

Understanding our islands: How to get the best out of our GIS and data.

## **UK Overseas Territories and Crown Dependencies Programme**

# **Understanding our islands: How to get the best out of our GIS and data.**

**Caribbean UK Overseas Territories Workshop Programme.**

**4<sup>th</sup> – 6<sup>th</sup> February 2015.**

To find out more about JNCC Overseas Territories and Crown Dependencies programme see <http://www.jncc.gov.uk/ukotcd/>

To find out more about the JNCC see [www.jncc.gov.uk](http://www.jncc.gov.uk)



**Contributes to the OT Biodiversity Data Access Project**

# Understanding our islands: How to get the best out of our GIS and data.

## Caribbean UK Overseas Territories Workshop Programme.

4<sup>th</sup> – 6<sup>th</sup> February 2015.

### Department of Environment and Marine Resources - Turks and Caicos Islands.

#### Aims

- To bring together GIS and data specialists from the Caribbean Overseas Territories to share experiences and expertise and to explore options and opportunities for synergy and collaboration.
- To build on the Data management / GIS Strategy discussions in Gibraltar to discuss use of GIS across all of the OTs/CDs; and to develop a GIS and data strategy identifying short term gains and longer term benefits.
- To understand how a GIS/biodiversity data management strategy needs to consider: Data, People and Systems<sup>1</sup>.
- To examine in depth where we are and how to move forwards towards an action plan to implement an OT GIS/data strategy and to take forward this best practice in each Island.

The key output from this workshop will be:

- Development of a GIS strategy and a practical work plan for each participating island to ensure effective, and increasing, GIS use and data management/access in addressing environmental management issues including identification of software, training and external support needs and how these should be met to include:
  - identification of specific applications of GIS in the OTs (for example habitat mapping, economic evaluation, development of management plans)

#### Information for participants

Before the workshop, regional participants (from Anguilla, Bermuda, BVI, Cayman and Montserrat) are required:

- to complete the [pre-workshop questionnaire](#)<sup>2</sup> by no later than Friday 23<sup>rd</sup> January 2015. Key components of this questionnaire required for the workshop preparation include:
  - emailing a list of spatial layers and biodiversity datasets that you hold (and/or your metadata catalogue) – (question 18 and question 52)
  - Identifying a list of specific issues that they have that they would like expert advice on at the workshop (question 16)
  - Identifying what you see as the main issues/risk/challenges you face around data/GIS (question 17)
- To prepare a case study to present at the workshop. You will see that your name is alongside one of the case studies in the programme. All power point presentations to be submitted to Tara Pelembe and Eric Salamanca by no later than Friday 30<sup>th</sup> January 2015.

All participants to bring a laptop.

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<sup>1</sup> Note: The people/data/systems model (Annex 1) will provide the framework for the workshop.

<sup>2</sup> <https://www.surveymonkey.com/s/BKLV83>

## Understanding our islands: How to get the best out of our GIS and data.

Wednesday 4<sup>th</sup> February – An overview and a focus on People

People	Data	Systems
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Setting the scene, the overall framework and focussing on the People part of the framework, identifying key users, providers, challenges, and potential options for solutions.

Time	Session title	Lead
08:30 – 09:00	Coffee and networking	
09:00 am – 09:30 am	Welcome, Introductions, the purpose of the workshop	TCIG + JNCC (Tara Pelembe)
09:30 – 09:45	Summary of TCI workshop	Roddy/Luc
09:45- 10:15	Summary from meeting in Gibraltar and Case study 1: brief overview of how Gibraltar uses GIS in environmental management.	Stephen Warr
<b>10:15 – 10:30</b>	<b>Break</b>	
10:30 – 10:50	A framework for a biodiversity data/GIS strategy: People, data and systems	Steve Wilkinson.
10:50 – 11:30	People and data – What people either input into or use your data and why?	Tara Pelembe
11:30 – 11:50	Case study: Using maps to communicate to officials and the public in Anguilla for the Anguilla National Ecosystem Assessment.	Calvin Samuel + Katie Medcalf.
11:50 – 12:30	Challenges – what are the main people challenges you face relating to data and data use.	Tara Pelembe
<b>12:30 – 13:30</b>	<b>Lunch</b>	
13:30 – 13:50	Case Study: The opportunities and challenges around data access and data sharing and data use. <ul style="list-style-type: none"> <li>• What systems are in place?</li> <li>• What works?</li> <li>• What are the main challenges?</li> <li>• Any other points to highlight.</li> </ul>	Rozina Norris-Gumbs
13:50 – 14:10	Case study: Example of bringing together people from a large number of organisations to share data.	Steve Wilkinson
14:10 – 14:30	Case study: Potential solutions to the ‘people challenge’ – the South Atlantic Overseas Territory example.	Illaria Marengo
14:30 – 15:00	Afternoon clinic – addressing the key challenges /training	ALL
<b>15:00 – 15:15</b>	<b>Break</b>	
15:15 – 16:00	Afternoon clinic – addressing the key challenges /training	
16:00 – 16:30	Key messages	ALL

## Understanding our islands: How to get the best out of our GIS and data.

Wednesday 4<sup>th</sup> February –Data

People	Data	Systems
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Looking at the data part of the framework, learning from each other by considering what data we need and why, and exploring options for solutions to key challenges.

Time	Session title	Lead
08:30 – 09:00	Coffee and networking	
09:00 am – 09:30 am	Welcome, and purpose of the day.	TCIG + JNCC (Tara Pelembe)
09:30 – 09:45	Why do we need data? What are the main drivers for you requiring data?	ALL
09:45- 10:15	Case study: What data you collect, what data is used, and what data you need.	Jeremy Olynik
<b>10:15 – 10:30</b>	<b>Break</b>	
10:30 – 11:00	What biodiversity and spatial data do we have?	ALL
11:00 – 11:20	Case study : <ul style="list-style-type: none"> <li>• Example of data sets from your OT, outlining what you use them for,</li> <li>• Example of an innovative/new use/technique.</li> <li>• How data has added value to policies</li> <li>• Anything else you would like to highlight about GIS/data management on your OT that works well/that is a challenge.</li> </ul>	Mandy Shailer
11:20 – 11:40	What biodiversity and spatial data do we need?	ALL
11:40 – 12:00	What are the data gaps and how do we prioritise and address them?	ALL
12:00-12:30	Example of data collated by a UK organisation: OT Bathymetry	Alan Evans
<b>12:30 – 13:30</b>	<b>Lunch</b>	
13:30 – 14:00	What are the main challenges you face?	ALL
14:00 – 14:20	Tools for managing data: Metadata catalogue	iLaria Marengo.
14:20 – 14:40	GIS - Demonstration: what GIS can do to address policy/planning questions	Katie Medcalf
14:40 – 15:00	Afternoon clinic: addressing the key challenges /training	ALL
<b>15:00 – 15:15</b>	<b>Break</b>	
15:15 – 16:00	Afternoon clinic: addressing the key challenges /training	ALL
16:00 – 16:30	Key messages.	Tara Pelembe

## Understanding our islands: How to get the best out of our GIS and data.

Friday 6<sup>th</sup> February: Systems and the strategy and action plan.

People	Data	Systems
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Looking at the systems part of the framework, learning from each other by considering best practice and finalising our outputs i.e. the Data/GIS strategy and action plan.

Time	Session title	Lead
08:30 – 08:35	Welcome and the purpose of the day	TCIG and JNCC
8:35-9:05	Case study: Our data management system, overview, strengths and challenges.	Rondell Meade
9:05-10:00	An overview of existing systems and how to make best use of them – including International species sources (e.g. GBIF)	Steve Wilkinson
10:00 – 10:15	Break	
10:15 – 10:45	SAERI – systems and issues in the south Atlantic (best practice)	iLaria Marengo
10:45-11:15	QGIS – a tool for bringing together data to feed into planning and decision-making.	Katie Medcalf,
11:15 – 12:30	QGIS – tricks of the trade: an example of drop of points for fisheries in the ocean around the Caribbean.	Katie Medcalf.
12:30 – 13:30	Lunch	
13:30 – 14:00	Data management/GIS strategy – the principles.	ALL (Tara Pelembe)
14:00 – 15:30	Action planning	ALL (Tara Pelembe)
15:30 – 16:00	Conclusions and closing remarks	

Saturday 7<sup>th</sup> February – Field Trip

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### Annex 1 – The framework: People, data, systems

	People		Data	systems	Tools
	Users	Providers			
OT-based		skills	partnerships		
		ArcGIS QGIS	Cross departmental /organisational working	Spatial data (e.g habitats + species)	central spatial data system (e.g. SHEIS) QGIS
		Access Excel		Non spatial data (e.g species)	central database (e.g. Biological records) access excel
		Access Excel		monitoring data	Central monitoring database access excel
International				Spatial data (e.g habitats + species)	central spatial data system - ALA
				Non spatial data (e.g species)	central database - GBIF
				monitoring data	OT monitoring database ??

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### Annex 2 – Participant list.

Name	Country	Organisation	Job title
Calvin Samuel	Anguilla	Government of Anguilla - Department of Environment	
Mandy Shaler	Bermuda	Bermuda Government	GIS Mapping Analyst
Rozina Norris- Gumbs	British Virgin Islands	BVI government - Conservation and Fisheries Department	Geographical Information Systems Officer
Jeremy Olynik	Cayman Islands	Cayman Islands Government - department of environment	Geographic Information Systems Officer
Illaria Marengo	Falklands	South Atlantic Environmental Research Institute (SAERI)	Project manager – GIS specialist
Stephen Warr	Gibraltar	Gibraltar Government	Senior Environment Officer
Rondell Meade	Montserrat	Montserrat Government	
Alexander MCleod	Turks and Caicos Islands	TCIG - DEMA	Environmental Officer-PLS, DEMA
Bryan Manco	Turks and Caicos Islands	TCIG - DEMA	Caicos Pine Project Manager, DEMA
Demarco Williams	Turks and Caicos Islands	TCIG -Survey and Mapping Department	Survey and Mapping Dept.
Eric F. Salamanca	Turks and Caicos Islands	TCIG - DEMA	Asst. Director for R&D, DEMA
Franklin Norton	Turks and Caicos Islands	TCIG -Survey and Mapping Department	Asst. Dir.,Survey and Mapping Dept.
Gervin Simmons	Turks and Caicos Islands	TCIG -Survey and Mapping Department	Survey and Mapping Dept.
Idi Gardiner	Turks and Caicos Islands	TCIG - DEMA	Senior Conservation Officer, DEMA
Katharine Hart	Turks and Caicos Islands	TCIG - DEMA	Environmental Officer-GDT, DEMA
Luc Clerveaux	Turks and Caicos Islands	TCIG - DEMA	Environmental Officer-XSC, DEMA
Mike Clerveaux	Turks and Caicos Islands	TCIG - Planning Department	Land-use Planner, Planning Dept.
Ricardia Pardo	Turks and Caicos Islands	TCIG - Disaster management and emergency	Disaster Management and Emergency
Rodney Smith	Turks and Caicos Islands	TCIG - DEMA	Conservation Officer, DEMA
Toriano Williams	Turks and Caicos Islands	TCIG - Planning Department	Asst. Director, Planning Dept,
Trevor Williams	Turks and Caicos Islands	TCIG - DEMA	Conservation Officer, DEMA
Alan Evans	United Kingdom	National Oceanographic Centre	Senior Scientist (UNCLOS)
Katie Medcalf	United Kingdom	Environment systems	Environment Director
Steve Wilkinson	United Kingdom	Joint Nature Conservation Committee	Head of Data Services
Tara Pelembe	United Kingdom	Joint Nature Conservation Committee	Senior Overseas Territories Adviser