

CoastGIS 2005 Chairman's Welcome

As Chairman of the CoastGIS 2005 Symposium and Exhibition, I would like to extend a warm welcome to all delegates to Aberdeen, Scotland, UK.

Aberdeen is an ideal location for CoastGIS 2005 with its long coastal and maritime history, most notably the fishing industry and more recently as the Oil capital of Europe, additionally this event was last hosted here in Aberdeen in 1997.

Today coastal and marine research is a major activity of universities, research institutions, companies, consultancies and government agencies located both in and around Aberdeen City. The North East of Scotland is also fortunate in having some of the most beautiful and dynamic coastlines and beaches in Europe, a unique coastal heritage trail through the history of fishing and oil, as well as several maritime museums, harbours, and estuarine wildlife habitat.

The theme of the conference this year: *Defining and Building a Marine and Coastal Spatial Data Infrastructure*, is of vital importance to all coastal and marine research and applications as a means to share disparate data and information, strengthen co-operation between coastal communities, enhance existing networks, develop new alliances, and to foster better channels of communication. The scientific paper programme is complemented by a number of workshops and local site visits within Aberdeen, as well as social events and a small exhibition.

CoastGIS 2005 has been very kindly supported by Aberdeen City Council (ACC), as the main Symposium sponsor as well as hosting the Civic Reception, the National Oceanic and Atmospheric Administration (NOAA), Aberdeen Exhibition and Conference Centre (AECC), Aberdeen Convention Bureau, Aberdeen and Grampian Tourist Board, the University of Aberdeen, Centre for Marine and Coastal Zone Management (CMCZM), and the Aberdeen Institute for Coastal Sciences and Management (AICSM).

I would like to take this opportunity to thank everyone who has contributed to make CoastGIS 2005 a success in Aberdeen. Firstly, I would like to thank everyone at AECC (Brian Horsburgh, Victoria Withy, and Emily Wilson in particular) who have all worked tirelessly to assist in the organisation, management and smooth running of the event. Secondly, I would like to thank all the delegates who have taken time out of their busy schedule to produce a paper or poster paper and to travel to Aberdeen. Your time and effort is very much appreciated by everyone.

I do hope that you will find the CoastGIS 2005 programme of events interesting and stimulating, as well as finding some time to explore the scenery along the coast or inland, or to take in one or more Scottish castles, try a 'wee dram', or even play a round of golf! Aberdeen is blessed with being in close proximity to the beautiful landscapes of Royal Deeside and Balmoral Castle, castle country, golf courses, and the whisky trail providing a unique opportunity for sightseeing and to enjoy the fresh air and scenery of Scotland.

As always, the CoastGIS Symposium and Exhibition offers a unique international coastal forum to present, exchange and discuss ideas, to hear about scientific and applications-based research, and case studies from around the World, education and training opportunities, and of course a chance to meet up with old friends, make new ones and simply to enjoy the company of fellow coastal scientists, managers and practitioners from around the world.

Welcome to Aberdeen, Scotland, and CoastGIS 2005.



A handwritten signature in dark ink, appearing to read 'David R. Green', written in a cursive style.

David R. Green

Chairman, CoastGIS 2005 Symposium and Exhibition
Centre for Marine and Coastal Zone Management
Department of Geography and Environment
School of Geosciences, College of Physical Sciences
Elphinstone Road, Aberdeen, AB24 3UF, Scotland, UK

Message from CoastGIS 2005 Symposium Sponsor Aberdeen City Council



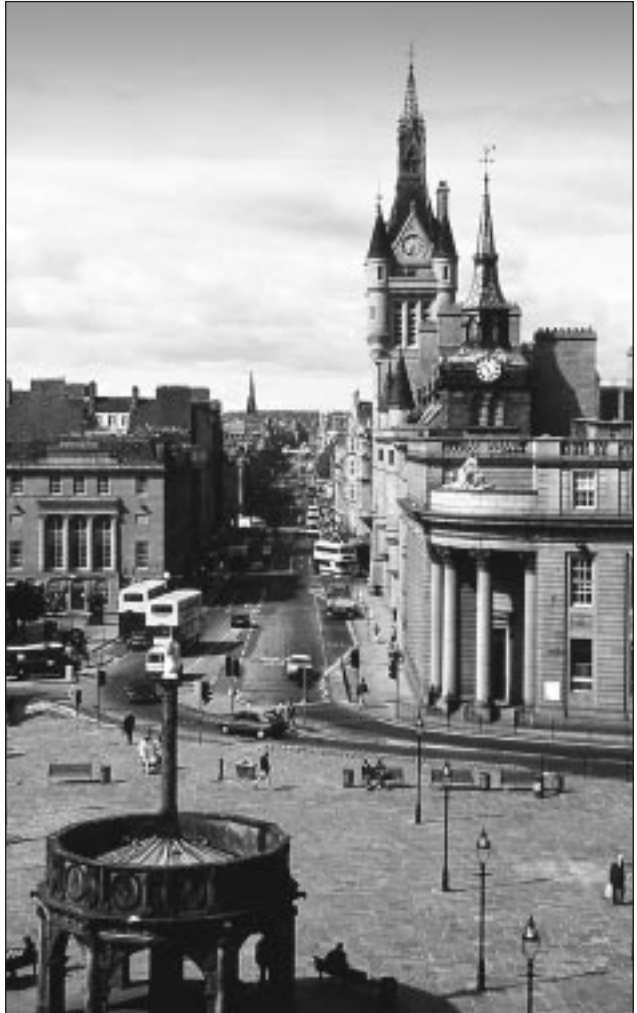
ABERDEEN
CITY COUNCIL

Aberdeen City Council is proud to support CoastGIS 2005 in Aberdeen from 21-23 July 2005.

Hosting this prestigious event in the Maritime and Coastal Zone Management calendar offers an unrivalled opportunity for the city and the North East of Scotland to showcase the knowledge and expertise that exists in the region to an international audience of coastal researchers, managers and practitioners from this industry sector.

The region is proud of its Maritime heritage and is keen to support the development of expertise that will protect our marine environment in future years.

A warm welcome to all symposium delegates.



CoastGIS2005 Congress Theme and Aims

CoastGIS 2005 is the Sixth International Symposium on GIS and Computer Cartography for Coastal Zone Management, attracting an international audience of coastal researchers, managers and practitioners who use one or more of the geospatial technologies, and related industry.

Theme:

Defining and Building a Marine and Coastal Spatial Data Infrastructure

Aims:

Following on from CoastGIS 2003 in Genoa, CoastGIS 2005 seeks to build upon the overall theme of CoastGIS 2003 and the conclusions arising from the final plenary session. Some of the key points highlighted by different members of the Scientific Committee include the following: We need political champions to help guard our interests in seeing that coastal information needs are not forgotten as larger national and regional (trans-national) spatial data infrastructure (SDI) frameworks are created; GIS in the coastal zone is certainly about supporting science work, but there are also non-scientific and non-technical issues to be considered; Data usability is a key concern and continues to require both research and information management focus for continued development of ways to harmonise data for wider use; Information infrastructure developments are needed that permit easier discovery of existing data and use of data once located, in a variety of forms, from multiple data owners or custodians. We need to find ways to engage stakeholders (data creators, custodians and users) even more widely in the data management and access issues.

Comprising data, metadata, computer networks, communication and access mechanisms, information technologies, policies and standards, and institutional arrangements, spatial data infrastructures are *fundamental* to our requirements to gather, store, process, analyse and use geospatial data. Furthermore, they facilitate access to, and the sharing of, disparate spatial data sources.

Management of coastal and marine problems is largely spatial in nature. Coastal and marine spatial data infrastructures are therefore becoming increasingly important as a means to facilitate access to accurate and up-to-date spatial data and also to provide for effective management. Seamless integration of the terrestrial, coastal and marine datasets is also seen as vital to facilitate integrated coastal management.

For the coastal GIS community, comprising researchers, administrators, users, data custodians and citizens, there is now a need to establish formal links between existing spatial data infrastructure initiatives, and to promote knowledge and understanding to non-GIS and non-coastal specialists, addressing the responsible stakeholders in government, commerce, and industry.

The CoastGIS 2005 Symposium therefore seeks to stimulate an environment in which greater knowledge, understanding, and an appreciation of spatial data and spatial data infrastructures for coastal and marine management can be developed.

Aberdeen - The Granite City

The 'Granite City' is the capital of Grampian Highlands and is famous for its sparkling granite buildings, well preserved history and North Sea oil. It is the gateway to Scotland's castle and whisky country and is home to more castles than any other area in the UK. Aberdeen has one of Scotland's most striking skylines, and the granite buildings give the city its distinctive look, whilst old Aberdeen and the fishing village of Footdee, have an indelible air of a bygone era. It was in Old Aberdeen that Bishop Elphinstone established Aberdeen's first university, Kings College, in 1495. In 1593 Aberdeen's second university was founded - at a time when there were only two in the whole of England. These two colleges united in the 19th Century to form the present day University of Aberdeen - the hosts of the CoastGIS 2005 Congress.

Aberdeen and the Grampian Highlands is perhaps one of the most culturally distinct areas in the country. Aberdeen is a vibrant and cultural city with breathtaking architecture, colourful parks and gardens, a variety of shops, bars and restaurants and is full of welcoming charm.

As befits the regional capital, Aberdeen is a prosperous city with an international well-

travelled population. Aberdeen is a city of many names and it's easy to see how it gets its most popular one – The Granite

City. The glory of granite is around you. The impressive turreted Town House in Union Street, the castellated Citadel at The Castlegate and the striking Marischal College – the worlds second largest granite structure.

You'll find a cosmopolitan metropolis here – home to five star visitor attractions, such as the Gordon Highlanders Museum and the Maritime Museum, which tells the story of Aberdeen's relationship with the sea from fishing to ship building and then the oil industry. Awarded 'Scottish Museum of the Year' in 1997 this thoughtfully designed steel and glass building links Provost Ross' House – the second oldest dwelling house in Aberdeen – with the former Trinity Church, the resulting imaginative construction winning it two major architectural awards.

The old planned fishing village of Fittie (or Footdee, to give it its Sunday name) and the busy harbour area still gives a flavour of what Aberdeen is all about. Fittie has preserved the atmosphere

Marischal College



King's College



Castle Fraser

of times gone by. All the cottages face inwards in squares for protection from the elements and they still have the poles where the fishing nets were hung out to dry. Wander to the waterfront close by and watch today's harbour traffic. Across the harbour the Torry Battery – an old sea front fort – gives the best panoramic view across Aberdeen.

Aberdeenshire is very much Scotland's "Castle Country" and 13 of the region's finest castles and great houses are located along Scotland's only Castle Trail. Haddo House, and Tolquhon Castle are the eastern gateways of a route that takes in Castle Fraser, Duff House at Banff, Corgarff Castle, Craigievar Castle, Fyvie Castle, Leith Hall, Kildrummy Castle, Drum Castle, Crathes Castle, Huntly Castle and Delgatie Castle. A lesser known feature of Scotland's North East is the fact that 10% of Scotland's Standing Stones are to be found here. Archaeolink, Scotland's prehistory park, interprets the early history of Grampian and promotes a journey through time for all ages.

Royal Deeside has many attractions associated with Queen Victoria and a succession of British monarchs. There are many well known sites in this part of the region along the Victorian Heritage Trail including Balmoral Castle – home to royalty for 150 years, Crathie Church, Royal Lochnagar Distillery and Loch Muick. You can also visit the restored Old Royal Station at Ballater – which marked the end of the Aberdeen-Ballater line, which was axed in 1966. The Waiting Room built for Queen Victoria has survived almost intact – and the Station and Tourist Information Centre is an excellent orientation point for Deeside.

(With thanks to the Aberdeen and Grampian Tourist Board).

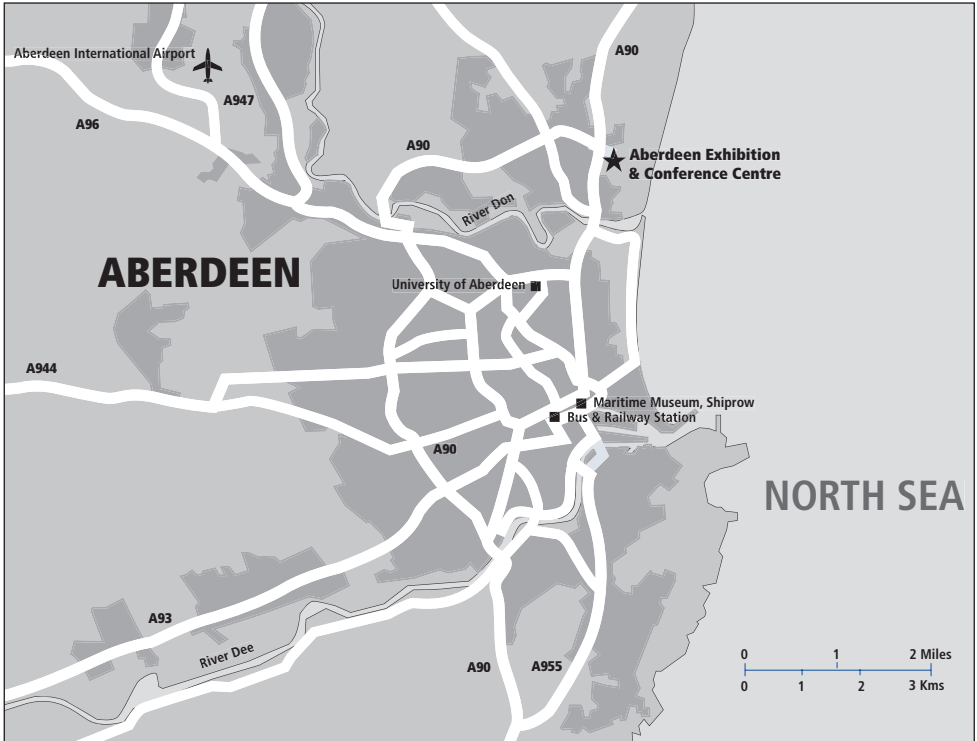


Mercat Cross



Traditional whisky distillery

Aberdeen Map and Key Venues



CoastGIS

CoastGIS is an annual series of symposia that brings together practitioners and researchers in the field of marine and coastal Geographic Information Systems (GIS), remote sensing, and computer cartography. CoastGIS is held under the auspices of the ICA's Marine Cartography Commission and the IGU's Commission on Coastal Systems.



For more information about the CoastGIS series of symposia, contact: coastgis@is.dal.ca.

Symposium Information

Registration and Information Desk

The CoastGIS 2005 Registration Desk is located outside the Gordon Suite at the Aberdeen Exhibition and Conference Centre (AECC) and is open as follows for registration and general enquiries:

Thursday 21 July 08.00 – 20.00hrs
Friday 22 July 08.00 – 16.00hrs
Saturday 23 July 08.00 – 11.30hrs

Venue and Room Locations

The CoastGIS 2005 Symposium technical programme will be located at the Aberdeen Exhibition and Conference Centre (AECC), Bridge of Don, Aberdeen AB213 8BL. Tel: 01224 824 824.

All sessions (including Workshops) will be held in Gordon B, and will be sign posted from the Main Concourse and entrance of AECC.

Lunches and morning and afternoon refreshments will be held in Gordon A, along with the Exhibition, Posters and Internet Café.

Facilities will be available for speakers to review their presentations before handing them to the AV Technician. Please see staff at the CoastGIS 2005 Registration Desk.

All rooms will be clearly signposted from the Main Concourse and entrance of AECC.

Contact Numbers

The Aberdeen Exhibition and Conference Centre (AECC) can be contacted on +44 (0) 1224 824 824. The main contacts for CoastGIS 2005 are Victoria Withy and Emily Wilson (CoastGIS 2005 Secretariat).

General Information

a. Abstract Book and CD Rom of Proceedings

An Abstract Book and CD Rom of Full Papers presented at CoastGIS 2005 are included in your delegate pack.

b. Accommodation

If you have an enquiry regarding accommodation please ask to be put in contact with the Aberdeen and Grampian Convention Bureau via the CoastGIS 2005 Registration Desk.

c. Assistance during CoastGIS 2005

Should you require any assistance at any time during CoastGIS 2005, please see the staff at the CoastGIS 2005 Registration Desk (located outside the Gordon Suite, AECC) or phone Victoria Withy (CoastGIS 2005 Symposium Secretariat) on 07811 368 577/01224 330 428.

d. Bank Machine

There is a Cash Machine located in the AECC's main Concourse. A branch of the Bank of Scotland and a Cash Machine are located on Ellon Road, a short walk from AECC.

e. Chairpersons

Chairpersons should arrive well in advance of the start of each session, and should introduce themselves to the speakers in their session. Please ensure that the session starts and ends on time. If there are speakers missing from the session, delayed in reaching the session, or presentations finish early, please use the time to encourage questions and discussion.

Housekeeping information may be passed to you prior to, or during, a session. Please make sure that important ones (such as fire and safety information) are read out at the start of the session, and any reminders or changes to the programme are read out at the end of the session. Please request that ALL electronic devices (especially mobile phones) are turned off completely at the start of the session.

An AV Technician will be in the room throughout the session to ensure that the technical aspects run smoothly. For any other assistance that you may require, please contact Victoria Withy at the CoastGIS 2005 Registration Desk.

f. Internet Café

The Internet Café is located in the Gordon Suite along with the Exhibition, Catering and Posters. You are welcome to use this at any time between 08.30 and 18.00 on Thursday 21 July, between 08.30 and 16.00 on Friday 22 July and 08.30 – 11.00 on Saturday 23 July 2005. In addition, the AECC is a Wireless LAN venue, and you can connect and purchase time online at: www.freelan.plc.com.

g. Language

The official language of CoastGIS 2005 is English and **all presentations must be given in English**. No simultaneous translation service is available.

h. Lunch and Refreshments

Tea and coffee are available during scheduled breaks throughout the Symposium in Gordon A at the AECC. Lunches are also included in the registration fee for each of the two full Symposium days (Thursday and Friday, but not Saturday).

The Café in the AECC will be open from 08.30 until 16.00 on Thursday and Friday for delegates to purchase refreshments etc.

i. Messages

Messages received by the organisers for delegates will be left on a message board adjacent to the CoastGIS 2005 Registration Desk. Messages between delegates may also be left on this board.

j. Mobile Phones

Please ensure that your mobile phone/pager etc is turned off or to silent during all sessions.

k. Pre and Post Congress (and Accompanying Persons) Tours

Sue Heard of 'Discovering Royal Deeside Tours' will have a desk beside the CoastGIS 2005

Registration Desk at AECC for any last minute bookings on tours. Availability cannot be guaranteed and all tours are subject to minimum numbers.

l. Posters

Posters must be up on display in Gordon A (within the exhibition) by 10.30 on Thursday 21 July 2005 kept on display for the duration of the Symposium, and removed by 11.00 on Saturday 23 July 2005. Any posters remaining after this time will be removed and disposed of.

Please note that you MUST use hook Velcro to attach you poster NOT pins, bluetak etc. Please contact the CoastGIS 2005 Registration Desk for Velcro.

m. Security

Please wear you badge (which will be issued to you when you arrive at the CoastGIS 2005 Registration Desk at AECC) at all times. Entrance to all sessions, and to lunch etc will not be permitted to those without a badge. Please note that accompanying people are not permitted access to any scientific sessions or into the Gordon Suite (for breaks, lunches etc).

Delegates are advised to look after their own belongings, neither the organisers of CoastGIS 2005 nor the AECC can be held responsible for any loss.

n. Smoking

AECC is a NO SMOKING zone, and any delegates wishing to smoke should leave the Centre via the Main Entrance at the front of the AECC. Delegates MUST NOT leave by any of the Fire Doors unless the Fire Alarm sounds.

o. Social Events

THURSDAY 21 JULY – CIVIC WELCOME RECEPTION Hosted by Aberdeen City Council
19.00 – 20.30 Gordon A, Aberdeen Exhibition and Conference Centre
Business attire

The Lord Provost of Aberdeen and Aberdeen City Council are kindly hosting a Civic Reception (drinks and finger buffet) for all CoastGIS 2005 Delegates on Thursday 21 July in Gordon A at the AECC with the Exhibition and Posters. This evening provides an opportunity to meet old (and new!) friends.

Following the reception, delegates are required to make their own way back to their hotels. Taxis can be phoned directly from the AECC's Main Reception. Delegates are then free to sample some of Aberdeen's restaurants in the City centre.

FRIDAY 22 JULY – SYMPOSIUM DINNER

1930 for 2000 – 2230 (approx.) Crombie Suite, AECC Business attire

The Symposium Dinner will be held in the Crombie Suite at AECC. This evening promises all a taste of Scottish hospitality, whisky and cuisine, along with a chance to relax and discuss all aspects of GIS with other delegates.

Entry is by pre-purchased ticket only and these will be collected at the door. A very limited number of tickets may be available for purchase (£50.00 incl.VAT per ticket) from the CoastGIS 2005 Registration Desk on Thursday, however availability cannot be guaranteed.

Following the dinner, delegates are required to make their own way back to their hotels. Taxis can be phoned directly from the AECC's Main Reception.

p. Speaker's Presentations and Briefings

All oral presentations will be given at the time stated in this programme. If a speaker fails to arrive, their slot will not be filled, and the next presentation will begin at the stated time.

All presentations must be handed in (on CD Rom, DVD or Memory Stick) at the CoastGIS 2005 Registration Desk the evening prior to (for morning sessions) or by 1300 on the day of (for afternoon sessions) the presentation. **Presenters will not be allowed to use their own laptops to present from.**

q. Taxis and Buses

Taxis can be ordered by using the Taxi Phone at the AECC's Main Reception Desk. The 'Park & Ride' bus passes the AECC every 15 minutes (until 18.05), which will take you along King Street into the City centre. The bus stops are a short walk from AECC.

r. Tourist Information

There is information about Aberdeen and its environs included in your delegate pack. If you require any further information please contact the Aberdeen and Grampian Tourist Board, Corner of Union Street and Ship Row, Aberdeen. Telephone 01224 288 828; Email: info@agtb.org

s. Transportation

Please note that delegates will need to make their own way to and from the airport/train station etc, as well as to and from their hotels each day as **there will NOT be any transport provided by the Symposium organisers.**

The only exception will be on Friday 22 July, when those who have signed up for the Walking Tour of Historic Aberdeen and a visit to Aberdeen Maritime Museum will be taken into the City from AECC by mini-bus and returned to AECC following the visit.

t. Walking Tour of Seventeenth Century Aberdeen and visit to Aberdeen Maritime Museum on Friday 22 July. From 15.00hrs – 17.00hrs.

The tour starts in the Tolbooth, the 17th century gaol for the Royal Burgh, and takes in a brief tour of the cells there, including the original shaft of the 17th century Mercat Cross in the Tolbooth.

Leaving the Tolbooth we move to the Guestrow plaque en route to Provost Skene's House. Having taken in the history of Skene's house we move to the back door of the Maritime

Museum to see the little known carved Burnet stone and finally then to the front of the Maritime Museum to talk about the history of Provost Ross' House and the Shiprow port (or gate). Participants are then free to visit the Maritime Museum.

Places are limited to a maximum of 20 people and will be allocated on a 'first-come, first-served' basis – please book at the CoastGIS 2005 Registration Desk on Thursday.

u. Wheelchair Access

Aberdeen Exhibition and Conference Centre is fully accessible by wheelchair users.

Workshops

NOAA Workshop: GIS for Assessing Risk and Vulnerability

(Chairperson: David R. Green)

Speaker: Cindy Fowler, NOAA



The purpose of this workshop is to help coastal resource and emergency managers use the Community Vulnerability Assessment Tool (CVAT) to assess a community's risk and vulnerability to hazards, including floods, hurricanes, and earthquakes.

By the end of the course, participants should be able to:

- Know and utilise a systematic process to conduct a comprehensive risk and vulnerability assessment
- Identify steps communities can take to lessen impacts from a disaster
- Understand the role of the community in conducting a risk and vulnerability assessment

PCI Workshop: Turn Imagery into Answers (Chairperson: Iain MacInnes)

Speaker: Iain MacInnes, PCI

The workshop will focus on the COASTCHART mapping project and developments at PCI Geomatics for turning spatial data into information with the upcoming release of Geomatica 10, a series of tools which will help to turn images into answers.



Coastchart

The COASTCHART project, led by LogicaCMG, is entirely funded through the Data User Element (DUE) of the European Space Agency's (ESA) Earth Observation Envelope Programme (EOEP). Once completed, the project will allow for the delineation of 6,000 kilometers of Western African coastline, and will also enable standard navigation charts to be updated from space-based observations.

ESA's COASTCHART project aims to develop and qualify a coastline information system that provides satellite-derived coastal maps suitable for operational use by hydrographic organisations. Through Geomatica, PCI Geomatics is providing LogicaCMG with the core

image processing, image interpretation, Web mapping, and GIS-based cartographic chart environments for the COASTCHART system. Geomatica, the image processing, spatial analysis, and mapping tool suite created by PCI Geomatics, will be crucial for the COASTCHART system. Through Geomatica's software development kit, spatial data from multiple sources will be processed and integrated, allowing the COASTCHART system to function efficiently.

PCI Geomatica 10

Geomatica 10 presents new technologies which will change the way spatial data is processed and analysed. New features for Coastal Zone Management include semi-automated vector extraction from imagery. This revolutionary technology quickly extracts feature lines and polygons from a wide variety of remotely sensed images. In addition, the ortho-mosaic process is now available in components, allowing the scripting and batch-processing of workflows previously only available through step-by-step GUI input. New to Geomatica 10 is an Extract, Transform, Load and Modeling tool for populating and exploiting Oracle 10g Spatial GeoRaster databases, thus placing Geomatica at the forefront of spatial tools for enterprise-scale databases.

Oceans 21: The Role of GIS and Geographical Data in Mediterranean Tsunami
(Chairperson: David R. Green)

Oceans 21- GIS for Coastal Management and Coastal Education is a co-operative programme of the Intergovernmental Oceanographic Commission (IOC) and the International Geographical Union (IGU).



The Objective: to develop useful concepts, methods and techniques in integrated coastal management for coastal managers and planners, with special consideration of the developing coastal environment and with education and training as cardinal operational arenas.

This workshop will be structured as follows:

1. Introduction to Oceans 21 - David R. Green, University of Aberdeen
2. Mediterranean Tsunami - Alastair Dawson, AICSM, University of Aberdeen
3. Oceans 21 and Other Initiatives - Roger Longhorn

MOTIVE Workshop: Land-Sea-Air Data Integration for Coastal Stakeholders
(Chairpersons: Roger Longhorn and Keiran Millard)

Speakers: Rodger Longhorn (IGD, UK) and Keiran Millard (HR Wallingford, UK)



The aim of the workshop is to inform coastal and marine data creators, custodians and users about:

1. The expected benefits to users from more harmonised access to, and use of, coastal and marine data across multiple disciplines, underpinned by core reference data defined by the EU's proposed INSPIRE initiative (Infrastructure for Spatial Information in Europe).

2. The advantages and limitations of applying open source tools for coastal data management, especially in regard to globally recognised OGC (Open Geospatial Consortium) interoperability specifications, including a hands-on demonstration of marine related Web services.
3. Introducing “Use Case” templates to collect standardised data for future analysis of cost-benefit parameters of participants’ current and future projects - a must when seeking new (or renewed!) funding for projects.
4. Implementing rules for coastal/marine geospatial data infrastructures at organisation level.
5. How workshop attendees can more fully participate in the OGC open source specification process and application of the OGC Reference Model for interoperability, e.g. participation in OGC SIGs (special interest groups) and WGs (working groups).
6. Introduction to the EU-funded special support action MOTIIVE (Marine Overlays on Topography), which is examining interoperability methods and tools, and the associated cost benefit, of using non-proprietary data standards for coastal and marine applications.

The overall goal for the workshop is to educate participants in data harmonisation and integration technologies and techniques, and to gain their active support for the EU funded project MOTIIVE and related projects at EU regional and national level.

Symposium Programme

COASTGIS 2005 SYMPOSIUM PROGRAMME

All sessions will be held in Gordon B at AECC.

Thursday 21st July 2005

08.00-09.00 Registration and Coffee

09.00-10.30 Opening Plenary
Welcome to CoastGIS 2005, Aberdeen, and University of Aberdeen

- 09.00-09.10 David R. Green, Chairman CoastGIS 2005 Symposium and Exhibition
- 09.10-09.20 Professor David Macdonald, Head of School of GeoSciences, University of Aberdeen
- 09.20-09.30 Professor William Ritchie, Director AICSM, University of Aberdeen

Plenary Address – Part 1 (Chairperson: David R. Green)

- 09.30-10.00 Cindy Fowler: NOAA, USA
The US Coastal and Marine Spatial Data Infrastructure Experience

Plenary Address – Part 2 (Chairperson: David R. Green)

- 10.00-10.15 Andrew Sherin: Atlantic Coastal Zone Steering Committee, Canada
Moving from Cooperation and Sharing to Collaboration and Interoperability
- 10.15-10.30 Andrew Bradbury et al., Channel Coastal Observatory, UK
Integration of Large-Scale Regional Measurement, Data Management and Analysis Programmes for Coastal Processes, Geomorphology and Ecology

10.30 -10.45 Coffee Break/Exhibition

Spatial Data Infrastructures (Chairperson: Roger Longhorn)

- 10.45-11.00 John Pepper, UKHO Taunton, UK
Unlocking the Marine Data Treasure Chest
- 11.00-11.15 Liz O’Dea et al., Ireland
Harmonising Marine Information Exchange in Ireland

NOAA WORKSHOP (Chairperson: David R Green)

- 11.15-13.00 Cindy Fowler, NOAA, USA
*GIS for Assessing Risk and Vulnerability
To help coastal resource and emergency managers use the Community*

Vulnerability Assessment Tool (CVAT) to assess a community's risk and vulnerability to hazards, including floods, hurricanes, and earthquakes.

13.00 - 14.00 Lunch Break/Exhibition

Spatial Data Infrastructures – Examples (Chairperson: Ron Furness)

- 14.00-14.15 Alister Nairn, Australia
The Development of an Australian Marine Spatial Information System (AMSIS) to Support Australian Government Ocean Policy and Multi-Use Marine Activities
- 14.15-14.30 Peter Nwilo et al., Nigeria
Spatial Data Infrastructure in the Management of the Lagos Lagoon
- 14.30-14.45 Suwahyuono et al., Indonesia
Establishment of Marine and Coastal Spatial Data Infrastructure in Indonesia

Data Models, Databases and Metadata (Chairperson: Andy Sherin)

- 14.45-15.00 Julien Barde , France
A Metadata Service to Consult Spatial Resources on Coastal Area
- 15.00-15.15 Corinne Corbau et al., Italy
Realisation of a National Database on Coastal Dunes: Emilia-Romagna Coast (Italy)

15.15-15.45 Tea Break/Exhibition

Integration, Information Systems and the Internet (Chairperson: John Pepper)

- 15.45-16.00 Tim Stojanovic, UK
The Development of Coastal Information Systems: The Role of Networks in Bringing Spatial Analysis into Planning and Management
- 16.00-16.15 Mike Osborne and John Pepper, UK
The Delivery of Interoperable Coastal Data: An Update from the UK
- 16.15-16.30 Alison Dickson, UK
MAGIC – Co-operative Working Helps Make Marine Data Available Over the Internet

Remote Sensing, Photogrammetry, Visualisation and Modelling (Chairperson: Ron Furness)

- 16.30-16.45 David Green and Katia Bojar, UK
“Ythan View”: Visualising an Estuary and Virtual Fieldwork at the Ythan Estuary, Scotland, UK

- 16.45-17.00 Uwe Dornbusch et al., UK
Soft Copy Photogrammetry to Measure Shore Platform Erosion on Decadal Time Scales
- 17.00-17.15 Sandy Man-Yi Ng, Hong Kong
Integrating GIS with Hydrodynamic Model for Wastewater Disposal Management: Pearl River Estuary

PCI WORKSHOP – Turn Imagery into Answers (Chairperson: Iain MacInnes, PCI)

- 17.15-17.55 Iain MacInnes
Focus on the COASTCHART mapping project and developments at PCI Geomatics for turning spatial data into information with the upcoming release of Geomatica 10, a series of tools which will help to turn images into answers.

- OCEANS 21 Programme Initiative Launch (Chairperson: David R Green)
- 17.55-19.00 *To develop useful concepts, methods and techniques in integrated coastal management for coastal managers and planners, with special consideration of the developing coastal environment and with education and training as cardinal operational arenas.*

The Oceans 21 Initiative:

- 17.55-18.05 David R. Green (University of Aberdeen, UK)
Introduction to Oceans 21
- 18.05-18.15 Emanuele Roccatagliata (ICCOPS/GISIG, Italy)
ICCOPS/GISIG and Oceans 21
- 18.15-18.40 Alastair Dawson (University of Aberdeen, UK)
Mediterranean Tsunami
- 18.40-18.55 Roger Longhorn (IDG, UK)
Oceans 21 and Other Initiatives
- 18.55-19.00 Discussion and Q&A Session

19.00-20.30 Aberdeen City Council Civic Reception – Gordon Suite, AECC

Friday 22nd July 2005

08.00-08.45 Registration and Coffee

Climate Change (Chairperson: Julien Barde)

- 08.45-09.00 Colin Woodroffe
Assessing the Vulnerability of Asian Megadeltas to Climate Change Using GIS
- 09.00-09.15 Iain Brown, UK
Developing an Integrated Regional Assessment of Climate Change on Coastal Landscapes

Environmental Indicators and Environmental Monitoring (Chairperson: William Ritchie)

- 09.15-09.30 Jorge Brenner and José A. Jiménez, Spain
Environmental Indicators GIS of the Catalanian Coast
- 09.30-09.45 Gerold Luerßen
GIS in the Trilateral Assessment and Monitoring Program (TMAP)
- 09.45-10.00 David R. Green, UK
Applying Geospatial Technologies to Weedmat Monitoring and Mapping: The Ythan Estuary, NE Scotland

Marine Pollution and Water Resources (Chairperson: Ron Pelot)

- 10.00-10.15 Francisco Carreño et al., Spain
Prestige Marine Pollution: A GIS Tool
- 10.15-10.30 Christabel I Okeke, Nigeria
Geographic Information System: A Tool Kit for Water Resources Management in Nigeria

10.30-10.45 Coffee Break/Exhibition

Marine Protected Areas and Ecosystems (Chairperson: Joaquim Pais-Barbosa)

- 10.45-11.00 Sarah Loos and Rosaline Canessa, Canada
Towards a GIS-Based Methodology for Marine Protected Area Zoning
- 11.00-11.15 Peter Nwilo et al., Nigeria
Environmental Information System in the Management of the Guinea Current Large Marine Ecosystem Project

MOTIIVE WORKSHOP (Chairpersons: Roger Longhorn/Keiran Millard)

To educate participants in data harmonisation and integration technologies and techniques, and to gain their active support for the EU funded project MOTIIVE and related projects at EU regional and national level.

- 11.15-12.15 Roger Longhorn (IDG, UK) and Keiran Millard (HR Wallingford, UK)
Marine Overlays on Topography for Annex II Value and Exploitation

ECO-IMAGINE (Chairperson: Emanuele Roccatagliata)

- 12.15-12.30 Emanuele Roccatagliata and George Saio, GISIG, Italy
The European Marie Curie Project: Eco-Imagine

12.30-13.15 Lunch Break/Exhibition

Habitats, Aquaculture and Fisheries (Chairperson: Rosaline Canessa)

- 13.15-13.30 Carsten Brockmann et al., Germany
A Data Management System for the National Park Office Schleswig-Holstein Wadden Sea
- 13.30-13.45 Vincenzo Maccarrone, Italy
Aquaculture in Sicily: Ecological and Economic Aspects

Coastal Geomorphology, Morphodynamics, Processes, Erosion, Management and Planning (Chairperson: Colin Woodroffe)

- 13.45-14.00 Joaquim Pais-Barbosa et al., Portugal
GIS Tool for Coastal Morphodynamic's Analysis
- 14.00-14.15 Tanja Preseren and Leon Gosar et al., Slovenia
Functional Connected Areas in Regional Planning: Sea and Land Uses Interaction
- 14.15-14.30 Vassilopoulos et al., Greece
Using GIS to Study the Coastal Geomorphology of the Acheloos River Mouth in West Greece
- 14.30-14.45 Edi Valpreda et al., Italy
A GIS to Manage the Past Knowledge in the Coastal Defence Planning

14.45-15.00 Transport to centre of Aberdeen by minibus

15.00-17.00 Tour of Aberdeen

- Walking Tour of Seventeenth Century Aberdeen
- Visit to Aberdeen Maritime Museum

17.00-19.00 Free Time

19.30 for 20.00 Symposium Dinner, Crombie Suite, AECC finishes at 22.30 (approx.)

Saturday – 23rd July 2005

08.00-09.00 Registration and Coffee

Mapping and Spatial Analysis (Chairperson: David R. Green)

- 09.00-09.15 Ronald Pelot, Canada
Spatial Analysis of Traffic and Risks in the Coastal Zone
- 09.15-09.30 Tobias Dolch, Germany
High-Resolution Spatial Analysis of Changes in the Wadden Sea
- 09.30-09.45 Jorge I Euan-Avila and Alfonso Cuevas-Jimenez, Mexico
Geospatial Tools for Coastal Regionalization with Emphasis in ICZM
- 09.45-10.00 I. Montoya et al., Spain
Geohazards and Geographic Information in the Coast of Tarragona (Spain)

Closing Plenary

- 10.00-10.15 Ron Furness (CoastGIS 2006, Australia)
- 10.15-10.30 David R. Green (University of Aberdeen)

10.30 – 11.00 Coffee Break/Exhibition

Departure

Posters

1. N. Evelpidou, S.E. Poulos, and A. Vassilopoulos
Natural Processes and Dynamics of the Coastal Zone of the Paros Island (Cyclades Islands of Aegean Sea), Towards its Sustainable Development
2. K. Gaki-Papanastassiou, A. Vassilopoulos, N. Evelpidou, and H. Maroukian
Quaternary Morphological Evolution of the Cyclades Islands (Greece)
3. T.H. Gournelos, N. Evelpidou, A. Vassilopoulos, D. Vaiopoulos, I.D., Manta, and A. Komianou
Structural Control of Geomorphological Evolution of Meganissi Island (Ionian Sea) Coastal Zone and Coastal Erosion Risk Detection
4. Clare Greathead et al., UK
Predictive Modelling and Locational Guidelines for Marine Fish Farms in Scottish Waters
5. David R. Green, UK
Using Remote Sensing and Geographical Information Systems (GIS) to Monitor and Map the Distribution of Algal Weed Mats in the Ythan Estuary, NE Scotland
6. David R. Green et al., UK
A Geospatial Toolkit to Support Coastal Zone Management
7. David R. Green and Katja Bosar, UK
“Ythan View”: Visualising an Estuary and Virtual Fieldwork at the Ythan Estuary, Scotland, UK
8. Jörn Kohlus et al., Denmark
North Sea and Baltic Sea Coast Information Systems
9. Oceans21 Initiative
10. Filipa Ferreira Oliveira, Portugal
A Simple and Efficient Methodology to Assess Long-Term Shoreline Evolution: Case Study
11. G.H. Pramono et al., Indonesia
Spatial Data Integration Supporting Coastal Zone Management in Indonesia
12. María José Sánchez, Inmaculada Rodríguez, Isabel Montoya, and Francisco Carreño
GIS Technology to Calculate Aeolian Transport
13. Dawn Wright et al., USA
A New Object-Orientated Data Model for Coasts and Oceans