

Main Interface Description

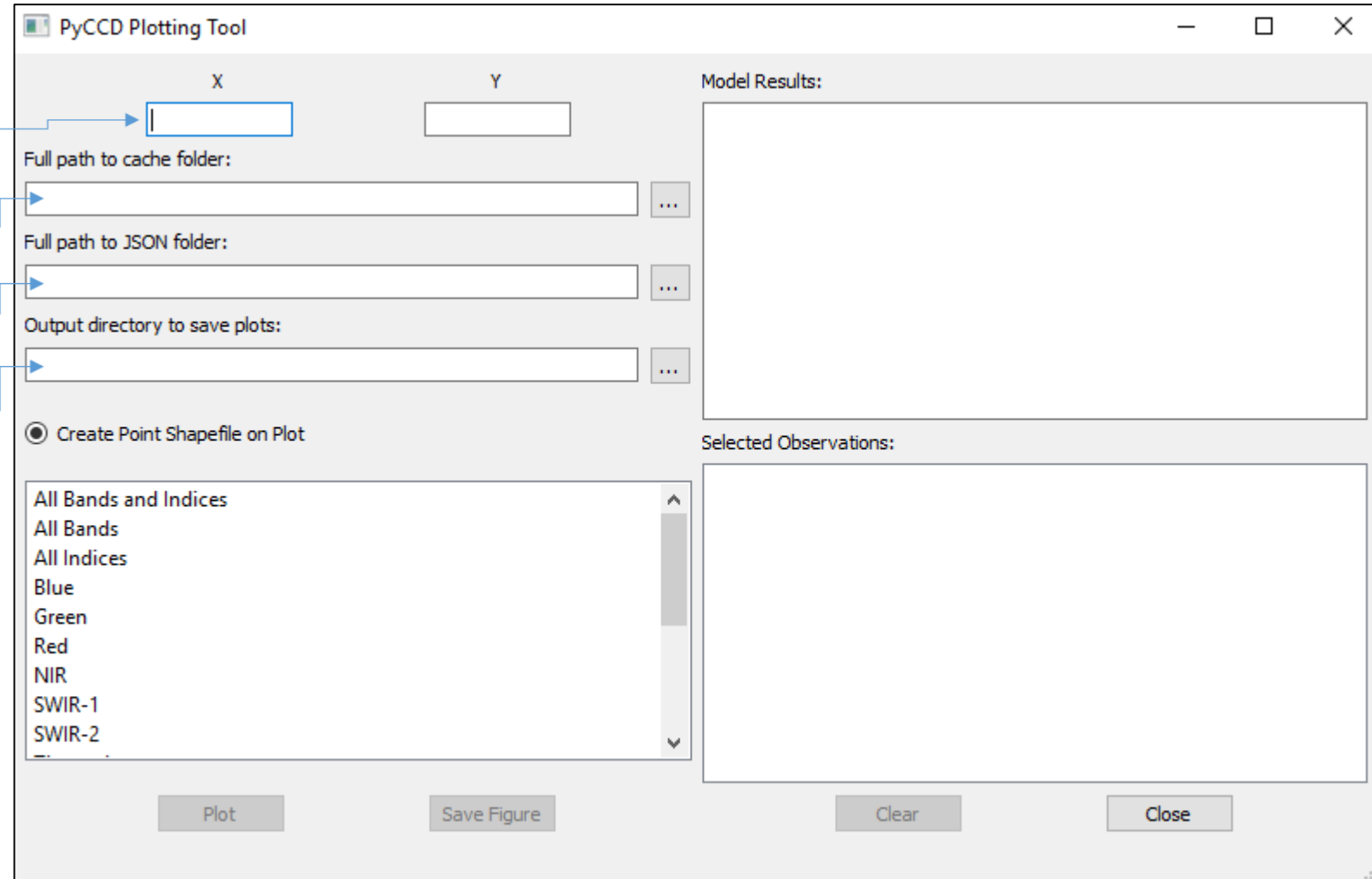
Required Parameters

Enter the pixel coordinates where time series data will be obtained

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



The PyCCD Plotting Tool interface is a window with a title bar containing a PyCCD icon and the text "PyCCD Plotting Tool". The window is divided into several sections. At the top, there are two input fields labeled "X" and "Y". Below these are three input fields for file paths, each with a "..." button to its right: "Full path to cache folder:", "Full path to JSON folder:", and "Output directory to save plots:". Below the path fields is a radio button labeled "Create Point Shapefile on Plot" which is currently selected. To the right of the path fields is a large empty box labeled "Model Results:". Below the radio button is a list box containing the following items: "All Bands and Indices", "All Bands", "All Indices", "Blue", "Green", "Red", "NIR", "SWIR-1", and "SWIR-2". To the right of the list box is another large empty box labeled "Selected Observations:". At the bottom of the window are four buttons: "Plot", "Save Figure", "Clear", and "Close".

PyCCD Plotting Tool

X Y

Full path to cache folder: ...

Full path to JSON folder: ...

Output directory to save plots: ...

☒ Create Point Shapefile on Plot

All Bands and Indices
All Bands
All Indices
Blue
Green
Red
NIR
SWIR-1
SWIR-2

Model Results:

Selected Observations:

Plot Save Figure Clear Close

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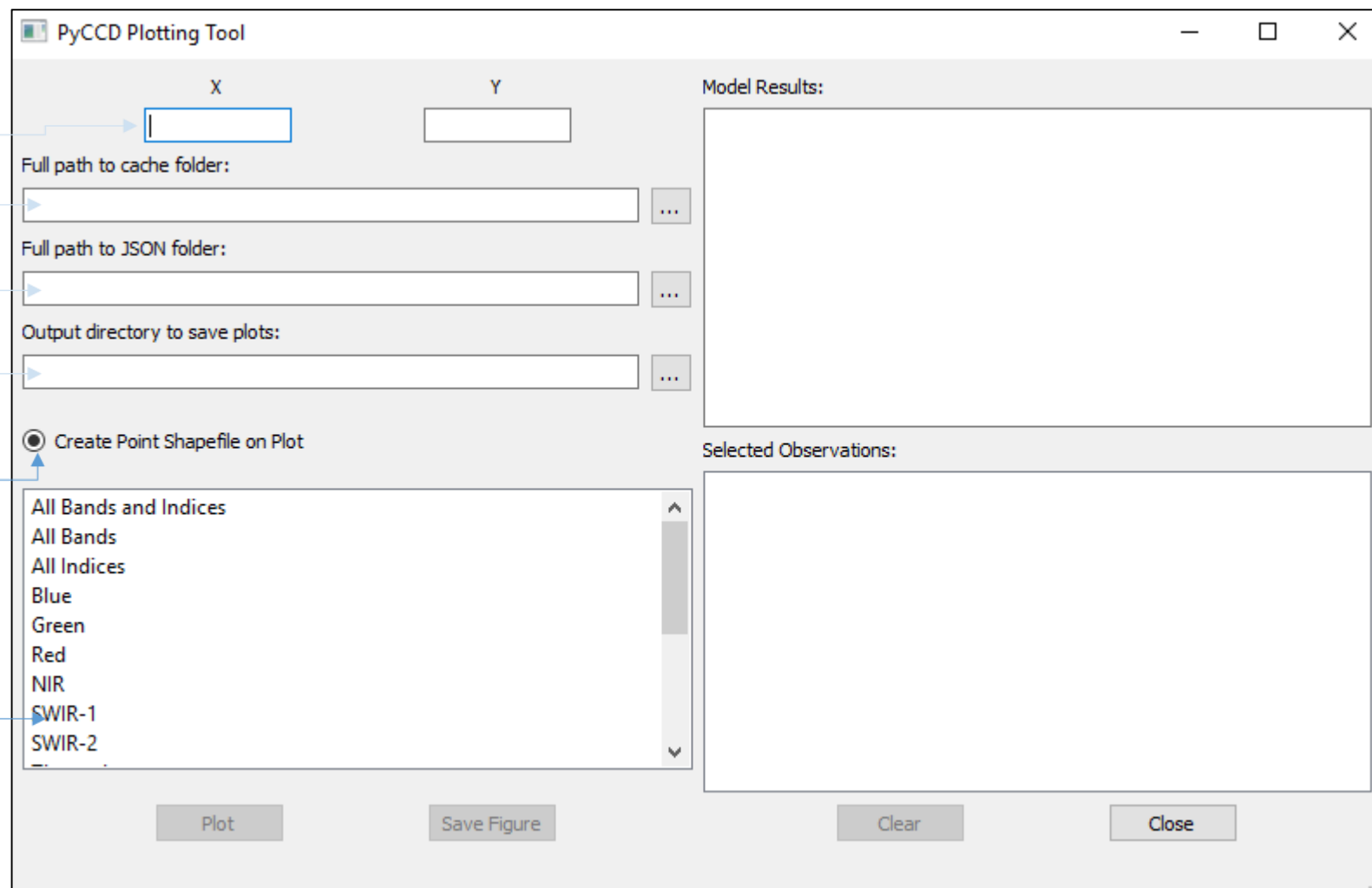
Enter the full path to the location of the ARD-tile .json files

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

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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PyCCD Plotting Tool

X Y

Full path to cache folder: ...

Full path to JSON folder: ...

Output directory to save plots: ...

☒ Create Point Shapefile on Plot

All Bands and Indices
All Bands
All Indices
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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

The screenshot shows the PyCCD Plotting Tool interface. It features a title bar with standard window controls. The main area is divided into several sections: 'Required Parameters' with input fields for X and Y coordinates, and three file path fields (cache folder, JSON folder, output directory) each with a browse button; 'Additional Options' with a radio button for 'Create Point Shapefile on Plot' and a list box for selecting bands and indices; 'Model Results' and 'Selected Observations' as large empty text areas; and a 'Controls' section at the bottom with 'Plot', 'Save Figure', 'Clear', and 'Close' buttons. Blue arrows point from descriptive text on the left to the corresponding UI elements.

PyCCD Plotting Tool

X Y

Model Results:

Full path to cache folder:

Full path to JSON folder:

Output directory to save plots:

☒ Create Point Shapefile on Plot

All Bands and Indices
All Bands
All Indices
Blue
Green
Red
NIR
SWIR-1
SWIR-2

Selected Observations:

Plot Save Figure Clear Close

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

Main Interface Description

Required Parameters

Enter the pixel coordinates where time series data will be obtained

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

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

The screenshot shows the PyCCD Plotting Tool interface. It features a title bar with standard window controls. The main area is divided into several sections: 'Required Parameters' with input fields for X and Y coordinates, and three file path fields (cache folder, JSON files, output directory) each with a browse button; 'Additional Options' with a radio button for 'Create Point Shapefile on Plot' and a list box for selecting bands and indices; 'Model Results' and 'Selected Observations' panels on the right; and a 'Controls' section at the bottom with 'Plot', 'Save Figure', 'Clear', and 'Close' buttons. Blue arrows point from descriptive text on the left to the corresponding UI elements.

PyCCD Plotting Tool

X Y

Model Results:

Model Results

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

Full path to cache folder: ...

Full path to JSON folder: ...

Output directory to save plots: ...

☒ Create Point Shapefile on Plot

Selected Observations:

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

All Bands and Indices
All Bands
All Indices
Blue
Green
Red
NIR
SWIR-1
SWIR-2

Plot Save Figure Clear Close

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

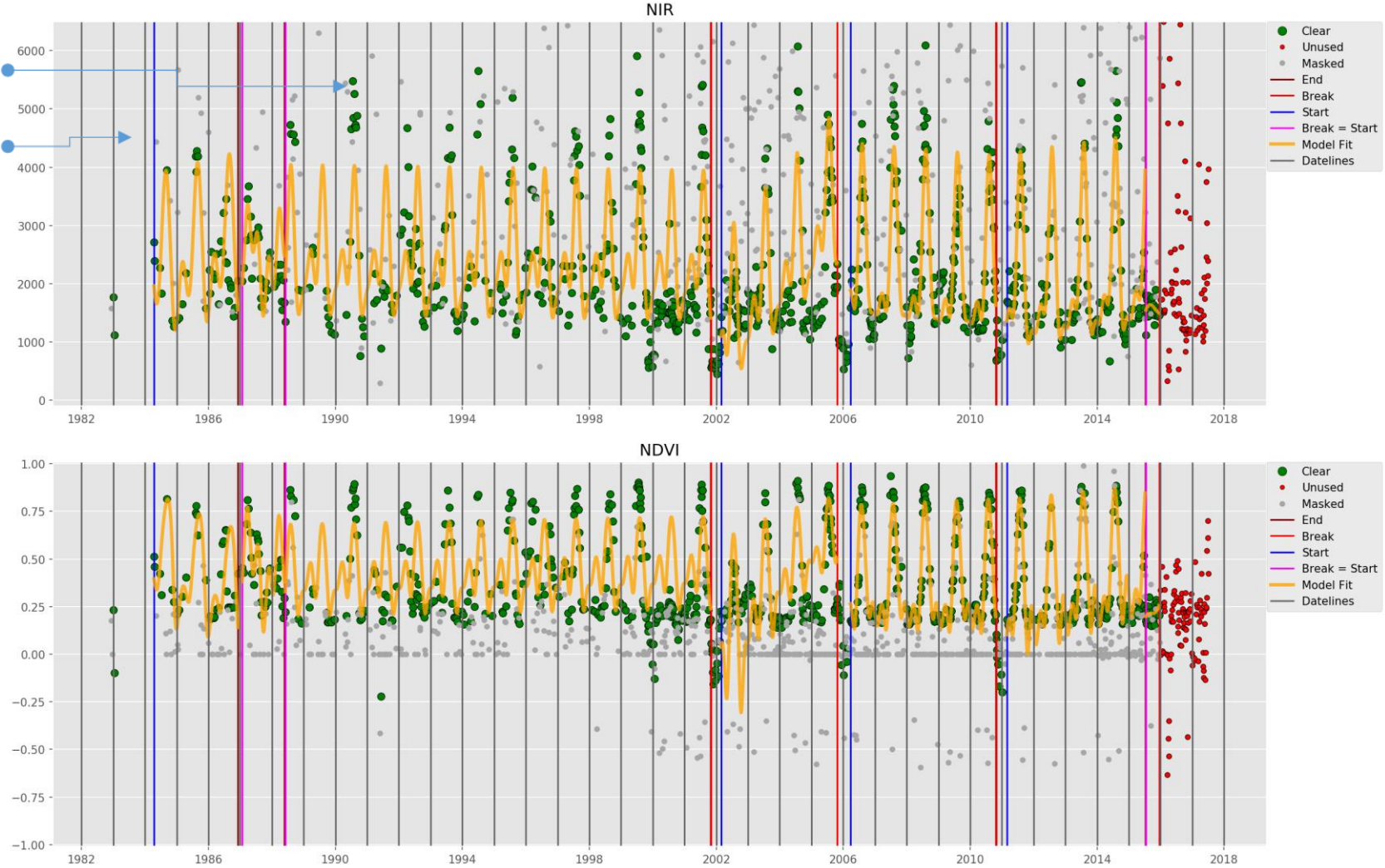
Close: Exit out of the GUI and close the plot figure if it is open

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.

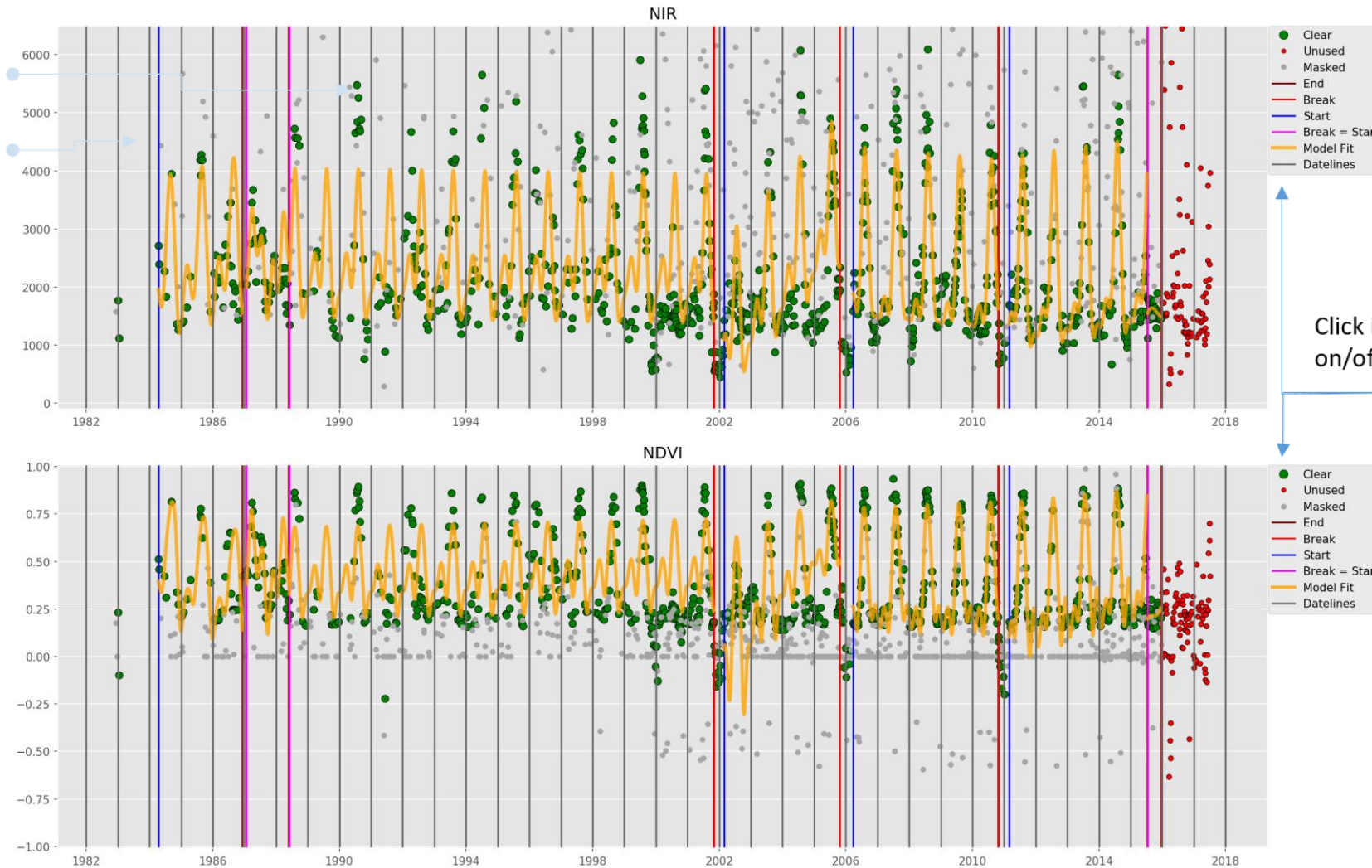


Plotting Window Description

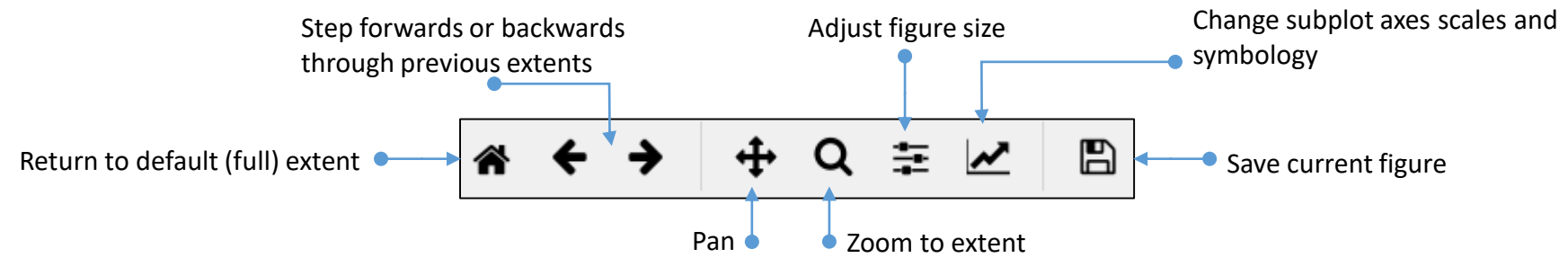
ARD Observations

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

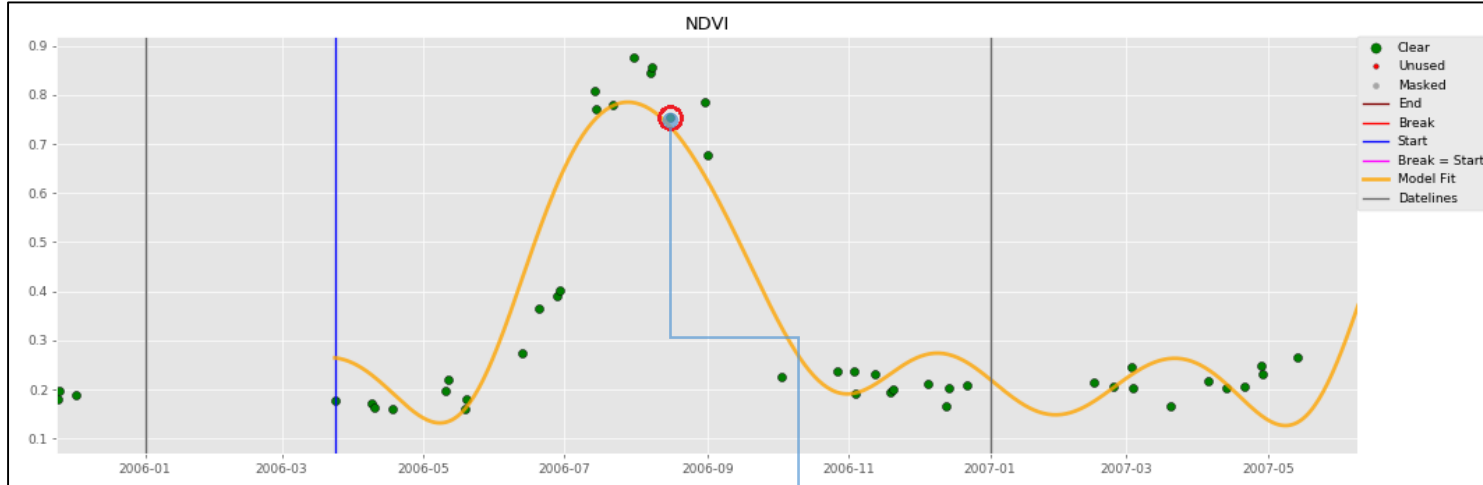
Hover the mouse cursor in any subplot to display x/y plot values.



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.

Selected Observations:

Scene ID: LT05_CU_019015_20060816_20170803_C01_V01
Obs. Date: 2006-Aug-16
NDVI-Value: 0.7527539779681762



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.

