possible. HMCI currently offers a

range of programs, including hazard awareness seminars, assistance with emergency / disaster plans, emergency drills and business continuity planning.

### Public Education Programme

HMCI Public Education Programme grew this year with additional requests for presentations from government, statutory and private sector entities. The major public education activities for the year were



Figure 3 Island Living Show 2014

- Hurricane / Basic Disaster Management sensitization for Health Services – approximately 175 persons attended over 10 sessions.
- General Hazard Awareness – Conducted general disaster sensitization talks with five civic clubs and other private entities.
- Agricultural Show – 235 Hurricane Information Kits and a number of other brochures were distributed to persons that visited the booth.
- Schools Hazards Awareness programme – conducted presentations at 10 schools, government and private. An Earthquake drill was conducted at John A Cumber primary school.
- Hurricane preparedness PSA's for media houses

HMCI also conducted training in Mass Casualty Management and Incident Command Systems Training Course in March using local PAHO certified trainers. HMCI also participated in other local training such as:

- Electrical Safety for First Responders (February)
- Hazwoper (March)

### **Agriculture Show**

On March 5<sup>th</sup>, HMCI had an 'All Hazards' display booth at the Agriculture Show in Grand Cayman. The Show is an extremely popular event attracting thousands of people, enabling HMCI to directly engage many residents. Brochures and other information were provided. Members of the Urban Search and Rescue team also joined HMCI in the booth to help raise awareness.

### **International Day for Disaster Risk Reduction (IDDR)**

International Day for Disaster Risk Reduction (IDDR) was celebrated in October with the theme: A Not so Obvious Conversation: Living with Disability and Disasters. A panel of experts was assembled to discuss the issues and to raise the profile of the subject of disabilities and disasters on Talk Today

radio and on television. In addition messages were posted on multiple platforms including GIS social media sites, Cayman Prepared, CIGTV and issued to the media.

### **Community Emergency Response Teams (CERT)**

HMCI continues to partner with the Cayman Islands Red Cross to develop CERT's within several communities on Grand Cayman. An additional CERT was trained and formed in West Bay and substantial preparatory work conducted in Windsor Park. A team of 34 people graduated from a three-month training program to establish the West Bay CERT. Several meetings were held in Windsor Park community to organise residents there. This was successful and resulted in a Red Cross lead Vulnerability Capacity Assessment being conducted. Windsor Park CERT training should commence in the next financial year.

Other established CERT North Sound Gardens, North Side and Belford Estates also received training and support.

### **National Day of Preparedness**

National Day of Preparedness is observed on Discovery Day in May, but over the course of the entire month of May, HMCI staff members partner with hardware stores on the weekends to actively engage local residents about their



**Figure 4 Preparedness Kit Winners**

preparedness and readiness for threats such as hurricanes and earthquakes and specifically discussed their family preparedness plan in the event of a disaster.. This year National Day of Preparedness Activities were featured on CITN news, Daybreak, CIGTV news, Social Media (Facebook, Twitter), Government Websites (GIS, GOV, Cayman Prepared), and 12 Radio station appearances.

A total of 356 persons entered the draws to win a National Day of Preparedness Kit.

## RESPONSE

HMCI monitored the progression of Tropical storm Chantal and Tropical depression Gabrielle however, no activation was required.

There were three recorded earthquake with a 4.2 and 4.3 Magnitude within the Cayman region. There were only a handful of 'felt' reports but earthquakes continue to generate strong public and media interest.

### Disaster Exercises

Two simulation exercises were conducted for the year. These are the annual hurricane exercise and a Tsunami exercise LANTEX14.

#### Annual Hurricane Exercise

Hurricane Exercise 'Chance' was held over the 11th and 12th of June and the simulation gave participants an opportunity to reacquaint themselves with National Hurricane Plan, NEOC operations and the use of the crisis management software 'WebEOC'.

#### Lantex 14, Carib Wave tsunami exercise

In February the Lantex 14, Carib Wave tsunami exercise tested the response capacity of Islands in the Caribbean, and the Cayman Islands participated by testing communication protocols in response to the threat of an approaching tsunami.

## RECOVERY

There was no impact from disasters that required any recovery activities.

## MITIGATION

There was no significant mitigation activities conducted during the year because of staffing.

## COMMUNICATION

The National Radio Communication System in General is in good working condition for its age, which is definitely showing.

Motorola Solutions conducted system maintenance in November 2013, a complete report on their findings was provided to HMCI. The following are highlights from their report.

- The Master Site was working as expected. The major concern is parts for the equipment installed are very hard to find in the market, and Motorola Solutions have had problems trying to restock them
- The Base stations at Northward are showing signs of degradation. Spare Parts for these Quantro Base Stations are no longer supported by Motorola Solutions, and if they are found, their cost would be very high.
- The Radiation cable for the TX 2 antenna at the George Town Site needs to be replaced. Coverage at critical areas can be affected by this problem.

At the request of HMCI, Motorola Solutions also conducted a Coverage Test to verify the system's performance in areas of Grand Cayman and the Sister Islands. Generally the test results



were good; there were some areas in East End, Frank Sound and West Bay. However, the critical area observed in this test is located at the West Bay.

- Coverage at the West Bay area can be improved by adding a small site at this location. The area is very well populated, and during the coverage test, it was observed that there are spots that have very weak signal reception from the George Town Site.

The availability and maintenance statistics for the period of June 2013 to July 2014 are as follows:

- Total number of faults: 37
- Total number of system Outages: 1
- Total number of radios received for repair or reprogramming: 138
- Total number of radios sent off to Motorola for repair and return: 20
- Total number of Infrastructure equipment sent to Motorola for repair return: 9

## HMCI Activities

### Conferences and Seminars

In an effort to stay current with best practices, product innovation and education in areas that HMCI is responsible for staff attends various conferences and seminars.

- APCO International's 79th Annual Conference & Expo  
Anaheim, California, August 19-21, 2013
- 2013 National MTUG Annual Meeting  
Anaheim, California, August 19-21, 2013
- Emergency Management Accreditation Program (EMAP) training, Miami Florida, October 2 – 13 2014

- Strengthening Standard Operating Procedures for  
Tsunami Warning, Mexico City, Mexico, April 1-6, 2014
- 28th Annual Governor's Hurricane Conference, Orlando  
Florida, May 11-16, 2014
- The World Conference on Disaster Management,  
Toronto, Canada, June 7 – 10, 2014

### British OT's Disaster Managers Meeting, December 9-11, 2013

The British Overseas Territories Disaster Managers Meeting was held in the Cayman Islands over the period from December 9<sup>th</sup> to December 11<sup>th</sup> and was hosted by Hazard Management Cayman Islands. The Meeting brought together the heads of the disaster management offices for Bermuda, the Cayman Islands, Anguilla, Turks and Caicos Islands, Montserrat, and the British Virgin Islands.

Lori Yun Kannon, Disaster Management Advisor for the Overseas Territories Directorate was the Lead Facilitator. The goals of the meeting included developing strategies for strengthening, improving disaster plans and sharing best practices.

### FCO Caribbean and Bermuda Overseas Territories Disaster Management Seminar May 8 – 9, 2013.

The FCO annual disaster management seminar was held in Miami and was attended by the Director of HMCI and staff from the Governors' office.

The seminar provides a platform that allows National Disaster Coordinators from the Overseas Territories to meet and interact with staff of the FCO, representatives from APT (N), the Defense Adviser and his team from Kingston. It also provided an opportunity to share best practices and experiences.

In addition, the FCO sponsored two individuals to attend the Florida Governors Hurricane Conference held at the Rosen Centre Hotel and Orange County Convention Center in Orlando, May 11 – 16, 2014, Shiann Powery and Karefia Ross attended from HMCI.

## **OTHER MATTERS**

### **TCI Assistance - 28 October – 1 November 2013**

At the request of the Turks & Caicos Department of Disaster Management and Emergencies (DDME), Lee Madison travelled to the Turks and Caicos Islands in October 2013 to analyze the emergency radio communications systems and to demonstrate how WebEOC software is used for disaster response in the Cayman Islands.

The islands of Providenciales, Grand Turk, North and Middle Caicos were visited and an assessment of the communications system was conducted. A report on the findings was prepared and submitted to the director of the DDME.

Introductory WebEOC training was presented to 14 members of the DDME community and was well received.

### **Tsunami Gauge install - November 21 - 25 2013**

In November 2013, HMCI with the assistance of staff from the Department of Environment, Lands and Survey and the Port Authority installed a sensor for the Caribbean Tsunami Warning Program at the George Town Port. The sensor was funded through a UNESCO grant and the installation was supervised by the German company OTT.

The installation uses both radar and pressure sensors to measure the sea level and the recorded data is forwarded to the Pacific Tsunami Warning Center for real time tsunami warning. Data is also recorded locally and will be used by Department of Environment, Lands and Survey and the National Weather Service for various research projects.

## Appendix A

### 2013/2014 Budget

Account		Budget Amount 13/14	Budget 12/13	% Increase/ Decrease
<b>Personnel Costs</b>				
<b>Salaries &amp; Allowances</b>				
50011	Basic Salary	\$ 492,083	\$ 378,489	30%
50029	Acting Allowance	\$ 14,700	\$ 14,700	0%
50071	Recruitment	\$ 3,000	\$ 3,000	0%
50155	Comp Time Expense	\$ 2,795	\$ 785	256%
50072	Employee Health care	\$ 107,040	\$ 69,744	53%
<b>Sub Total</b>		<b>\$ 619,618</b>	<b>\$ 466,718</b>	<b>33%</b>
<b>Employee &amp; Employer Pension Contributions</b>				
50080	Government Pension Contribution	\$ 30,470	\$ 23,332	30.6%
50082	Pension Contribution - PPE Employ	\$ 30,470	\$ 23,332	30.6%
<b>Sub Total</b>		<b>\$ 60,940</b>	<b>\$ 46,664</b>	<b>30.6%</b>
<b>TOTAL Personal Costs</b>		<b>\$ 680,558</b>	<b>\$ 513,382</b>	<b>33%</b>
<b>Operating Expense</b>				
<b>Supplies &amp; Consumables</b>				
<b>Travel and Training</b>				
50224	Official Travel - Expense	\$ 5,000	\$ 3,375	48%
50229	Training	\$ 6,000	\$ 1,900	216%
51081	Training Materials	\$ 2,500	\$ 2,850	-100%
<b>Sub Total</b>		<b>\$ 13,500</b>	<b>\$ 8,125</b>	<b>66%</b>
<b>Supplies &amp; Materials</b>				
50602	Food / Dietary Supplies	\$ 3,000	\$ 2,375	26%
50962	Computer and Communications Supplies	\$ 500	\$ 2,000	-75%
50964	Paper and Printing Consumables	\$ 1,200	\$ 1,140	5%

51001	Office Supplies - Consumables	\$ 2,000	\$ 1,400	43%
51052	Publications, periodicals	\$ -	\$ 475	-100%
<b>Sub Total</b>		<b>\$ 6,700</b>	<b>\$ 7,390</b>	<b>-9%</b>
<b>Utilities</b>				
51405	Electricity	\$ 90,000	\$ 500	17900%
51420	Water	\$ -	\$ -	100%
51430	Telephone Charges	\$ 20,000	\$ 14,250	40%
51460	Data Communications Lines	\$ 2,850	\$ 2,850	0%
51470	Cable Television	\$ 115	\$ 114	1%
<b>Sub Total</b>		<b>\$ 112,965</b>	<b>\$ 17,714</b>	<b>537.7%</b>
<b>Maintenance</b>				
54306	Janitorial Services			
54316	Maintenance - Buildings	\$ 6,000	\$ -	100%
54319	Maintenance - Radios/Transmitter	\$ 250,000	\$ 3,000	8233%
54320	Maintenance - Office Equipment	\$ 1,000	\$ 1,000	0%
54324	Maintenance - Other Equipment	\$ 29,000	\$ -	100%
54334	Maintenance - Vehicles and Equipment	\$ 4,000	\$ 4,750	-16%
54351	Computer Software Maintenance	\$ 2,000	\$ 2,000	0%
54352	Software Licensing Fees	\$ 20,000	\$ 23,750	-16%
54361	Computer Hardware Maintenance	\$ 3,500	\$ 1,900	84%
54424	Vehicle Cleaning	\$ 500	\$ 475	5%
54457	Vehicle Licensing / Inspection	\$ 3,010	\$ 570	428%
<b>Sub Total</b>		<b>\$ 319,010</b>	<b>\$ 37,445</b>	<b>752%</b>
<b>Service Fees</b>				
54227	Bank Charges	\$ 300	\$ 285	5%
54256	Professional Fees	\$ 5,000	\$ 3,500	43%
54300	Freight and Shipping	\$ 10,000	\$ -	100%
54304	Mail Courier Service	\$ 750	\$ 760	-1%
54433	Overseas Postage	\$ 250	\$ 190	32%
<b>Sub Total</b>		<b>\$ 16,300</b>	<b>\$ 4,735</b>	<b>244%</b>
<b>Disaster Preparedness</b>				
54308	Local Promotion / Community Sponsor	\$ 20,000	\$ 20,000	0%
54211	Advertising	\$ 400	\$ 380	5%



51051	Printing Other	\$ 5,000	\$ -	100%
51075	Disaster Preparedness	\$ 40,000	\$ 40,000	0%
54401	Public Relations and Publicity	\$ 5,000	\$ 4,750	5%
54418	Hurricane Disaster Preparedness	\$ 30,000	\$ 28,500	5%
54935	Other Training	\$ -	\$ 1,900	-100%
54218	Shelter Management	\$ 20,000	\$ 20,000	0%
70035	Disaster Response			
<b>Sub Total</b>		<b>\$ 120,400</b>	<b>\$ 115,530</b>	<b>4%</b>
<b>INTERDEPARTMENTAL EXPENSES-General</b>				
<b>AUD00100</b>	Financial Attest Services	\$ 2,311	\$ 1,193	94%
<b>TOTAL</b>		<b>\$ 2,311</b>	<b>\$ 1,193</b>	<b>94%</b>
<b>Supplies &amp; Consumables Total</b>		<b>\$ 591,186</b>	<b>\$ 192,132</b>	<b>208%</b>
<b>Insurance</b>				
57277	Insurance - Property	\$ 8,036	\$ -	100%
57278	Insurance - Liabilities	\$ 1,175	\$ 1,045	12%
57281	Insurance - Vehicles	\$ 5,208	\$ 3,325	57%
57287	Insurance - Contents	\$ 44,195	\$ -	100%
<b>TOTAL</b>		<b>\$ 58,614</b>	<b>\$ 4,370</b>	<b>1241%</b>
<b>Operating Cost</b>		<b>\$ 649,800</b>	<b>\$ 196,502</b>	<b>231%</b>
<b>Depreciation</b>				
60001	Depreciation Buildings			
60004	Depreciation Other Infrastructure assets	\$ 155,872	\$ -	100%
60005	Depreciation Vehicles	\$ 5,400	\$ 6,150	-12%
60008	Depreciation Furniture & Fittings	\$ 671	\$ 5,203	-87%
60009	Depreciation Computer Hardware	\$ 12,861	\$ 6,400	101%
60011	Depreciation Office Equipment	\$ 66	\$ 150	-56%
60012	Depreciation Other Plant & equipment	\$ 58,210	\$ 47,416	23%
60013	Depreciation Other Assets			
<b>Sub Total</b>		<b>\$ 233,080</b>	<b>\$ 65,319</b>	<b>257%</b>
<b>Total Expenses</b>		<b>\$ 1,563,438</b>	<b>\$ 775,203</b>	<b>102%</b>

NEM 1	National Disaster Preparedness	\$243,851
<b>Description</b>  Maintain a state of maximum preparedness through the provision of necessary resources and ensure the existence of hazard management plans from community to national level, and for all sectors. Coordinate and monitor the implementation of the national disaster risk management program. Through: <ul style="list-style-type: none"> <li>• Public Awareness</li> <li>• Training</li> <li>• Development and Maintenance of Disaster Plans.</li> </ul>		
<b>Measures</b>		<b>2013/14</b> Budget <b>2012/13</b> Actual
<b>Quantity</b> <ul style="list-style-type: none"> <li>• Number of hours providing disaster preparedness.</li> <li>• Number of hours to develop and coordinate community response through Community Emergency Response Teams.</li> <li>• Number of meetings of the National Hazard Management Council</li> </ul>		4,500-5,000 250-300 10-30 10
<b>Quality</b> <ul style="list-style-type: none"> <li>• Ensure alignment of plans with credible scenarios and that plans address business continuity for all sectors. Public awareness programmes relate to hazards.</li> <li>• Increased community resilience through community based preparedness and response.</li> </ul>		90-100% 100% 100%
<b>Timeliness</b> <ul style="list-style-type: none"> <li>• National disaster activities performed in accordance with the timescales agreed with the National Hazard Management Council and the Deputy Governor.</li> <li>• Develop local capacity through training and development of community hazard management teams and NGO network within agreed timelines.</li> <li>• Meetings convened within 1/2 hour and concluded within 1 ½ hour of issue of weather reports by U.S. National Hurricane Centre</li> </ul>		95-100% 100% 95-100%
<b>Location</b> Cayman Islands		100% 100%
<b>Cost</b>		\$243,851 \$161,614

Related Broad Outcome		
5. Modern, Smart Infrastructure		

NEM 2	Policy Advice and Ministerial Servicing	\$165,944
<b>Description</b> Provide policy advice to the Ministers, Deputy Governor, Chief Officers, Government Departments and others on matters relating to national hazard management and disaster preparedness. Provision of technical advice to the Ministry and Government agencies and the private sector on telecommunication matters.		
<b>Measures</b>		
<b>Quantity</b>	<b>2013/14 Budget</b>	<b>2012/13 Actual</b>
<ul style="list-style-type: none"> <li>Hours of provision of Advice on Hazard Management</li> <li>Hours of provision of Advice on telecommunication</li> </ul>	500-650 260-300	450 N/A
<b>Quality</b>	100%	100%
<ul style="list-style-type: none"> <li>All personnel providing policy advice is qualified in his/her area of expertise</li> </ul>		
<b>Timeliness</b>		
<ul style="list-style-type: none"> <li>Response to request for advice answered within the timeframe as agreed at time of request.</li> </ul>	90-100%	100%
<b>Location</b>		
Cayman Islands	100%	100%
<b>Cost</b>	\$165,944	\$29,625
Related Broad Outcome		
5. Modern, Smart Infrastructure		

Note: 2012/13 Actual not comparable to 2013/14 Budget as measure is new.

NEM 3	Hazard Mitigation	\$154,449	
<b>Description</b> A cooperative proactive partnership of the public, private sectors to build a culture of safety and resilience, to encourage and facilitate implementation of mitigation measures and minimize the consequences of natural and other disasters.			
<b>Measures</b>		<b>2013/14 Budget</b>	<b>2012/13 Actual</b>
<b>Quantity</b>			
<ul style="list-style-type: none"><li>Number of hours of risk assessments, including socio-economic impacts, used to ensure public safety and to contribute to sustainable national development for all hazards.</li></ul>		600-800	100
<ul style="list-style-type: none"><li>Number of hours to ensure periodic review and update and application of codes and standards to meet emerging or changing threats.</li></ul>		100-150	100
<ul style="list-style-type: none"><li>Number of days to provide seismic monitoring for the Cayman Islands of any natural seismic events.</li></ul>		365	365
<ul style="list-style-type: none"><li>Number of hours to Develop the National Mitigation Policy</li></ul>		250-300	50
<b>Quality</b>			
<ul style="list-style-type: none"><li>Track performance in mitigation/risk reduction by using proven measures.</li></ul>		80-90%	100%
<ul style="list-style-type: none"><li>Maintain seismic monitoring stations will also be part of a Caribbean wide network to allow greater accuracy in pinpointing area of seismic disturbance.</li></ul>		100%	100%
<b>Timeliness</b>			
<ul style="list-style-type: none"><li>Risk assessment and development of risk maps and policy within the time frame agreed with the National Hazard Management Council and Deputy Governor.</li></ul>		95-100%	95-100%
<ul style="list-style-type: none"><li>Seismic monitoring 365 days per year.</li></ul>		100%	100%
<b>Location</b>			
Cayman Islands		100%	100%
<b>Cost</b>		\$154,449	\$191,801
<b>Related Broad Outcome</b> 5. Modern, Smart Infrastructure			

NEM 4	National Disaster Response	\$299,165
<b>Description</b> Provide the tools and support needed to ensure National Response readiness in the event of any national disaster. The provision of assistance during or immediately after a disaster for the preservation of life and the provision of basic essential supply and services for those people affected. The deployment of telecommunications equipment and personnel.		
<b>Measures</b>		
<b>Quantity</b> <ul style="list-style-type: none"> <li>Number of hours providing National Emergency Operation Center management and coordination.</li> <li>Number of hours to plan and conduct Annual Hurricane exercise and other Disaster exercise</li> <li>Number of hours to manage and coordinate relief assistance to the affected population.</li> <li>Number of hours to ensure readiness of electronic incident management systems and emergency telecommunications.</li> </ul>	3,000-4,000 250-300 250-300 500-600	900 100 0 600
<b>Quality</b> <ul style="list-style-type: none"> <li>Ensure existence of coordinating focal point for multi-hazard responses</li> <li>Improved coordination and communication between response agencies</li> <li>Relief operations meet or exceed stated standards of basic essential supply and services for those people affected.</li> <li>Emergency telecommunications and electronic incident management systems available on standby.</li> </ul>		
<b>Timeliness</b> <ul style="list-style-type: none"> <li>National Emergency Operation Center activation depends on the occurrence of a National Incident.</li> <li>Annual National Exercise prior to 1 June each year.</li> <li>Disaster relief can be of an immediate, short-term, or protracted duration</li> <li>Available 24 hours 365 days per year.</li> </ul>		
<b>Location</b> Cayman Islands		
<b>Cost</b>	\$299,165	\$66,811
<b>Related Broad Outcome</b> 5. Modern, Smart Infrastructure		

NEM 6		Emergency Shelters Management and Preparedness Activities		\$163,307
Description Provide Shelter Management Activities and ensure availability of shelters during and after a disaster. Maintain Emergency Generators and other essential facilities for shelter operations.				
Measures		2013/14 Budget	2012/13 Actual	
Quantity				
<ul style="list-style-type: none"><li>• Number of Emergency Shelters managed</li><li>• Capacity to provide shelter occupancy</li><li>• Maintain and Fuel Shelter Generators</li><li>• Maintain Shelter Cisterns and provide adequate water supply</li></ul>		21 3,000-4,000 21 21	21 3,000-4,000 10 21	
Quality All National Disaster Plan requirements are complied with in agreement with the National Hazard Management Council and shelters are available for activation.		95-100%	95-100%	
Timeliness				
<ul style="list-style-type: none"><li>• All Emergency Shelter capacity is available in the event of a Tropical Cyclone or other Disaster occurring</li><li>• Shelter remain open until alternative accommodation is found for displaced people</li><li>• All shelter generators are maintained and fueled for operation</li><li>• Adequate food and water supply is available at shelters</li></ul>		100% 95-100% 95-100% 100%	100% 95-100% 95-100% 100%	
Location Cayman Islands		100%	100%	
Cost		\$163,307	\$153,193	
Related Broad Outcome				
5. Modern, Smart Infrastructure				

NEM 8	Technical Services for Telecommunication System	\$244,921
<b>Description</b> Provision of technical services required for the planning, operating and maintaining of the telecommunication system infrastructure: Switching, Radio, Paging and ancillaries equipment that support the Government Agencies.		
<b>Measures</b> <b>Quantity</b> Number of radios using system infrastructure		2013/14 Budget 1,400-1,600
<b>Quality</b> System infrastructure is continuously monitored for availability and reliability (overall network availability)		2012/13 Actual N/A
<b>Timeliness</b> Response Times: <ul style="list-style-type: none"> <li>For Critical System(911 System; Paging Systems; fire department)               <ul style="list-style-type: none"> <li>During normal working hours: 15 minutes</li> <li>Outside of normal working hours: 45 minutes</li> </ul> </li> <li>Other Systems               <ul style="list-style-type: none"> <li>Grand Cayman: within 1 Hour</li> <li>Cayman Brac and Little Cayman: Next available flight</li> </ul> </li> </ul>		
<b>Location</b> Cayman Islands		95-99% 90-95% 90-95% 90-95% 100% N/A
<b>Cost</b>		\$244,921 \$0
<b>Related Broad Outcome:</b> 5. Modern, Smart Infrastructure		

*Note: This is a new output in the 2013/14 Budget.*

## Appendix B

### NATIONAL HAZARD MANAGEMENT PLANS

#### **VOLUMES      1 & 2: INTRODUCTION AND SOPs**

**Volume 1**      Introduction/Basic Plan includes general information on the national disaster management structure and the roles and responsibilities of Operational Committees.

**Volume 2**      The Standard Operating Procedures (SOP) for the National Emergency Operations Centre (NEOC). This document sets out the procedures for alerting, warning and call-out for any response. It provides procedures for activation, staffing, management and deactivation of the NEOC.

#### **VOLUME 3      HAZARD SPECIFIC PLANS**

The Hazard specific plans address preparations for and response to hazards.

**Volume 3A**      National Hurricane Plan

**Volume 3B**      National Earthquake Plan (Pending)

**Volume 3C**      National Tsunami Plan

**Volume 3D**      Airport Emergency Plan

**Volume 3E**      National Oil Spill Plan

**Volume 3F**      National Pandemic Plan

**Volume 3G**      Port Disaster Contingency Plan

#### **VOLUME 4      PHASE SPECIFIC PLANS**



**Volume 4A**    Reserved for National Mitigation Plan  
**Volume 4B**    National Recovery Plan  
**Volume 4C**    National Disaster Relief Management Plan

**VOLUME 5    FUNCTIONAL PLANS**

**Volume 5A**    National Evacuation Plan  
**Volume 5B**    CI-USAR TF SOP  
**Volume 5C**    Damage Assessment SOP  
**Volume 5D**    National Telecommunications Plan

**ANNEXES**

District Plans  
Special Committee Plans

**APPENDICES**

Contact Lists  
Resource Lists  
Model Memoranda of Understanding

