

# 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

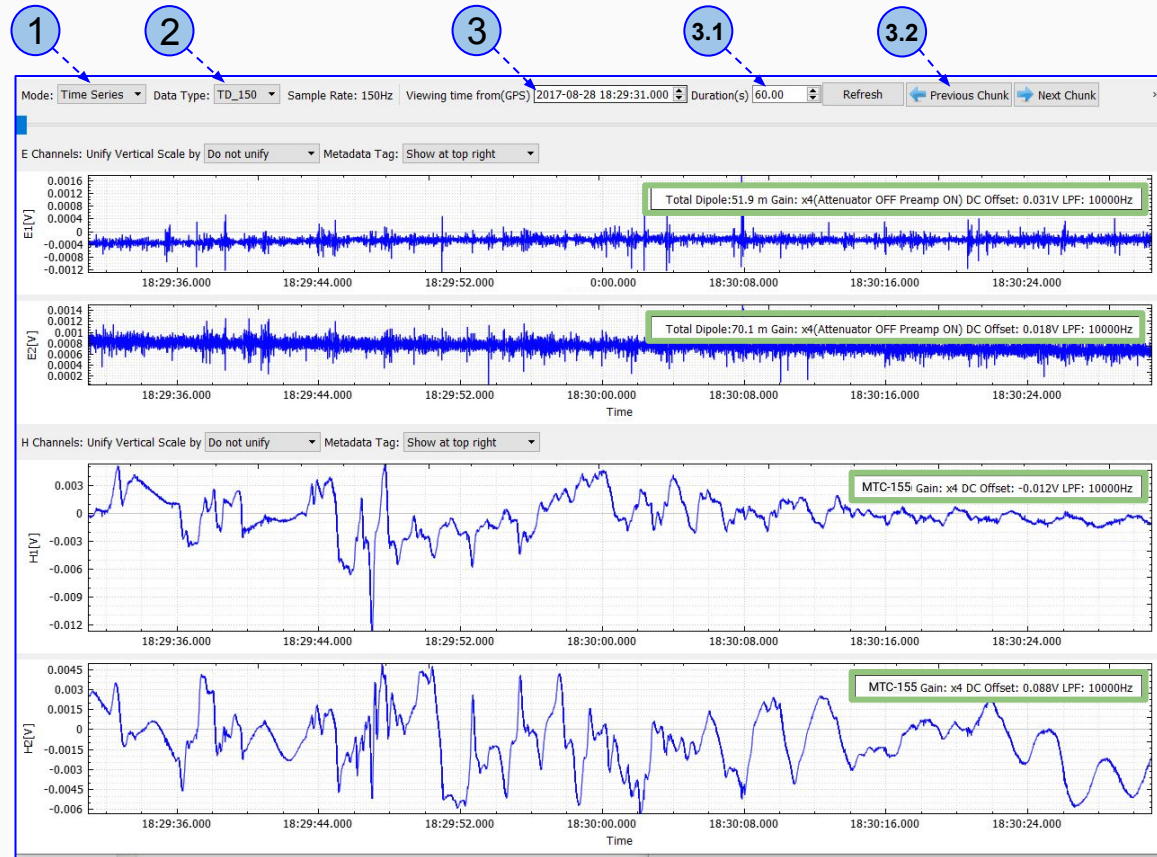
## 2. Select the Data Type (e.g.)

- 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

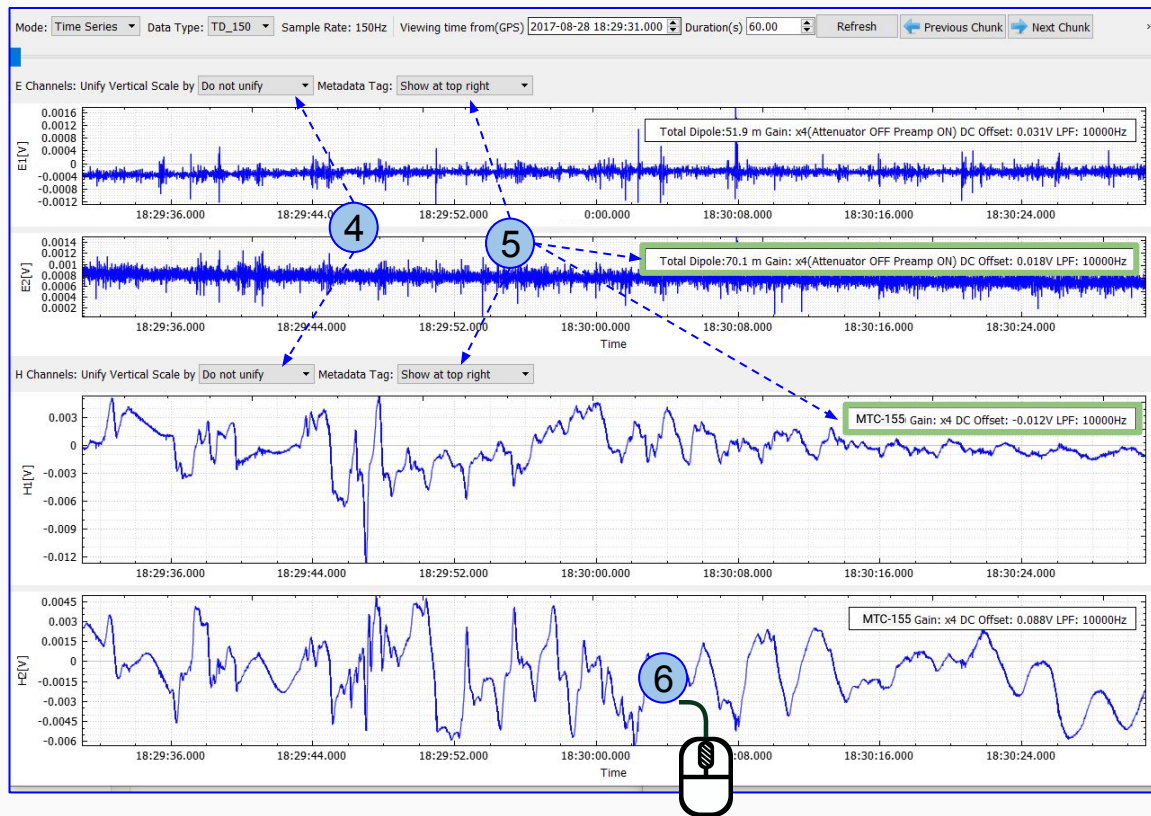
- **Do not unify**

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)

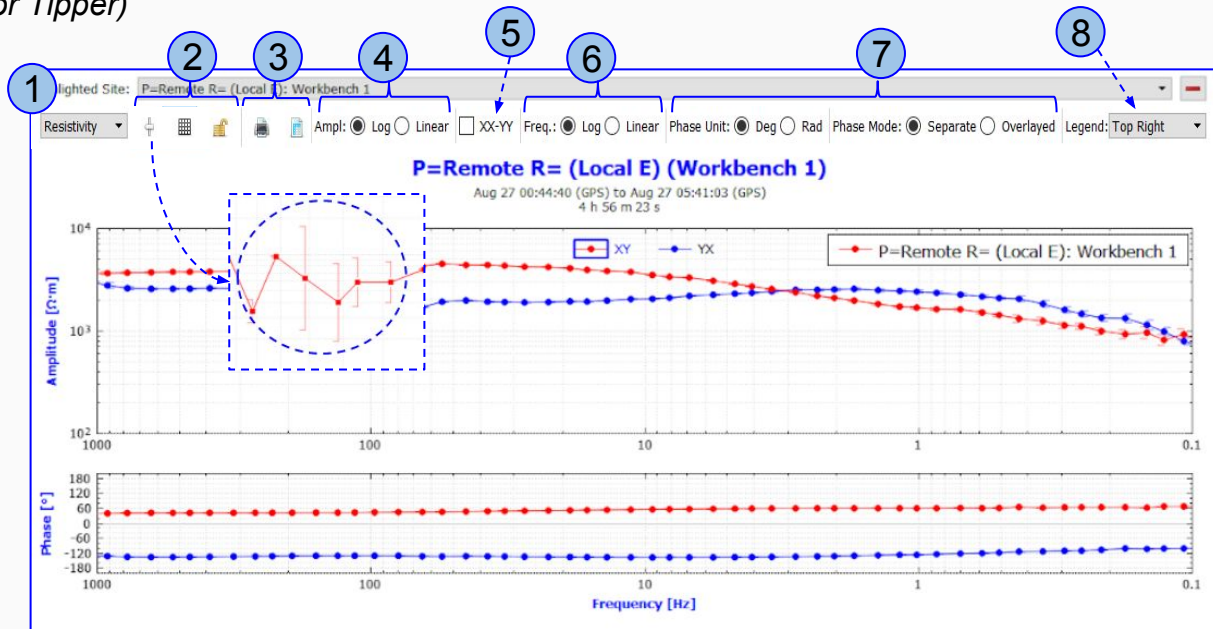
5. **XX-YY** Off-Diagonal components

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

7. **Phase**

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

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



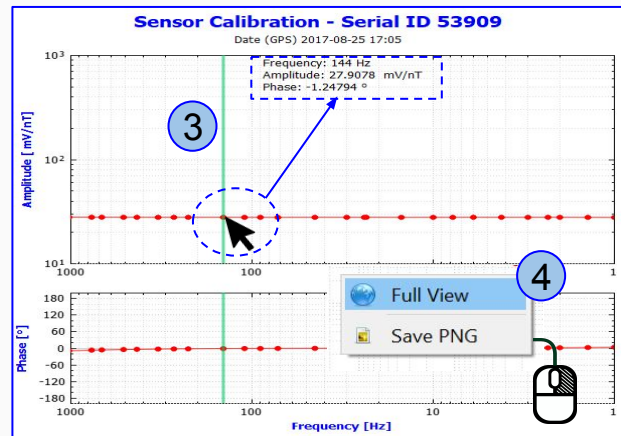
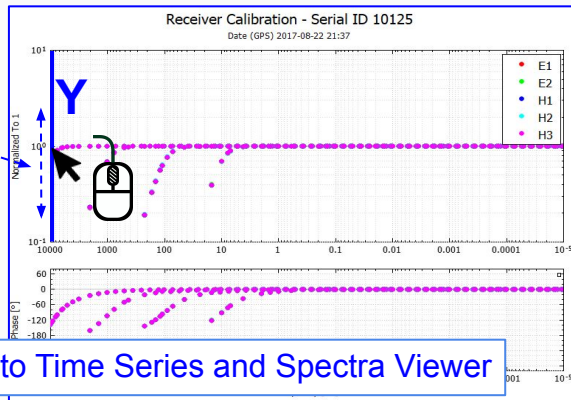
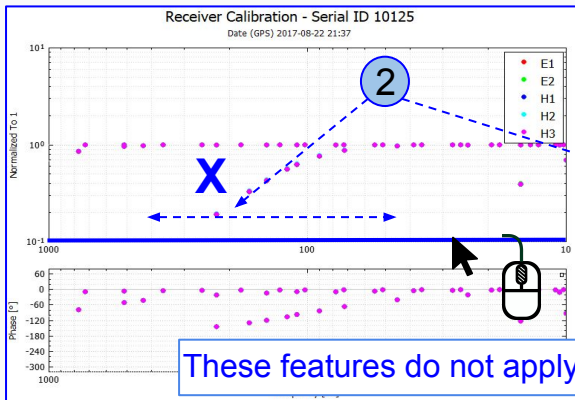
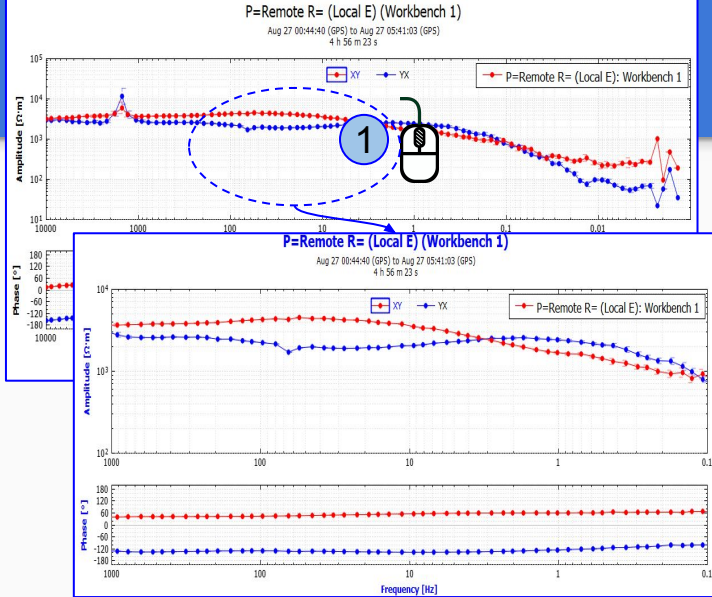
**Toolbar navigation applies to:**

- 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

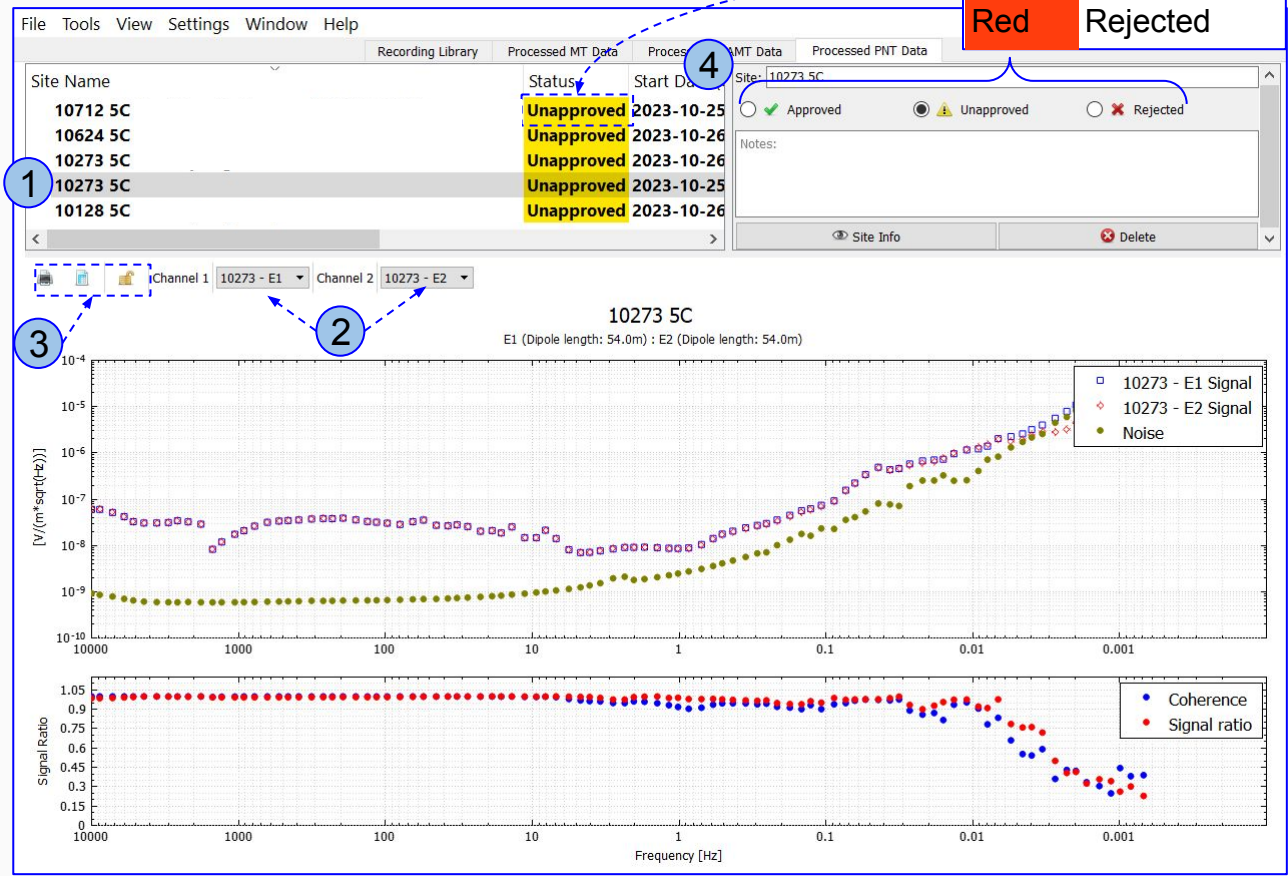
1. Select the **Site**

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

3. Tools (see page 5)

- Print
- Export
- Lock/Unlock

4. **Site Status**



# Crosspower Editor

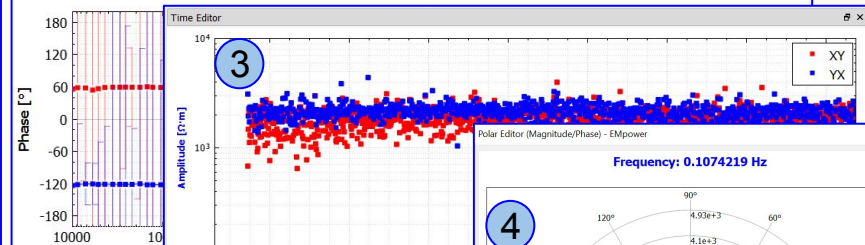
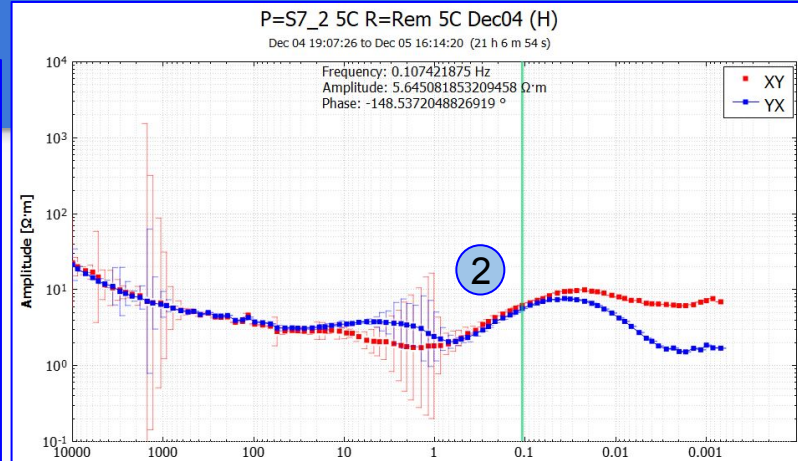
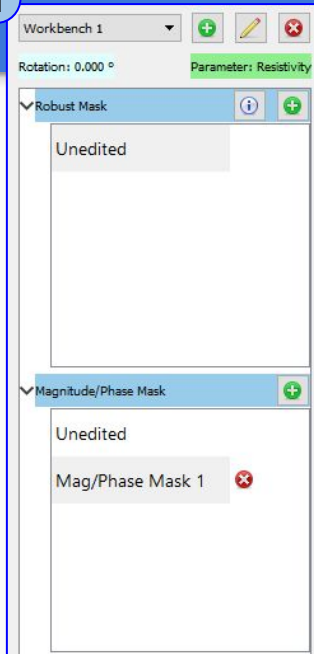
Processed MT Data

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

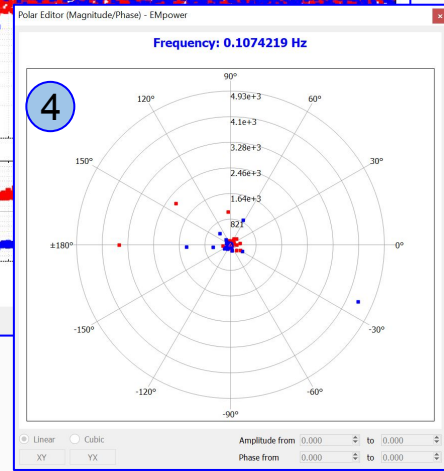
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For more details, consult the [DAA16 Crosspower Editor manual](#)

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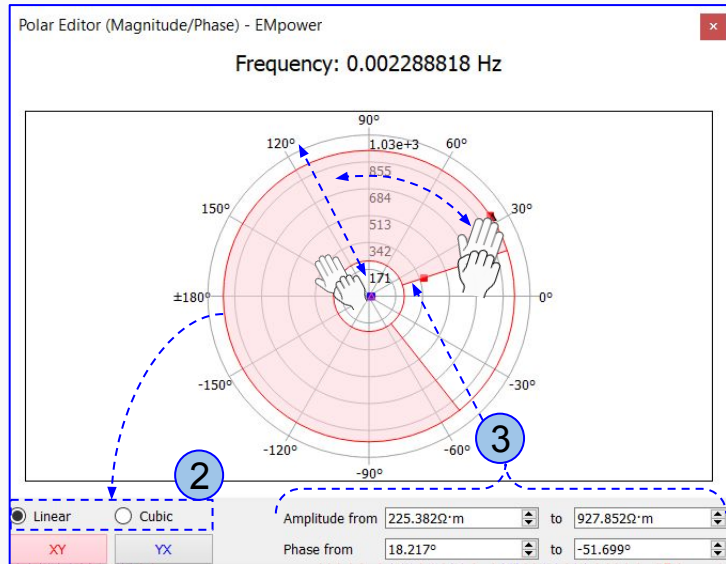
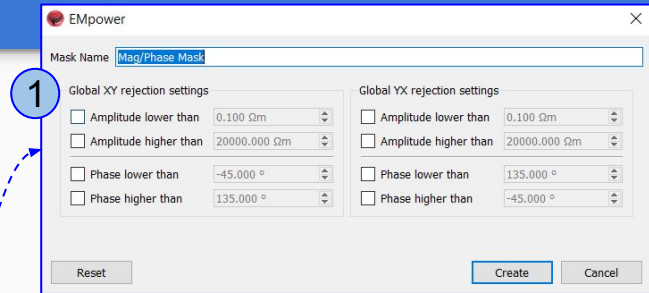
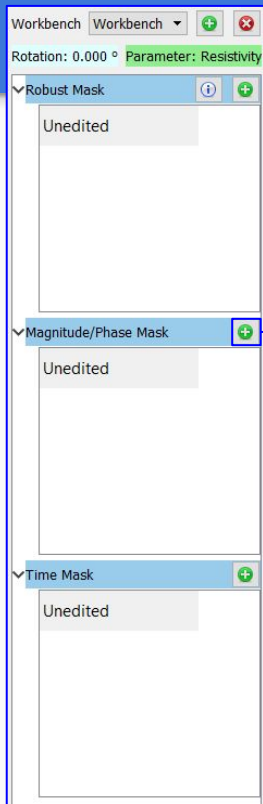


- Create Workbench / Mask
- Remove Workbench / Mask
- Edit Workbench name, to rename a mask, simply double-click on the name.



# Polar Editor Features

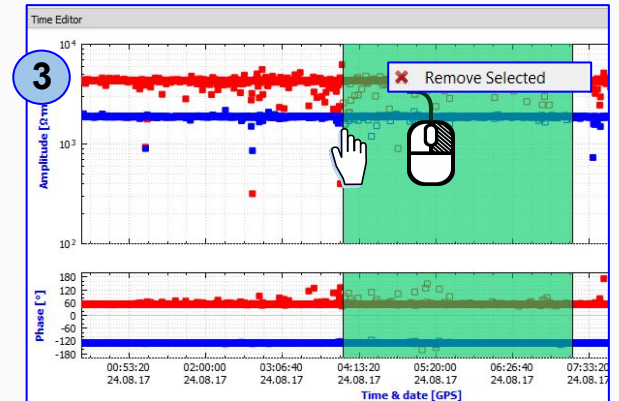
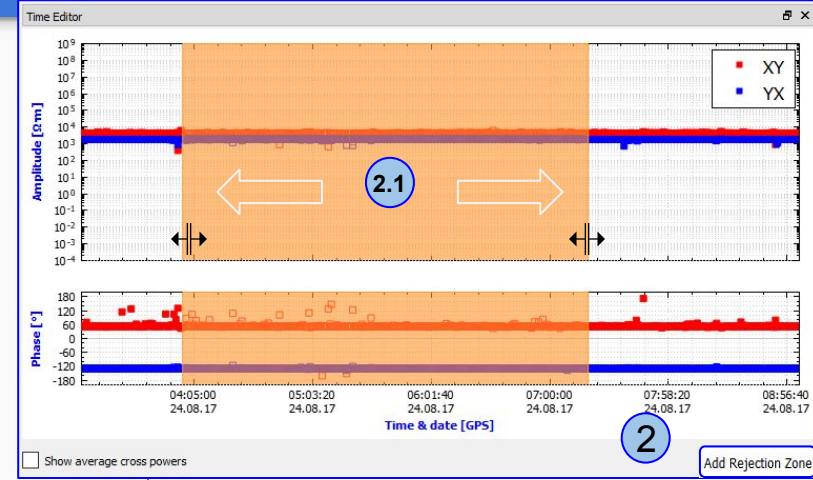
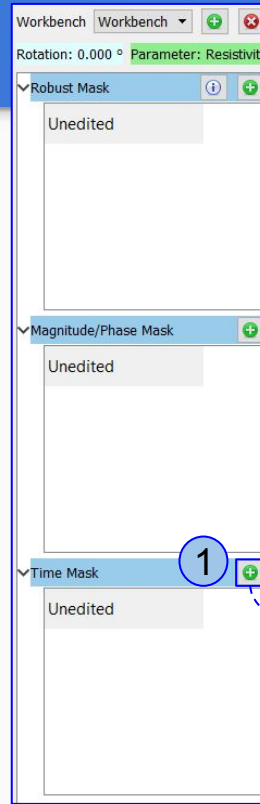
1. Create a new **Mask** for the **Polar Editor**
  - Adjust the **XY** and **YX** rejection settings as needed
2. Select a **Frequency** and choose **Linear** or **Cubic** view
3. Click **XY** or **YX** button to switch between modes. Edit the ranges by either dragging the handles with the mouse or 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](mailto:support@phoenix-geophysics.com)*