

EMpower Data Visualization Tools



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Time Series and Spectra Viewers

Time Series and Spectra plots are available in Field QC and Manage modules

1. Select the Mode

- Time Series viewer
- Spectra viewer

2. Select the Data Type (e.g.)

- TD_24 (Sample Rate: 24000 Hz =24000 sps)
- TD_150 (Sample Rate: 150 Hz =150 sps)

*Data Type list will be different, depending on the Sampling mode and rate selected for the config file.

3. Use Viewing time from (GPS) to specify the starting time of the plot range

3.1. Specify the length of the viewing range using the Duration field.

3.2. Use chunks per slot navigation buttons to visualize a sparse decimation level (the length of each chunk is equal to the specified duration)



Time Series and Spectra Viewers

4. Use **Unify Vertical Scale** by, to choose the desired plot(s) scale

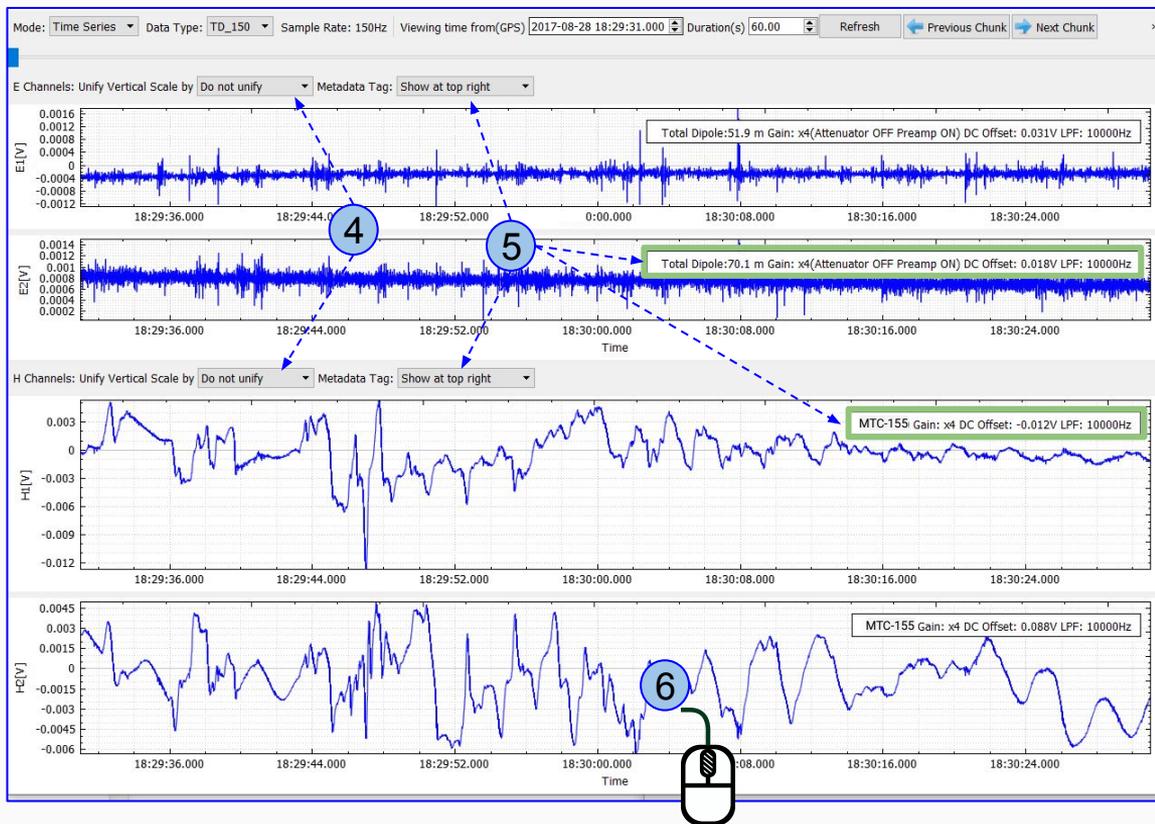
- **Do not unify**

To compare channels, prefer

- **Full data range** of Electric or Magnetic channels
- **Range of specific** Electric or Magnetic channel

5. Use **Metadata Tag** to position the legend within the plot

6. Use the scroll wheel to zoom in or out the **X** axis.



Navigating the Toolbar

1. Parameter type (*Resistivity, Impedance or Tipper*)

2. Visualization tools

-  **Show/Hide** the error bars
-  **Scale** to the error bars range
-  **Lock/Unlock** the current scale
 - Zoom in/out to the desired scale
 - Click on the lock icon to lock the scale to
**The lock state applies to all sites*

3. **Print** the current plot or **Export** to a CSV file

4. **Amplitude** (Log/Linear)

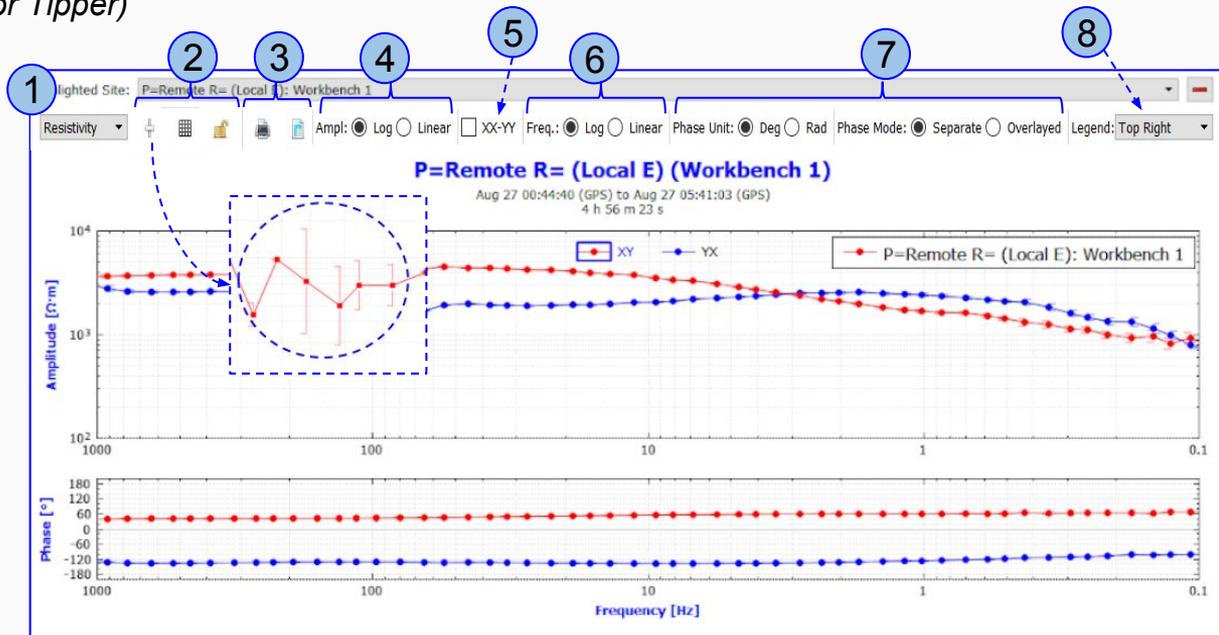
5. **XX-YY** Off-Diagonal components

6. **Frequency** (Log/Linear)

7. **Phase**

- **Unit:** Degrees/Radians
- **Mode:** Separate/Overlaid

8. **Legend** (*Top right/left and Bottom right/left*)



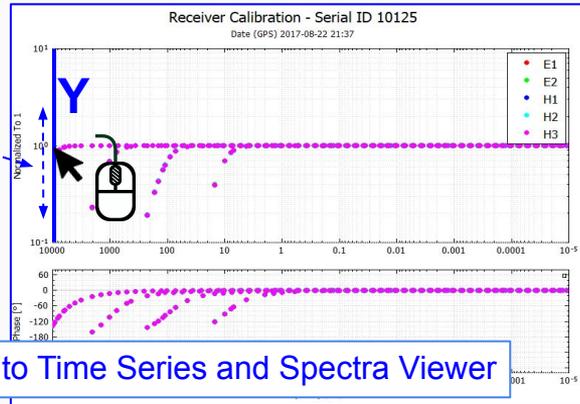
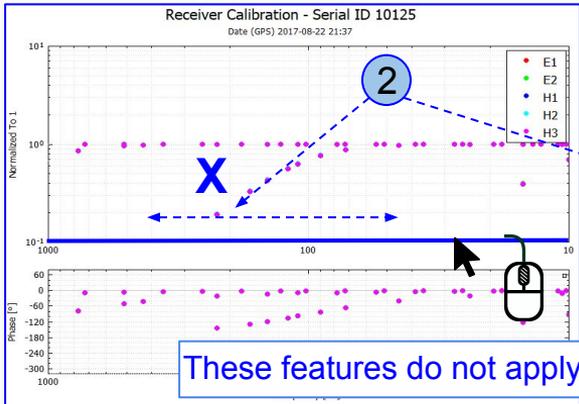
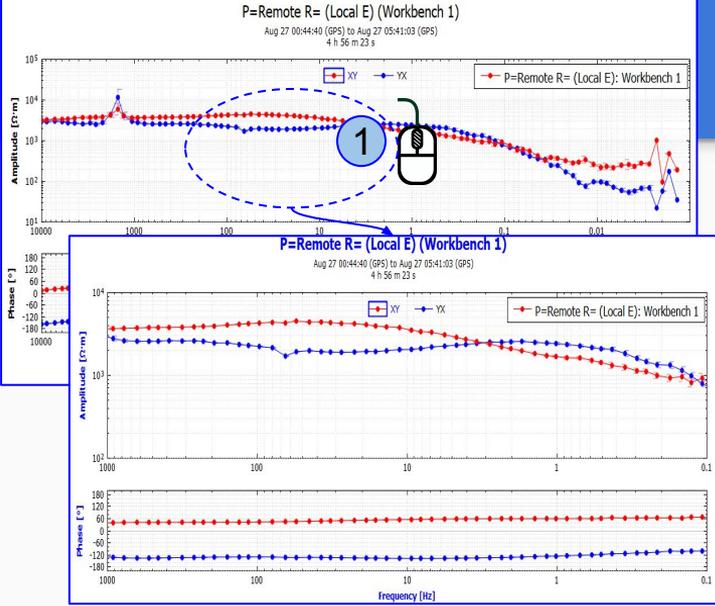
Toolbar navigation applies to:

- Processed Data tab
- Processing Queue
- Processed CSAMT data tab

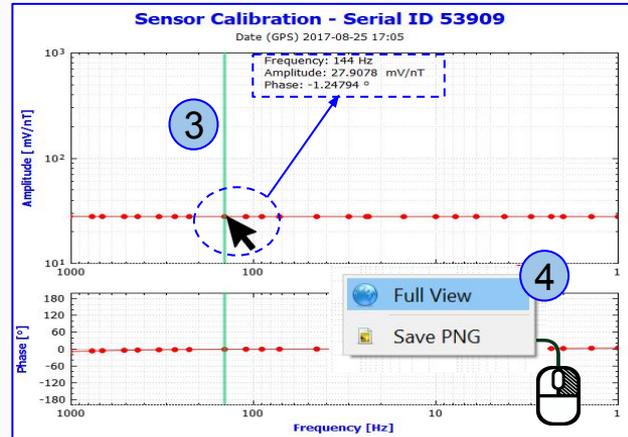
Plots Features

These functionalities are valid for every plots in Field QC and Manage modules.

1. Use the scroll wheel to zoom in/out on the X and Y axes.
2. Click on the X or Y axis to **highlight the axis in blue**, and use the scroll wheel to zoom in or out the **X or Y axis**.
3. Select a point on the plot to display its Frequency, Amplitude and Phase value (use the arrow keys to change the frequency).
4. Right click on the plot to choose **Full View** or **Save PNG** options.



These features do not apply to Time Series and Spectra Viewer



Processed PNT Data tab

Green	Approved
Yellow	Unapproved
Red	Rejected

This tab shows the Parallel Noise (PNT) processed sites

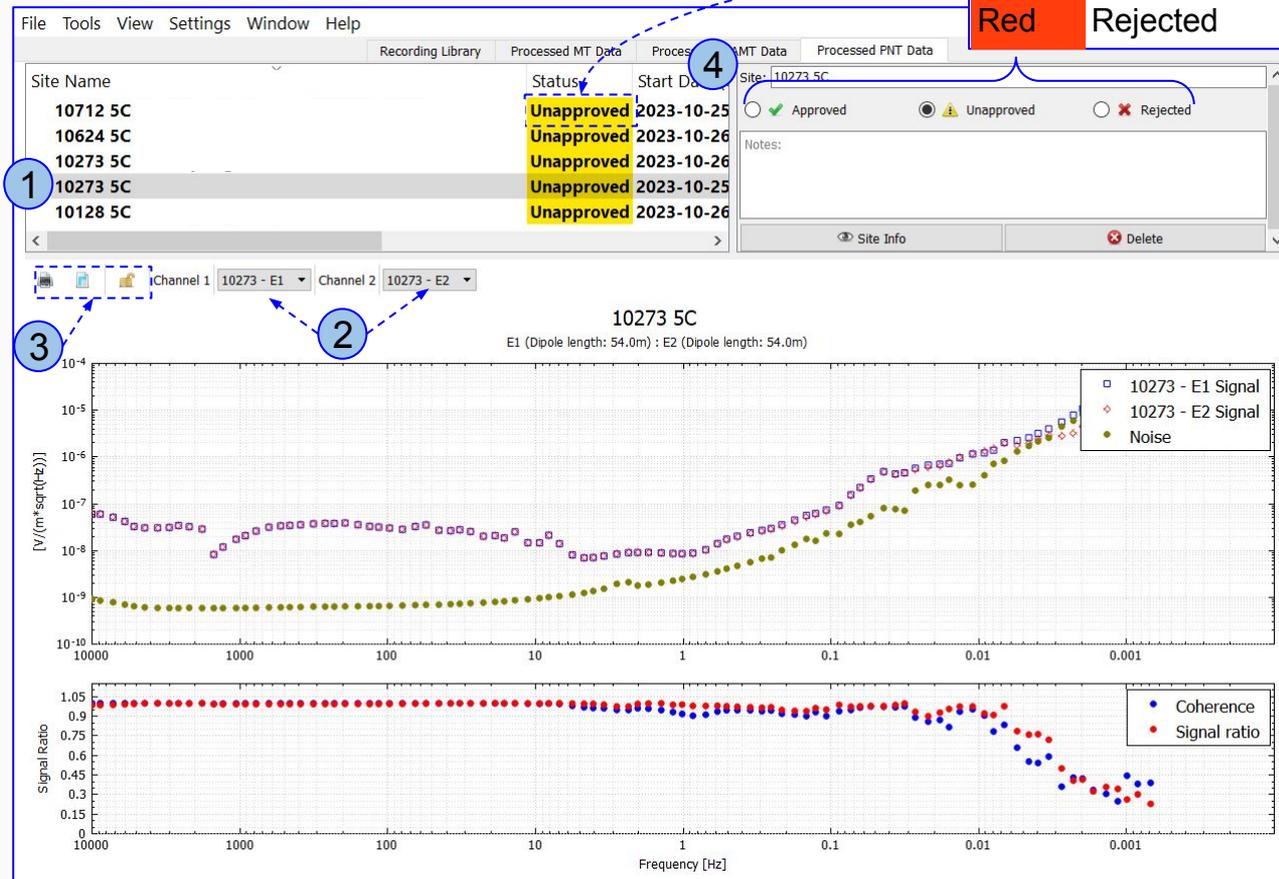
1. Select the **Site**

2. Select the **Channels Signal** to be displayed

3. Tools (see page 5)

- Print
- Export
- Lock/Unlock

4. Site Status



Crosspower Editor

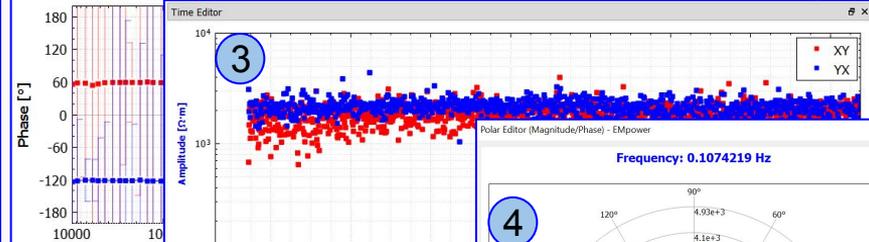
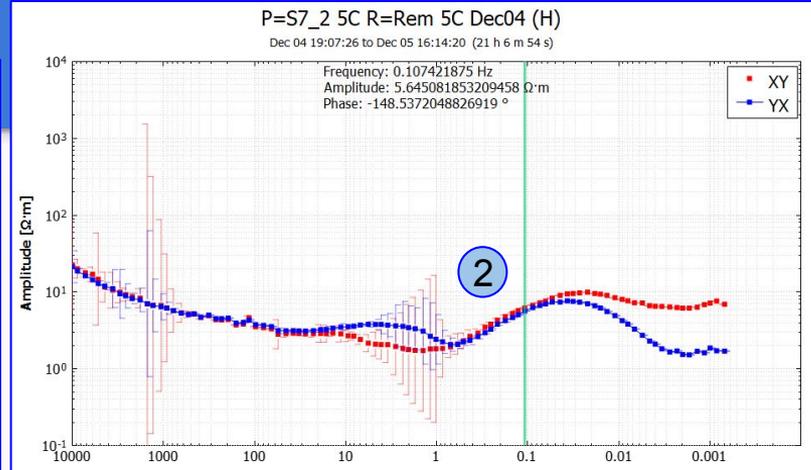
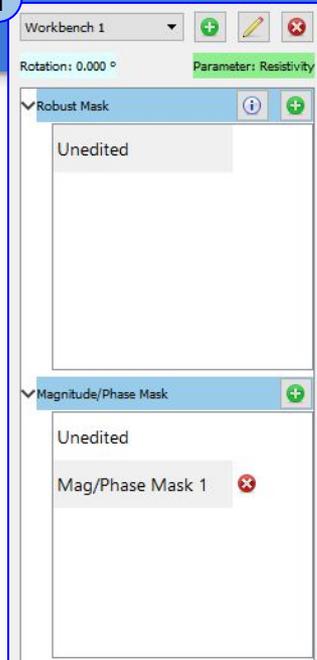
Processed MT Data

1. Each **Workbench** can contain multiple masks. The main plot will update as crosspower is added or removed from the selected mask
2. From the amplitude plot, select a **Frequency** to edit it
3. **Time Editor**, displays Amplitude/Phase crosspowers over time
4. **Polar Editor**, displays the crosspowers in two ways, Linear or Cubic

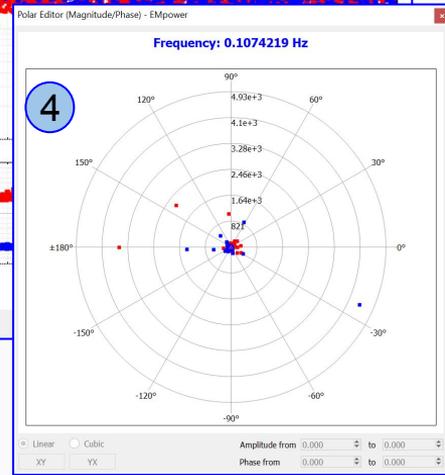
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For more details, consult the [DAA16 Crosspower Editor manual](#)

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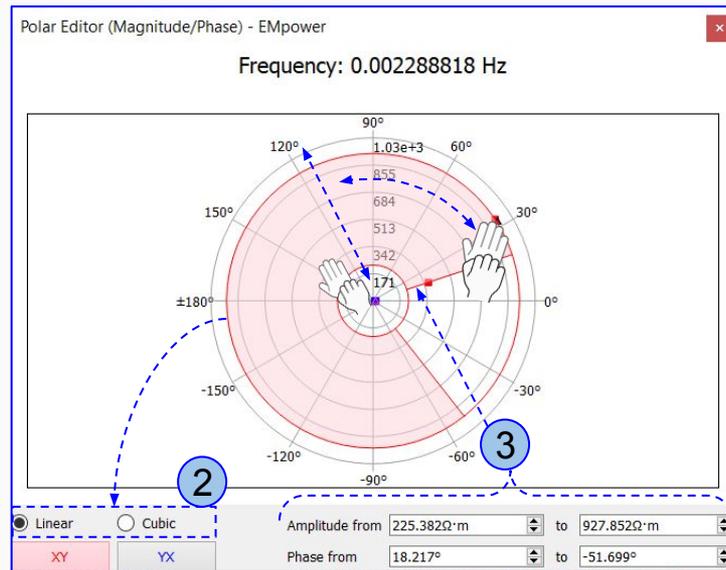
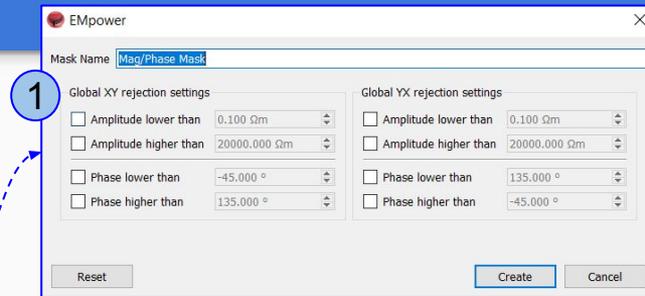
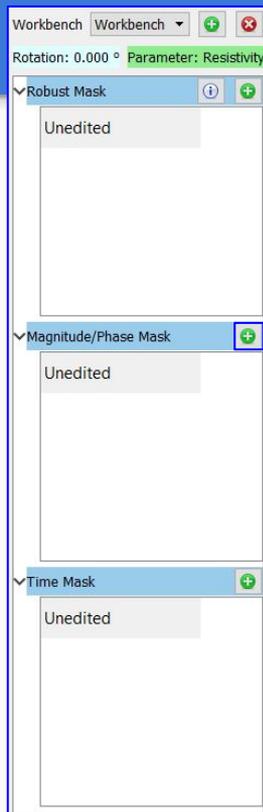


- Create Workbench / Mask
- Remove Workbench / Mask
- Edit Workbench name, to rename a mask, simply double-click on the name.



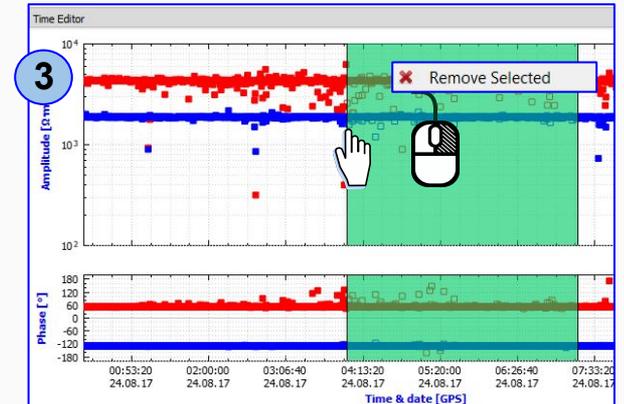
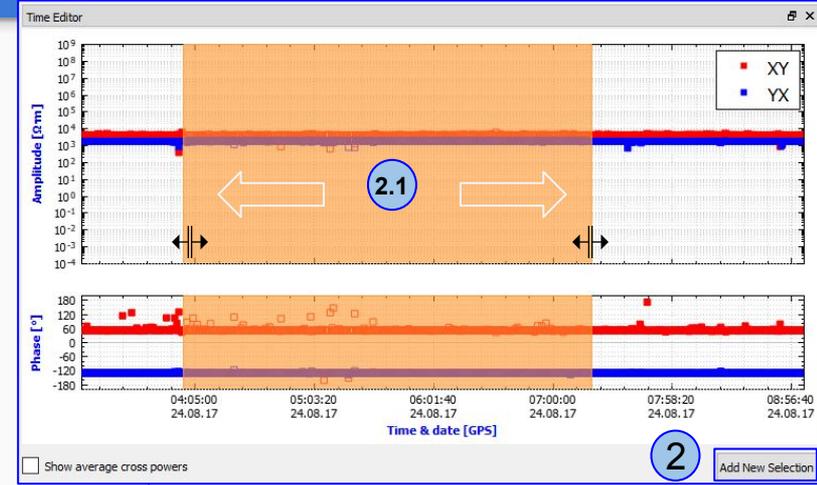
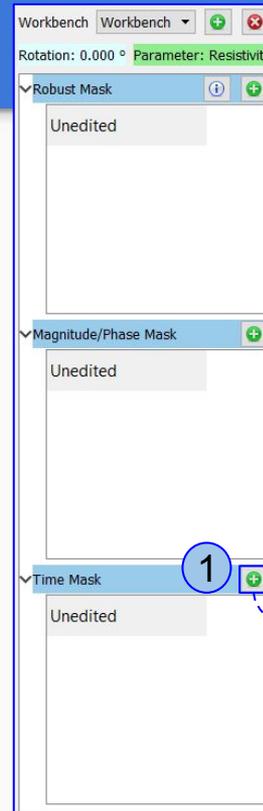
Polar Editor Features

1. Create a new **Mask** for the **Polar Editor**
 - Adjust the **XY** and **YX** rejection settings as needed
2. Select a **Frequency** and choose **Linear** or **Cubic** view
3. Click **XY** or **YX** button to switch between modes. Edit the ranges by either dragging the handles with the mouse or by manually entering values into the spin boxes. (see the [DAA16 Crosspower Editor manual](#))



Time Editor Features

1. Create a new **Mask** to activate the **Time Editor**
2. Add a rejection area by clicking the **Add New Section** button
 - 2.1. Define the area by dragging the handles with the mouse to the right or to the left. Repeat the process as needed.
3. To delete a section, simply select the area, right-click and choose **Remove Selected**





Please check out the [FAQs](#)

<https://phoenixgeophysics.freshdesk.com/>

Or email us at: support@phoenix-geophysics.com