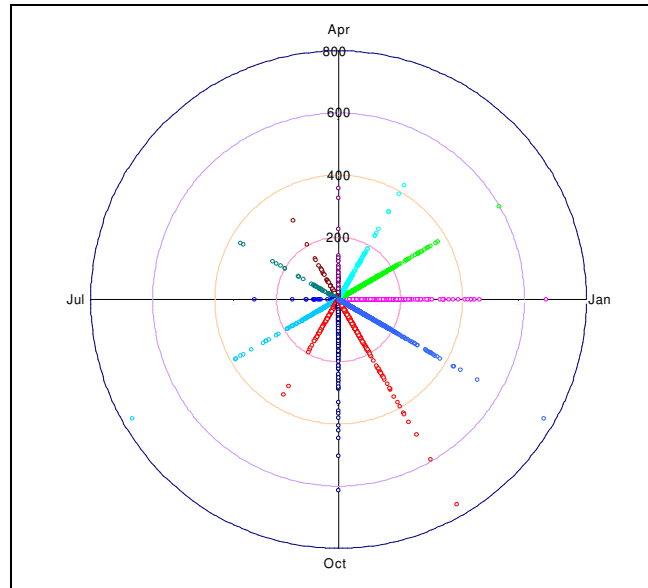


Flood Studies Update: Work Package 2.2 – Flood Frequency Analysis

Category: Flood Risk Management



Flood seasonality showing actual magnitude in 157 Irish stations

Description:

Work Package 2.2 of the Flood Studies Update Programme deals with frequency analysis of Irish flood data and the making of recommendations about guidelines for future practice in the area of flood frequency analysis and design flood determination. A major objective of WP2.2 was to develop a procedure for flood growth curve estimation based on pooling data from a number of stations. The pooling procedure was generalised for use at both gauged and ungauged sites, and utilised physical catchment descriptors (see WP 5.3) in consideration of pooling schemes based on the concept of “similar catchments”. WP2.2 was also required to develop methods and recommendations for frequency analysis of annual maximum flow data at individual sites. The outputs from this Work Package include:

- Methods and recommendations for frequency analysis for flow data (A-Max) at individual sites,
- Details of pooling strategies,
- Results of single site and pooled analysis,
- Details of index flood selection,
- Methodologies for generating growth curves,
- Illustrative applications (inc. comparisons with FSR estimates),
- Summary statistics,.
- Guidance on the methods to be used.



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:

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Researcher: Mr. Samiran Das

Dates:

Work Package 2.2 of the Flood Studies Update Programmewas completed in November 2008.