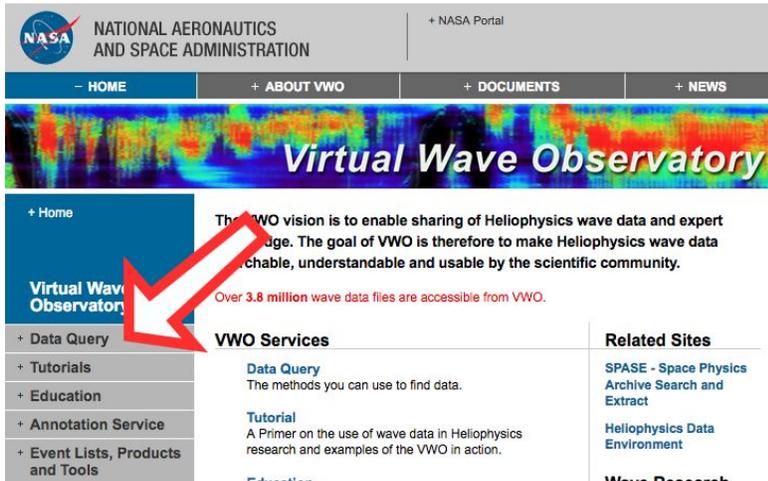


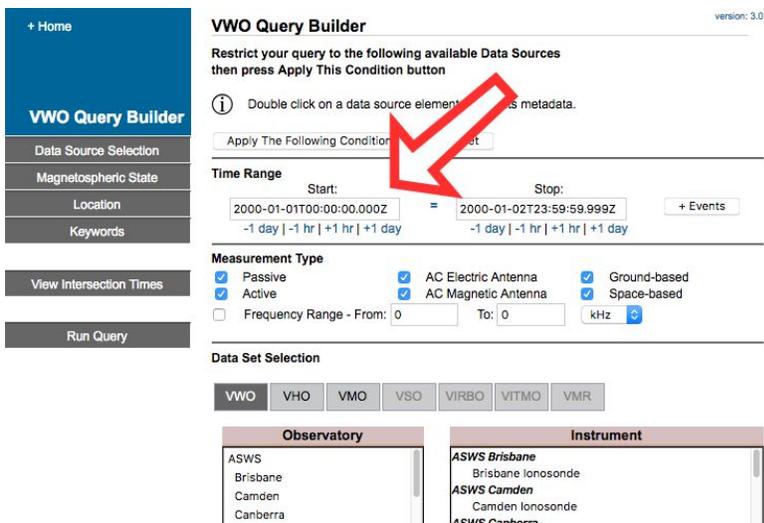
# Navigating e-Callisto data with VWO

This document describes a method to access e-Callisto data sets by time range using the NASA Virtual Wave Observatory (VWO) Query Builder tool.

To begin, point a web browser to <https://vwo.nasa.gov/>



On the VWO home page click Data Query to access the Query Builder.



Start by entering a date/time combination to start the time range. The stop date/time may be entered manually or incremented by day or hour using the controls below the date/time input field.

### Time Range

Start:  = Stop:

-1 day | -1 hr | +1 hr | +1 day      -1 day | -1 hr | +1 hr | +1 day

### Measurement Type

For this example the date range is set to 2016/01/01 00:00:00Z to 2016/01/01 06:00:00Z. The options for observatories, instruments and data products in the Data Set Selections panel will activate (gray highlight) or deactivate (no highlight) based on the availability of those items for the chosen date range.

### Data Set Selection

Observatory	Instrument
Macquarie Island	ASWS Niue
Mawson	ASWS Norfolk Island
Niue	ASWS Perth
Norfolk Island	ASWS Townsville
Perth	ASWS Vanimo
Townsville	ASWS Weipa
Vanimo	ASWS Willis Island
Weipa	e-Callisto
Willis Island	Network Spectrometers
e-Callisto	GIRO

Data Product
<b>Network Spectrometers</b>
CALLISTO Quicklook Solar Spectrogram Plots
CALLISTO Solar Spectrogram FITS files

Select e-Callisto in the Observatory pane and the associated instruments available for the date range will appear selected.

Data Set Selection

<b>VWO</b>	VHO	VMO	VSO	VIRBO	VITMO	VMR
<b>Observatory</b>	<b>Instrument</b>					
Macquarie Island	ASWS Mawson					
Mawson	ASWS Niue					
Niue	ASWS Norfolk Island					
Norfolk Island	ASWS Perth					
Perth	ASWS Townsville					
Townsville	ASWS Vanimo					
Vanimo	ASWS Weipa					
Weipa	ASWS Willis Island					
Willis Island	e-Callisto					
e-Callisto	Network Spectrometers					
<b>Data Product</b>						
<b>Network Spectrometers</b>						
CALLISTO Quicklook Solar Spectrogram Plots						
CALLISTO Solar Spectrogram FITS files						

Single-click each desired entry in the Data Product pane to add that product to the query.

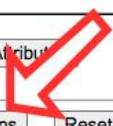
Data Set Selection

<b>VWO</b>	VHO	VMO	VSO	VIRBO	VITMO	VMR
<b>Observatory</b>	<b>Instrument</b>					
Macquarie Island	ASWS Mawson					
Mawson	ASWS Niue					
Niue	ASWS Norfolk Island					
Norfolk Island	ASWS Perth					
Perth	ASWS Townsville					
Townsville	ASWS Vanimo					
Vanimo	ASWS Weipa					
Weipa	ASWS Willis Island					
Willis Island	e-Callisto					
e-Callisto	Network Spectrometers					
<b>Data Product</b>						
<b>Network Spectrometers</b>						
CALLISTO Quicklook Solar Spectrogram Plots						
CALLISTO Solar Spectrogram FITS files						

Select Active Instrument Attribute

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Apply The Above Conditions    Reset



When done, click the Apply The Above Conditions button to lock in the query elements.

<b>TIME:</b>	Reset
2016-01-01T00:00:00.000Z	
2016-01-01T06:00:00.000Z	
<b>SOURCES:</b>	Reset
# of Observatories: 1	
# of Instruments: 1	
# of Products: 2	
View Sources	

View Intersection

Run Query

The left-hand menu provides a summary count of the observatories, instruments and products selected for the query in the SOURCES panel - a quick scan of this can be a handy confirmation of user selections prior to the query request.

In the left-hand menu click Run Query to send the request to the VWO server.

Instrument: e-Callisto Expand

**VWO Query Processing** Close ✕

**Searching VWO database** (eCallisto Spectrogram)

Status: COMPLETE ●

When the request has completed the Query Processing popup will display a "COMPLETE" label - click the X in the upper right-hand corner to dismiss the popup.

## VWO Query Builder

version: 3.0

Instrument: e-Callisto Expand

Click Expand in the upper right-hand corner of an instrument's listings to view the products and dates available for the declared time range.

# VWO Query Builder

version: 3.0

Instrument: e-Callisto Collapse

**Product: CALLISTO Quicklook Solar Spectrogram Plots**  
(170 results)

**i** This will open an image tab.

Date/Time: 2016/01/01 00:00:01  
Image: [ALASKA](#) | [LMRO](#) | [Australia](#) | [RCAG](#) | [ROSWELL-NM](#) | [SSRT](#)

Date/Time: 2016/01/01 00:00:03  
Image: [INDONESIA](#)

Date/Time: 2016/01/01 00:00:05  
Image: [KASI](#)

Date/Time: 2016/01/01 00:05:18  
Image: [BIR](#)

Date/Time: 2016/01/01 00:15:00  
Image: [AGCINT](#) | [SRI](#) | [ALASKA](#) | [LMRO](#) | [Australia](#) | [RCAG](#) | [ROSWELL-NM](#) | [SSRT](#)

When the results are available they are presented as a list of available date/time values providing links to individual remote data files, which can be viewed via the web browser.

