Atlas III Improvements

- Expands on Atlas II capabilities
    - Faceted Navigation – counts are displayed next to selectable attribute
    - Lunar Map interface
    - Bulk Downloading
    - Grid display vs Sortable Table display
    - Image stretch and filtering
    - No longer require user to batch results (get more)
    - Larger thumbnails
    - Noodle thumbnails are now displayed
    - New "Browse Not Available" image
    - Expands on Atlas II capabilities

PDS Image Atlas III

Faceted Navigation

Later versions of Chrome and Firefox

are recommended

Faceted Navigation

- A way to assess and organize information according to a set of attributes.

- Allows users to explore a collection of information by applying multiple filters.

- Uses a system of classification that assigns an object to multiple taxonomies (set of attributes – i.e. pds keywords), enabling the classification to be ordered multiple ways, rather than in a single, predetermined, taxonomic order.

Faceted Navigation

- Faceted Navigation has been around since early 2000.

- By 2014 40% of largest US based online retailers have implemented it. Used by amazon.com and Google Shopping.

- Typical implementation

  - Filters on left of screen

  - Grid of images to the right

Faceted Navigation

Atlas III Search

The URL for the AtlasIII search interface is http://pds-imaging.jpl.nasa.gov/search
The Atlas initially displays a mission drop down menu.
A specific mission can be selected by clicking on the mission name.
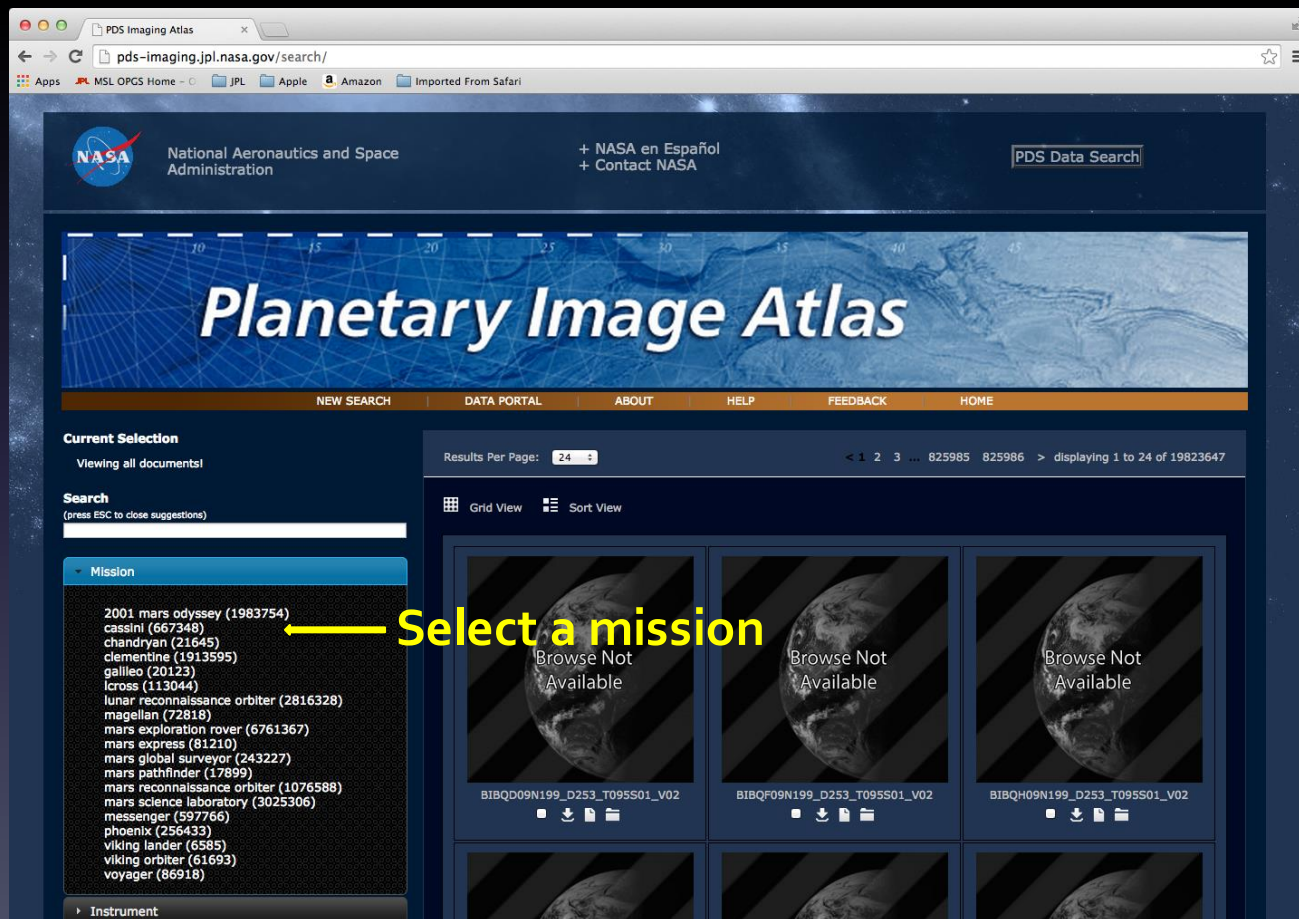
Atlas III - Cassini

This tutorial has the Cassini mission selected.

The grid of images is automatically updated for the selected mission.

Atlas III - Instrument

Click on the Instrument drop down menu to select your instrument of interest.
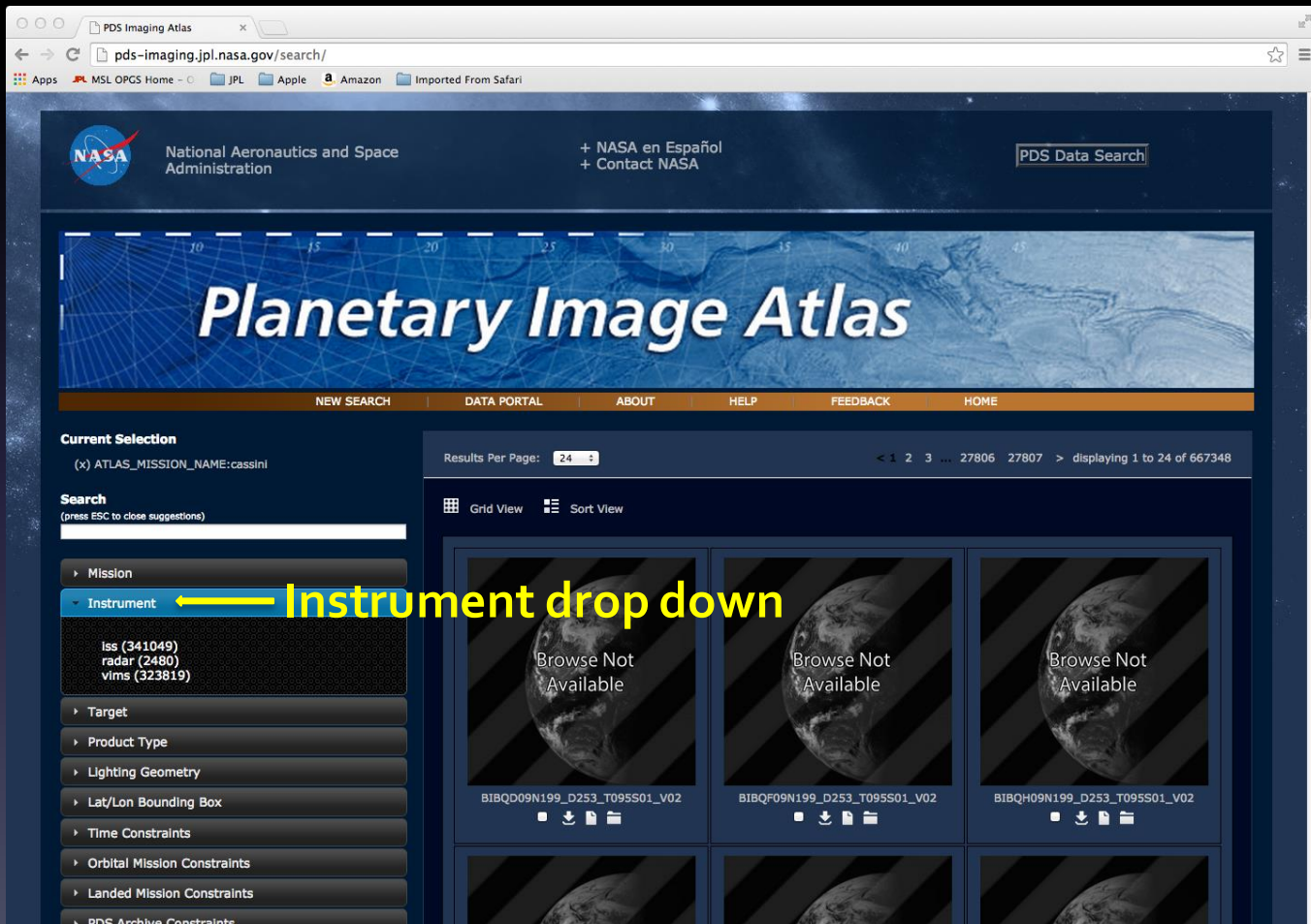
Atlas III – Cassini ISS

This tutorial has the Cassini ISS instrument selected.
Notice that the images have been updated.

Atlas III - Targets

Click on the target drop down menu to select a target of interest.

Atlas III – Target Atlas

This tutorial has the Atlas target selected.
Notice that other targets are included when multiple targets
are found in the returned records.

Atlas III – Lighting Geometry

Sliders are used for range queries. Drag the handles on the slider to update the range.
A user can also input a specific range in the text fields.
The example below shows the use of the emission angle slider.

Atlas III – Removing Selections
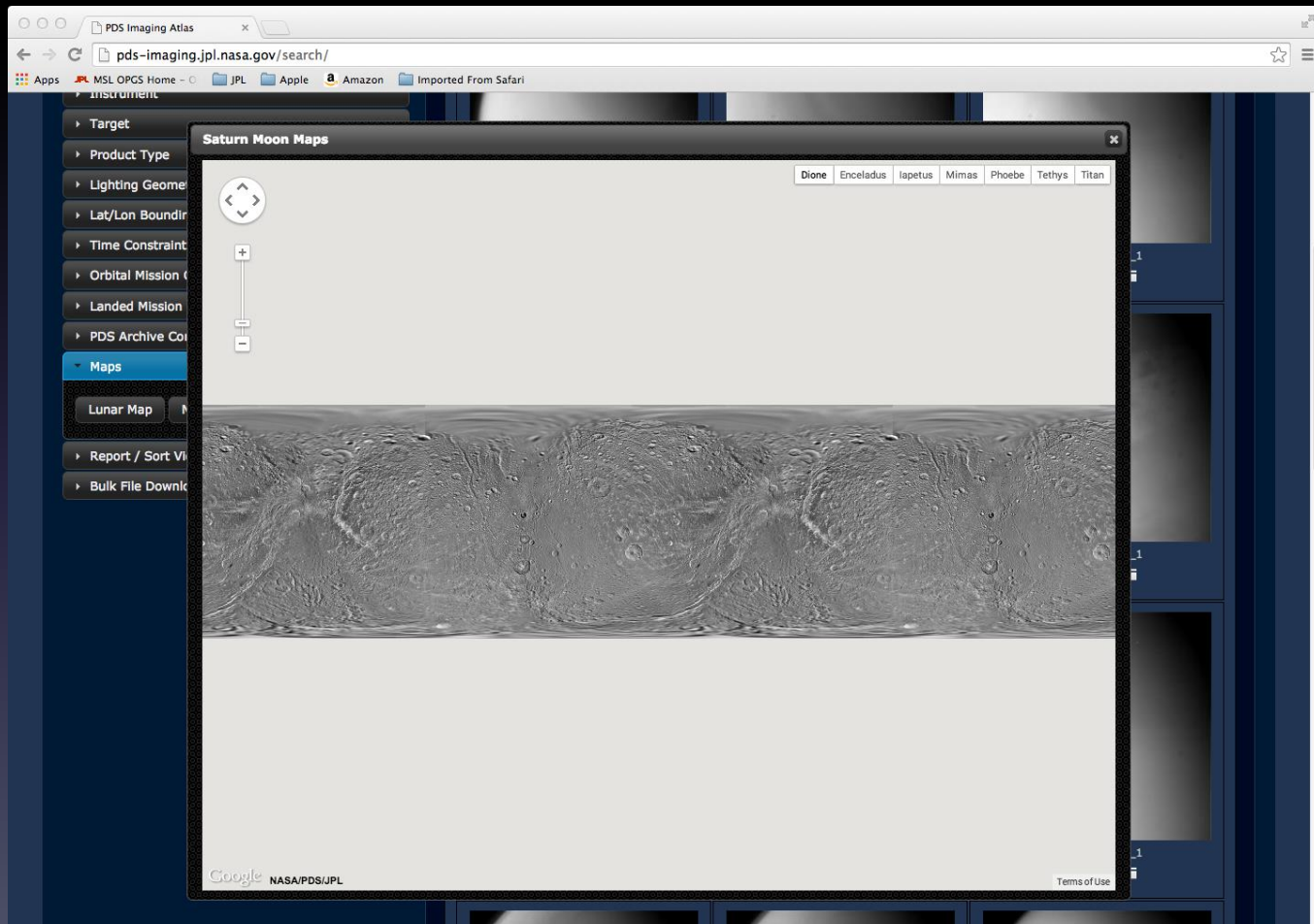
Click on the (x) to remove specific selections or click on remove all.

Atlas III - Maps

Click on the map drop down menu to select images using a map interface.
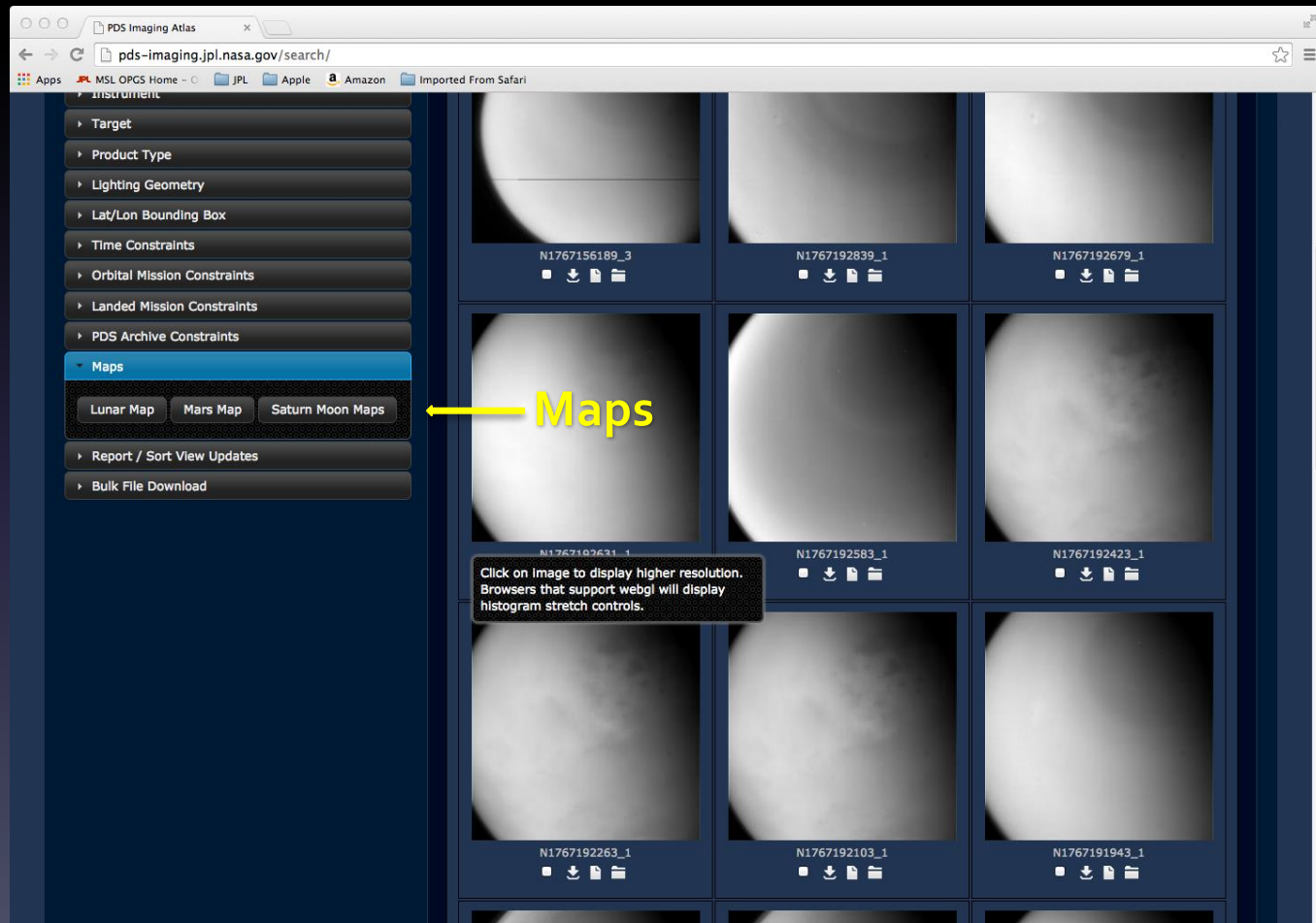
Atlas III – Cassini Maps

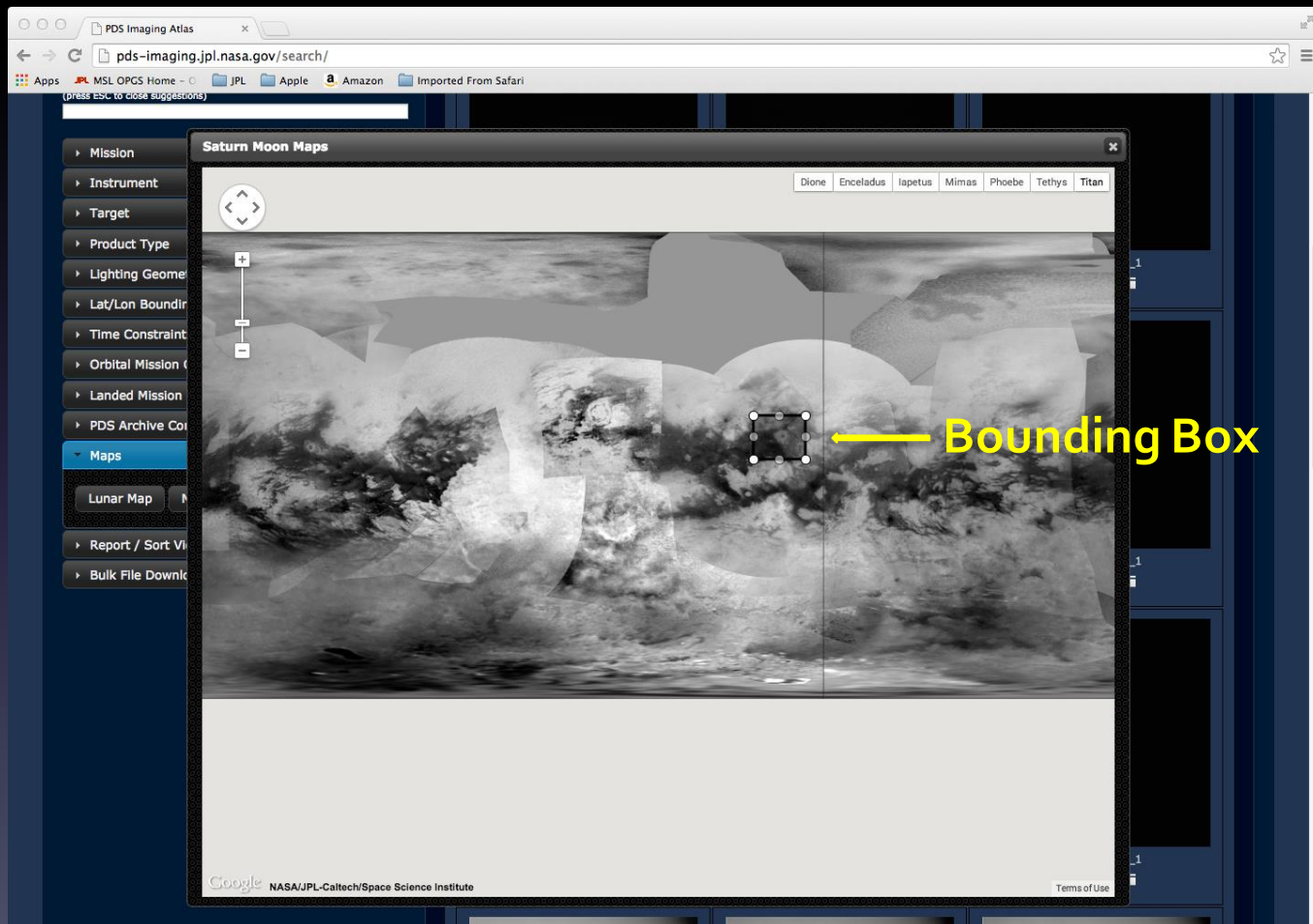The Saturn Moon Maps button is clicked for this tutorial.

Atlas III – Titan Map

Select one of several maps in the map menu.
This tutorial has Titan selected.
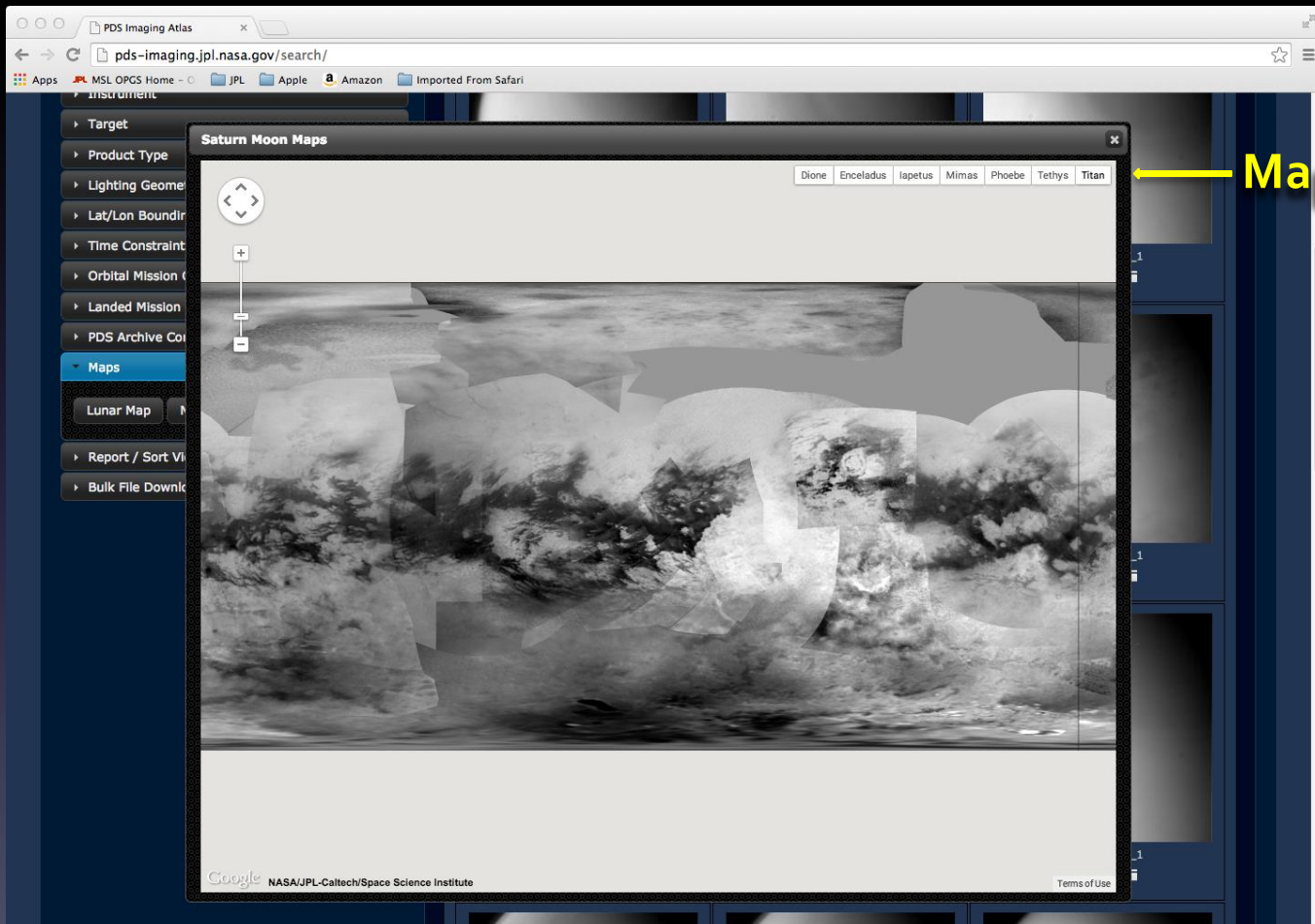
Atlas III – Map Query

Click on the map to select a bounding box.
This will update the images in the grid display.

Atlas III – Titan images

Notice the grid display has been updated with images that match the lat/lon bounding box for the selected area of the Titan map.

Atlas III – Sortable View

Click on the Sort View icon to view a sortable table of images.

Atlas III – Sort Columns and Reports

Click on the Report / Sort View Updates drop down menu to update the columns in the sort view or to generate a csv report.
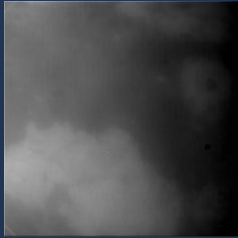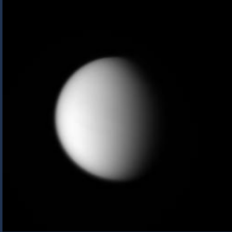
Atlas III – Select Report Fields

Click on desired fields to update the columns in the sortable table.
Click on Update Fields to update the table.
Click on Download CSV to get a comma separated representation of the report.

Atlas III – Update Columns

This tutorial has Center Latitude and Center Longitude selected. Table columns can be sorted.

Atlas III – Report CSV

The CSV report can be opened in Excel.

Atlas III – Bulk File Download

Click on the Bulk File Download drop down menu to download multiple selected files or generate a wget file.

Atlas III – Bulk File Download

Clicking Bulk Download Files will save files to your Downloads directory.

Atlas III – WGET File

Clicking on the Create WGET file to generate a wget file.

Atlas III – Browse Image Display

Click on the thumbnail of an image to view the browse image.

Atlas III – Browse Image

Clicking on the thumbnail will display a higher resolution image.   If the Browser used supports webGL, a histogram stretch and filters can be added to the image. Later versions of Chrome and Firefox support webGL and are recommended.
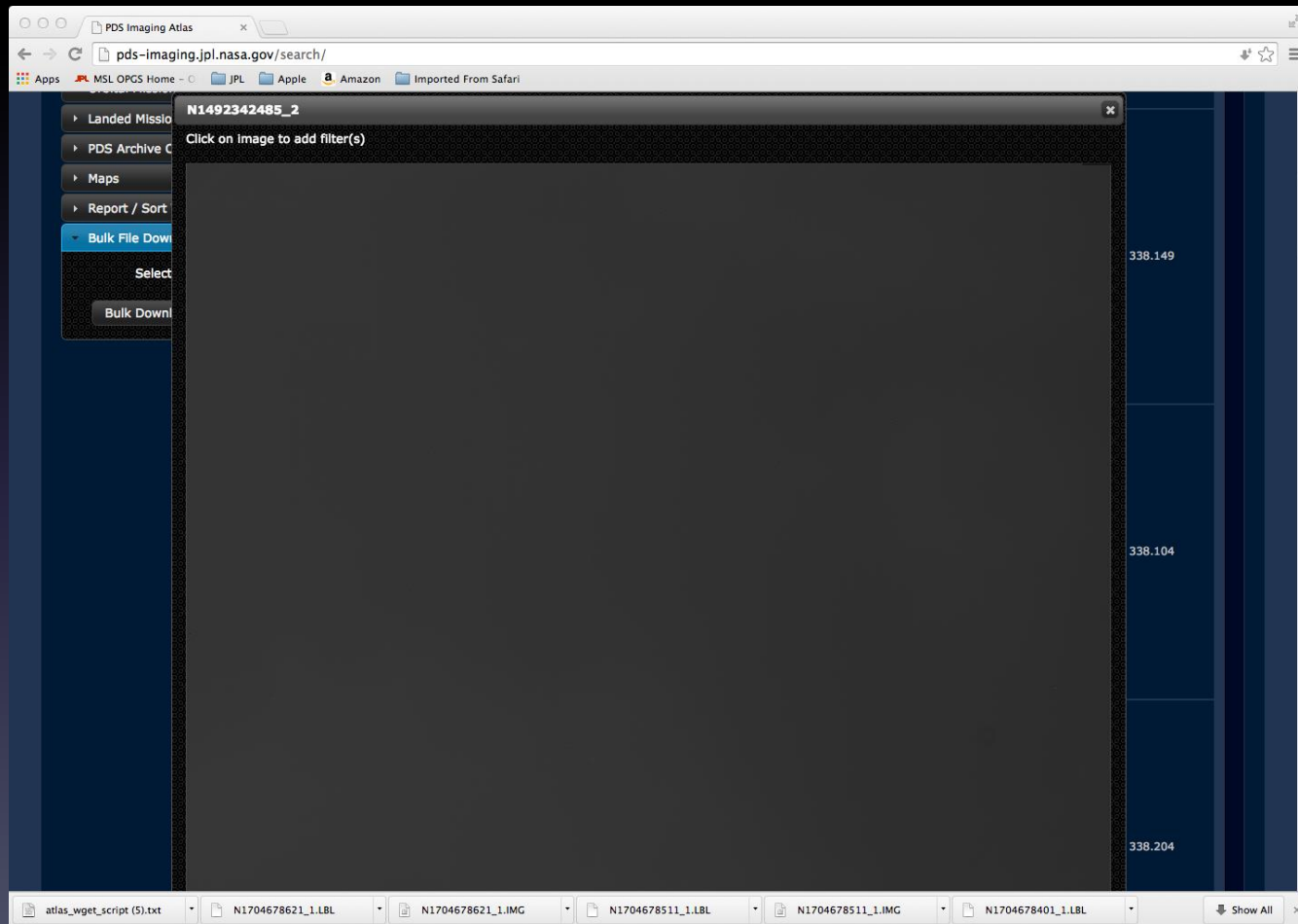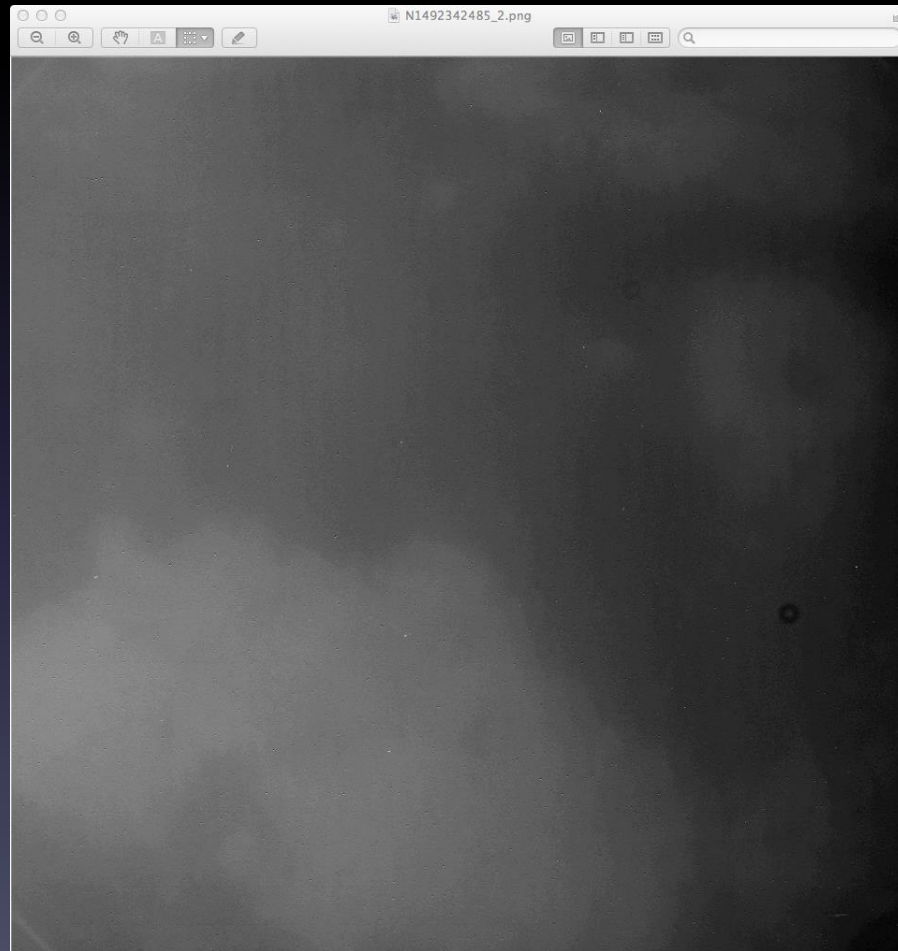
Atlas III – Histogram Stretch

This tutorial applies a histogram stretch in the selected image. The stretched image can be downloaded in a png image file format.
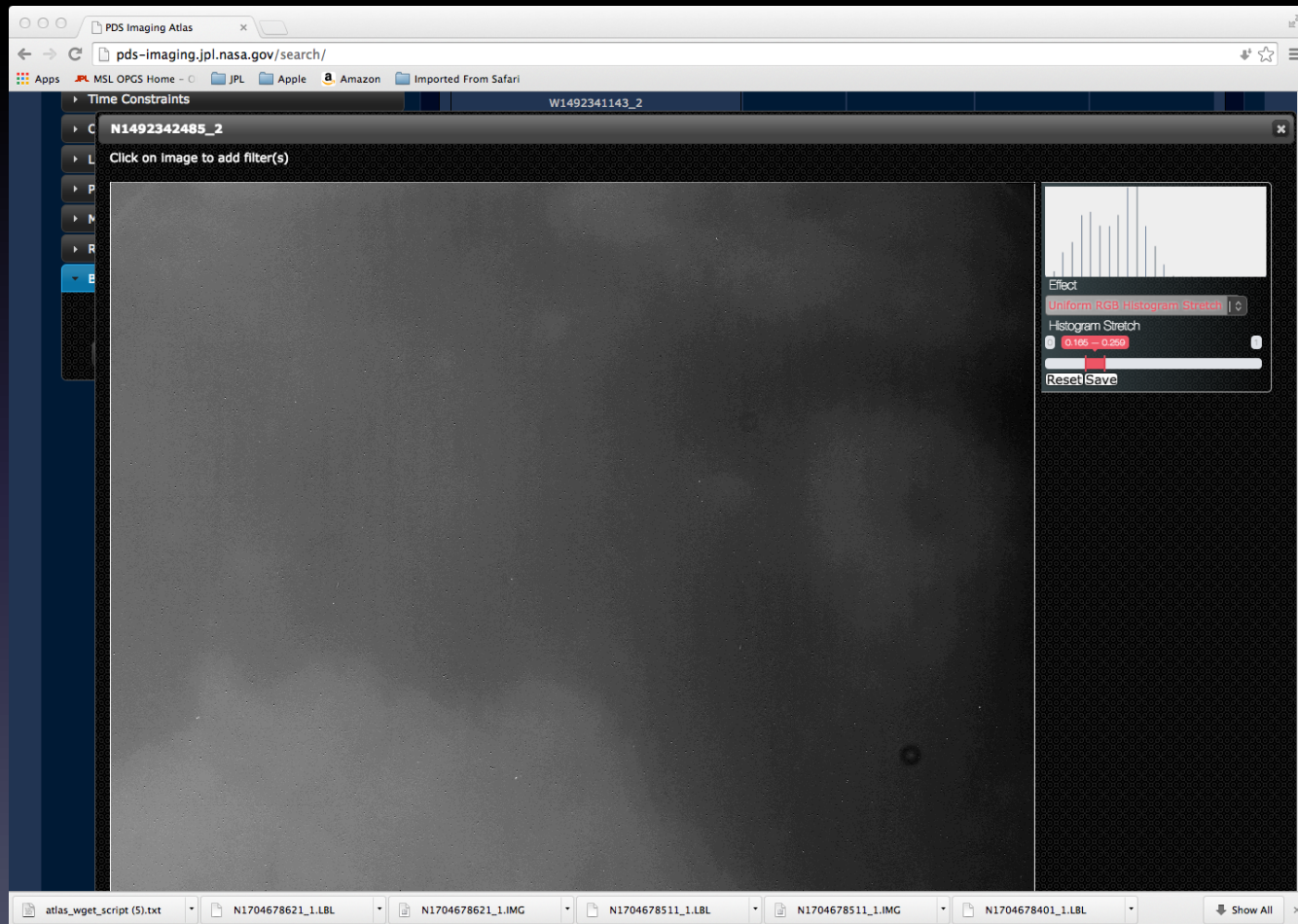
Atlas III – Histogram Stretched Image

The downloaded PNG file can be viewed in a generic image viewer.
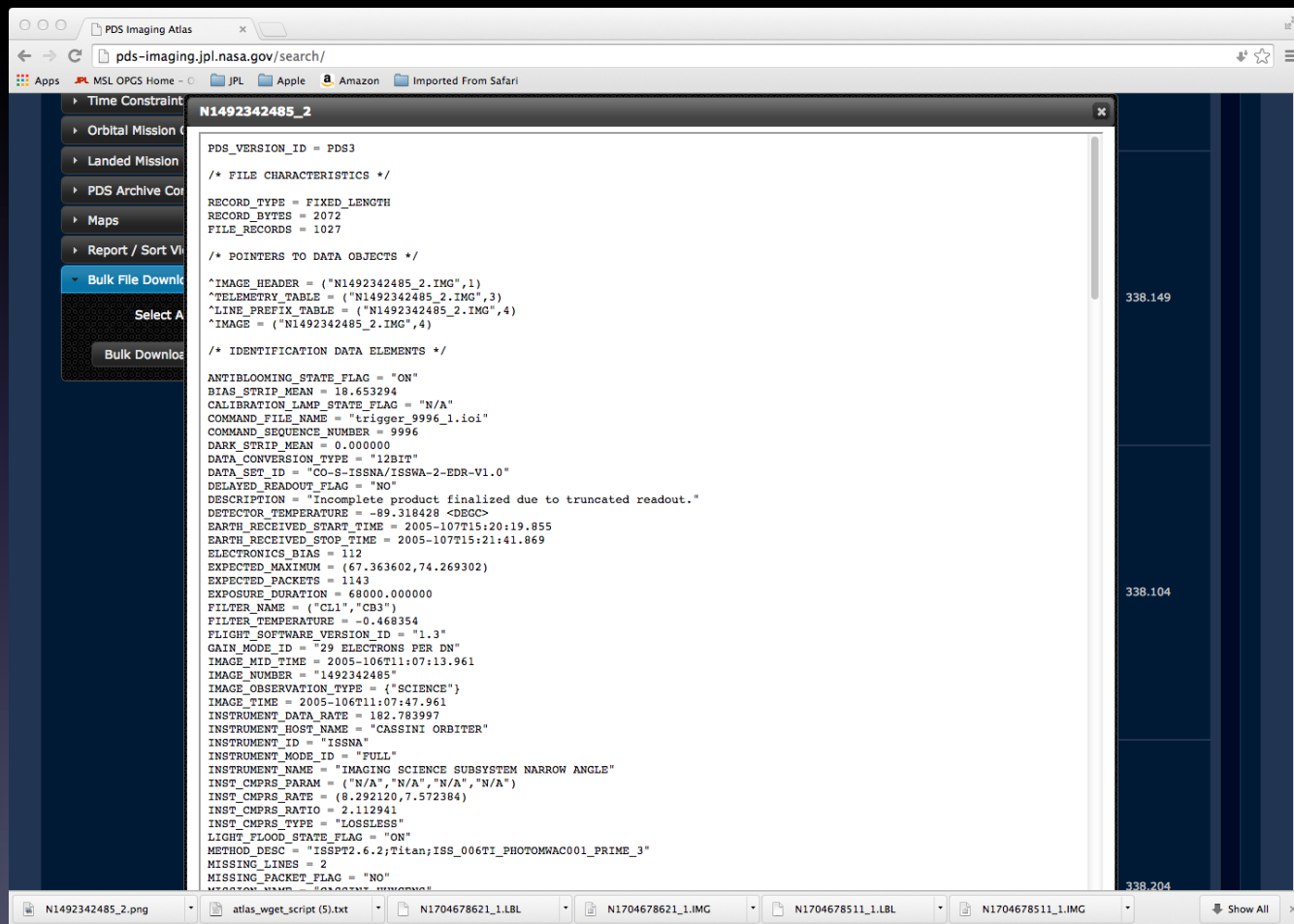This tutorial uses Preview.

Atlas III – PDS Label View

Click on label icon to view the PDS label.

Click on Label Icon

Atlas III – PDS Label View

The PDS label will be displayed in a dialog box.

Atlas III – PDS Volume View

Click on the PDS Volume folder icon to view the archive volume.

Atlas III – PDS Archive Volume

The archive volume will be displayed in a dialog box.