

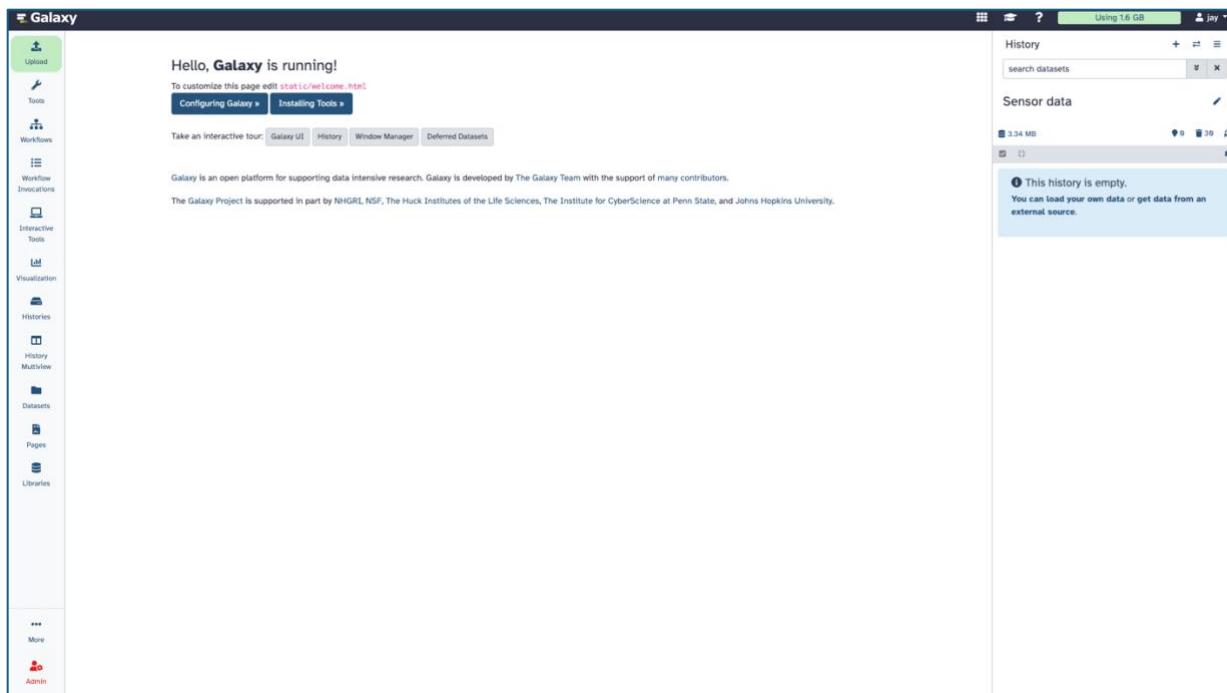
GAIA-C (Galaxy Air Investigation and Analysis for Citizens) - A scalable Galaxy workflow interface for air pollution research.

Tutorial to execute data analysis workflow

Select the top right “**Login or Register**” button and login to the default admin user account using default username “**admin@example.org**” and password “**password**”.

Step 1: Download the data

1.1 Select the **Upload** icon in the top-left corner.



1.2 Copy and paste the following links into the Upload tool

<https://zenodo.org/records/15444264/files/grimmsopc.tsv>
<https://zenodo.org/records/15444264/files/grimmsopc2.tsv>
<https://zenodo.org/records/15444264/files/input1.tsv>
<https://zenodo.org/records/15444264/files/input2.tsv>
<https://zenodo.org/records/15444264/files/input3.tsv>
https://zenodo.org/records/15444264/files/opc_n2_2.tsv
https://zenodo.org/records/15444264/files/oulier_removal.tsv

Select “**Paste/Fetch data**” and copy-paste all the links into the input box. Click “**Auto-detect**”, then either manually enter “**tabular**” as the data type or select it from the drop-down menu, and click “**Start**.”

The screenshot shows the Galaxy web interface. On the left is a sidebar with various tools and datasets. In the center, a dialog box titled "Upload from Disk or Web to Sensor data" is open. It shows a list of URLs being processed: "https://zenodo.org/records/15444264/files/grimmsopc.tsv", "https://zenodo.org/records/15444264/files/grimmsopc2.tsv", "https://zenodo.org/records/15444264/files/input.tsv", and "https://zenodo.com/records/15444264/files/input2.tsv". At the bottom of the dialog are buttons for "Choose local file", "Choose remote files", "Paste/Fetch data", "Start", "Pause", "Reset", and "Close". The "Start" button is highlighted in blue. On the right side of the screen, the "History" panel is visible, showing a list of datasets with their names and sizes. The first dataset listed is "Sensor data" at 2.24 MB.

The data will be downloaded in the right-side **history panel**.

This screenshot shows the same Galaxy interface after the upload process has completed. The "Upload from Disk or Web to Sensor data" dialog now shows a 100% completion status. The "Start" button is no longer highlighted. In the "History" panel on the right, there are now six entries: "Sensor data" (2.24 MB), "39: outlier_removal.tsv", "29: opc_n2_2.tsv", "28: input3.tsv", "27: input2.tsv", "26: input1.tsv", and "25: grimmsopc2.tsv". The "25: grimmsopc2.tsv" entry is highlighted in orange, indicating it is the most recent download.

Step 2: Workflow execution

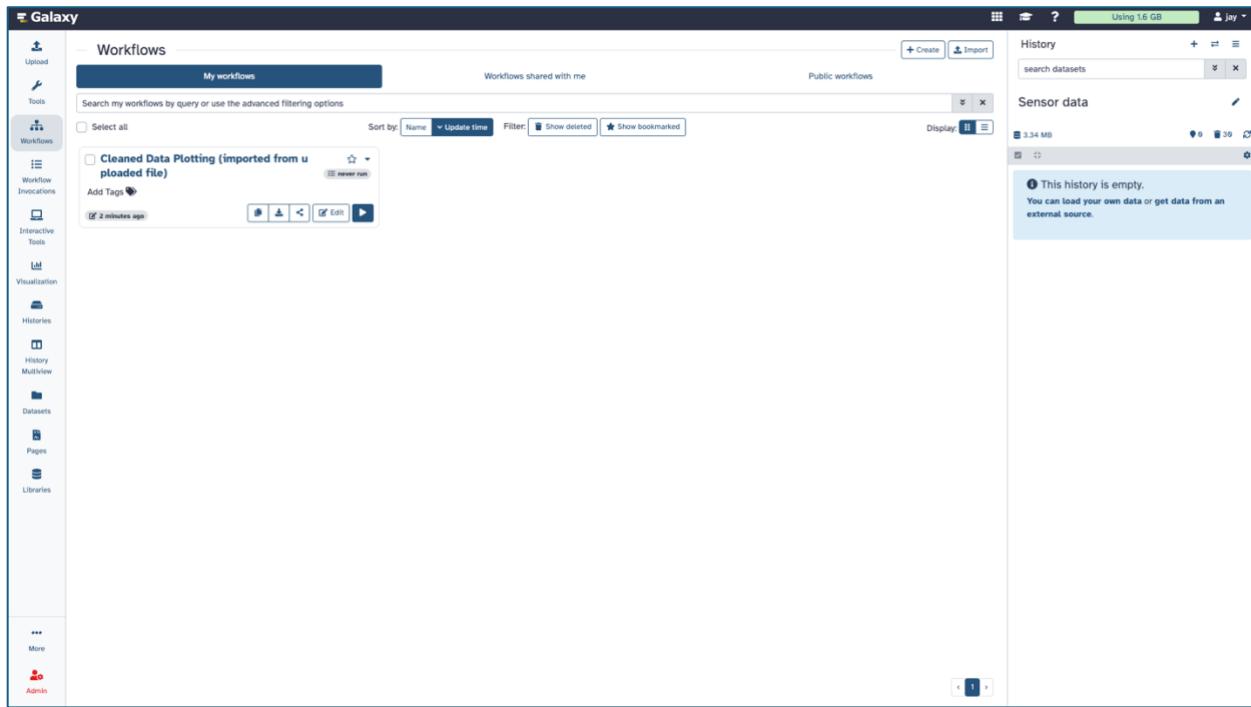
2.1 Select the **workflow** icon from the left-hand menu

The screenshot shows the Galaxy web interface with the 'Import workflow' page selected. The left sidebar has 'Workflow' highlighted. The main area contains fields for 'Archived file or url' and 'Archived Workflow URL', both currently empty. Below these is a note about importing via URL. A 'Browse' button is available for selecting a local workflow file. At the bottom is a large blue 'Import workflow' button. The right panel shows a 'Sensor data' section with a message indicating it is empty.

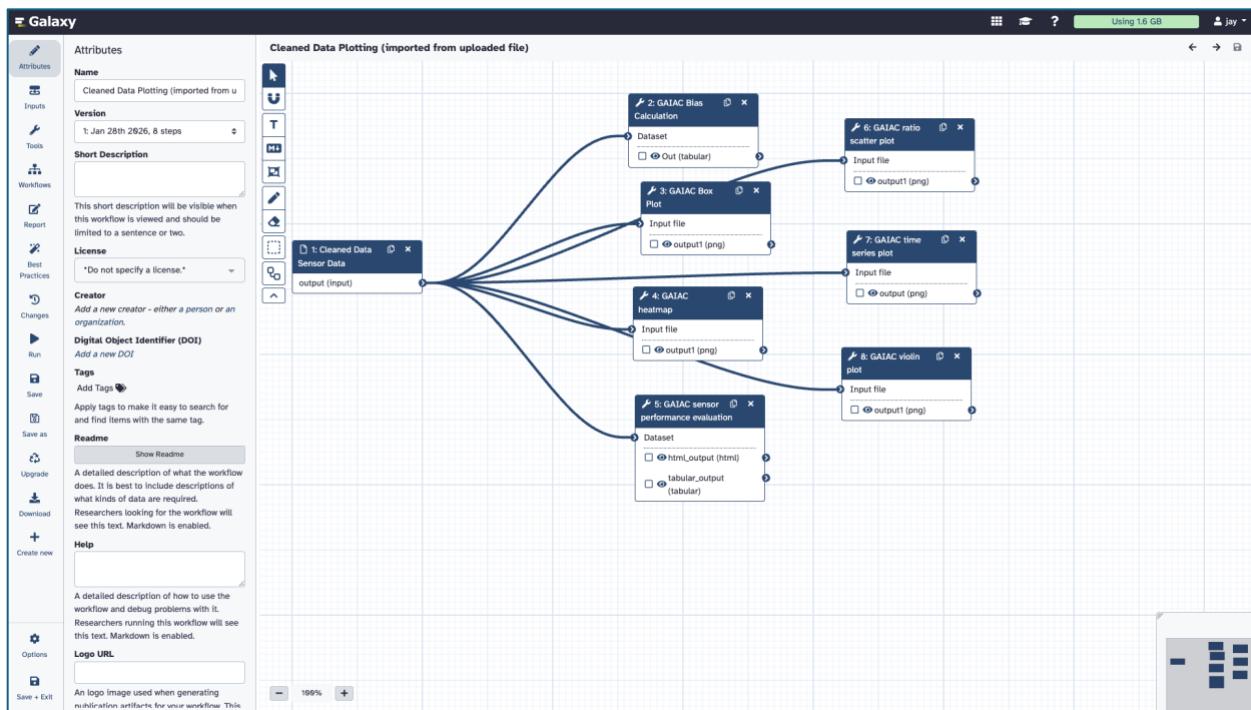
2.2 Browse for the workflow file (e.g., “Galaxy-Workflow-Cleaned_Data_Plottin ga”), then click **Import workflow**.

This screenshot is identical to the previous one, but the 'Archived Workflow File' input field now contains the path 'Galaxy-Workflow-Cleaned_Data_Plottin ga'. The rest of the interface and the right panel remain the same.

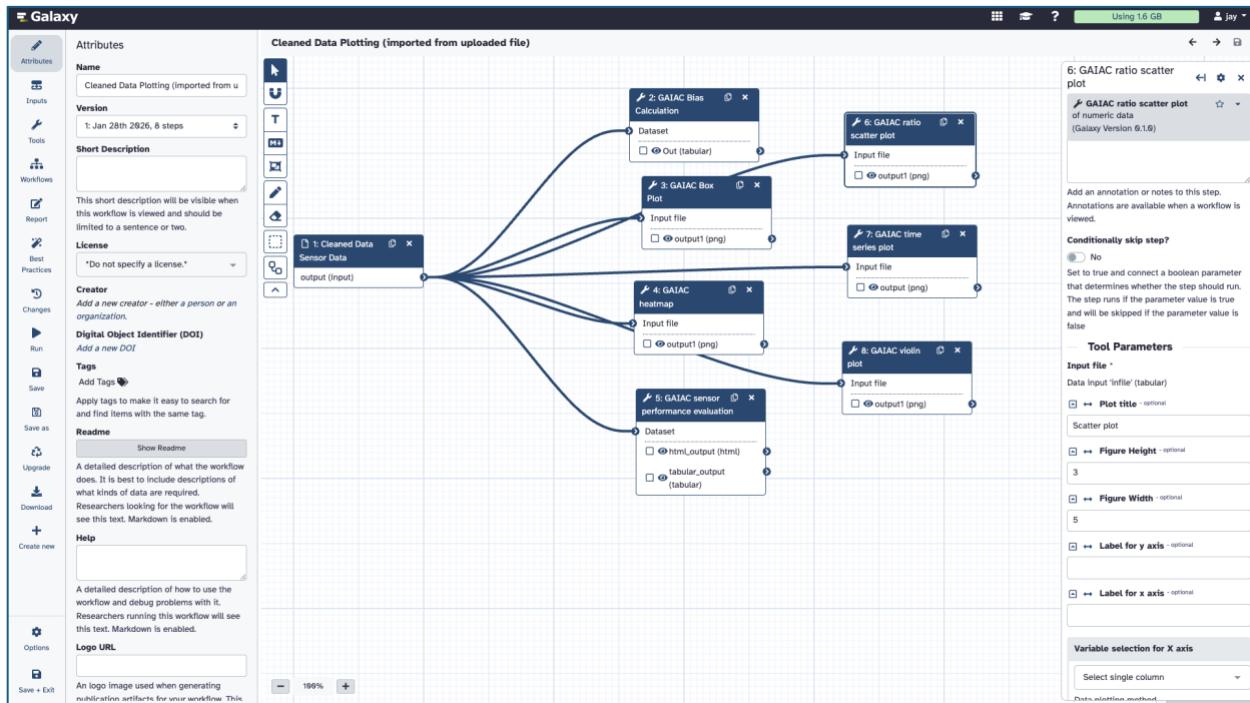
2.3 From the list, for desired workflow, click on the **Edit** icon



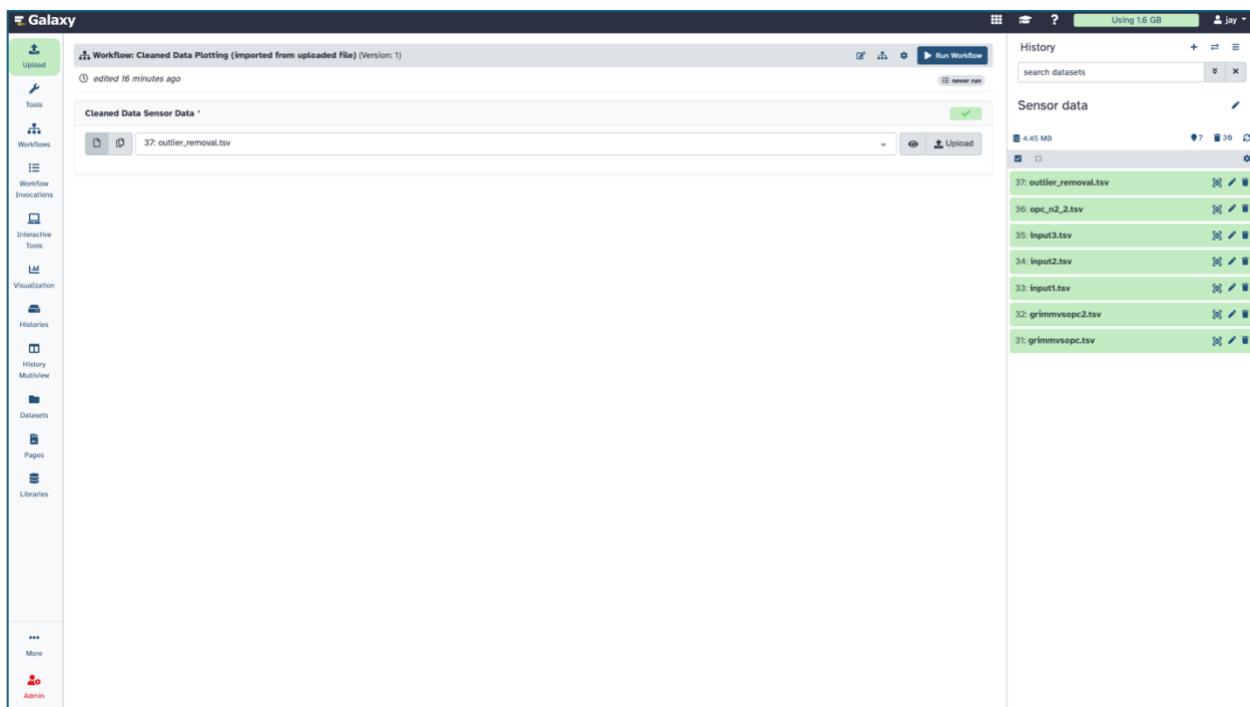
2.4 The workflow editor allows you to edit the workflow.



2.5 Tool parameters can be configured from the right-side panel by selecting a tool from workflow editor. Once ready, click the **Run** button from the left-hand toolbar



2.6 Select the input data, then click **Run workflow**.



2.7 This will execute the job, and the result will be available in the History pane

