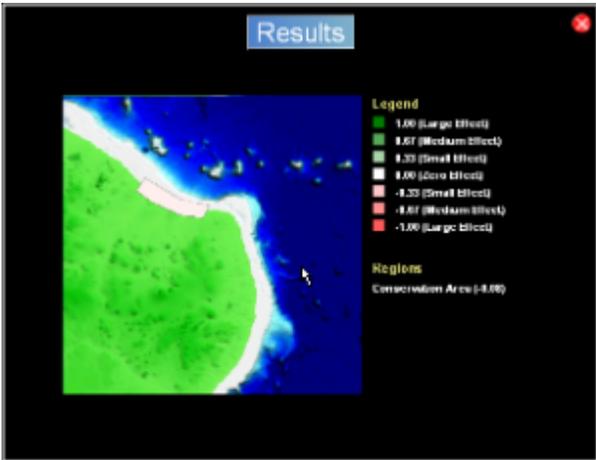


SimCoast

Tool Name *	SimCoast
Category *	Decision support Governance:
What step(s) in framework *	6. Evaluation of Management Effectiveness 7. Adaptation to Current Management
Description *	<p>SimCoast is a fuzzy logic rule-based expert system designed to enable researchers, managers and decision-makers to create and evaluate different policy scenarios for coastal zone management. It aims to combine traditional and advanced specialist knowledge about coastal zones with a set of reasoning and analytical tools. Experts involved include engineers, natural and social scientists, lawmakers, administrators, community and national leaders. Via workshops and consensus discussions, sensitive issues such as transboundary pollution and cross-sectoral socioeconomic effects can be translated into rules for policy formulation and decision-making. The conceptual basis of SimCoast is a two-dimensional multi-zoned map onto which key features such as ports, legal regimes and different habitats and activities such as shipping, tourism, aquaculture are mapped.</p> <p>It aims to combine traditional and advanced specialist knowledge about coastal zones with a set of reasoning and analytical tools. Activities are often associated with different zones and processes to which they are linked (e.g. land tenure, erosion).</p>
Inputs	Input formats: Shape, DXF, MIF, CSV, BMP, JPG, PNG, native formats
Data Quality Required	
Modification Required	Not available
Expertise Required	Technical expertise: Basic computer skills are sufficient. Some computer/GIS/programming skills are necessary. Scientific expertise: Extensive scientific training required
Outputs	The effects of activities on features are evaluated in relation to defined policy targets (e.g. water quality, ecosystem integrity) as measured in particular units (e.g. E.coli ppm, or number of fish species). This evaluation is the result of developing a set of expert rules. The results of an impact assessment are presented as a 2D transect, which represents a section of the coastline in a given area. Results are presented in an effect map within a certain area.
Spatial and Temporal Scales	Not available
Licence Cost Issues	Yes: The software package is £350 for an academic license and £500 for a commercial license. All prices plus vat.
Download	http://www.discoverysoftware.co.uk/SimCoastBuy.htm
Literature: References & Manuals *	http://www.discoverysoftware.co.uk/SimCoast.htm http://www.discoverysoftware.co.uk/SCManualJMM.pdf
EVALUATION	
Thumbnail	 <p>The screenshot shows a software window titled "Results" with a red close button in the top right corner. The main area displays a map of a coastline with a green landmass and blue water. A legend on the right side of the map lists impact levels with corresponding color swatches: 1.00 (Large Effect) in dark green, 0.67 (Medium Effect) in medium green, 0.33 (Small Effect) in light green, 0.00 (Zero Effect) in white, -0.33 (Small Effect) in light red, -0.67 (Medium Effect) in medium red, and -1.00 (Large Effect) in dark red. Below the legend, it says "Regions" and "Concentration Area (-0.00)".</p>

File

Modified 

PNG File SimCoast.png

15-08-2013 by Myra van der Meulen

Unknown macro: {link-to}

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