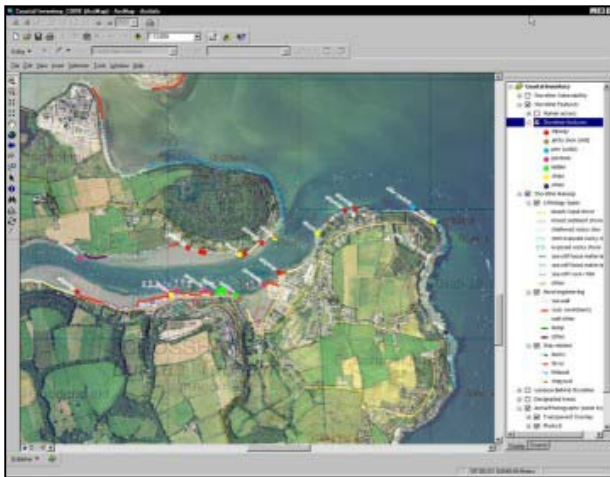


3-Day short course (April 19th – 21st)
GIS, Remote Sensing & Internet Technology Applications
for Riparian, Coastal & Marine Management



Purpose

Historically, Geographical Information Systems (GIS) & remote sensing were seen as being most applicable to terrestrial science. Recent advances and the development of new software applications have transformed these technologies into powerful tools for use in the marine environment. GIS is now applied to sectors such as fisheries and recreation and to other areas such as shoreline development, conservation and disaster management. Ongoing advances in Internet GIS and visualisation have made the Internet an ideal platform in which to house these tools.

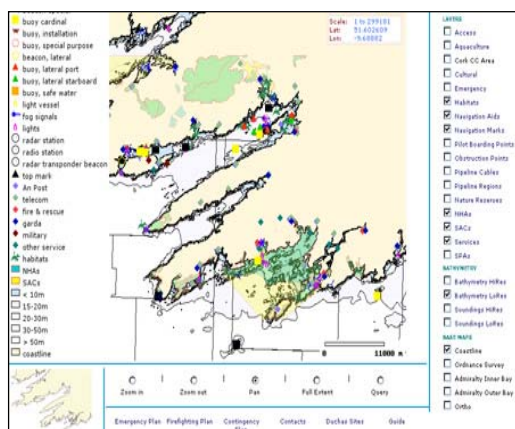
The *GIS, Remote Sensing & Internet Technology Applications for Riparian, Coastal & Marine Management* short course will focus on practical GIS applications within the framework of riparian to coastal, near and offshore marine environments. Participants will gain exposure to specific applications, by attending seminars from

experts in the field of GIS, ICZM, remote sensing, modelling, seabed mapping, visualisation and Internet technologies. They will gain practical experience of GIS in the new dedicated GIS computer laboratory within the Geography Department of UCC.

Target Audience & Attendance Requirements

This course is designed for technical staff and industry professionals involved in environmental management, Water Framework Directive GIS data management, engineering, planning, research, environmental consultancy, hydrography and those from local authorities whose remit includes aquatic management.

Participants wishing to undertake this 3-day short course should have a reasonable background in the use of computers and an idea of the principles of GIS. The GIS practicals will start at a basic level so those unfamiliar with GIS software should have no problem in completing the course.



Course Content

The course will be run over 3 days, with seminars taking place in the morning and GIS practicals in the afternoon.

The seminars will discuss data quality and Spatial Data Infrastructure (SDI), the use of remote sensing and Internet technologies and the use of open source software in data management and visualisation, along with seabed mapping and modelling.

The GIS practical element will focus on applications within the framework of riparian, coastal and marine environments. GIS will be taught using the ESRI suite of ArcGIS software. Although some participants may use other software in their day-to-day jobs, the principles taught will be readily transferable to other software environments.

Proposed Schedule (subject to change)

Day	Time	Topic	Type	Presenter
April 19th	9.30 – 10.00	Introduction to the course		
	10.00 – 11.00	Basic Introduction to GIS	Seminar	Vicki O'Donnell
	11.00 – 11.30	Coffee		
	11.30 – 13.00	Introduction to riparian, coastal & marine management at International, EU, national & local levels	Seminar	Valerie Cummins
	13.00 – 14.00	Lunch		
	14.00-15.30	General Introduction to GIS/metadata	Practical	Helen Bradley/Vicki O'Donnell
	15.30 – 15.45	Coffee		
	15.45 – 17.15	Geo referencing & digitizing	Practical	Helen Bradley/Vicki O'Donnell
April 20th	9.30 – 10.30	Data quality & Spatial Data Infrastructure	Seminar	Darius Bartlett
	10.30 – 11.30	Web GIS, proprietary & open source software	Seminar	Liz O'Dea
	11.30- 12.00	Coffee		
	12.00 – 13.00	Remote Sensing for riparian, coastal and marine management	Seminar	Vicki O'Donnell
	13.00 – 14.00	Lunch		
	14.00 – 15.30	GIS interpolation and integration of remote sensing data	Practical	Helen Bradley/Vicki O'Donnell
	15.30 – 15.45	Coffee		
	15.45 – 17.15	Tables/querying, buffering/clipping & scripting	Practical	Helen Bradley/Vicki O'Donnell
April 21st	9.30 – 10.30	Visualisation techniques, 3D & 4D	Seminar	Declan Dunne
	10.30 – 11.30	Modelling, what, why & how?	Seminar	Jimmy Murphy
	11.30 – 12.00	Coffee		
	12.00 – 13.00	Seabed Mapping techniques	Seminar	Gerry Sutton
	13.00 – 14.00	Lunch		
	14.00-15.30	3 dimensional GIS	Practical	Helen Bradley/Vicki O'Donnell
	15.30 – 15.45	Coffee		
	15.45 – 17.15	GPS techniques	Practical	Helen Bradley/Vicki O'Donnell

Cost

€850 includes all course material & lunch/coffees (excl VAT)

For more information/ to book a place please contact:



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