

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**.

 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.

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Organize 👻 New folder			::: -	?
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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 no 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.





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uren Data L.D. 2015-08-15 6:00:00 PM 2	Barometer Monitoring Point: Cable length used for barometric compensation Image: Cable length used for barometric compen	al
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- 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:

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Project View Preferences Import Diver-Gate Help	
Image: Second	
• ① BaroComp • ③ baro waterloo • ✓ waterloo • ✓ waterloo • ✓ Waterloo • ✓ Oriver Data • ① 2015-08-15 6:00:00 PM 2 • ② Barometer • ③ Begular Barometer • ③ Begular Barometer Monitoring Point: baro waterloo Cable length used for barometric compensation • ④ User defined A = 1000 cm Calculated A = 0 cm • ④ • ● ① • ● ● • ● ● • ● ●	Top of Casing: B = 2000 cm Mean Sea Level Max difference between manual measurement and Diver:
Search	





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.

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Monitoring Point	Start Date & Time	End Date & Time	Download Date & Time
baro waterloo	2015-08-15 12:00:00 PM	2016-08-05 12:00:00 PM	2018-02-12 1:14:41 PM
			Close
			Liose

- 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.







5. 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.

6. 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 Darometric compensation with water column above Diver "compensated: 1 time series "partly compensated: 0 time series "uncompensated: 0 time series				
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*partly compensated: 0 time series				
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- 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
 - $\mathbb{D}_{\mathbf{k}}$ means that all the data in the time series was Compensated
 - means that the data is Uncompensated.