VisIT and SELFE plugin quick start

## Installation

**VisIT v2.4.0 installation**

Please download the VisIT v2.4.0 windows x64 binary package from <https://wci.llnl.gov/codes/visit/executables.html>

Let’s assume you install in *C:\Program Files\LLNL\VisIt 2.4.0*

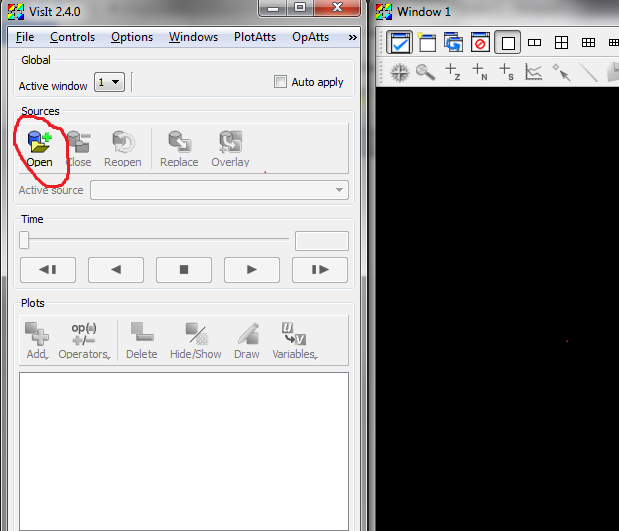
**Install the SELFE plugin**

Copy all the files in the visit\_selfe\_plugin\_win64.zip to *C:\Program Files\LLNL\VisIt 2.4.0\databases*

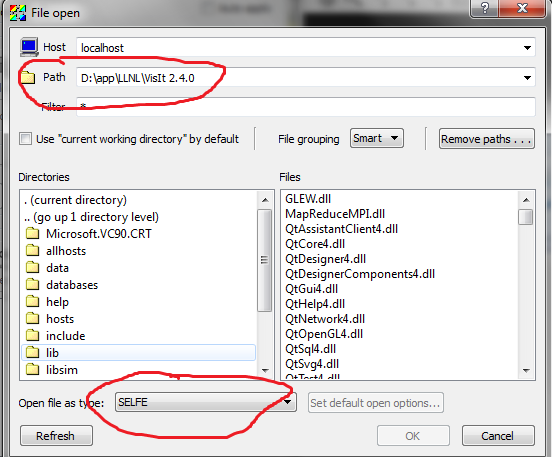
Run the visit by going to Start >> All Programs >> Visit 2.4.0

## Running the VisIT

Click on the **Open** icon as show below.

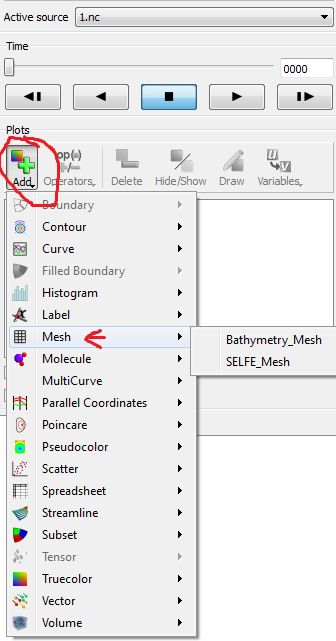


Specify the **Path** (directory) by typing the path, select the file / file grouping, and then set the **open file as type** to be **SELFE**.



#### Plot the Mesh

Click on the **Add** icon, then select **Mesh**, choose either *Bathymetry\_Mesh* or *SELFE\_mesh*

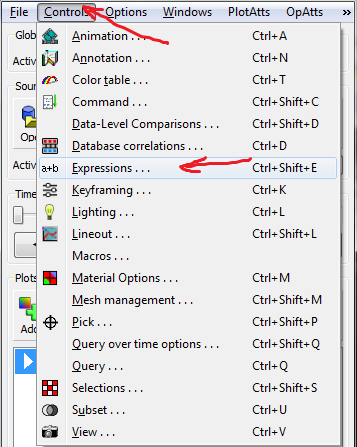


#### Plot Pseudoclor of variable

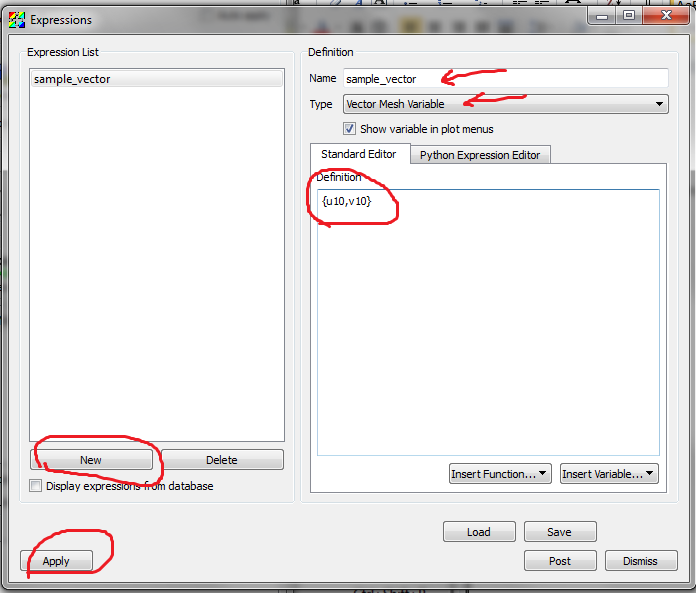
Similar to plot mesh, select **Pseduocolor**, then select the interested variables. For variable names in **xxx\_yyy** pattern, those variable means the variable **xxx** in **yyy** layer, the layer numbering staring from 1, follow the same direction as your NetCDF.

#### Plot vector variable

You need define the vector variable before plotting, to define the vector, simple click on **Controls** in the menu bar, then select **Expression…**.

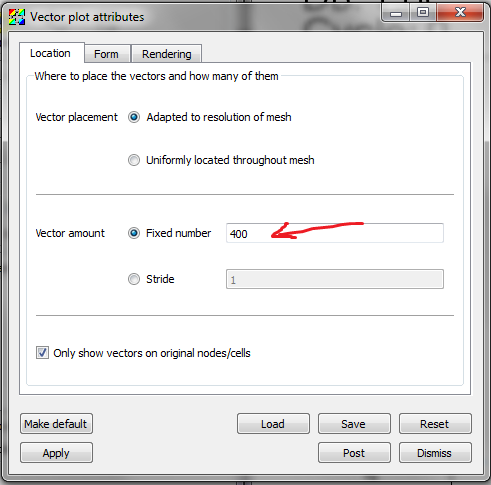


Then click **New** button in the opening window, enter the variable **name** to be *sample\_vector*, the **type** to be **Vector Mesh Variable**, enter the definition as *“{u\_10,v\_10}*” (replace the scalar variable name u\_10,v\_10 to your own variable, {} means vector), click Dismiss, your new vector variable will be auto saved as you typing.



To plot, similar to mesh, click the **Add**, select **Vector**, then choose the *sample\_vector* we just defined.

If you need to customize the vector plot, for example, increase number of plotings, simple click PlotAtts in the menu bar , then select Vector…, adjust the Vector Amount there.



To learn more about VisIT, please go to <https://wci.llnl.gov/codes/visit/doc.html>