

Main Interface Description

Required Parameters

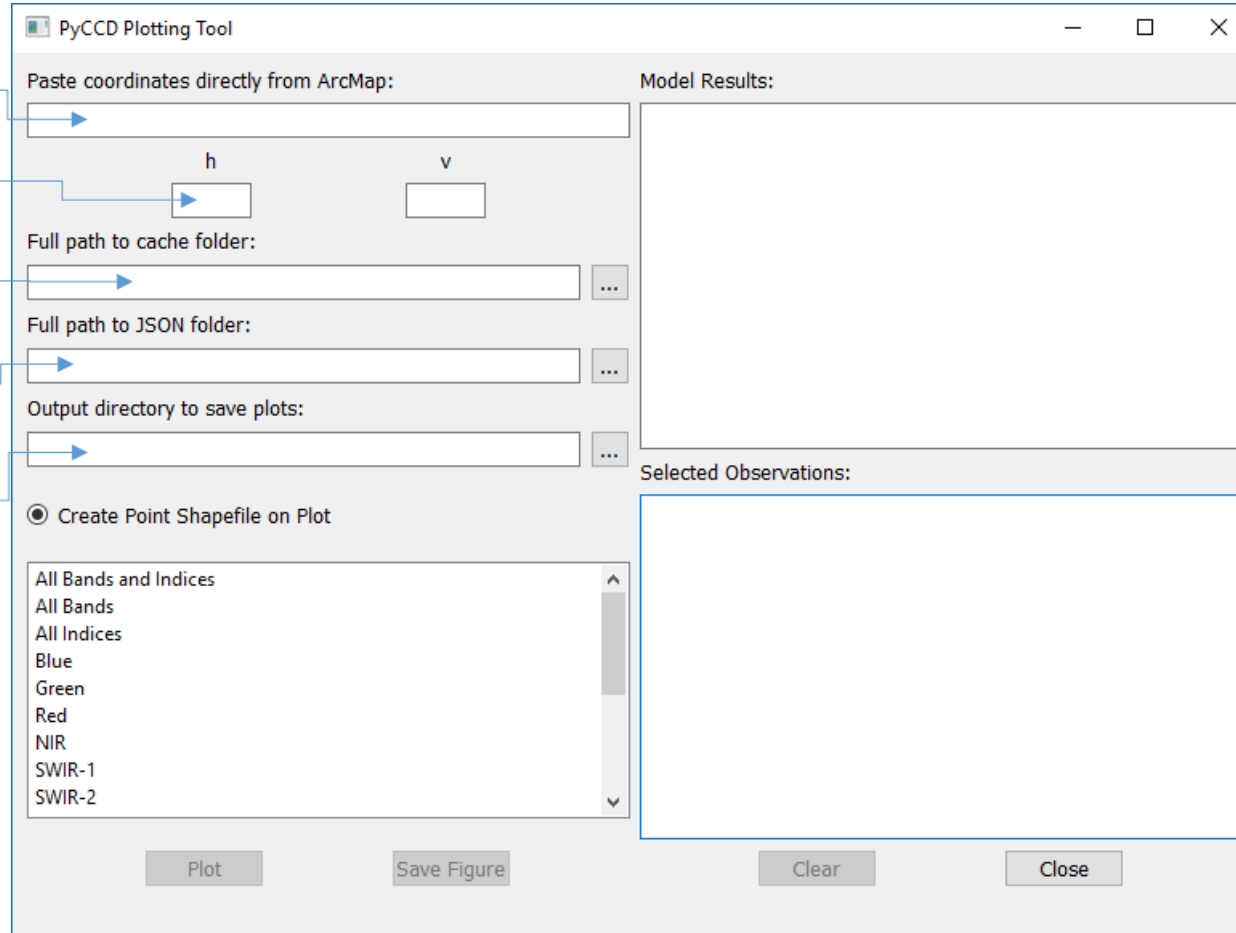
Enter the pixel coordinates where time series data will be obtained

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 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 features a title bar with standard window controls. The main area is divided into several sections: a top section for pasting coordinates from ArcMap, a section for entering H and V coordinates, a section for file paths (cache folder, JSON folder, output directory), a section for selecting bands and indices, and a section for model results and selected observations. The 'Create Point Shapefile on Plot' option is selected. The 'All Bands and Indices' option is selected in the list. The bottom of the window has buttons for 'Plot', 'Save Figure', 'Clear', and 'Close'. Blue arrows point from the text descriptions to the corresponding input fields and options in the interface.

PyCCD Plotting Tool

Paste coordinates directly from ArcMap:

h v

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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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 'Required Parameters' to the coordinate and path input fields; from 'Additional Options' to the shapefile radio button and the list box; and from the bottom text to the 'Plot', 'Save Figure', 'Clear', and 'Close' buttons.

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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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