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<http://r3i.gis-hmva.gesp.it/>

**OCTs Regional Risk Reduction Initiative (R3i)  
Provision of Services to Caribbean OCTs  
Lot1: GIS and Vulnerability Assessment**

**Regional Training Workshop 1:  
Introduction to GIS Concepts and its  
Applications in Hazard Mapping and  
Vulnerability Assessment**

**Workshop Report**

The University of the West Indies  
St. Augustine, Trinidad  
June 27<sup>th</sup> - 28<sup>th</sup>, 2011



## R3i Regional Training Workshop 1: Introduction to GIS Concepts and its Applications in Hazard Mapping and Vulnerability Assessment

**Dates:** June 27-28<sup>th</sup>, 2011

**Venue:**

Block 10, Room 110, Department of Geomatics Engineering and Land Management, The University of the West Indies, Trinidad

**Objectives**

This course would provide the participants with an understanding of GIS concepts and principles and how they are used in hazard mapping and vulnerability assessment. Furthermore, it would provide a general understanding of how the project will be implemented and managerial considerations for the sustainability of the GIS tool use for Disaster management.

**Target Group**

Senior managers of National Disasters Management Organisations (Planning Department, Works Department, Mapping agencies, Finance Department etc) with responsibility for Disaster Risk Reduction in R3i project participants' states. No knowledge of GIS software is required the participants should however be computer literate.

**Learning Outcome**

- To expose participants to the use of GIS concepts and application in Disaster Risk Management.
- To explore how GIS applications are built in support of landslide/flood risk modelling.
- To provide participants with an appreciation of resources required and challenges in the use of geoinformatics in support of hazard mapping and vulnerability assessment.

**Workshop Instructors**

The following persons provided instruction and guidance to the workshop: Jacob Opadeyi, Gabrielle Thongs, and Melanie Harris.

The workshop began with the introduction of participants and instructors. The participants were asked to complete the registration from which include questions on their roles and involvement in disaster risk management in their respective islands as well as their expectations from the workshop.

Below are the responses provided by the participants.

Country	Names	Involvement	Expectation
Anguilla	Bancroft Augustus Battick	Chair of Essential services sub-committee	To gain better understanding of the application of GIS as it relates to disaster management
	Vincent Nigel Proctor	Physical planning of all development	To display data visually during discussion and presentation. Using Arcview as a presentation tool.
Aruba	Hubert A. deCuba	All what you need to prepare and better use the GIS to reduce your risk	Everything that I can use to reduce disaster risk using GIS
	Nico J.F. Arts	Preparing and Planning disaster risk reduction and response	Getting an idea on how GIS can be applied in disaster management

BVI	Erica Smith-Penn		To learn more about GIS and how land registration can facilitate disaster mapping initially, and all such needs, ultimately
	Ronald Beard	Planning Data	Broad concept of understanding of concepts, strategies and new ideas
	Norval A. Young	Planning for disaster management and the development of appropriate maps and strategies in dealing with situations	To be able to understand concepts and develop skills in disaster management. Also to ascertain ways to plan and mitigate efficiently and effectively.
Cayman Islands	Lee Michael Madison	Emergency management	To understand how GIS can help with emergency management
	McCleary Frederick		To gain a better understanding of GIS and Disaster Management
Curacao	Albert J.R.A. Schoop	Deputy coordinator of emergency support function	To develop an understanding of the use, functionality and application of GIS
	Randolph Winklaar	My involvement in disaster risk management is ESF-6 coordinator of the disaster management staff	To understand the concepts of GIS
	Oswald Ferdinand Dalnoot	Organising presentations – public involvement	Learn basics of hazard mapping
Montserrat	Glenroy Wendell Foster	Would like to be more involved in the uses of GIS in Montserrat	I expect to get a better grasp of GIS and learn all that I can about its uses and functions
	Franklyn Greenaway	Head of the physical planning unit, we are responsible for GIS development in the country. We are working closely with the DMCA	It will teach me more about GIS and its role in hazard mapping and disaster risk reduction. New ideas to deal with risk management
St Eustatius	Andre Bennett	Early warning system to the general public	To learn more about early warning and GIS
	Ruth Pandt-Leerdam	To make sure the island is safe during any disaster	That the information I receive will make me more efficient during and after disaster
St Maarten	Paulus T.C. Martens	It forms the main part of my function	Getting a better idea of how GIS applications can assist the disaster managers in planning, mitigation, management etc
	Louis D. Brown	Responsible for infrastructure management, that is, drainage, roads, garbage, equipment logistics, support police	To understand the manner in which GIS can assist in the response strategy before, during and after the disaster management
TCI	Dainer Franklyn-Lightbourne	Risk reduction is a part of the risk reduction process	Use of GIS in disaster management and new concepts
	James Lewis Fritz	How to use GIS to assist in disaster management	How to apply GIS in disaster management

Following the introduction, a brief overview of the objectives of the R3i project were presented and the methodology to be used for the Lot1 project were shared. These were done to accommodate the fact that most of the participants are not fully aware of the R3i and Lot 1 project.

The workshop used a mix of lectures, class discussion, and tutorials based on the learning agenda presented below.

**Learning Agenda**

<b>Monday June 27, 2011</b>	
09:00-10:30am	Introduction to GIS Concepts
10:30-11:00am	Break
11:00-12:30pm	Disaster risk in the Caribbean
12:30-1:30pm	Lunch
1:30-2:30pm	Developing GIS applications: tools and model builder
2:30-3:30pm	Break
3:30-4:30pm	Conceptual design of GIS-base flood and landslide risk mapping
4:30-5:30pm	Discussion
<b>Tuesday June 28, 2011</b>	
09:00-10:30am	Tutorial 1: Pre-processing of raw data for flood/landslide risk mapping
10:30-11:00am	Break
11:00-12:30pm	Tutorial 2: Flood/landslide susceptibility mapping
12:30-1:30pm	Lunch
1:30-2:30pm	Tutorial 3; Flood/landslide risk mapping
2:30-3:30pm	Break
3:30-4:30pm	R3i project phases, training activities and sustainability
4:30-5:00pm	Workshop evaluation

All lecture and tutorial materials used have been loaded on the project website <http://r3i.gis-hmva.gesp.it/> In general the workshop was interactive and animated. Participants were willing to learn and share with one-another.

At the end of the workshop, participants were asked to evaluate the workshop using the prepared workshop evaluation form. This was followed with award of certificate of participation to each participant and a group photographs.

The result of the workshop evaluation, participants contact information and group photograph are presented below.



# WORKSHOP EVALUATION REPORT

## SECTION I:

		No of persons who Strongly Agreed	No of persons who Agreed	No of persons who Neither Agree nor Disagree	No of persons who Disagree	No of persons who Strongly Disagree
1.	The objectives of the workshop were clear.	7	12	1	0	0
2.	The objectives of the workshop were met.	5	12	2	0	0
3.	Presentations and explanations were effective in furthering my understanding of hazard mapping and vulnerability assessment.	10	9	1	0	0
4.	Presentations and explanations were effective and will assist me in furthering my knowledge of hazard mapping and vulnerability assessment.	7	11	2	0	0
5.	Workshop materials were effective in helping to achieve the workshop objectives.	2	18	0	0	0
6.	Time allotted for group sessions were adequate.	0	15	5	0	0
7.	The workshop met my expectations	7	13			

## SECTION II:

1. Was the workshop length?: 9 persons said it was adequate; while 11 persons said it was too short.
2. The followings are the suggestions that the participants advanced for the improvement of the this workshop?
  - A little less attention to technical aspects and more attention to application of results and analysis of required data
  - Introduction to Modelling could be done by a power point presentation using a computer
3. The followings are areas of concern expressed:
  - Duration is not enough for people without knowledge of the software
  - Modelling could be done for the individual islands being represented at the workshop

## SECTION III: Please rate the workshop facilitators.

		No. of participants who rated the facilitator as Excellent	No. of participants who rated the facilitator as Good	No. of participants who rated the facilitator Average	No. of participants who rated the facilitator Below Average	No. of participants who rated the facilitator Poor
1.	Knowledge of subject matter	14	6	0	0	0
2.	Presentation Content	4	16	0	0	0
3.	Workshop Delivery	5	15	0	0	0
4.	Organisation	4	15	1	0	0
5.	Handouts and Materials	3	16	1	0	0
6.	Visuals	2	17	1	0	0

**Note: 20 participants took part in the Survey**

## Participants' Contact Information

Country	Names	Position	Organisation	Email	Telephone
Anguilla	Bancroft Augustus Battick	Chief Engineer	Min. of Infrastructure	<a href="mailto:bancroft.battick@gov.ai">bancroft.battick@gov.ai</a>	1-264-497-2651
	Vincent Nigel Proctor	Principal Planning Officer	Dept of Physical Planning	<a href="mailto:Vincent.proctor@gov.ai">Vincent.proctor@gov.ai</a> <a href="mailto:Vinceprotor@hotmail.com">Vinceprotor@hotmail.com</a>	1-264-497-5064
Aruba	Hubert A. deCuba	GIS worker	Bureau of statistics	<a href="mailto:HdCuba@cbs.aw">HdCuba@cbs.aw</a>	1-297-593-7301
	Nico J.F. Arts	Dept Director	Policy maker, planning and preparation	<a href="mailto:crisis.mgmt.off@setarnet.aw">crisis.mgmt.off@setarnet.aw</a>	1-297-588-0100
BVI	Erica Smith-Penn	Chief Registrar of Lands	Land Registry	<a href="mailto:Ersmith-penn@gov.vg">Ersmith-penn@gov.vg</a>	1-284-468-3701 ext 2107/2020
	Ronald Beard	Deputy Chief Planner	Town and Country Planning Department	<a href="mailto:rbeard@gov.vg">rbeard@gov.vg</a>	1-284-468-3701 ext 3145
	Norval A. Young	Cadastral Information Manager	Lands & Survey Department	<a href="mailto:noyoung@gov.vg">noyoung@gov.vg</a>	1-284-468-4330
Cayman Islands	Lee Michael Madison	Deputy Director of Operations	HMCI	<a href="mailto:lee.Madison@gov.ky">lee.Madison@gov.ky</a>	1-345-516-1281
	McCleary Frederick	Director	HMCI	<a href="mailto:McCleary.Frederick@gov.ky">McCleary.Frederick@gov.ky</a>	3459455642
Curacao	Albert J.R.A. Schoop	ESF Dep Coordinator Public Order	Curaçao Police Force ESF Dep	<a href="mailto:albert.schoop@curacao-gov.an">albert.schoop@curacao-gov.an</a> <a href="mailto:hatalbertschoop@yahoo.com">hatalbertschoop@yahoo.com</a>	+5999-520-7799 +5999-668-1118
	Randolph Winklaar	Public Health Junement ESF Coordinator	Public Health Piscaderawg 49	<a href="mailto:randolph.winklaar@curacoa-gov.an">randolph.winklaar@curacoa-gov.an</a> <a href="mailto:randolph.winklaar@hotmail.com">randolph.winklaar@hotmail.com</a>	+5999-561-3340
	Oswald Ferdinand Dalnoot	ESF Coordinator Evacuation and Sheltering Grote Berg Kv R5	Government of Curacao Evacuation and Sheltering Grote Berg Kv R5	<a href="mailto:oswald.dalnoot@curacao-gov.an">oswald.dalnoot@curacao-gov.an</a> <a href="mailto:ossiedal@hotmail.com">ossiedal@hotmail.com</a>	+599-9561-9522

Montserrat	Glenroy Wendell Foster		Dept. of Communication and Works	<a href="mailto:Fosterg@gov.ms">Fosterg@gov.ms</a>	1-664-491-2521
	Franklyn Greenaway	Chief Physical Planner	Physical Planning Unit	<a href="mailto:Greenawayf@gov.ms">Greenawayf@gov.ms</a> <a href="mailto:fgreenaway@hotmail.com">fgreenaway@hotmail.com</a>	1-664-491-6795 1-664-492-1435 (c)
St Eustatius	Andre Bennett	DM Coordinator (Ag)		<a href="mailto:andrebenett16@gmail.com">andrebenett16@gmail.com</a>	+599-310-4482
	Ruth Pandt-Leerdam	ESF Public Works	Public Works Dept	<a href="mailto:Remer76@hotmail.com">Remer76@hotmail.com</a>	+599-318-1731
St Maarten	Paul T.C. Martens	Head Section	Disaster Management	<a href="mailto:paul.martens@brandweersxm.net">paul.martens@brandweersxm.net</a>	+5995-42-6669
	Louis D. Brown	Secretary General	Ministry of VROMI	<a href="mailto:louis.brown@sintmaartengov.org">louis.brown@sintmaartengov.org</a>	+599-520-7991
TCI	Dainer Franklyn-Lightbourne	Deputy Director (Ag)	Planning Department	<a href="mailto:DFLightbourne@hotmail.com">DFLightbourne@hotmail.com</a>	1-649-252-6974
	James Lewis Fritz	Deputy Director	Survey and Mapping Department	<a href="mailto:fritz141@hotmail.com">fritz141@hotmail.com</a> and <a href="mailto:jfritz@gov.tc">jfritz@gov.tc</a>	1-649-941-5416 1-649-232-1491





A T I O N

*Name of participant*

**for completing the R3i training workshop**

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**on**

**Introduction to GIS Concepts and its Applications in Hazard Mapping and Vulnerability Assessment**

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