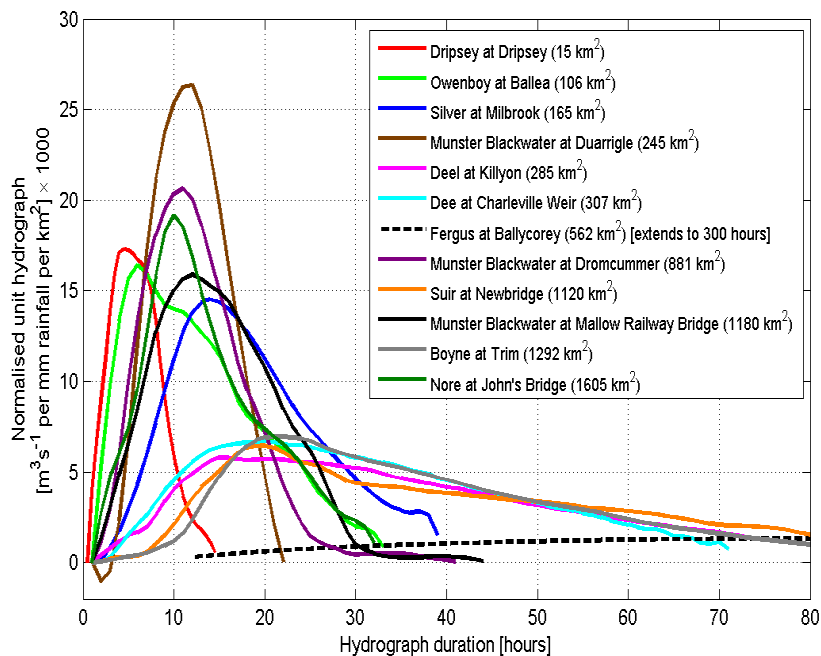


Flood Studies Update: Work Package 3.2 – Flood Event Analysis

Category: Flood Risk Management



Area normalised Unit Hydrographs of ten selected Irish catchments

Description:

The primary method of flood estimation presented in the FSU will be based on the statistical analysis of flood peak data, with typical hydrograph shapes provided by Work Package 3.1. Work Package 3.2 aims to keep users alert to rainfall-runoff methods by publishing examples of rainfall-runoff behaviour for Irish catchments. This work was carried out for some ten events on each of ten catchments, the selection of which represented a range of catchment types in Ireland.

It is important to note that the objective of WP3.2 was to illustrate rainfall-runoff behaviour for a range of Irish catchments, and not to come up with a new design flood event method for Ireland (see also Work Package 3.5).

The outputs from this work package were as follows:

- A summary and interpretation of flood event data, catchment by catchment;
- A summary of the rainfall-runoff behaviour observed;
- Suggestions as to the extent to which the ten catchments were representative of the catchments on which flood estimates are required;
- Identification of unrepresented catchment types;



- Potential applications of the flood event data (e.g. in the design of flood warning systems).

For further information about this work, please contact: oliver.nicholson@opw.ie

Design Team:

The OPW is responsible for the specification, procurement and direct management of the Flood Studies Update Programme, with technical direction provided by a Technical Steering Group, comprising representatives of the primary state / semi-state organisations involved with hydrology, hydrometric monitoring and associated research in Ireland, viz. OPW, Met Éireann, Environmental Protection Agency, Electricity Supply Board, IHP / ICID National Committee, and has two technical experts.

Construction Team:

Research Contractor: Department of Civil and Environmental Engineering,
University College Cork.
<http://www.ucc.ie/en/civileng/>

Project Supervisor: Professor Ger Kiely,
Researcher: Dr. Eamonn McKeogh

Dates:

Work Package 3.2 of the Flood Studies Update Programme was completed in July 2008.