

# Latest advancements in Remote Sensing and GI technologies

Tuesday 17th April (Morning Workshop)

Venue: Jag-U2 GIS Laboratory, UB Campus

## Programme

9:00 – 9:20 Registration.

9:20 Welcome on behalf of the University of Belize:  
Dr Ed Boles (NRMP)

9:25 Introduction to the workshops: Dr Neil Stuart

9.30 – 10.45 Workshop session 1  
Interpreting high resolution optical imagery of Belize

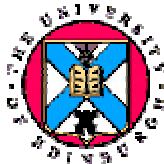
10.45 coffee break

11.00 – 12.30 Workshop Session 2:  
Interpreting airborne radar sensor data for Belize

12:30 Feedback from the workshops; closing remarks.

1:00 Lunch

In the afternoon, subject to demand, there is an opportunity for delegates to be given an informal introduction to mapping grade GPS equipment, including the Trimble GeoExplorer XH receiver, software for post processed differential correction and services for precise point positioning.



Please register at:

<http://www.eeo.ed.ac.uk/belize> or call (501) 822 3680 - 446

# "Remote Sensing and GIS needs for supporting conservation and management in Belize"

Seminar and associated Workshop



Monday 16th April (Seminar) and  
Tuesday 17th April 2007 (Workshop)



University of Belize Auditorium  
Belmopan, Belize

## Who should attend?

The seminar will allow a wide range of professionals in both public and private sectors to find out how remote sensing and GIS may provide information to assist with the conservation and management of natural resources in Belize.

The workshop will familiarise you with radar and high resolution optical imagery, letting you browse and begin to interpret example data sets that have been acquired by University of Edinburgh projects in Belize.

No previous experience using remote sensing or GIS is needed to attend either event, but there is a limit of 35 delegates for the computer workshop.

## Purpose

Together, the seminar and workshop will allow delegates to collectively:

1. Identify the information supplied by remote sensing and related geographic information (GI) technologies that would assist organizations in Belize to fulfill their conservation, land management or information dissemination responsibilities.
2. Understand how some of the latest technological developments in remote sensing, GIS and GPS could be deployed in Belize to support more effective conservation and management of natural resources.

## Outcomes

The main benefit of attending the seminar will be an increased understanding among environmental professionals in Belize about the potential of new developments in remote sensing, GPS and GIS. The seminar will allow resource managers to make contact with expert users.

## Sponsors

This FREE event is possible due to the generous sponsorship of the Royal Scottish Geographical Society and Scottish Executive.

# Remote Sensing and GIS needs for supporting conservation and management in Belize

Monday 16th April 2006 (One-day Seminar)

University of Belize Auditorium  
Belmopan, Belize  
**Programme**

9:00 – 9:30 Registration

9:30 Welcome to the University of Belize: Dr Corinth Morter-Lewis

9:45 Introduction: Purpose and goals for this seminar: Dr Neil Stuart

## 10:00 – 12:30 **Session 1: Geographic Information Needs for Conservation and Management in Belize**

1.1 Elma Kay, Leandra Cho-Ricketts, Ed Boles and Nicole Wulff (University of Belize) *“GIS needs of the Natural Resources Management programme at University of Belize”*

1.2 Percival Cho, (GoB Department of Forestry), *“Potential uses of RS, GPS and GIS for reliable, landscape level information on forestry”*

1.3 Mauro Gongora (GoB, Department of Fisheries) *“GIS needs for fisheries management in Belize”*

1.4 Peter Esselman (University of Michigan) *“Using geospatial and biological data to predict the risk of African Tilapia invasion in northern Mesoamerica”*

11:00 Coffee Break

1.5 Jan Meerman, (BERDS) *“Why Belizean organizations need to maintain and share up-to-date information on biodiversity”*

1.6 Emil Cherrington (CATHALAC) *“SERVIR: an integrated programme for monitoring the air, land and seas of Belize..”*

1.7 Edgar Ek (LIC) *“The proposed National Environmental and Geomatics Information System for Belize (NEGIS)”*

12:30- 14:00 pm Lunch

## 14:00 – 15:30 **Session 2: Appraisal of the latest remote sensing and GIS technologies.**

2.1 Karin Viergever and Tom Jaas (University of Edinburgh) *“High resolution optical sensor data of Belize from airborne and spaceborne platforms”.*

2.2 Iain Woodhouse, (University of Edinburgh) *“Developments in active remote sensing and potential applications in Belize”*

2.3 Duncan Moss and Neil Stuart (University of Edinburgh) *“Developments in GNSS and their implications for survey and mapping in Belize”*

15.30 Tea Break

## 15.45 **Session 3: parallel discussions**

*theme 1: matching data to information needs;*

*theme 2: building capacity for using RS/GPS/GIS in Belize;*

*theme 3: facilitating data sharing in Belize.*

16.30 Feedback from discussion groups

16:45 **Summing Up:** Peter Furley: (University of Edinburgh) *“Conservation and management of natural resources in Belize: a role for remote sensing and GIS?”*

17:15 Closing Remarks (Neil Stuart and Elma Kay)

17:30 Reception at British High Commission,  
Guest of Honour: Said W. Musa, Prime Minister of Belize.