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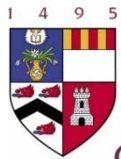
COLLOQUE SUR L'ADAPTATION  
AU CHANGEMENT CLIMATIQUE

ouvert aux acteurs de la zone côtière

David R. Green / Guillaume De La Fons  
*University of Aberdeen, Scotland, UK*



# Visualizing sea-level rise: a 3D tool for local authorities



UNIVERSITY  
OF ABERDEEN



**THE CENTRE FOR MARINE &  
COASTAL ZONE MANAGEMENT**

where geography and geoscience meet the coast



Jeudi 29 septembre 2011  
Centre Culturel Athéna - Auray





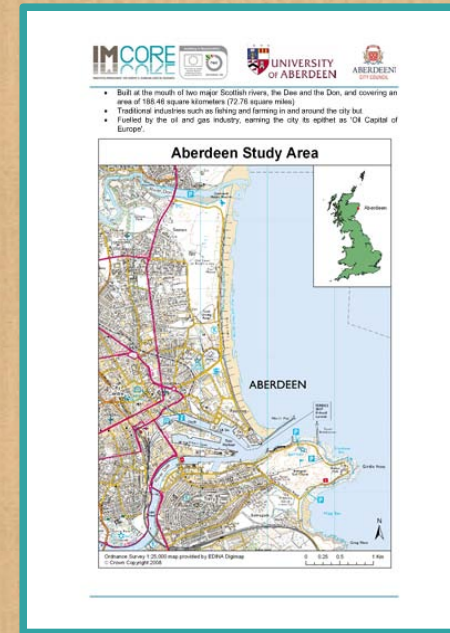
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- Part of the IMCORE Project
- Develop Tools to engage with stakeholders
- Concerning potential impacts of climate change in the context of coastal adaptation
- Sea level rise and inundation from coastal flooding
- GIS, mapping, geovisualisation and Virtual Reality (VR) to explore impacts e.g. maps and fly-throughs
- Potential also to explore future scenarios
- *"Picture worth a thousand words"*
- Aberdeen City Council (ACC)/ Aberdeenshire Council - ECN (and others e.g. Durham)
- Flooding at the coast

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Contexte/Historique / Context/ History of the project





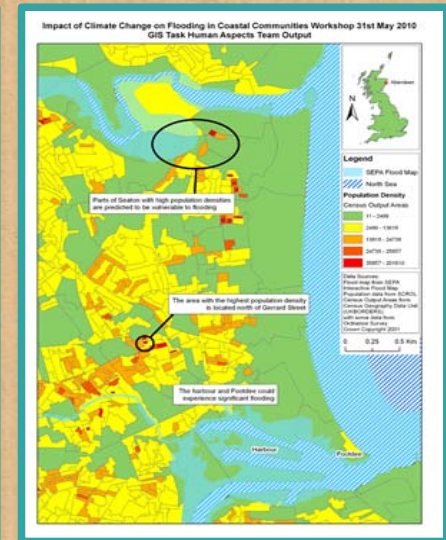
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- GIS and geovisualisation tools e.g. ArcGIS ( and ASA slider) / Global Mapper GIS software (and Google Earth)
- Digital map data (OS DTMs) and other spatial data input
- 2D (map) and 3D visualisation / fly-through
- Tutorials (paper and video-based)
- Simple participatory GIS / hands-on approach with.....
- Worked examples
- Workshops, exercises and presentations



Méthode / Methods



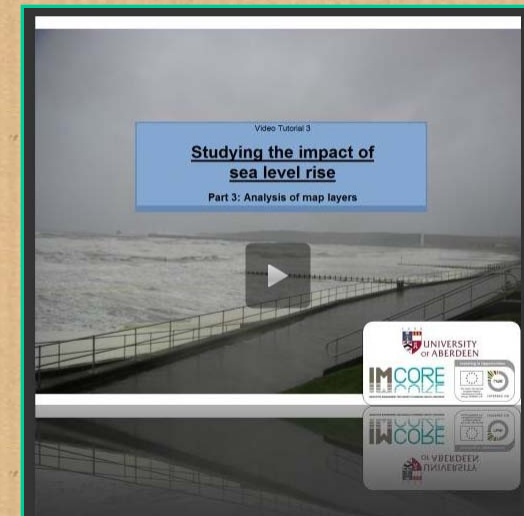
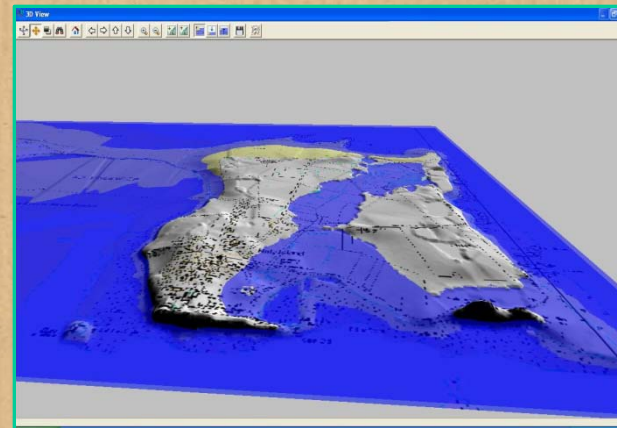
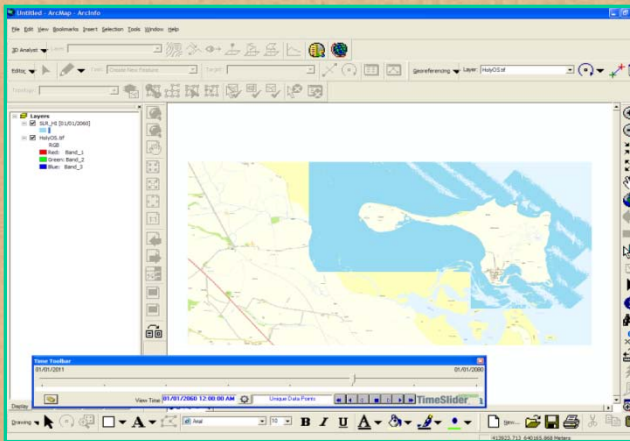


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- Series of online tutorials on GIS
- Mapping
- 3D
- Analysis



Résultats / Results





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- GIS and Geovisualisation - an example of one tool
- Off-the-shelf software (Open source)
- Wide range of data can be obtained and included
- Valuable role to illustrate potential impacts via scenarios
- Participatory approach
- **Advantages:** visual, hands-on, interactive
- **Limitations:** visual, knowledge and understanding
- Important to understand the value of GIS and geovisualisation ..... *and*
- Source of data / quality of the data / the visual image etc. must also be considered

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# THANK YOU



Conclusion/Perspectives / Conclusions/Prospects