



Quick Reference Guide

Barometric Compensation

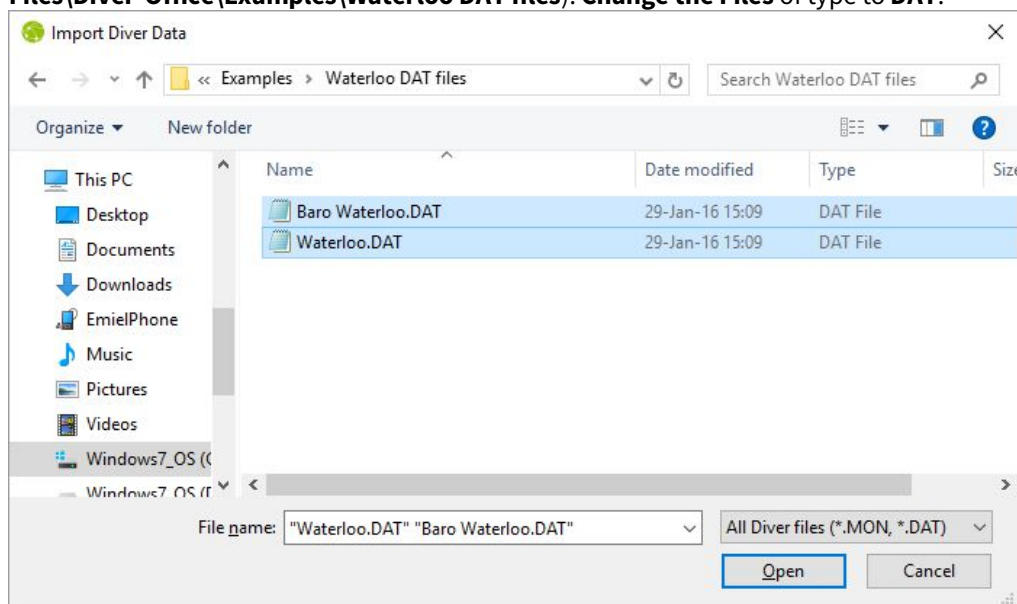
Introduction

This document outlines the basics to perform the barometric compensation. Please refer to the Diver-Office help for more details.

Importing Sample Data

Diver-Office comes with example data. The default folder is **C:\Program Files\Diver-Office\Examples**.

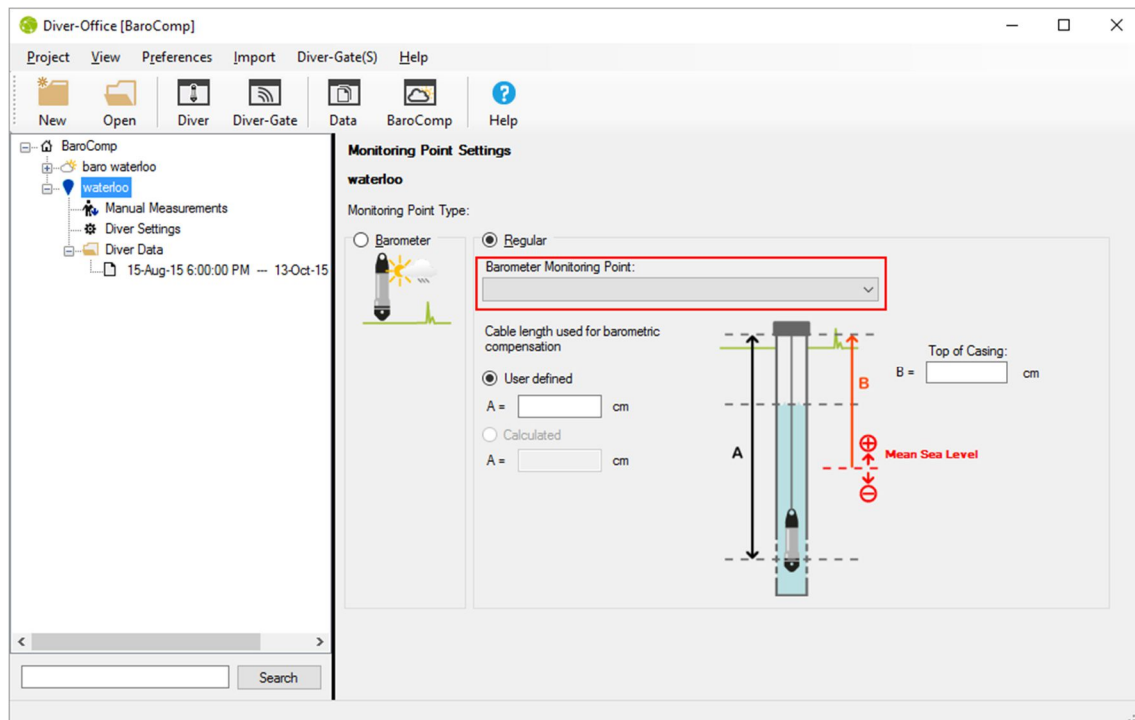
1. In Diver-Office click on the menu bar item **Import > Diver Data...** (CTRL+E). In the dialog that opens navigate to the **Waterloo DAT files** folder in the **Examples** folder (**C:\Program Files\Diver-Office\Examples\Waterloo DAT files**). **Change the Files of type to DAT.**



2. Select the two files and click **[Open]**.

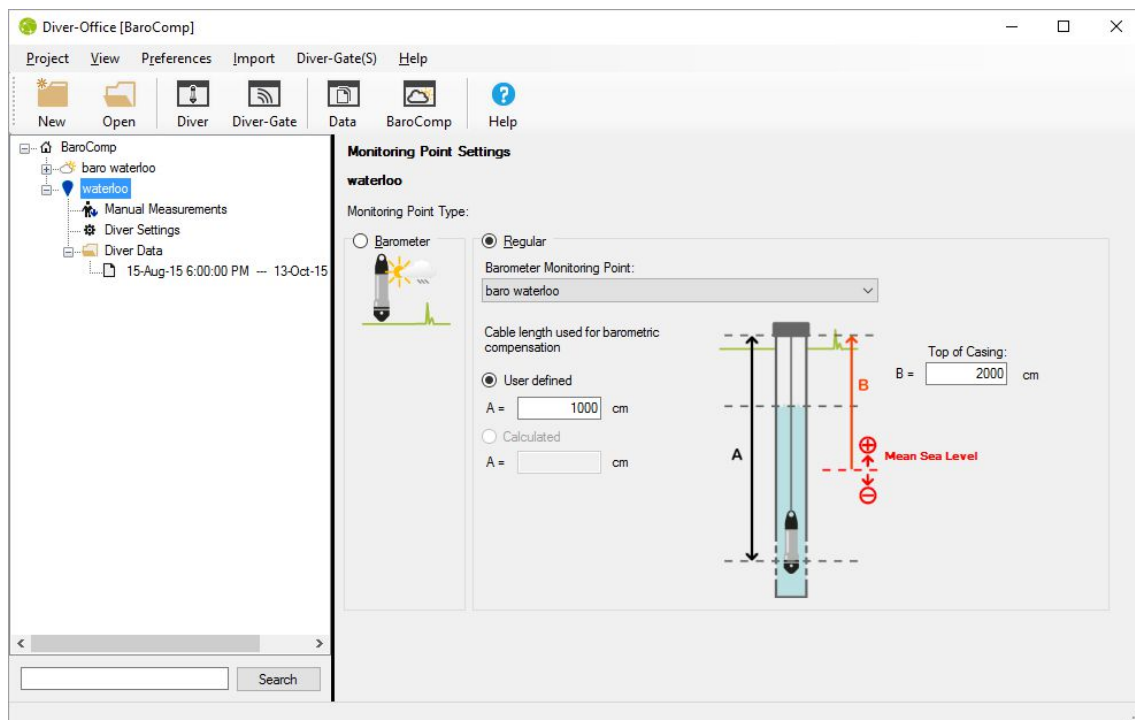
Setting the barometer

One of the imported data series is now shown. Click on **Waterloo** in the tree view on the left. The screen should now look something like the window shown below. Note that the **Barometer Monitoring Point** field is blank. To perform the barometric compensation this field must contain a value.




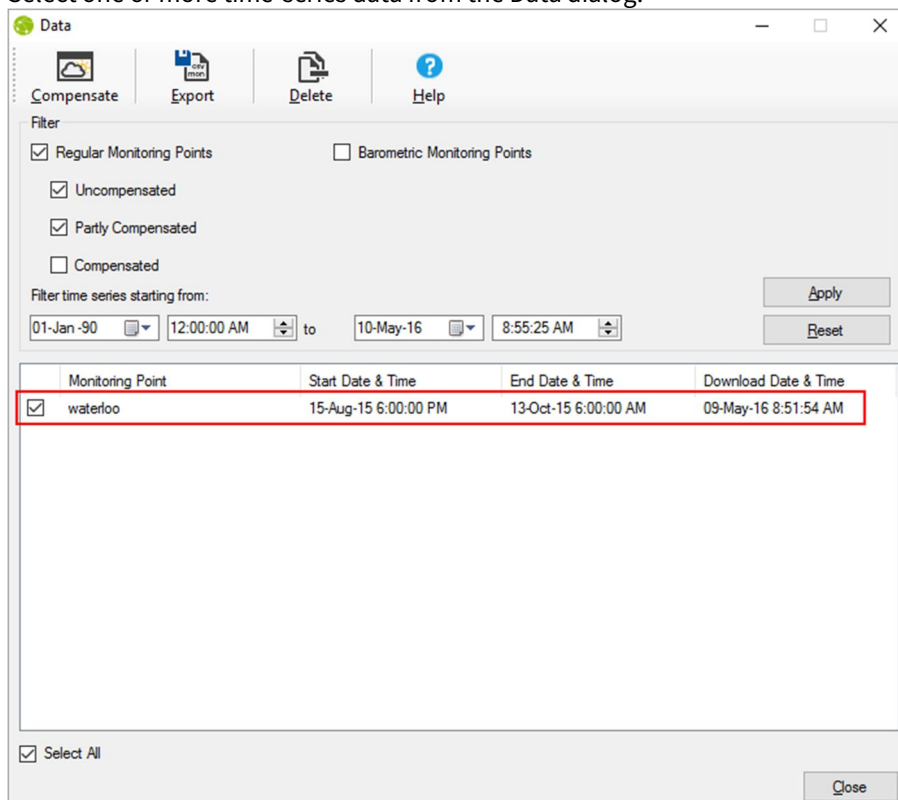
1. From the **Barometer Monitoring Point** dropdown list select **baro waterloo**.
2. Enter a value for the cable length (**A**) if the barometric compensation should calculate the depth to water
3. Enter a value both (**A**) and for the top of casing (**B**) if the barometric compensation should calculate the water level with respect to Mean Sea Level.

The window should now be similar to the window shown below:




Compensating Diver Data

1. Click the  **BaroComp** button from the main toolbar.
*You may also right click on the data set in the project tree to go directly to the BaroCompensation dialog.
2. Select one or more time-series data from the Data dialog.



Monitoring Point	Start Date & Time	End Date & Time	Download Date & Time
<input checked="" type="checkbox"/> waterloo	15-Aug-15 6:00:00 PM	13-Oct-15 6:00:00 AM	09-May-16 8:51:54 AM

3. Select the  **BaroComp** button from the Data dialog toolbar.
4. Select the desired barometric compensation method from the **BaroComp** dialog (shown on following page). You may choose from five barometric compensation methods:
 - a. Water Column above Diver
 - b. Water level with respect to Top of Casing *using Cable Length*
 - c. Water level with respect to Top of Casing *using Manual Measurement*
 - d. Water Level with respect to VRD *using Cable Length*
 - e. Water Level with respect to VRD *using Manual Measurement*

Note: Each barometric compensation method requires that certain data be entered before the compensation can be performed. Please refer to the Diver-Office user's manual for more information on the data requirements for each compensation method.



Barometric Compensation

Choose one of the following three options:

☒ Water column above Diver

☐ Water level with respect to top of casing

☐ Water level with respect to vertical reference datum

Obtain Diver position from:

Use this method to export data to an external database

Use this method to compare water level with different wells

BaroComp Cancel Help

- Once the method is chosen, select the **[BaroComp]** button to perform the barometric compensation.

Note: If the compensation fails, the type of missing information will be indicated in the log dialog.

- When the compensation is complete, the barometric compensation log will show, displaying a summary with details.

Barometric Compensation Log

summary:

*date-time: 09-May-16 8:58:26 AM
 *barometric compensation with water column above Diver
 *compensated: 1 time series
 *partly compensated: 0 time series
 *uncompensated: 0 time series




details:

*compensated: 1 time series
 waterloo 15-Aug-15 6:00:00 PM 13-Oct-15 6:00:00 AM
 *partly compensated: 0 time series
 *uncompensated: 0 time series

Clipboard Close Help



7. Click the **[Close]** button to finish. You can now view the compensated data in the time series table and plot. You will notice that the time series symbol in the **Project Tree** will change once compensation has been performed:

-  means that the data was Partially Compensated
-  means that all the data in the time series was Compensated
-  means that the data is Uncompensated.