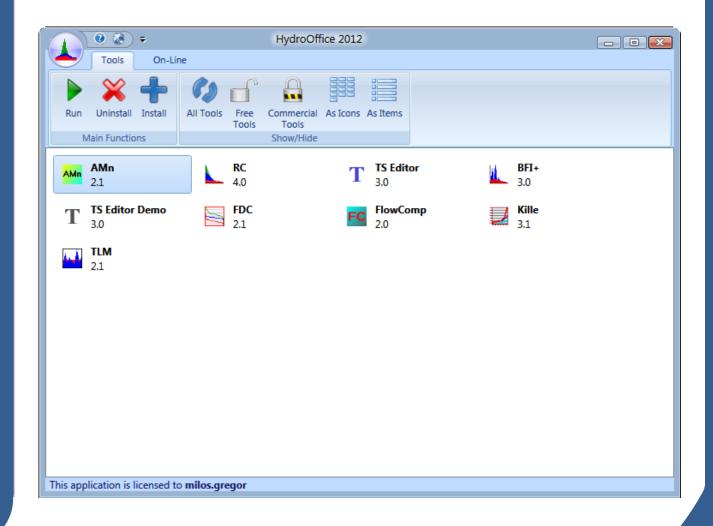


HydroOffice 2012

White paper





1 What is HydroOffice

HydroOffice is a comprehensive software package designed for hydrology, hydrogeology, meteorology and for environmental engineers. The HydroOffice software package contains a number of separate installable tools that are distributed as freeware or are priced. Each of

these tools is designed for one specific purpose, and this software is currently used in over 90 countries. All the important information you need to be able to join us and also become a HydroOffice user is contained in this White Paper.

2 System Requirements

HydroOffice software is MS Windows based software, and all necessary operating conditions are listed in the following table. In addition,

your computer must be connected to the internet while you are installing the individual tools.

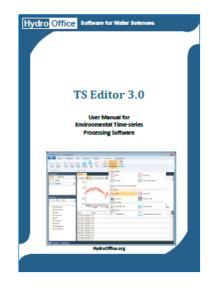
Operation system	Window XP (minimal, but not optimal) / Windows $Vista$ / 7 / 8
Disk Space	60 - 100 MB
Installed Programs	any PDF reader for user manuals
Required System Extensions	.NET Framework 2.0 .NET Framework 3.0 .NET Framework 3.5 .NET Framework 4.0

3 Support

Several tools and information sources are available for easy use of the HydroOffice program, and a video tutorial has been created for each tool. This video describes how to work with the program and there is also a printed manual that comprehensively describes all your work in the program, including its possibilities

and limitations. Additional queries can be solved by the user forum on the website, and if you have any specific question, you can contact the developer directly via the contact form on the web page in the section **About** – **Contact Form**.





4 How to Get HydroOffice

When you want to use the HydroOffice 2012 program, two steps are required. Firstly, you register on hydrooffice.org (Keep your user name and password – you will need it later).

After registration, you download the installation package from the **Download – Software** section. The second step is to install the package in your computer.







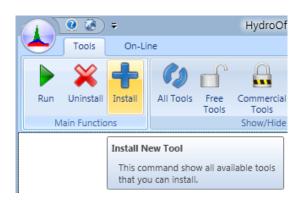




5 How to Install HydroOffice tools

After installation, the main window of the program is empty, where your tools will be displayed as they are installed. Your computer must be connected to the Web when installing tools, and then each time you want to add a tool, just click on the **Install** button in ribbon. Enter your user name and password and a window appears, listing the tools that can be installed on your computer. In this list you will find all the

freeware tools and also the demo versions of the commercial tools. If you have purchased licences for commercial tools, these will also be listed in blue font color. Now, you just click on the Add button and the actual version is downloaded from server and installed into your program. After installation, you can use the tools immediately.

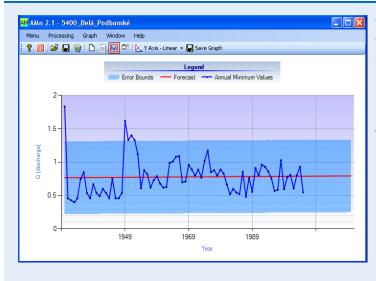




6 HydroOffice Tools

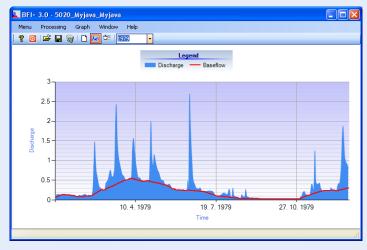
As at April 2013, the HydroOffice 2012 software package currently contains 11 "standalone" installable tools. The following section

deals with a short description of each tool. For detailed information about the programs, please visit the HydroOffice.org project web page.



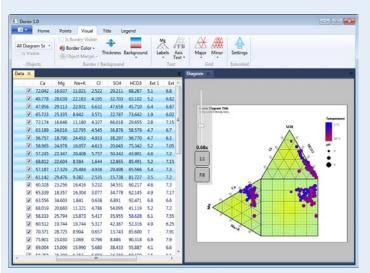
AMn 2.1 License Freeware Price: 0 \$

This is the oldest and simplest of all HydroOffice tools. The program allows you to calculate the minimum and maximum N-daily values in individual years.



BFI+ 3.0 License Freeware Price: 0 \$

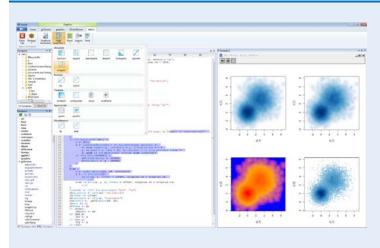
This tool is used for baseflow separation from a hydrogram. The program includes a choice of 11 methods for separation. It includes methods such as local minimum, fixed interval or sliding interval methods; and also methods of recursive digital filters.



Durov 1.0

License Commercial Price: 99 \$

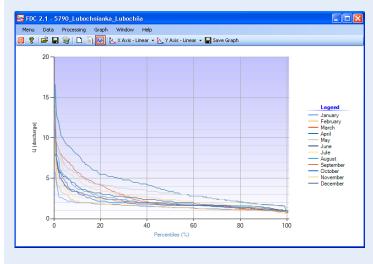
This is a comprehensive tool for creating a professional Durov diagram. The program is based on vector graphic rendering and you can visually edit and adjust all the properties. It also contains many new features you will not find anywhere else.



Faster 1.0

License Freeware/
Commercial

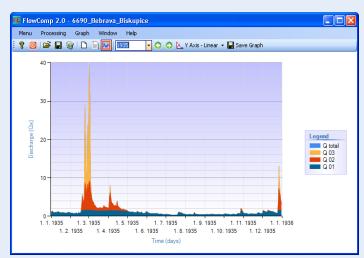
This tool is still in development and will be focused to complex data preparation, processing and visualization. This tool is basically a graphical user interface over the R statistical language. This language offer very useful functionality for working with any type of data.



FDC 2.1

License Freeware Price: 0 \$

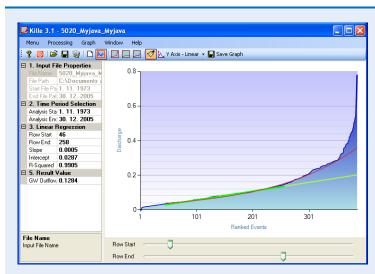
A tool from the older generation that allows calculating and rendering of duration curves. For example, these curves are often used in the assessment of hydrological drought. Duration curves can be created from the entire imported time series or from defined parts, such as annual or monthly segments.



FlowComp 2.1

License Freeware Price: 0\$

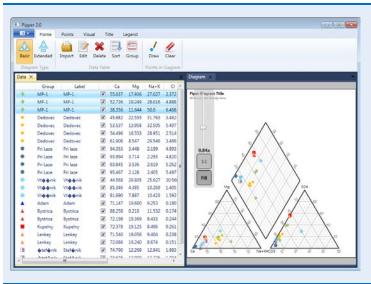
FlowComp is an interesting tool if you want to separate multiple runoff components from a hydrograph. It uses a relatively little known method of separation based on the result of recession curves analysis. In contrast to BFI+ tool, you can separate several runoff components, including surface, sub-surface and groundwater runoff.



Kille 3.1

License Freeware Price: 0\$

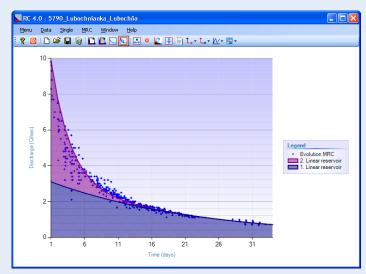
This is a very simple tool from the older generation which allows you to calculate the long-term average groundwater runoff from 10-year series of daily river discharges.



Piper 2.0

License Commercial Price: 99 \$

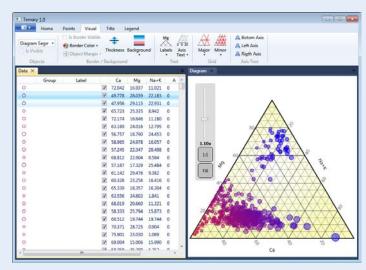
This is a comprehensive tool for creating professional Piper diagram. The program is based on vector graphic rendering and you can visually edit and adjust all the properties. In also contains many new features that you will not find anywhere else.



RC 4.0

License Freeware
Price: 0\$

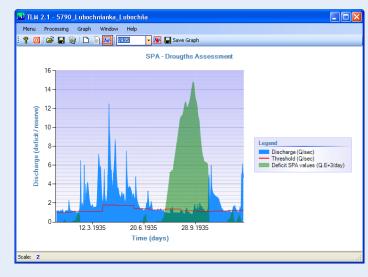
This is a comprehensive tool for recession curves analysis. The program allows you to quickly separate recession curves from a hydrograph, and then analyze the individual recession curves or the master recession curve. To assemble the master recession curve, you can use a manual method or the new method based on a hybrid genetic algorithm.



Ternary 1.0

License Freeware Price: 0\$

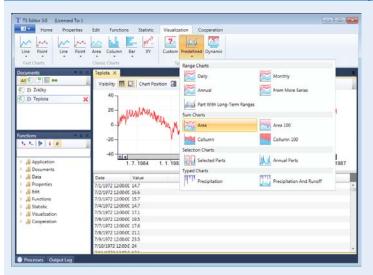
This is a comprehensive tool for creating professional Ternary diagram. The program is based on vector graphic rendering and you can visually edit and adjust all the properties. In also contains many new features that you will not find anywhere else.



TLM 2.1

License Freeware
Price: 0\$

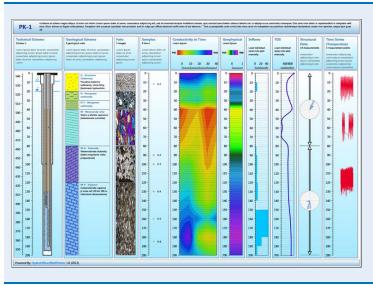
This tool is designed to assess hydrological drought and flood events. Threshold level or sequence peak algorithm methods can be used to evaluate extreme conditions. Segments with extreme conditions can be statistically processed.



TS Editor 3.0

License Commercial Price: 399 \$

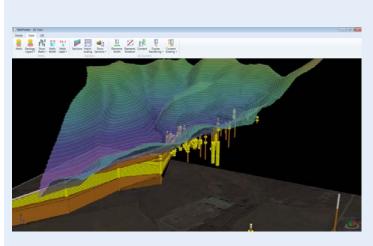
This program is the largest tool in the software package. It is designed, for example, for time series processing (discharge, groundwater level changes, temperature, precipitation, wind speed). The program contains more than 2,000 functions for time series analysis, editing, statistics and visualization. This unique software is the flagship of the HydroOffice project.



Well Plotter 1.0

License Commercial Price: 299 \$

This tool can be used for data visualization from wells and boreholes. Program includes functionality for variable data types rendering, such as technical scheme of well, geological scheme, numerical continuous measurements, tectonic and structural data or images. All these data can be simultaneously displayed in one Log Plot.



Well Plotter 3D 1.0

License Commercial Price: 499 \$

This tool is an extended version of basic Well Plotter tool. In addition to features in basic edition here are prepared options for displaying of 2D geological schemes and complex 3D fence models.

Conclusion

The foregoing text contains a brief description of the tools and options for using the HydroOffice 2012 software package. program includes 11 separate installable tools. These tools are distributed as freeware or as commercial programs. The commercial ones require you to purchase a licence. Before you buy, however, you can install the demo versions to try out their functionality. You can buy them through a reseller in your country or through the HydroOffice.org page under your user account. The project offers many tools applicable for hydrology, hydrogeology, hydro-biology, meteorology, environmental engineering and geo-informatics. The program currently contains more than 2 million lines of code. Video tutorials and printed user manuals have been created and are available for easy use of each tool. The manuals are on the project website in the **Downloads** section, and video tutorials are also at that site, and also on the **YouTube.com** server.

If you have any questions, problems or suggestions, you can use the contact form in the section **About** – **Contact Form**. All responses and queries will be gratefully accepted and promptly replied to.