Main Interface Description

Required Parameters

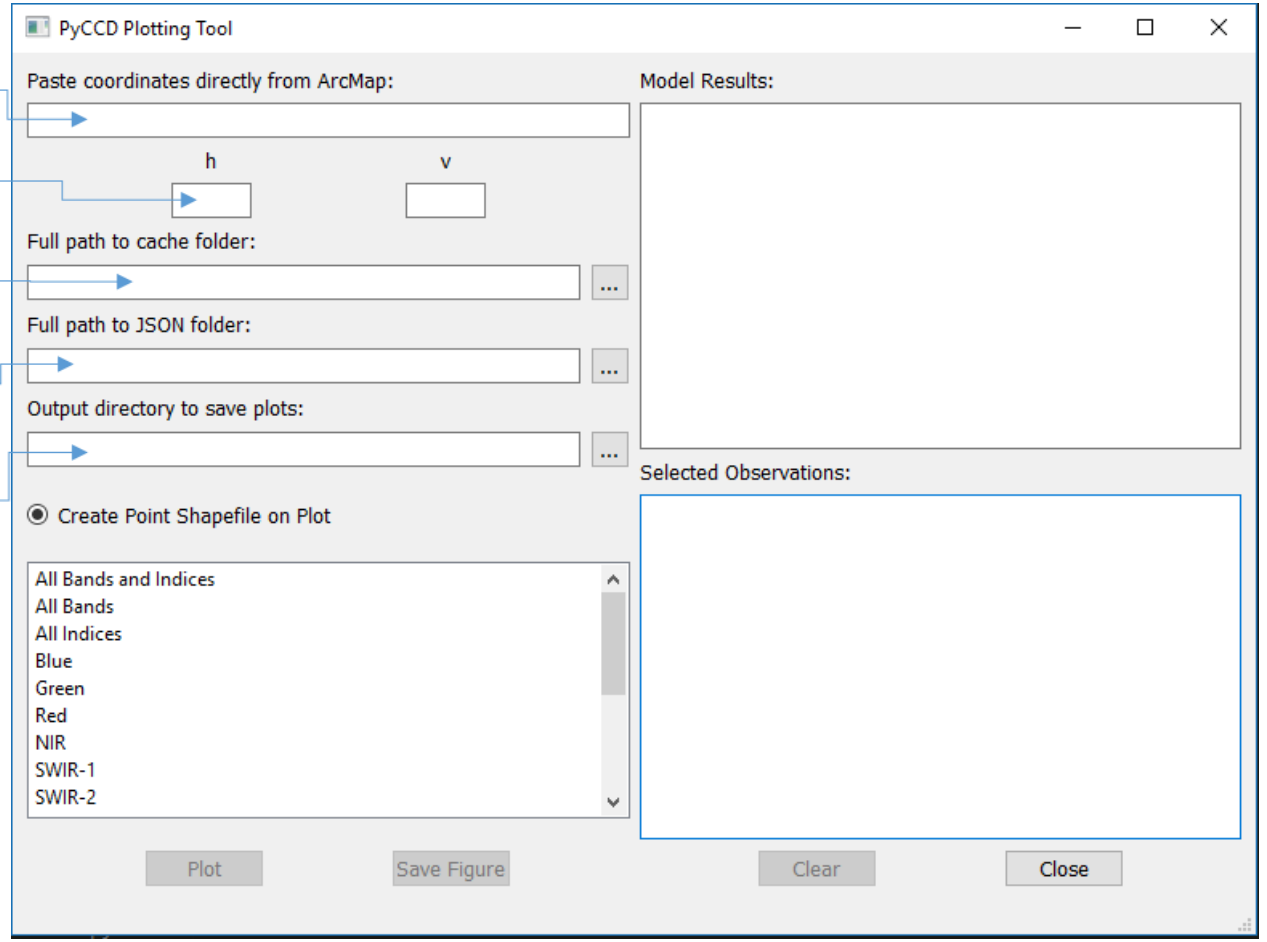
Enter the pixel coordinates where time series data will be obtained

Enter the H and V for the ARD-tile that contains the entered pixel coordinates

Enter the full path to the location of the ARD-tile cache files.

Enter the full path to the location of the ARD-tile .json files

Enter the full path to the directory where plot figures and shapefiles will be saved



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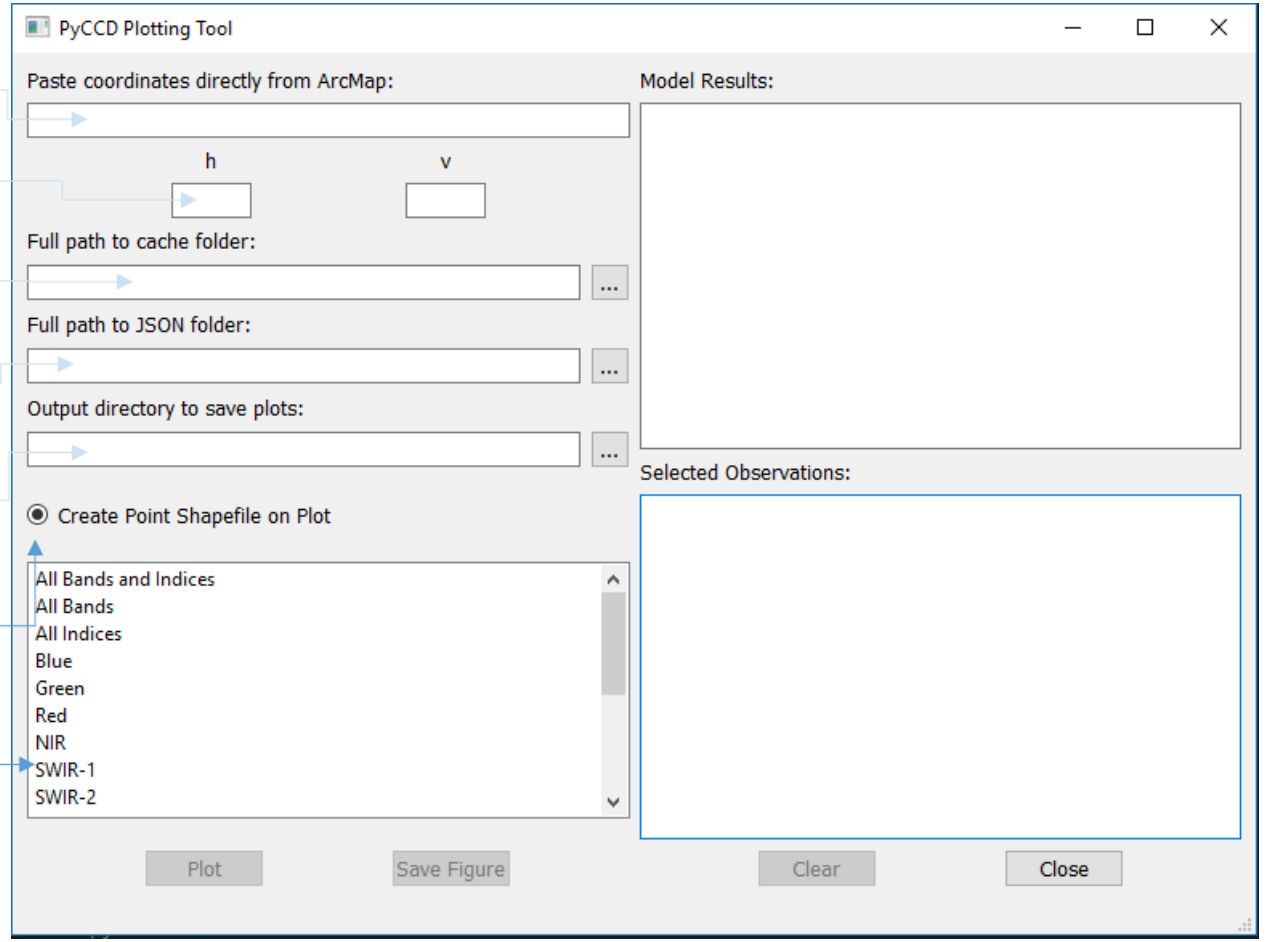
Additional Options

Toggle on/off to create an ESRI point shapefile each time “Plot” is clicked

Select which bands and indices to plot “All Bands and Indices” is default option



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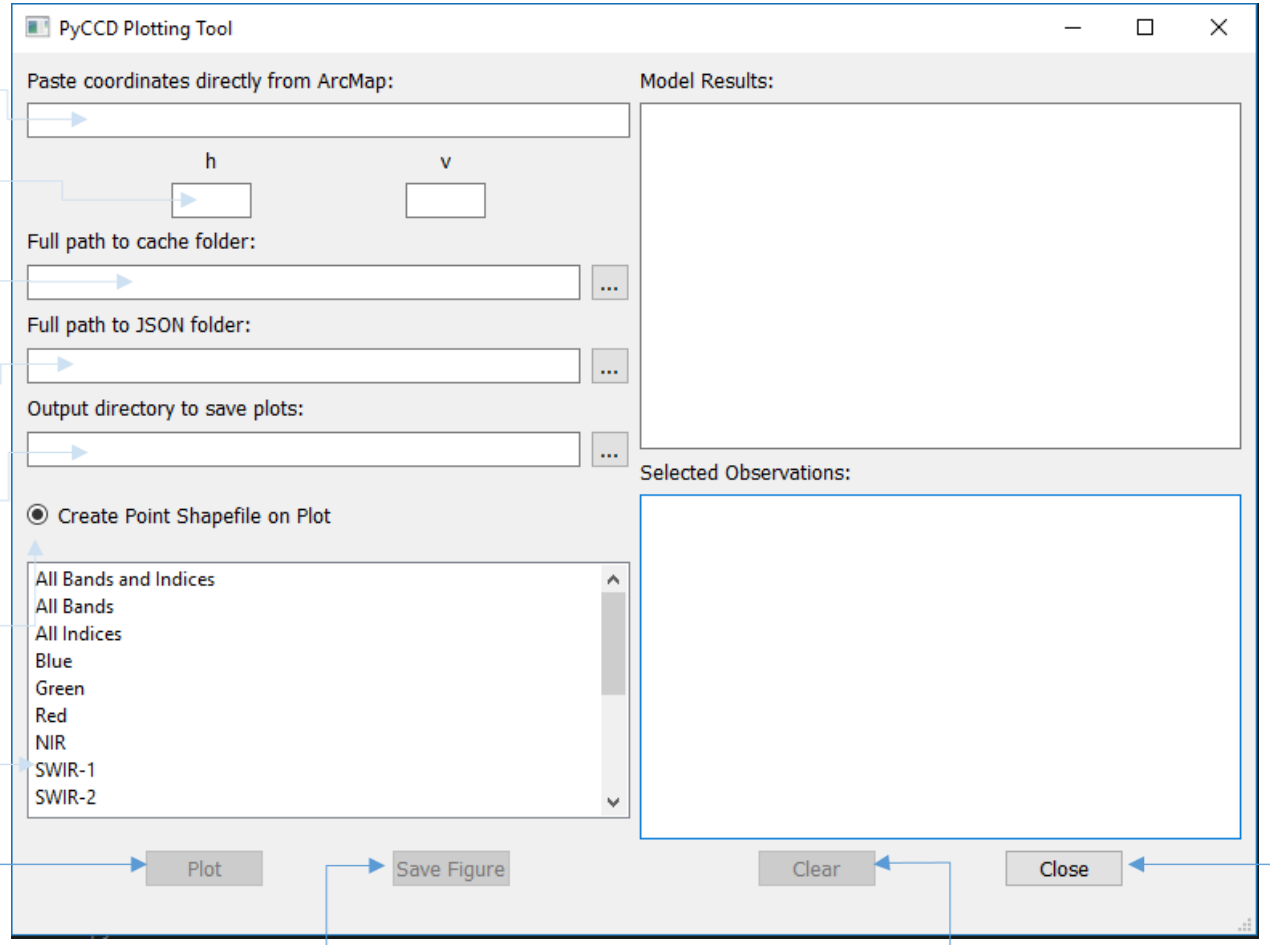

Controls

Plot: Activate the plotting and display the interactive plot figure. Closes the current figure if one is open.

Save Figure: Save the current figure to a .png

Clear: Clear the selected observations

Close: Exit out of the GUI and close the plot figure if it is open

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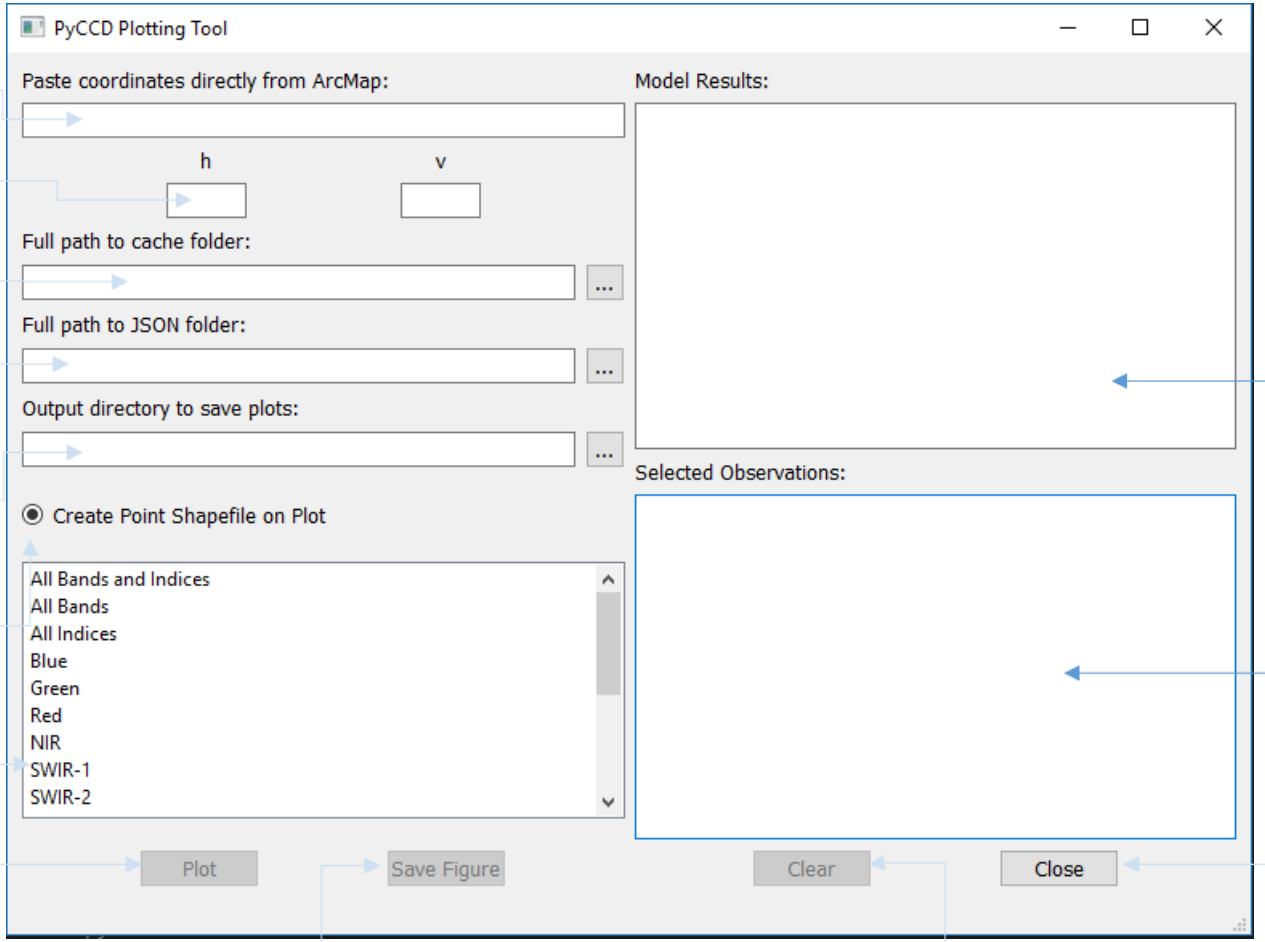


Output

Model Results: Parameters for each of the time-series segments at the given coordinate are displayed

Selected Observations: Each observation point clicked on the plot figure will be displayed here along with its band or index value, date of acquisition, and scene identifier

Controls

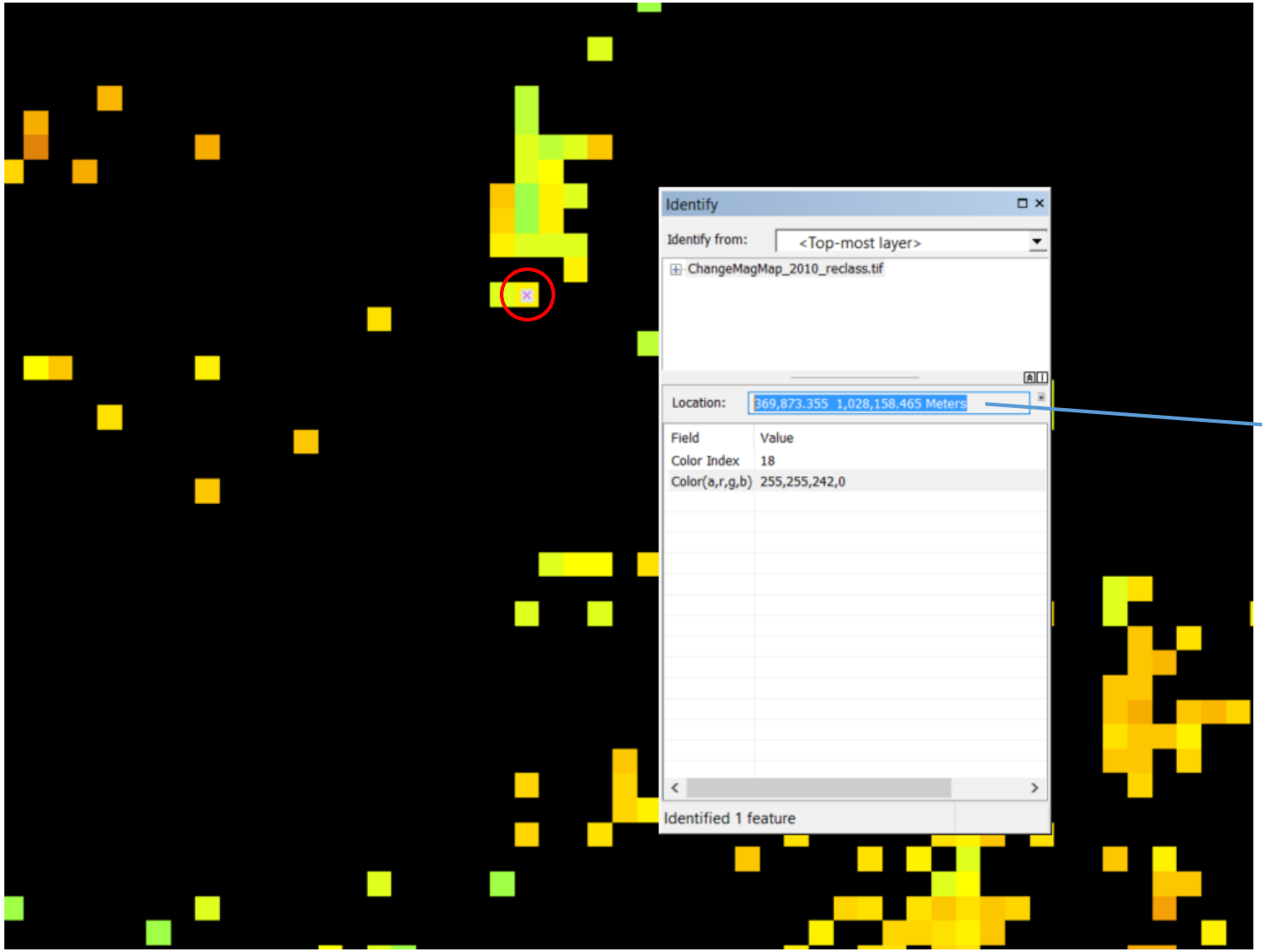
Plot: Activate the plotting and display the interactive plot figure. Closes the current figure if one is open.

Save Figure: Save the current figure to a .png

Clear: Clear the selected observations

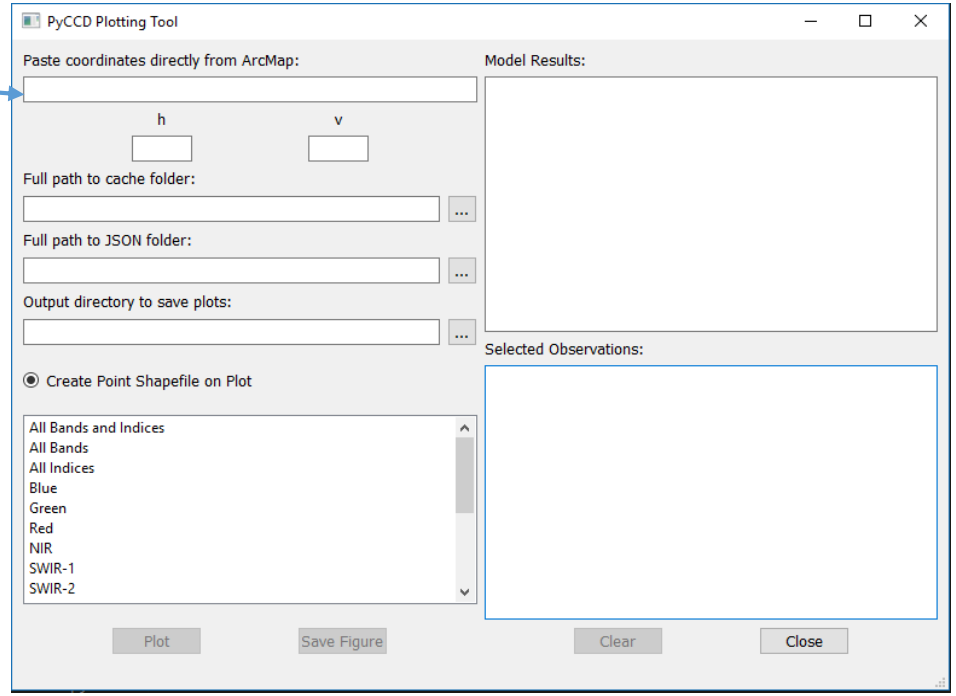
Close: Exit out of the GUI and close the plot figure if it is open

Example Tool Use

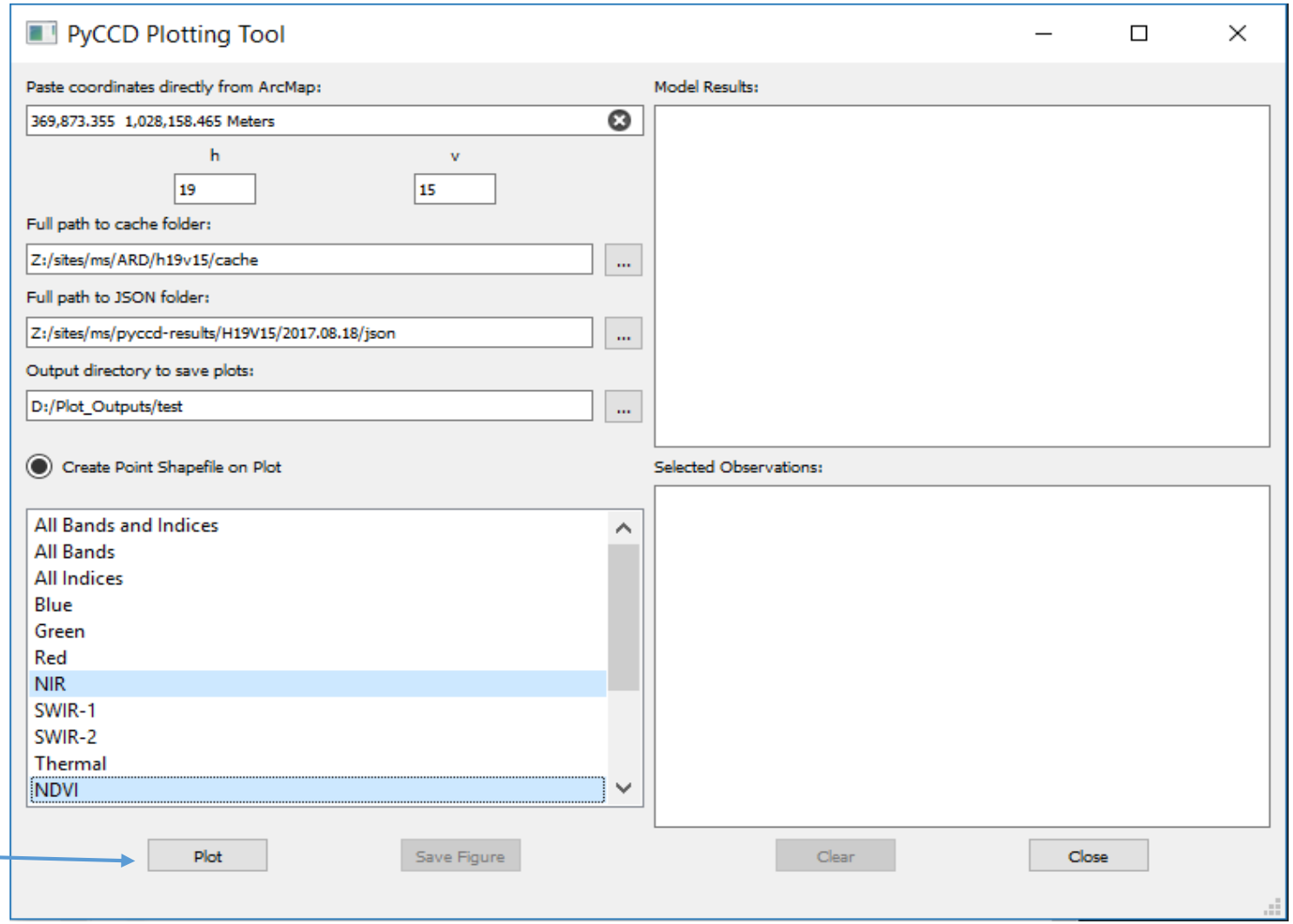


Select Point

- Use the Identify tool in ArcMap to select a point of interest on the screen. Copy the coordinates directly from the Identify window into the plotting tool's coordinates field.



Example Tool Use



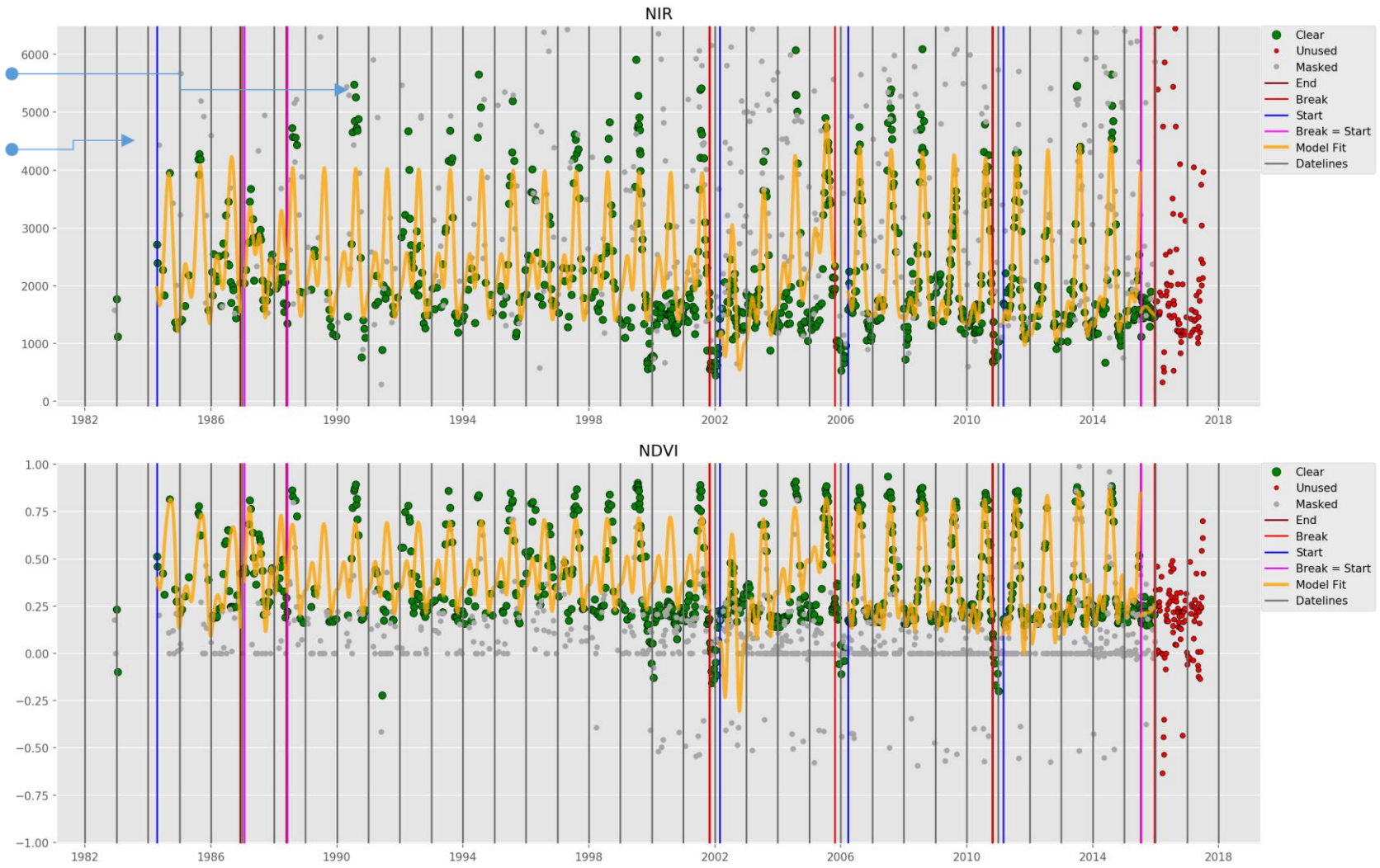
The ‘Plot’ button becomes active once the required parameters are entered

Plotting Window Description

ARD Observations

Click observations to display acquisition date, scene identifier, and band/index value in the GUI.

Hover the mouse cursor in any subplot to display x/y plot values.



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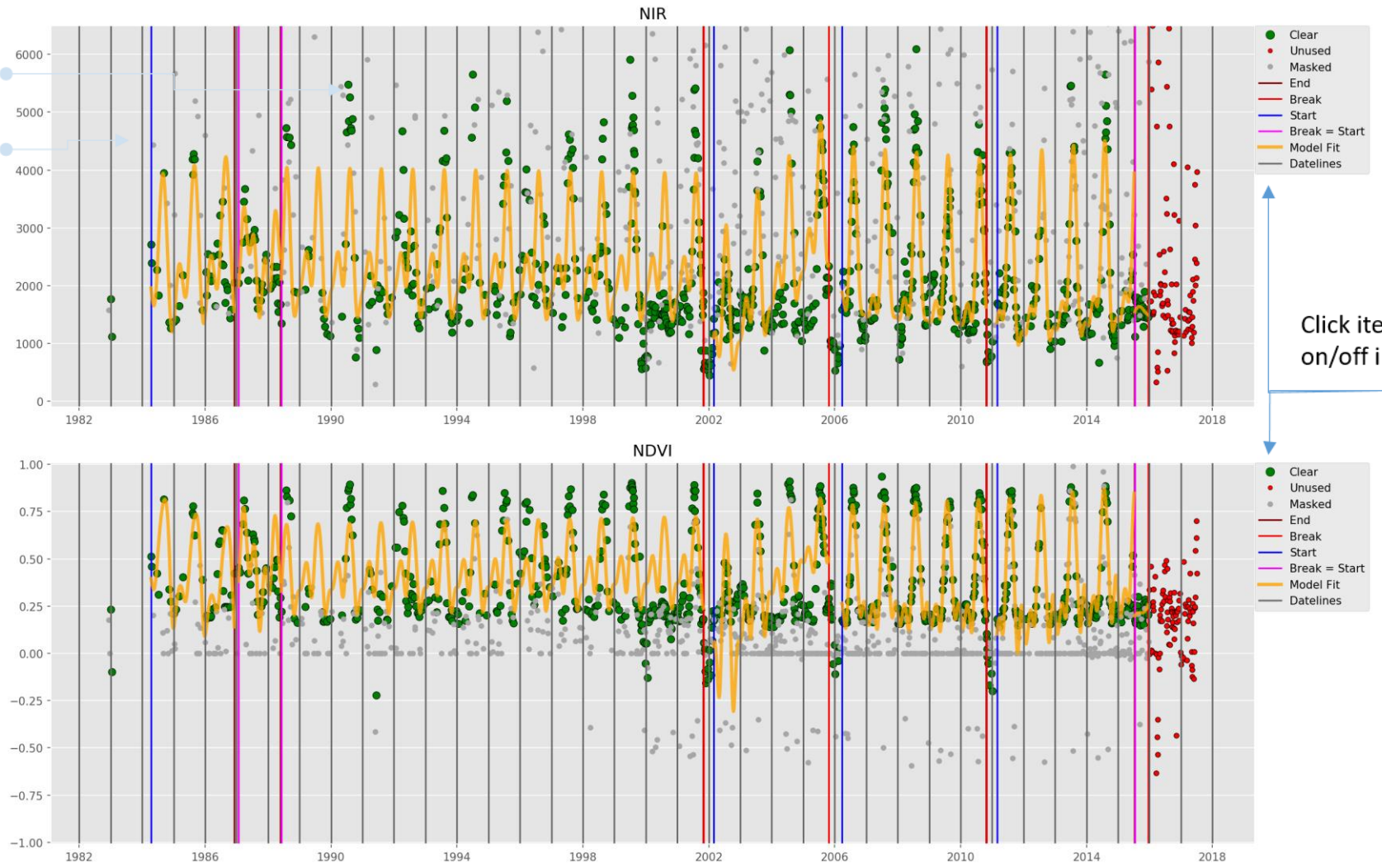
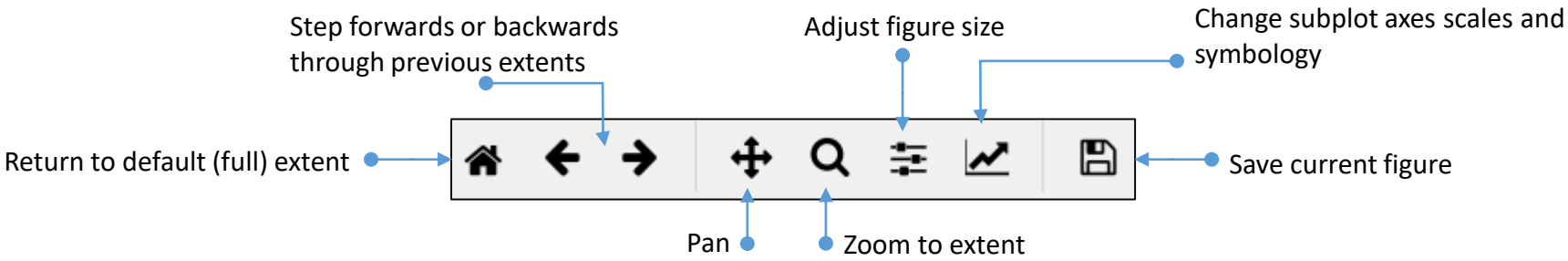


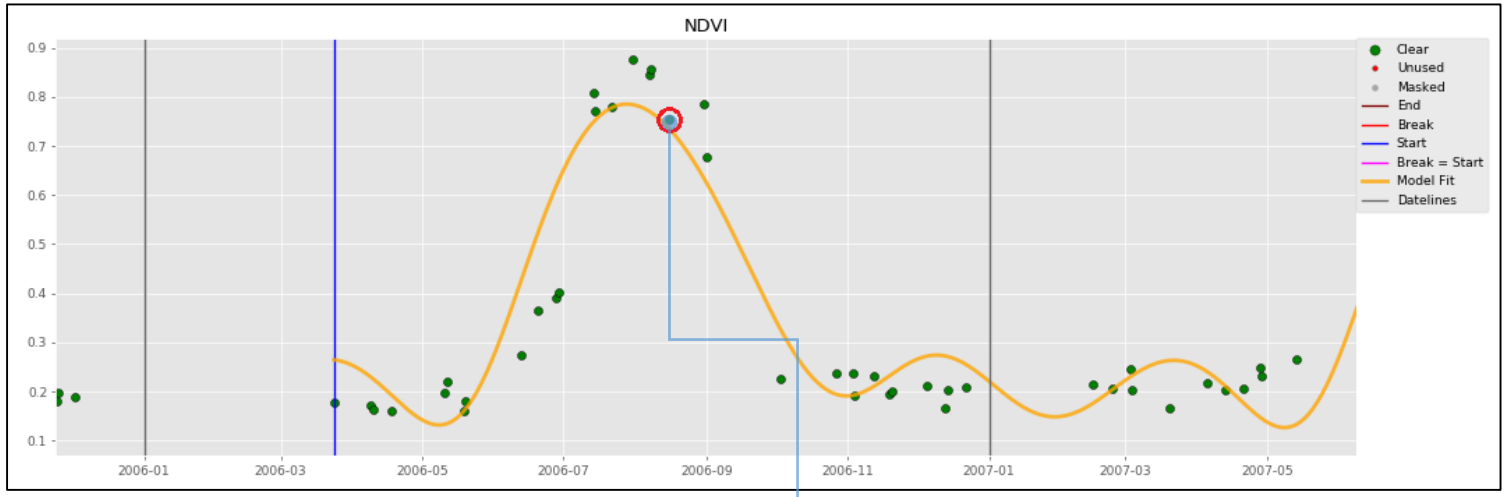
Interactive Legends

Click items in legend to toggle on/off in the corresponding plot

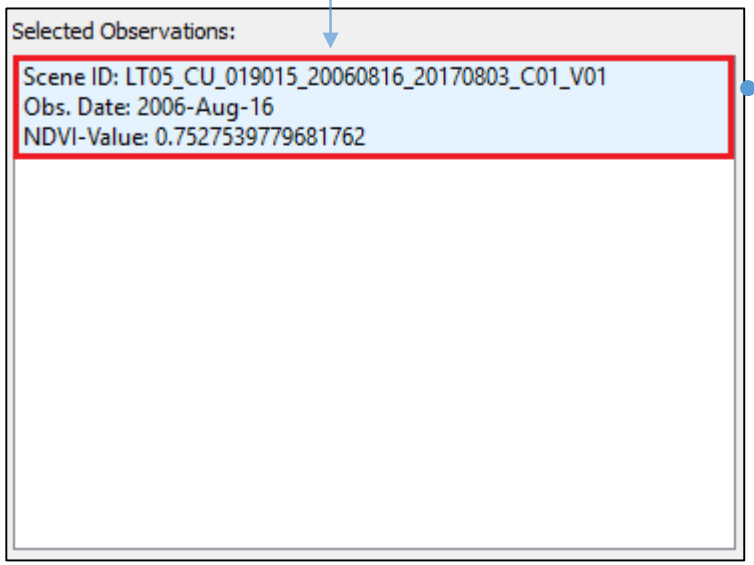
Built-in Plotting Controls



Displaying ARD Imagery



Click once on any item in the Selected Observations window to display that scene in the ARD Viewer. Clicking on a new scene will automatically close the current ARD Viewer.



ARD Viewer Description

Viewer Options

File -> Save Image: Save the current extent and band combination as a .png/.jpg/.bmp, and .png is the default if no extension is entered.
File -> Exit: Close the ARD Viewer

Bands -> R, G, B: Specify a band for the red, green, and blue color channels. The default RGB is 3-2-1.

Extent: Select and update the extent of the image to display. The default is 500x500 pixels. Current options are 100x100, 250x250, 500x500, 1000x1000, and full. The extent will attempt to have as it's center the pixel coordinates entered into the plotting tool, but this depends on the proximity to the tile edge.

Update: Display the new RGB band combination. A band must be 'checked' for each channel in order for this button to have any effect.