

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.**

**Turks and Caicos Islands GIS and data Training Workshop  
Programme.**

**2<sup>nd</sup> – 3<sup>rd</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**

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Turks and Caicos Islands GIS and data Training Workshop Programme.

2<sup>nd</sup> – 3<sup>rd</sup> February 2015.

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

## Workshop aims:

- To understand the principles of data share and data management.
- To understand how GIS can be utilised by more staff in TCI to assist your day to day work.
- To introduce how open source solutions can work with Arc GIS and discuss advantages of having data available in a suitable form for all to access
- To demonstrate the use of GIS for policy analysis to include:
  - the way GIS can be effective in supporting the evaluation of the EIA
  - how to design ground-truthing for evidence evaluation
  - Consideration of modelling habitat suitability for different species .

## Information for participants

Before the workshop, participants are required:

- to complete the [pre-workshop questionnaire](#)<sup>1</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)

All participants to bring:

- Laptop which has QGIS 2.4 downloaded (NOTE: Eric Salamanca will circulate this programme for you to download onto your laptop before the workshop).
- A copy of your list of spatial layers and biodiversity datasets that you hold (and/or your metadata catalogue)
- A copy of your list of specific issues that they have that they would like expert advice on.

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<sup>1</sup> <https://www.surveymonkey.com/s/BKLJV83>

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

### Monday 2<sup>nd</sup> February: Why do we need GIS and how do we use it?

An introduction to and training in GIS.

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 – 10:00	Introduction to using GIS for viewing, exploring and modelling scenarios	Katie Medcalf.
<b>10:00 – 10:15</b>	<b>Break</b>	
10:15 – 10:50	Familiarisation with QGIS viewing data	Katie Medcalf iLaria Marengo
10:50 – 11:05 11:05- 11:30	GIS in Planning an overview practical doing simple analysis	Katie Medcalf
11:30 – 11:50	The Environmental Impact Assessment process in TCI -	Eric Salamanca
11:50 – 12:30	Using GIS for scenario planning	Katie Medcalf.
<b>12:30 – 13:30</b>	<b>Lunch</b>	
13:30 – 14:00	Practical session.	
14:00 – 14:20	Using GIS for planning field campaigns.	Steve Wilkinson
14:20 – 14:50	Practical session to include: <ul style="list-style-type: none"> <li>• sampling points</li> <li>• feeding in and cleaning GPS data</li> </ul>	iLaria Marengo
<b>15:00 – 15:15</b>	<b>Break</b>	
15:15 – 16:00	Practical session to include: <ul style="list-style-type: none"> <li>• Modelling habitat suitability.</li> </ul>	iLaria / Katie
16:00 – 16:30	Key messages	ALL

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### Day 2: Monday 2<sup>nd</sup> February - How to enable GIS use in the Turks and Caicos Islands.

#### Resources:

- All participants to bring laptop – GIS programme to be downloaded onto laptop during breaks/lunch (instructions circulated at beginning of meeting)
- List of layers to be produced so that all participants can see what spatial data is available for TCI.

Time	Session title	Lead
08:30 – 08:40	Welcome and introduction to the day	Tara Pelembe
09:00 am – 09:30 am	Practical demonstration of GIS use in planning from Anguilla National Ecosystem Assessment and the South Atlantic Environment Research Institute.	Katie Medcalf/Ilaria Marengo.
09:30 – 10:00	What do you need data for? What big questions/policy issues do you have that it would be good to have spatial data for? Who needs the data?	KatieMedcalf/Ilaria Marengo.
<b>10:00 – 10:15</b>	<b>Break</b>	
10:15 – 10:50	What TCI data do other organisations hold? Case study – National Oceanographic Centre	Alan Evans.
10:50 – 11:10	Tools for keeping track of who has what – case study: the metadata catalogue for the South Atlantic Overseas Territories	Ilaria Marengo.
11:10 – 12:00	Over to you – what data do you have? Towards a TCI metadata catalogue.	Tara Pelembe
12:00 – 12:30	What data that you currently have that could help answer some of the big questions?	Katie Medcalf.
<b>12:30 – 13:30</b>	<b>Lunch</b>	
13:30 – 14:30	Practical session. How to present the data – making maps.	Katie Medcalf/Ilaria Marengo.
14:30 – 15:00	Case study of a system are available for how the data can be accessed, shared etc. The South Atlantic Overseas Territories Information Management Centre.	Ilaria Marengo
<b>15:00 – 15:15</b>	<b>Break</b>	
15:15 – 16:00	Visioning – where would we like to be?	Tara Pelembe
16:00 – 16:30	Key messages	ALL

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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 – Provisional Participant list.

Name	Country	Organisation	Job title
Illaria Marengo	Falklands	South Atlantic Environmental Research Institute (SAERI)	Project manager – GIS specialist
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