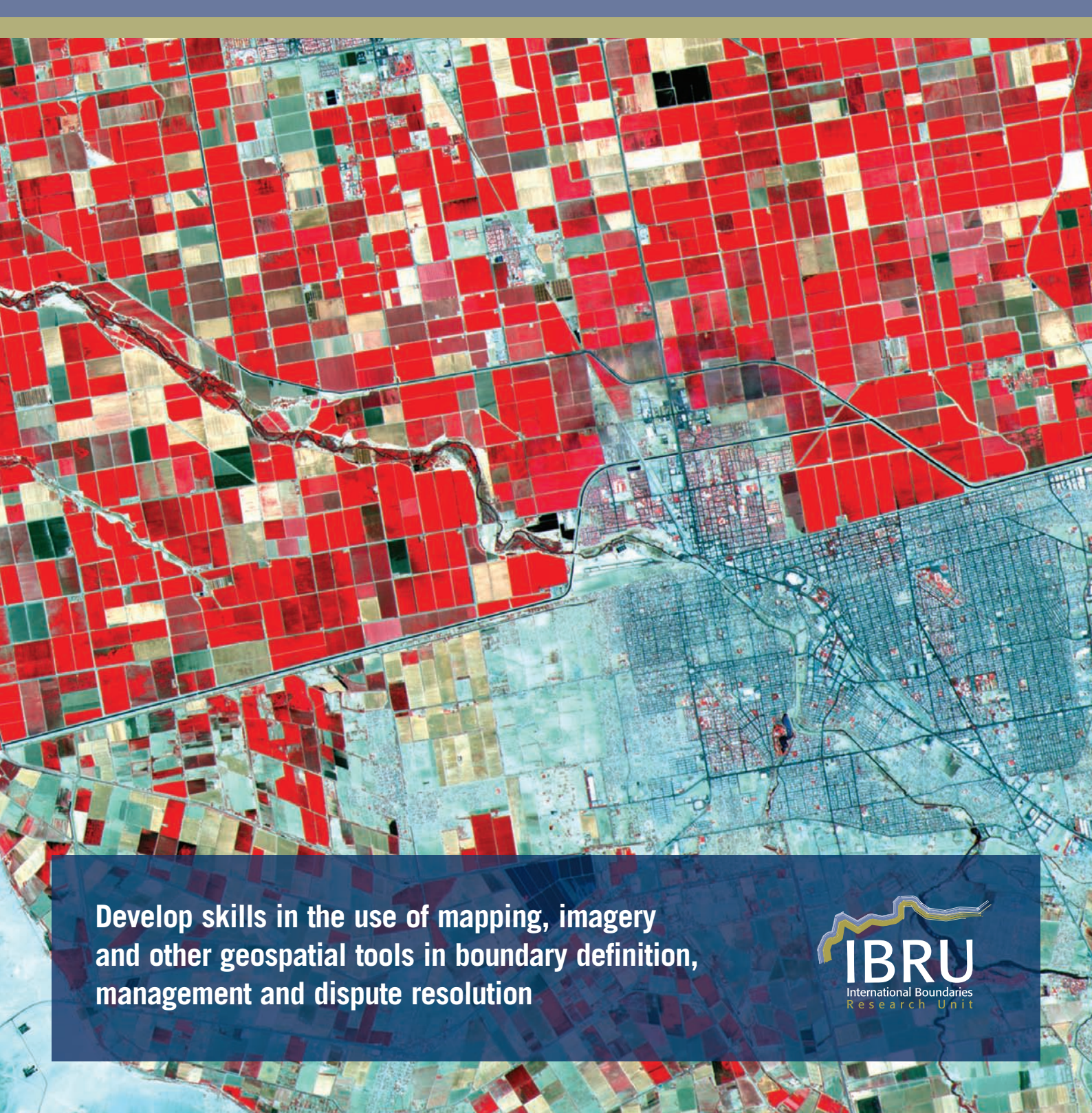


Training Workshop Programme 2011

Geographic Information in Boundary-Making & Dispute Resolution

11-13 July 2011, Durham University, United Kingdom



Develop skills in the use of mapping, imagery
and other geospatial tools in boundary definition,
management and dispute resolution



INTRODUCTION

Geographic information, particularly as presented on maps and charts, has always been central to the process of creating and managing international boundaries. Access to accurate geographical information does not guarantee that a boundary will be problem-free, but boundaries created on the basis of poor geographical information almost invariably become a source of friction and occasionally even armed conflict between states.

This workshop is designed to help boundary practitioners make the best use of geographical information in their work. The workshop will examine the use of maps, charts and other traditional sources of geographic information in boundary settings, and explore how modern Geographic Information Systems (GIS) can contribute to effective boundary creation, management and dispute resolution. The workshop will include hands-on exercises designed to allow participants to evaluate key geographic technologies and resources in a range of boundary-related settings.

Who should attend?

- Surveyors
- Cartographers
- Senior academics
- Diplomats
- Borderland resource managers
- Military attachés and border guard commanders
- GIS managers
- Legal advisors
- Boundary administrators

Tutors



Mr John Brown, Law of the Sea Consultant, UK Hydrographic Office began his sea-going career in 1974 and trained as a navigating officer. He joined the UK Hydrographic Office in 1993 after working as a surveyor in the offshore industry for several years. Since joining the Law of the Sea Division he has obtained an MA in International Boundary Studies from King's College London. John has advised several UK Government departments on Law of the Sea matters and is currently assisting with technical input to different strands of forthcoming UK maritime zone legislation. Recently he has acted as Technical Advisor for Nicaragua at the ICJ and is currently working with several foreign governments on delimitation issues. He lectures to senior Royal Navy professional courses, to postgraduate courses at King's College London and Lund University in Sweden and has been a faculty member of the IFLOS Summer Academy in Hamburg since 2008. He was elected a Fellow of the Royal Institute of Navigation in 2009.



Dr. John W. Donaldson, Senior Research Associate, International Boundaries Research Unit joined IBRU as a Research Associate in 2003. Since that time he has conducted map, chart and archive research, and utilised a range of GIS applications for analysis of land and maritime boundary issues. Among his published research, he created the International River Boundaries Database in 2006 and has collected information on over 1100 river boundary sections worldwide. He holds a PhD on local boundary demarcation in southern Africa, an MA in international boundaries from Durham University and currently serves as an advisor to the African Union Border Programme.



Professor Danny Donoghue, Geography Department, Durham University has a broadly based research profile that covers applications of remote sensing technology in the fields of spectrometry, forestry, coastal ecology, land use change and archaeology. He has developed processing methods for high spectral resolution optical imaging including a commercial image-processing package (T-Spectra). Recent projects include studies on the use of artificial neural networks for image processing, the study of airborne thermal infrared imagery for geology and archaeology, the use of declassified space photography and high spatial resolution imagery for archaeological prospection.



Mr Alastair Macdonald, former Director of Surveys and Production, Ordnance Survey, UK spent his whole career as a professional surveyor in the service of the UK Government. For 15 years he worked in the field in Africa and Southeast Asia before returning to UK to work for the Ministry of Defence. His final posting before retirement in 1992 was as Director of Surveys and Production at the Ordnance Survey, the national mapping agency of Great Britain. Since retirement he has advised the Governments of Nigeria, Ethiopia, Sudan and the Palestinian Authority on boundary-related matters. In 2009 Alastair was awarded an MBE for services to mapping and the resolution of boundary disputes in Africa.



Mr Ray Milefsky, Specialist, International Boundaries and Sovereignty Issues, Office of the Geographer and Global Issues, United States Department of State has served for ten years in his capacity as a lead geographic advisor to the US Department of State providing briefs, reports, and analyses to policy-makers on matters related to boundary, territorial, and sovereignty claims and disputes. He collaborates closely with the Department's Legal Bureau as well as government, commercial and international mapping and research organisations. He lectures regularly to various universities and institutions, and has briefed several heads of state on boundary matters.



Professor Martin Pratt, Director of Research, International Boundaries Research Unit has two decades' experience advising governments, commercial organisations and NGOs on land and maritime boundary issues around the world. Recent projects in which he has served as a geographical expert include the maritime boundary arbitration between Barbados and Trinidad and Tobago, the Abyei arbitration between northern and southern Sudan, and research in preparation for boundary negotiations in the Middle East. Martin coordinates IBRU's training workshop programme and consultancy activities; he also manages IBRU's website, the Unit's GIS resources and the *int-boundaries* email list. In 2010 Martin received the Michael Barrett Award of the Royal Institution of Chartered Surveyors for his contribution to boundary studies.



Professor Peter Vujakovic, Head of Geographical and Life Sciences, Canterbury Christ Church University has been involved in teaching and researching issues related to cartography since the 1980s. His areas of interest include: thematic map design, maps in geopolitics and national identity, maps and development education, and access mapping for people with disabilities. His main current focus is maps in the new media and their role in geopolitical and environmental discourse. He has been editor of the *Cartographic Journal* (British Cartographic Society / BCS) an official publication of the International Cartographic Association and Chair of the BCS Publications Committee. He is currently co-convenor of the BCS Map Design Special Interest Group.

PROGRAMME

| | | |
|--------------------------|---|---|
| Monday 11 July | 0900-0945 | Introduction <ul style="list-style-type: none">• The process of boundary-making• The role of geographers in boundary-making and dispute resolution |
| | 0945-1100 | Sources of geographic information 1: maps and charts <ul style="list-style-type: none">• Types of map• The science and art of cartography• The significance of coordinate systems, scale and projection |
| | 1100-1130 | Refreshments |
| | 1130-1300 | Sources of geographic information 2: remotely-sensed imagery <ul style="list-style-type: none">• Types of imagery• Uses of remotely-sensed imagery in boundary work• Acquiring and interpreting imagery |
| | 1300-1400 | Lunch |
| | 1400-1530 | Geographic information in land boundary definition <ul style="list-style-type: none">• Treaty interpretation and boundary 'recovery'• Geographical support for boundary negotiators• Using maps and imagery in boundary demarcation• Mapping international boundaries |
| | 1530-1600 | Refreshments |
| 1600-1700 | Practical exercise <ul style="list-style-type: none">• Using maps and imagery to identify uncertain boundaries | |

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|---------------------------|---------------------|--|
| Tuesday 12 July | 0900-1045 | Geographic information in maritime boundary delimitation <ul style="list-style-type: none">• Geographic aspects of maritime jurisdiction• The use of nautical charts and other sources of geographic information in delimiting maritime limits and boundaries• The role of the technical expert in maritime boundary delimitation |
| | 1045-1115 | Refreshments |
| | 1115-1230 | GIS tools and datasets for international boundary work <ul style="list-style-type: none">• Software for boundary definition and analysis• Free and commercial datasets |
| | 1230-1330 | Lunch |
| | 1330-1700 | Practical exercises <ul style="list-style-type: none">• Computer classroom-based exercises with GIS software and datasets |
| (1530-1600) | Refreshments | |

| | | |
|-----------------------------|--------------|---|
| Wednesday 13 July | 0900-1030 | Geographic information in third-party boundary dispute resolution <ul style="list-style-type: none">• The evidentiary value of maps• Other geographical evidence• Presenting geographical information to courts and tribunals |
| | 1030-1100 | Refreshments |
| | 1100-1230 | Geographic information in border management and cross-border conflict resolution <ul style="list-style-type: none">• Integrating geographic aspects of border management• Analysing cross border land use conflicts/environmental damage/resource problems• Analysing the territorial implications of an ethnic conflict• Future directions for using geospatial tools for assisting conflict mediation |
| | 1230-1300 | Wrap-up |
| 1300-1400 | Lunch | |

IBRU reserves the right to modify the programme as necessary without notice to participants

Cover image: Satellite imagery reveals dramatic variations in land use and irrigation across the Mexico-USA boundary in the vicinity of Calexico-Mexicali (Image courtesy of NASA/GSFC/MITI/ERSDAC/JAROS and the US/Japan ASTER Science team)

What will it cost?

The cost of the workshop will be **£1,650** per participant. Fees for UK-based participants are normally subject to VAT of 20%.

We regret that payment can only be accepted in GBP sterling, however, we are able to accept payment by most major credit and debit cards.

Full payment MUST be received prior to the workshop to guarantee the booking. If full payment is not received before the deadline date of **1 July 2011**, any provisional places booked will be removed. Bookings made after 1 July 2011 will only be guaranteed with payment in full and if places are still available.

In addition to tuition and all course materials, the fees cover the following:

- Accommodation in a single en-suite room at Collingwood College for the nights of 10, 11 and 12 July
- Evening dinner on 10, 11 and 12 July
- Breakfast, lunch and refreshment breaks on 11, 12 and 13 July

Accommodation for additional nights can be booked through IBRU, subject to availability.



Collingwood College



The historic City of Durham

How to book

Places are limited and early booking is highly recommended:

- 1 Contact the IBRU Events Team or complete the online booking form at www.durham.ac.uk/workshops/booking
- 2 Acknowledgement of the provisional booking will be sent by email with information on how to pay.
- 3 If payment is not received by the deadline specified, the reserved place will be cancelled and your booking removed to a waiting list. Your place will only be confirmed when payment is received and if a place is still available.

Additional Information

Venue and travel

Workshop accommodation and teaching will be based at Collingwood College which is part of Durham University and located approximately 20 minutes walk from the city centre. Full details of the venue will be sent to participants following payment and confirmation of the booking.

Durham is located in north east England, about 250 miles north of London. It lies on the main road and rail lines between London and Edinburgh, and nearby airports offer frequent connections to London Heathrow, Paris and Amsterdam.

Language

Teaching and workshop materials will be in English. We regret that we are unable to provide translation or interpreting services.

Cancellations

Cancellations must be received in writing not later than the 1 July 2011 and will be subject to a £50 cancellation fee, unless a substitute participant is offered. After this date the full registration fee will be charged for all cancellations.

Programme changes

IBRU reserves the right to modify the programme as necessary without notice to participants.



Contact Information

If you have any questions about the workshop please contact the IBRU Events Team.

International Boundaries Research Unit, Department of Geography,
Durham University, DH1 3LE, United Kingdom

Tel: +44 (0)191 334 1961 Fax: +44 (0)191 334 1962

Email: ibru-events@durham.ac.uk

Web: www.durham.ac.uk/ibru/workshops