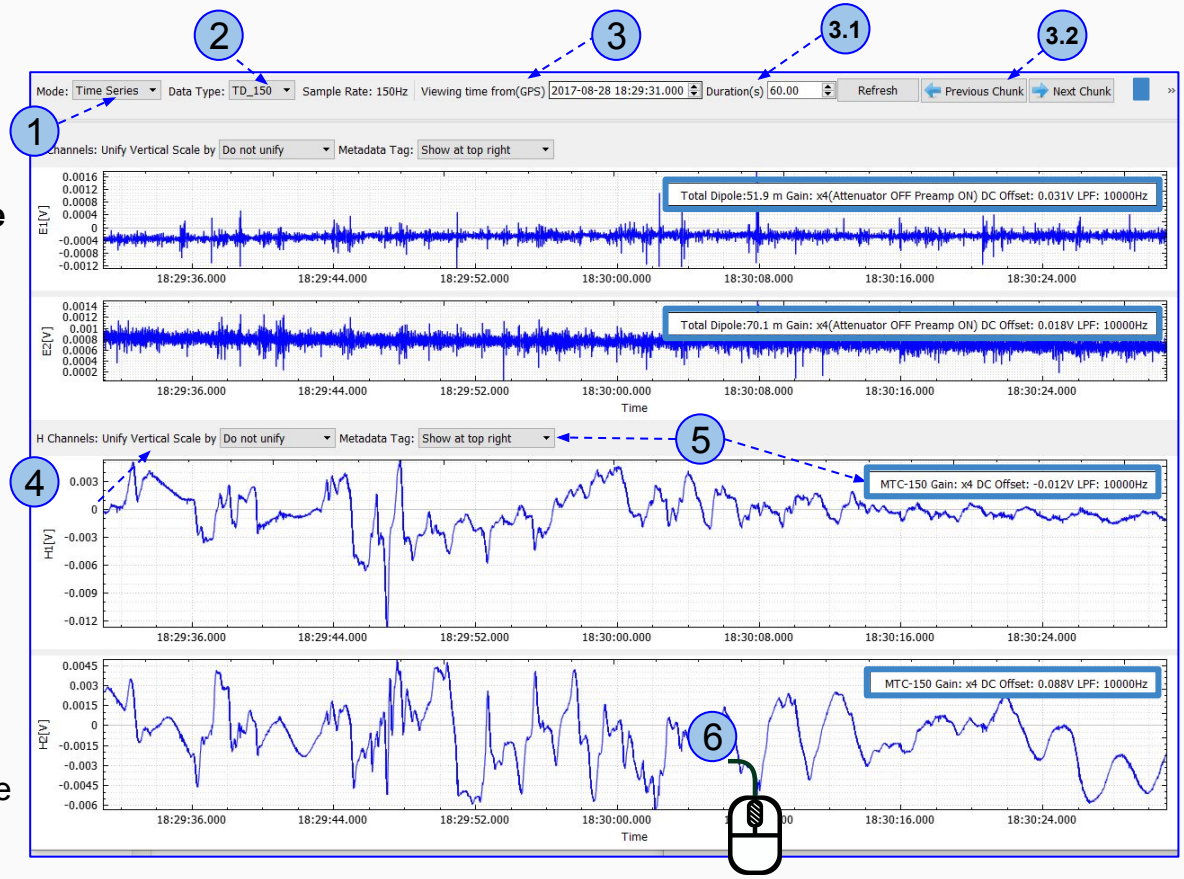
EMpower Data Visualization Tools

Time Series and Spectra

(Basic graphics)

1. Use the **Mode** drop-down list to switch between **Time Series** and **Spectra**
2. Select the **Sample Rate** using the **Data Type** drop-down list
3. Define the plot range start using **Viewing time from (GPS)**, the navigation buttons or the scroll selector
   - **3.1.** If viewing a continuous time series decimation level, define the view range length using the **Duration(s)** field
   - **3.2.** If viewing a sparse decimation level (i.e. TD_24) the length on the view will be on **chunks per slot**
4. Select scaling per plot using **Unify Vertical Scale by**
5. Use **Metadata Tag** to position the legend within the plot
6. Using the scroll wheel will zoom in or out in the X axis only.

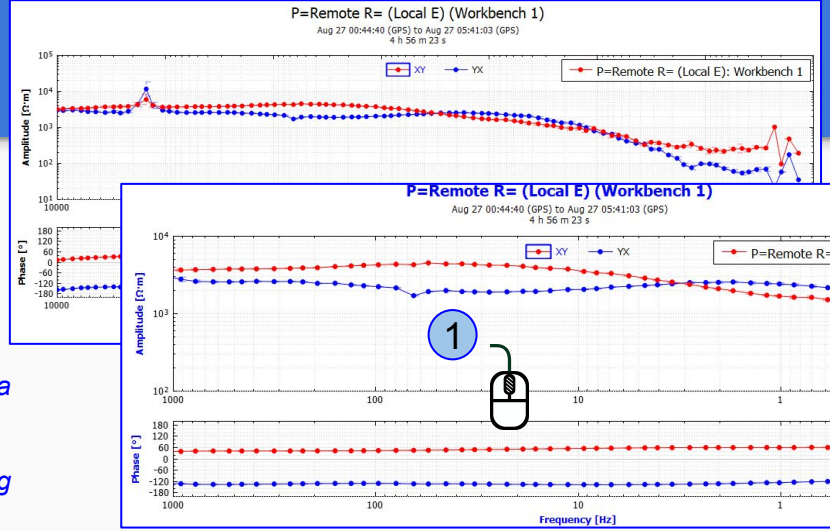


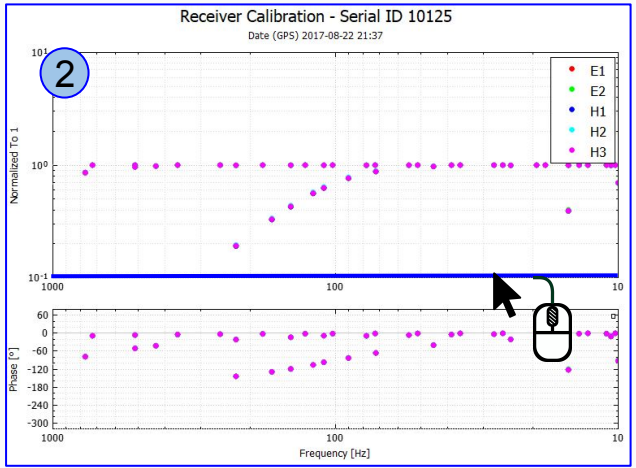
General Features

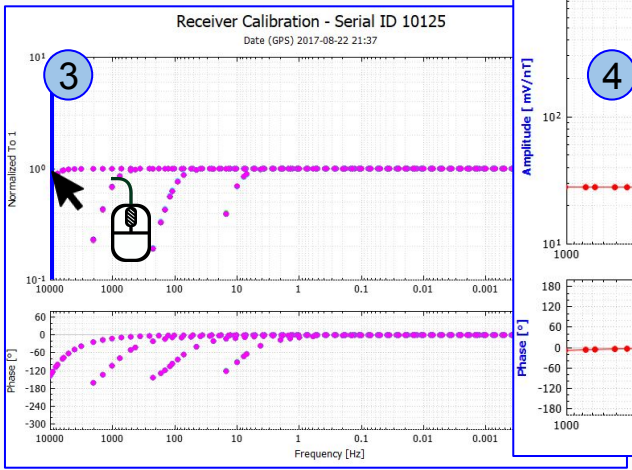
1. Zoom in/out using the scroll wheel, this will zoom on the Y and X axis.
2. Clicking the X-axis *(highlighted in blue)* to zoom in/out using the scroll wheel will zoom on **X-axis** only.
3. Clicking the Y-axis *(highlighted in blue)* to zoom in/out using the scroll wheel will zoom on the **Y-axis** only.

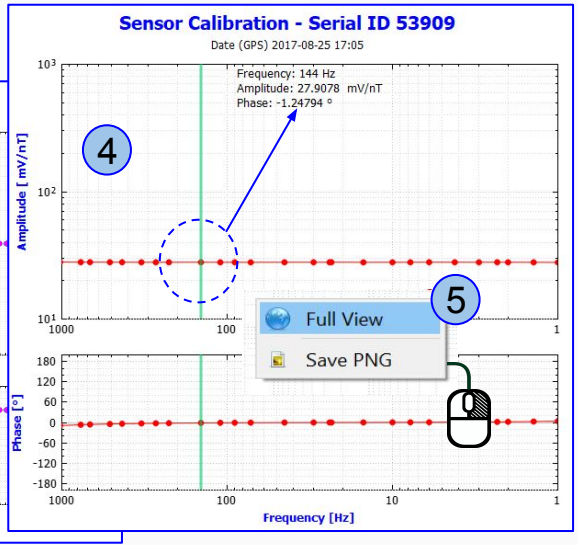
**These features do not apply to Time Series and Spectra*

4. Click on a point to see information about the selected point *(use the arrow keys to move between points)*. **This information may be different depending on the plot*
5. Right clicking on the plot, offers the options **Full View** or **Save PNG**

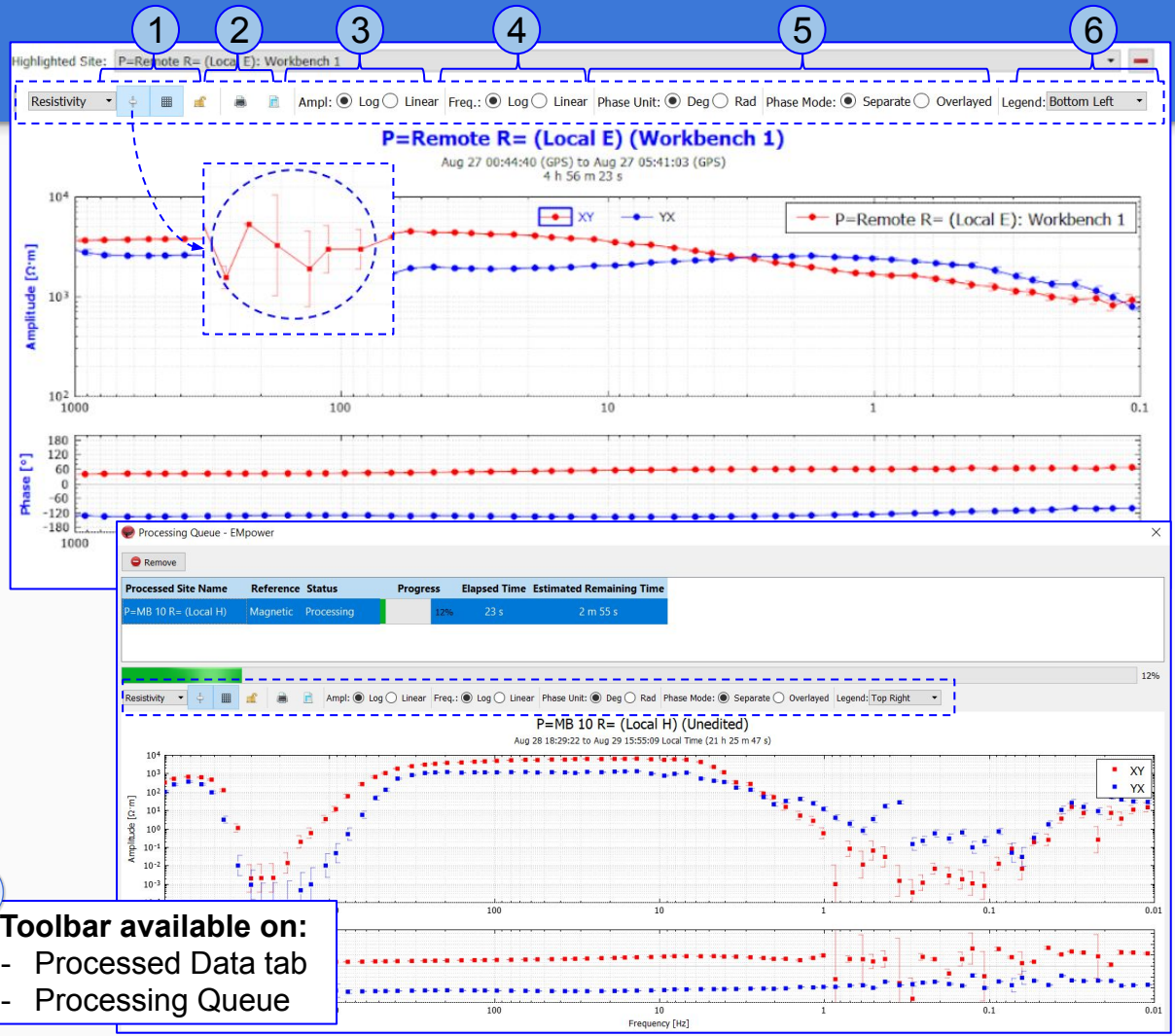








Toolbar Description



1. Visual tools

- Shows/hides error bars range
- Grid icon scales the view to the error bars
- Lock /Unlock plot scale *(applies to all sites)*
  - Zoom in to the desired scale
  - Click on lock icon to lock the plot scale to the current state

2. Print / Export to a CSV file

3. Amplitude (Log/Linear)

4. Frequency (Log/Linear)

5. Phase

- Unit: Degrees / Radians
- Mode: Separate / Overlayed

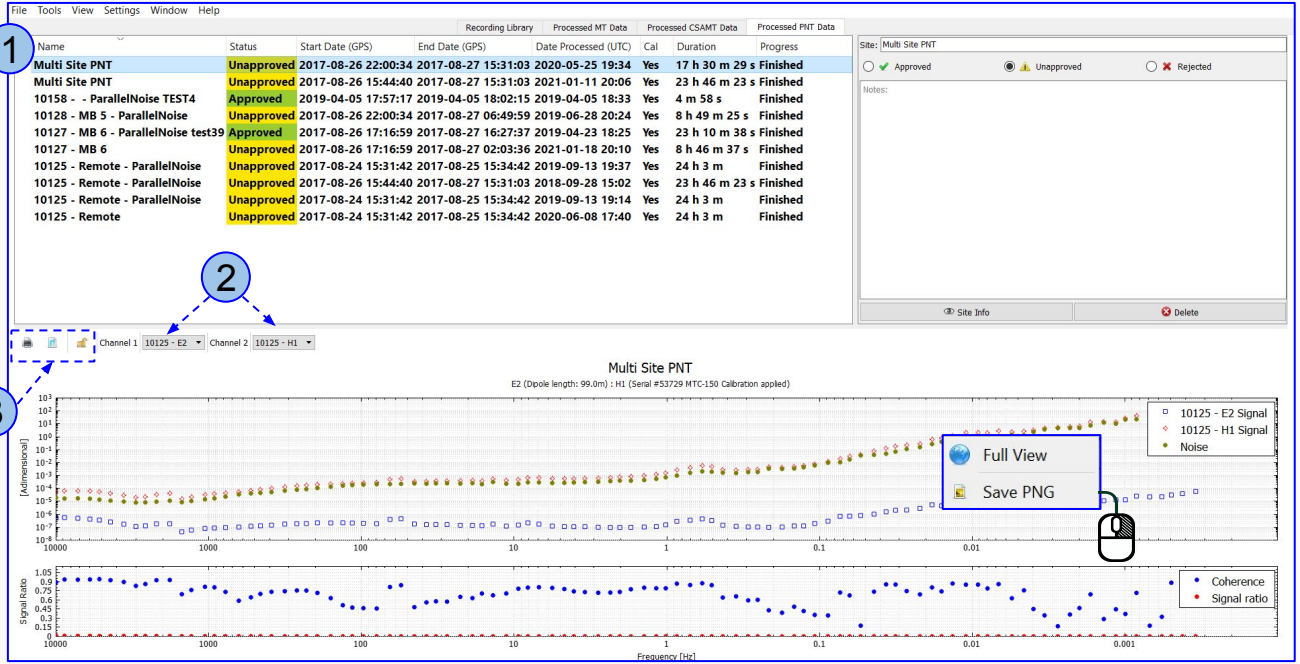
6. Legend *(Top right/left and Bottom right/left)*

Toolbar available on:
- Processed Data tab
- Processing Queue

Processed PNT Data Plot

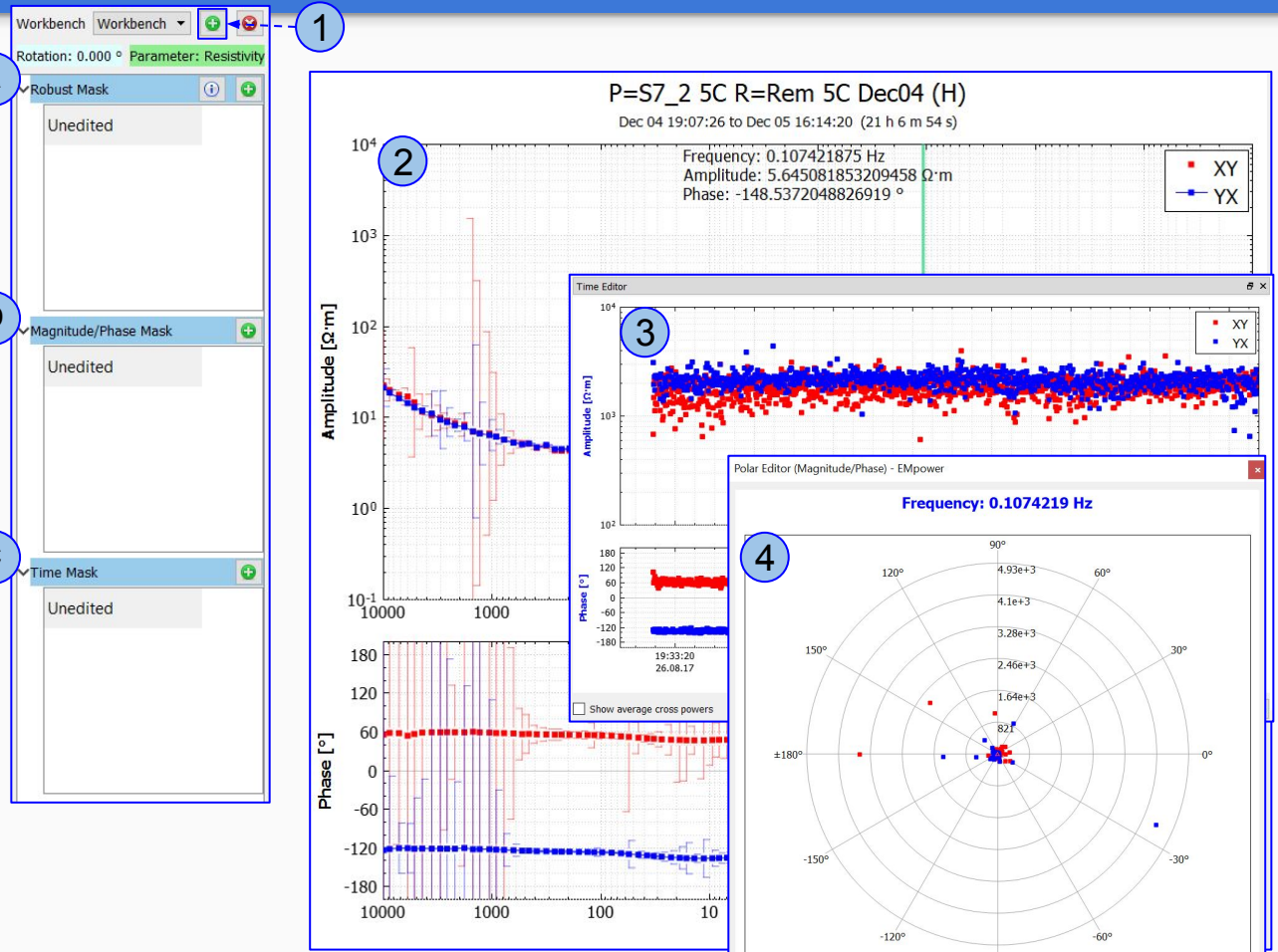
This tab shows the Parallel Noise recordings

1. Select the **Site**
2. Select the **Channels Signal** to be displayed
3. Tools
   - **Print** the plot
   - **Export** the values in CSV format
   - **Lock / Unlock** plot scale



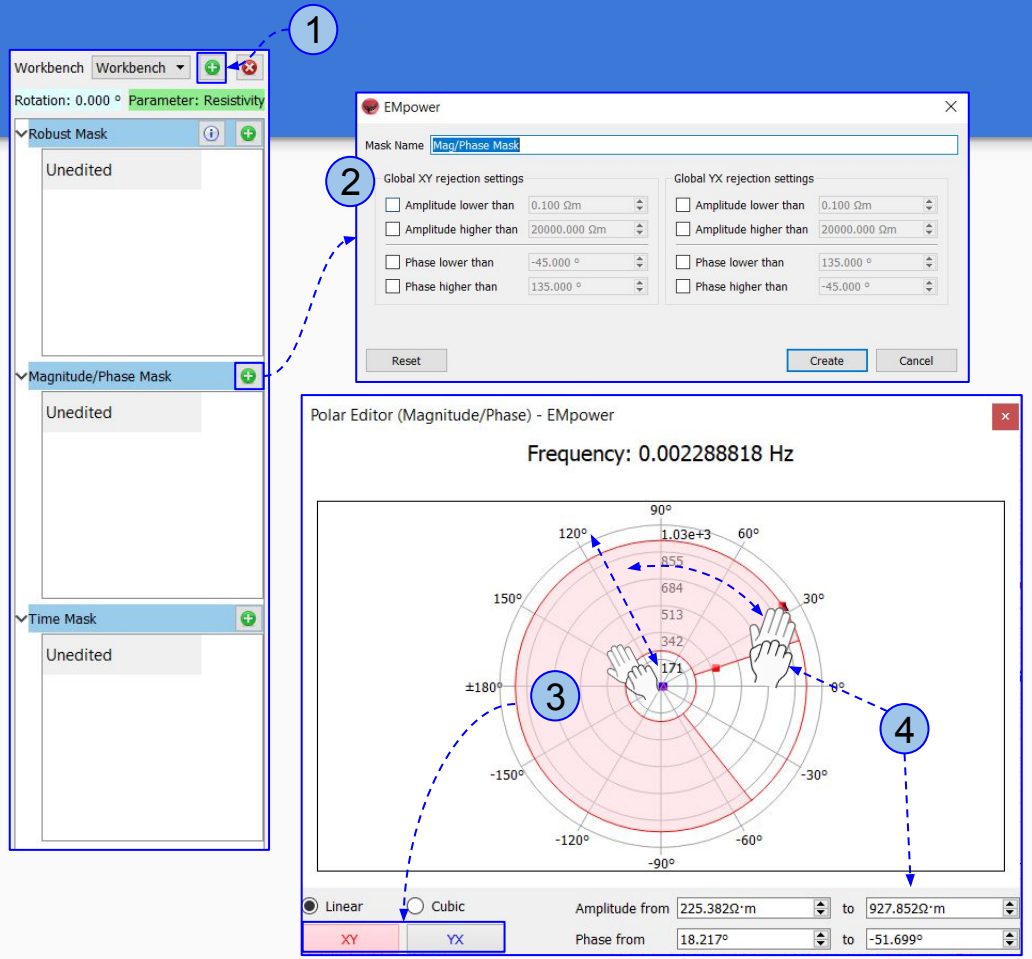
Edit Cross Powers

1. Workbench manager
   - Create a new workbench
   - Create masks for
     - **a -** Robust Mask
     - **b -** Polar Editor
     - **c** - Time Editor
2. From the resultant plot *(select frequency)*
3. Time Editor
   - Shows how data changes over time
4. Polar Editor *(Expressed in polar coordinates, with radius as a function of angle)*



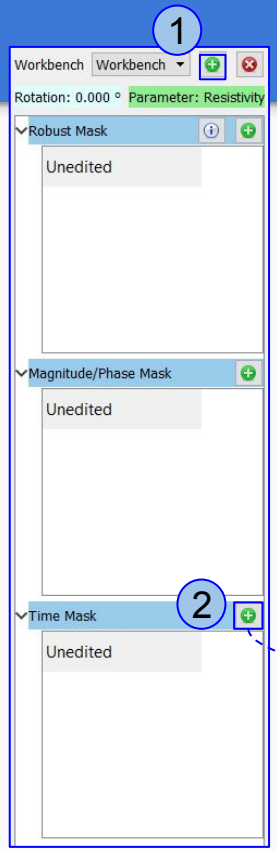
Polar Editor Features

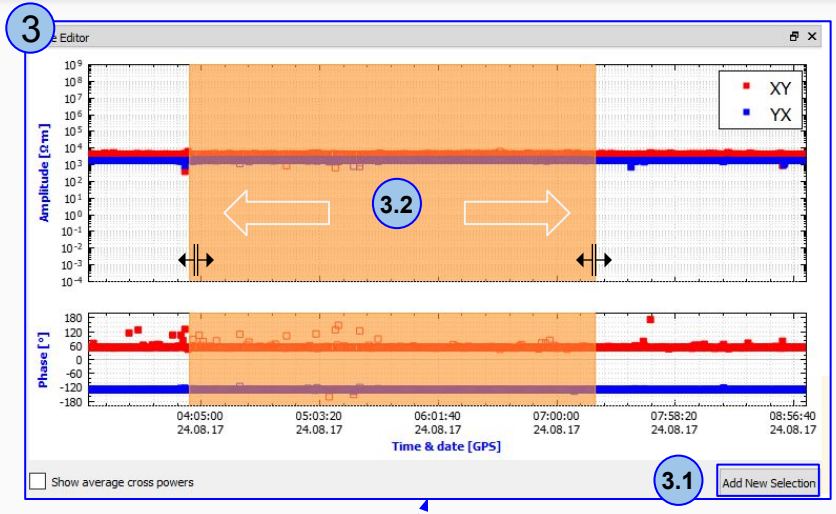
1. Create a new Workbench
2. Create a new Mask for the Polar Editor
   - Adjust the Global **XY** and **YX** rejection settings as needed
3. Choose a Frequency and select from the **Linear** or **Cubic views**
4. Click XY or YX button to switch between ranges. Edit the ranges by either dragging the handles with your mouse or manually entering values into the spin boxes. (see the *Crosspower Editor*)

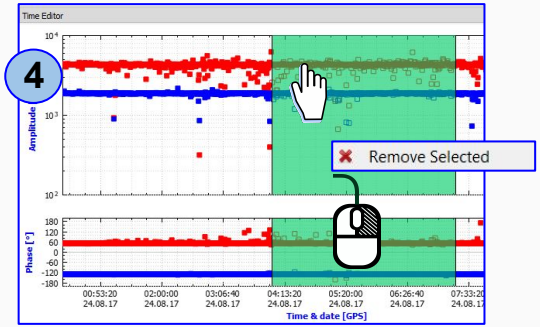


Times Serial Editor Features

1. Create a new **Workbench**
2. Create a new **Mask** for the **Time Editor**
3. To Add a New rejection area
   - **1.1.** Click the a **Add New Section** button
   - **1.2.** Select the area by dragging the handles with the mouse to the right or left.
4. Right-click to delete the selection







Technical Support

Please check out the FAQs
https://phoenixgeophysics.freshdesk.com/
Or email us at: *support@phoenix-geophysics.com*