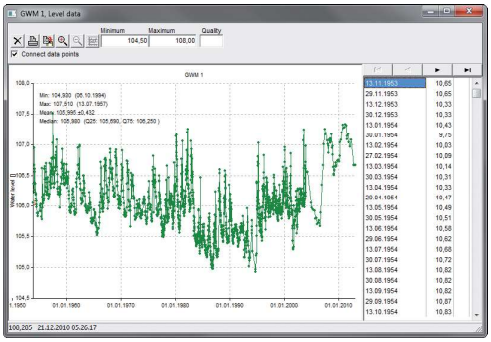
GW Arc®

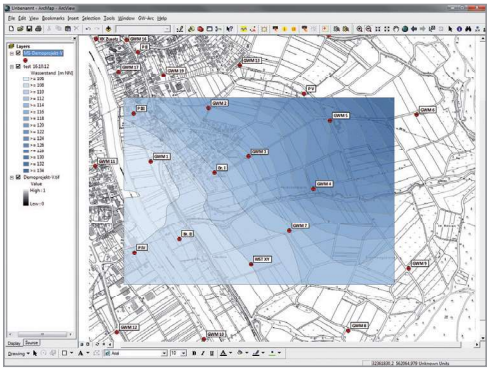
Edit GW-Base® Data with ArcGIS®

The Extension GW-Arc seamlessly connects ArcGIS® with GW-Base. All measuring stations managed in GW-Base can be displayed and edited as point layers in ArcGIS. With GW-Arc it is possible to spatially evaluate all measured data from GW-Base and present it in contour maps, views and layers. Additionally, most layer preferences for e.g. settings, symbology and projections are more standardized and simply structured compared to ArcGIS without abandoning the numerous possibilities in ArcGIS.

Some Features of GW-Arc:

- display of single measuring stations and station groups from the GW-Base database in ArcGIS
- automatic refresh of basic station data in ArcGIS (without having to import new shape files)
- using GW-Arc, contour maps can be directly created and embedded in ArcGIS
- new measuring stations created in ArcGIS are automatically added to the GW-Base database
- the station filter tool of GW-Arc sends a station selection made in ArcGIS to GW-Base
- In ArcGIS water levels, analysis data, logger and basic station data can be displayed on the background map
- access to all data of a station directly from ArcGIS





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Displaying Stations in ArcGIS®

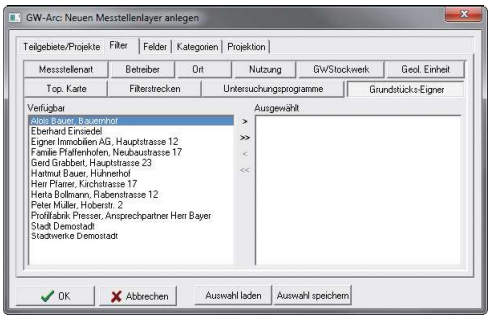
With GW-Arc you can select a group of wells from the GW-Base database and display them in ArcGIS. The selected stations are displayed in form of a XY event layer and not for example as a discrete shapefile. The advantage is that every time you open your ArcGIS project, all changes made in the GW-Base database are automatically updated in ArcGIS. Hence, your data in ArcGIS is always up to date, without having to consistently generate and import new shapefiles. Of course, GW-Base also offers the possibility of exporting discrete shapefiles, which are not automatically changed or updated ArcGIS.

Creating new Stations

With GW-Arc you can create new stations directly in ArcGIS which are automatically stored in the GW-Base database. At the same time, the corresponding coordinates are transferred to GW-Base. GW-Arc also identifies the subproject you have been currently working on in ArcGIS and consequently assigns all new stations to the same subproject in GW-Base.

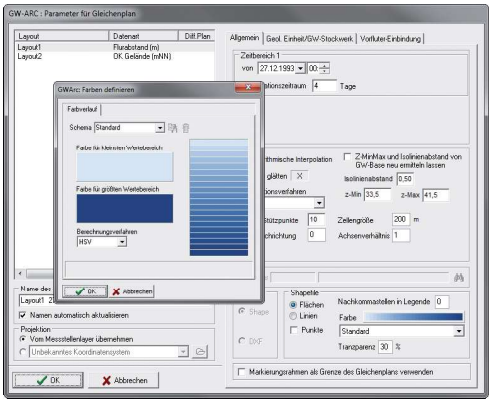
Station Filter

The station filter tool in GW-Arc sends stations selected in ArcGIS directly to GW-Base. GW-Base then uses this selection as a station filter. Consequently only these stations are visible in GW-Base. This tool enables you to conveniently carry out temporary, area specific station selections.



Creating Contour Maps

Once a contour map has been created in GW-Base and the associated settings for the generation of the contour map (interpolation method, contour line spacing coloring, etc.) have been saved as a template, you can directly access it in ArcGIS using GW-Arc. The contour map can then be computed and simultaneously embedded as a shapefile layer in ArcGIS. Before creating the contour map you can optionally modify the corresponding settings. This way you can e.g. still change the date, the time range, extend and coloring options. In comparison to many other applications, GW-Base does not ignore structures with hydraulic influence on water levels. You can digitize rivers, lakes, faults and blank areas, which are then taken into account when computing a contour map.



Info Tool

With the help of the GW-Arc Info Tool you can display all water levels, analysis and logger data, as well as the most important basic station data associated to a specific station by simply clicking on it. The info tool represents a perfect connection between the geographical information system ArcGIS and the water resource management database of GW-Base.

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