

Joint Defra / EA Flood and Coastal Erosion Risk Management R&D Programme

Science Project: Development of a Decision Support system for a risk-based approach to catchment, estuary and coastal flood management planning (MDSF2). Part 1: Inception Stage

Summary W5C(03)01/SS

The purpose of this project is to identify the work needed to implement a risk-based decision support system based on the RASP (Risk Assessment for Strategic Planning) approach. The new system will provide an upgrade to the existing Modelling and Decision Support Framework (MDSF), which was developed in 2001 to provide a tool for quantifying economic and social impacts of flooding at a broad scale. The new system is referred to as MDSF2.

The Inception Stage provides a list of requirements for MDSF2 together with an implementation programme and costs. It also provides a list of options that could be included in MDSF2 if required, in addition to the basic functionality. The list of options was developed during an extensive consultation exercise. This information will be used by the Environment Agency and to undertake Part 2 of the project (the Implementation Phase).

The Inception Report provides the basis for the development of a risk-based decision support system that will help the Agency to undertake broad-scale assessments (including Catchment Flood Management Plans and Shoreline Management Plans) that take full account of the performance of flood defences both under present day and future conditions. The system will permit the calculation of flood hazard (including flood extents and depths), economic damages and other flood risk indicators.

This Summary relates to information from Project Number W5C(03)01. Findings are reported fully in the following report:-

MDSF2 Inception Report
Development of a Decision Support system for a risk-based approach to catchment, estuary and coastal flood management planning (MDSF2).
Part 1: Inception Stage

June 2005

Internal Status: Available
External Status: Publicly available

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Copies of these documents can be obtained from the Environment Agency's National Customer Contact Centre by emailing enquiries@environment-agency.gov.uk or by telephoning 08708 506506 or through Environment Agency's science publications catalogue <http://publications.environment-agency.gov.uk/epages/eapublications.storefront> on a print-on-demand basis. Alternatively, they may be downloaded from the Defra FCERM Programme website www.defra.gov.uk/enviro/fcd/research whose search tool is located on project information and publications page.

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