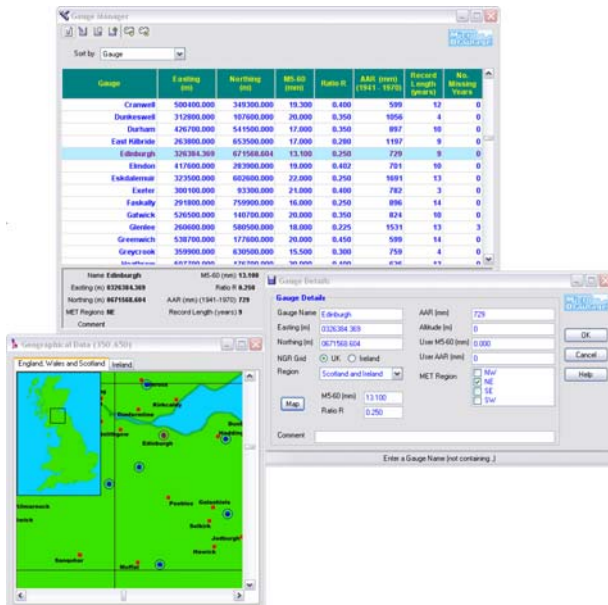
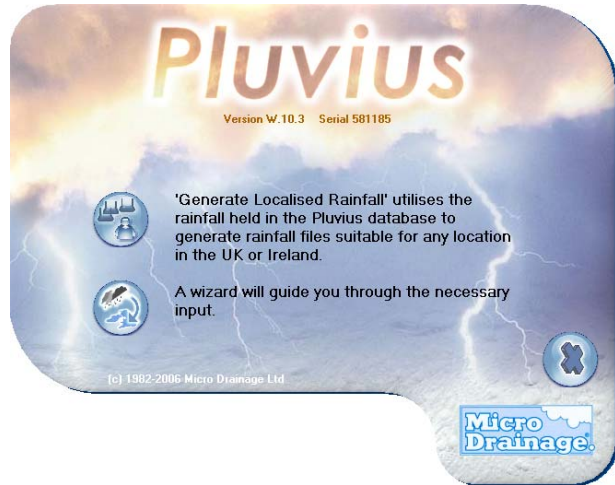


**NEW RAINFALL MODULE**  
**Pluvius module from Micro Drainage**  
**developed with the Met Office**

A new software module allowing the continuous analysis of rainfall has been introduced by Micro Drainage.

Pluvius integrates the Deluge database developed by the Meteorological Office, and is designed to assist engineers in complying with regulatory requirements such as PPS25, covering Development and Flood Risk.



The Pluvius module is a complete rainfall continuous analysis toolkit. For the first time, it allows engineers to make full use of the vast resources of the Deluge database, which contains over 700 years' worth of rainfall data, scrupulously recorded at five minute intervals at 73 sites across the UK. Users can augment the data with their own rain gauge records.

Continuous analysis is only possible with detailed data of this kind.

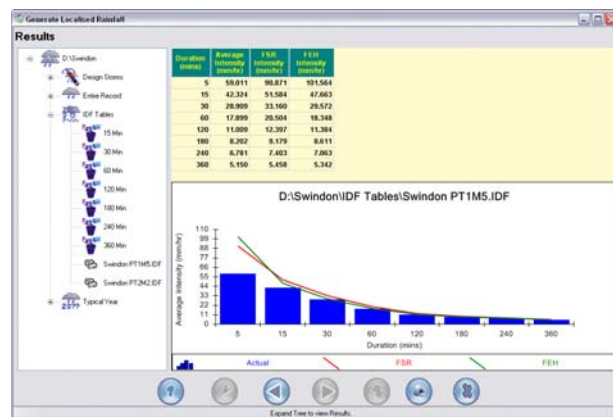
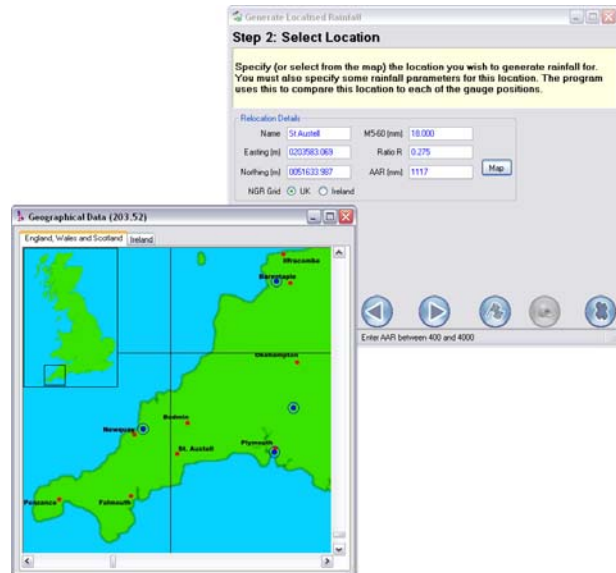
It will aid compliance with new requirements for detailed risk assessment, which can now determine the outcome of the planning approval process.

## - Pluvius -



The data processing engine within Pluvius takes advantage of today's fast PC processors to handle very large data files with ease. It incorporates a wide range of analytical and sorting tools to extract and validate the key data.

As a result, users can generate long rainfall records spanning hundreds of years at any location in the UK. All the events can be extracted from the record and the critical events identified.



From these findings, engineers can generate typical years or typical seasons on which to base their analysis. Design storms can also be generated from the data, and records can be compared with Flood Estimation Handbook and Flood Studies Report analysis.

As well as compliance with regulatory requirements, Pluvius is a powerful resource for the design of systems where good pollution performance is a key consideration. Continuous analysis provides a much greater insight into the performance of the system during more common events. For example, Pluvius allows the treatment volume for ponds to be calculated and verified by the continuous analysis of a "Typical Year", or by determining its average performance over 10 to 20 years.

## - Pluvius -



In addition, the continuous analysis capabilities of Pluvius can give a realistic solution to the problem of combined probabilities.

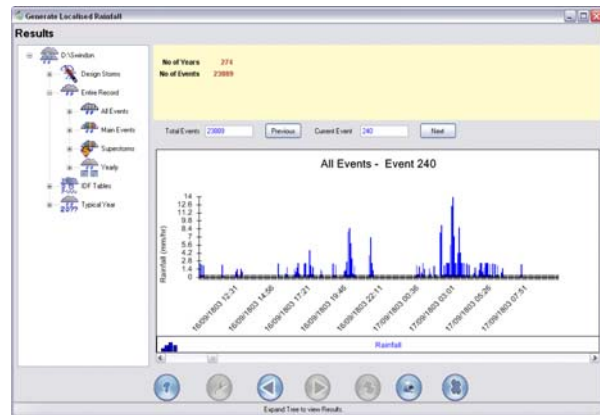
This describes the difficulties arising when assessing the impact of an event that occurs while the consequences of a previous event are still affecting the system. What, for example, happens when a 30 year storm hits a node while it is still surcharged following a previous event?

Using design storms, it is left to the judgement of the engineer to determine the performance of the system in these circumstances. Pluvius also makes it possible to test the system with a wide variety of real data that would give greater confidence to a design where even the most informed estimates may still leave room for significant error.

Pluvius makes a valuable source of data available to engineers in a practical form for the first time.

The conditions that give rise to a particular water level in a river or drainage network are a combination of many factors, the analysis of real data provides the engineer with the means of validating the network more thoroughly than design storms alone can provide.

Pluvius is a comprehensive rainfall management and analysis tool that will enable engineers to test drainage networks with real rainfall data, for use on flood, pollution and river modelling.



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For further information about Pluvius and Micro Drainage training, visit [www.microdrainage.co.uk](http://www.microdrainage.co.uk), call 01635 582555, or email [info@microdrainage.co.uk](mailto:info@microdrainage.co.uk).