

Flood Studies Update: Work Package 2.1 – Hydrological Data Preparation

Category: Flood Risk Management



Description:

The objective of Work Package 2.1 was to prepare river level and flow data for use in other parts of the Flood Studies Update research.

A primary emphasis of the data preparation was on the quality and quantity of annual maximum flood data. This was addressed by a specialist hydrometric contractor working in association with the gauging authorities. Their role was to assess (and, where appropriate, amend) the rating at each station; to assess (and, where appropriate, amend) the quality classification of each station; and to supply a priority list of suitable stations (A/B quality classes) to gauging authorities.

WP2.1 was also required to make available digitised hydrograph data for use in Work Packages 3.1 and 3.2, and for other research related to the FSU programme. This part of the WP2.1 work was undertaken by the relevant gauging authorities in Ireland.

The role of the gauging authority was to provide annual maximum series for the stations classed as A (highest quality) or B (good quality); to fill gaps in these series (if necessary, by manual extraction); and to supply existing digitised hydrograph data to WP3.1 and 3.2 (on request).

The contractor for WP2.1 supplied, for a range of gauged catchments across Ireland:

- Annual maximum flood data (both peak values and dates) for use in WP2.2 and WP2.3;
- Digitised hydrograph data (principally, for flood events) for use in WP3.1 and WP3.2.

The work focused on the quality of flood-rating curves and the completeness of data. The bulk of the effort was devoted to gauging stations with the capability to supply good quality flood data within the timescale of the FSU Work-Programme.

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:

The Research Contractors for Work Package 2.1 were

Hydro-Logic Ltd., Water Monitoring & Management Consultants.
(www.hydro-logic.co.uk)

Dates:

Work Package 2.1 of the Flood Studies Update Programme was completed in April 2006.