

# Main Interface Description

## Required Parameters

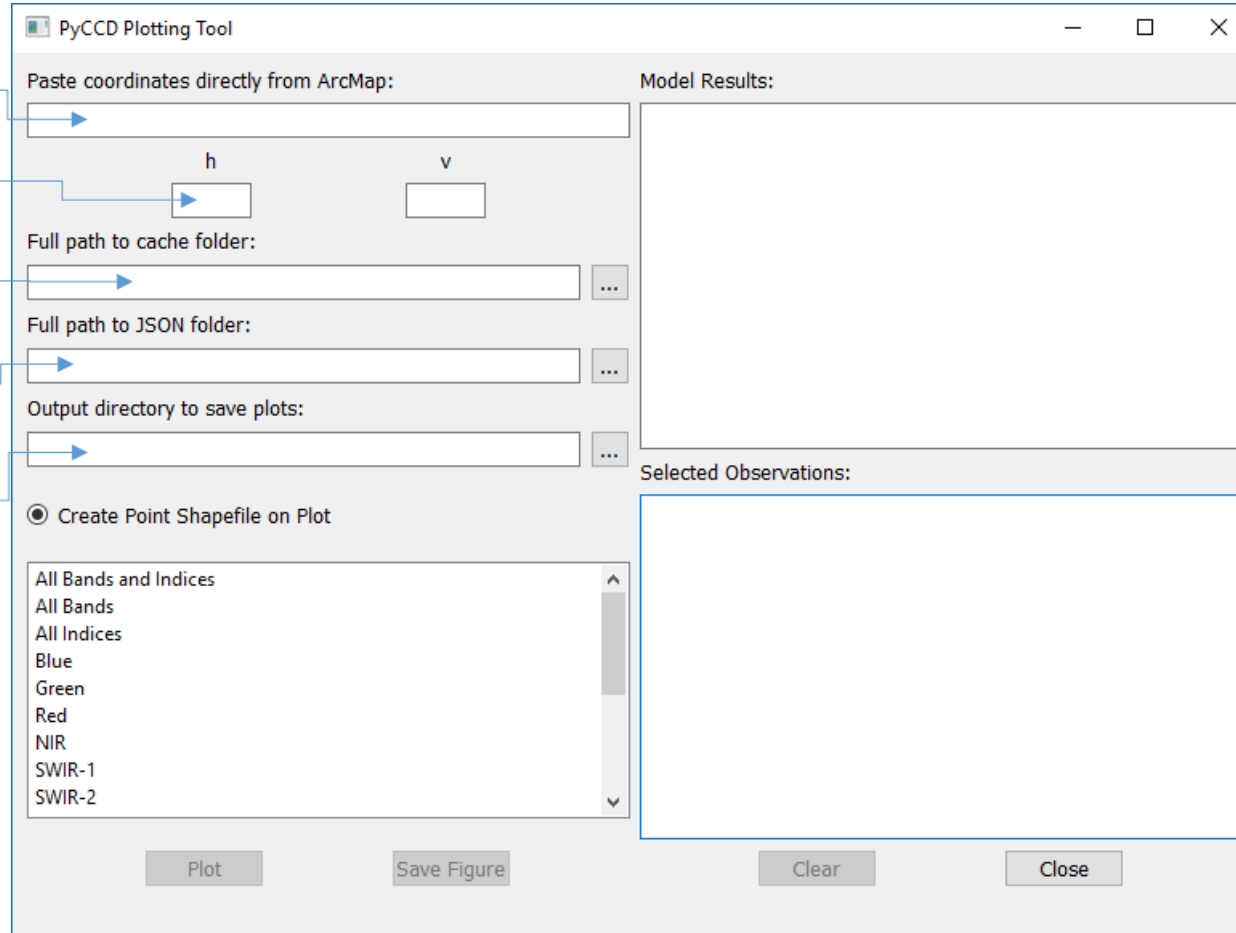
Enter the pixel coordinates where time series data will be obtained

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



The PyCCD Plotting Tool interface is a window with a title bar and standard window controls. It is divided into several sections:

- Paste coordinates directly from ArcMap:** A text input field with a blue arrow icon on the left.
- h** and **v**: Two small text input fields for horizontal and vertical coordinates.
- Full path to cache folder:** A text input field with a blue arrow icon and a browse button (three dots).
- Full path to JSON folder:** A text input field with a blue arrow icon and a browse button (three dots).
- Output directory to save plots:** A text input field with a blue arrow icon and a browse button (three dots).
- Create Point Shapefile on Plot:** A radio button option.
- Model Results:** A large empty rectangular area for displaying model results.
- Selected Observations:** A large empty rectangular area for displaying selected observations.
- Band Selection List:** A list box containing the following items: All Bands and Indices, All Bands, All Indices, Blue, Green, Red, NIR, SWIR-1, and SWIR-2. It has scroll arrows at the top and bottom.
- Buttons:** Four buttons at the bottom: Plot, Save Figure, Clear, and Close.

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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

The screenshot shows the PyCCD Plotting Tool window. It has a title bar with standard window controls. The main area is divided into several sections. On the left, under 'Paste coordinates directly from ArcMap:', there is a text input field. Below it are two input fields labeled 'h' and 'v'. Further down are three more text input fields for 'Full path to cache folder:', 'Full path to JSON folder:', and 'Output directory to save plots:', each followed by a browse button (...). Below these is a radio button labeled 'Create Point Shapefile on Plot' which is currently selected. At the bottom left 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'. On the right side, there are two large empty rectangular areas labeled 'Model Results:' and 'Selected Observations:'. At the bottom of the window are four buttons: 'Plot', 'Save Figure', 'Clear', and 'Close'. Blue arrows point from the text descriptions on the left to the corresponding UI elements in the window.

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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: 'Paste coordinates directly from ArcMap:' with a text input field; 'h' and 'v' input fields for ARD-tile coordinates; 'Full path to cache folder:', 'Full path to JSON folder:', and 'Output directory to save plots:' each with a text input field and a browse button (...); a radio button labeled 'Create Point Shapefile on Plot'; a list box containing 'All Bands and Indices', 'All Bands', 'All Indices', 'Blue', 'Green', 'Red', 'NIR', 'SWIR-1', and 'SWIR-2'; a large 'Model Results:' area; and a 'Selected Observations:' area. At the bottom, there are four buttons: 'Plot', 'Save Figure', 'Clear', and 'Close'. Blue lines with circular endpoints point from descriptive text on the left to specific UI elements: from 'Enter the pixel coordinates...' to the ArcMap paste field; from 'Enter the H and V...' to the h and v fields; from 'Enter the full path to the location of the ARD-tile cache files.' to the cache folder field; from 'Enter the full path to the location of the ARD-tile .json files' to the JSON folder field; from 'Enter the full path to the directory where plot figures and shapefiles will be saved' to the output directory field; from 'Toggle on/off to create an ESRI point shapefile...' to the 'Create Point Shapefile on Plot' radio button; from 'Select which bands and indices to plot...' to the list box; from 'Plot: Activate the plotting...' to the Plot button; from 'Save Figure: Save the current figure...' to the Save Figure button; from 'Clear: Clear the selected observations' to the Clear button; and from 'Close: Exit out of the GUI...' to the Close button.

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

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: a 'Paste coordinates directly from ArcMap:' text box; two input boxes for 'h' and 'v'; four text boxes for file paths ('Full path to cache folder:', 'Full path to JSON folder:', 'Output directory to save plots:') each with a browse button; a radio button for 'Create Point Shapefile on Plot'; a list box for selecting bands and indices; a 'Model Results:' text area; and a 'Selected Observations:' text area. At the bottom are four buttons: 'Plot', 'Save Figure', 'Clear', and 'Close'. Blue arrows point from descriptive text blocks to specific UI elements: from 'Required Parameters' to the coordinate and path inputs; from 'Additional Options' to the shapefile toggle and band list; from 'Output' to the results and observations text areas; and from the 'Controls' section to the bottom buttons.

## Output

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

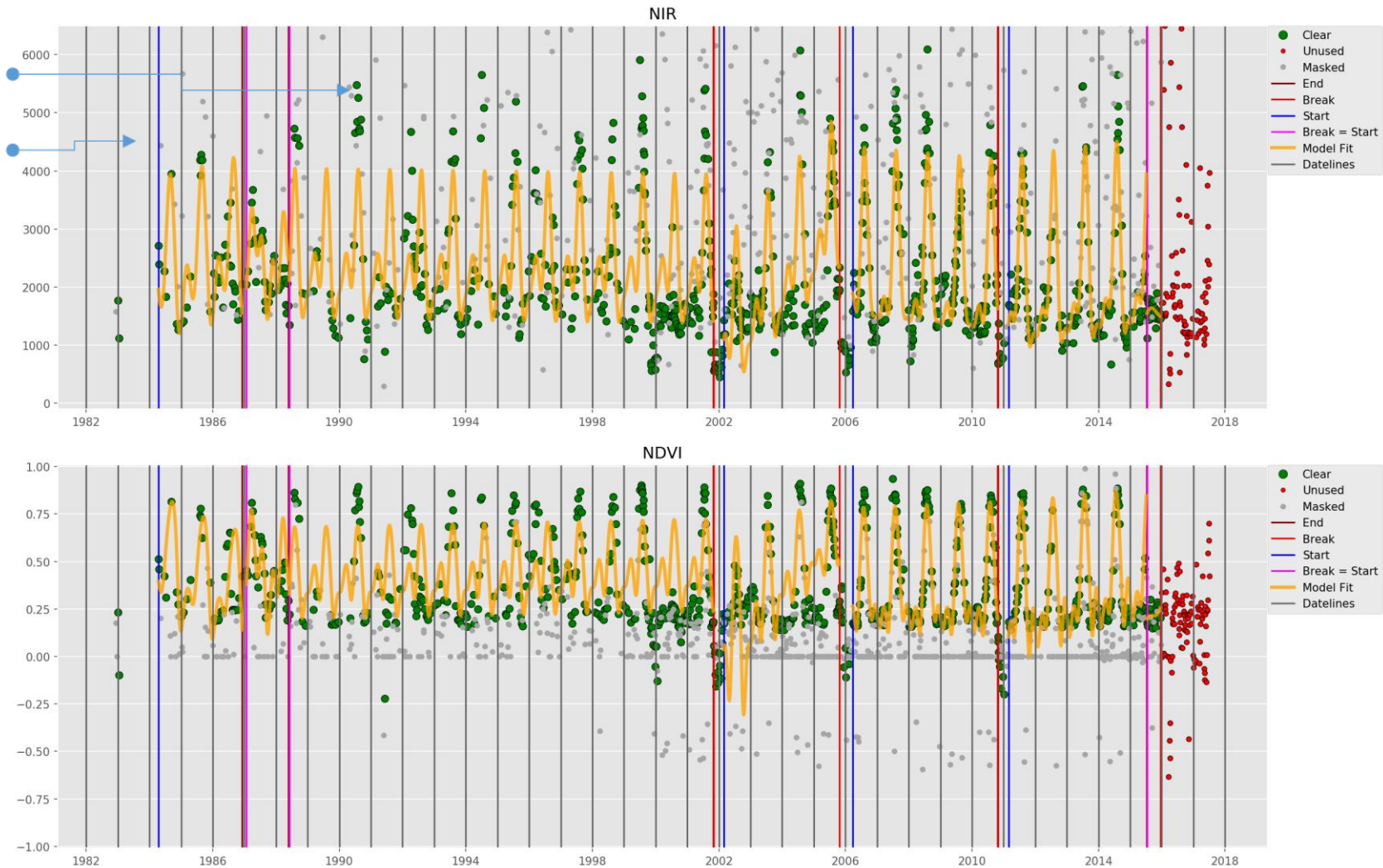
**Selected Observations:** Each observation point clicked on the plot figure will be displayed here along with its band or index value, date of acquisition, and scene identifier

# 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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