

Streaming A Data Product Using iSWA Data ID

Data can be streamed directly from the iSWA file system iSWADataStreamer api. The base url for the servlet is:

<http://iswa.gsfc.nasa.gov:8080/IswaSystemWebApp/iSWADataStreamer>

NOTE: Data streamed using this api will be returned in the format in which it is stored in on the file system.

Required Parameters

To specify which data products you want to stream, there are three (3) required parameters that must be specified:

- timestamp
- window
- dataId

These parameters must be set to appropriate values and then appended to the base url. For this data streaming api, you would set the parameters as follows

- timestamp=2012-03-08 13:01:00
- window=-1
- dataId=171

The parameters would be specified in a full URL as:

`http://iswa.gsfc.nasa.gov:8080/IswaSystemWebApp/iSWADataStreamer?timestamp=2012-03-09 13:01:00&window=-1&dataId=171`

Note the question ? mark directly after the base URL before the first parameter, and the ampersand & in between each parameter:

`http://iswa.gsfc.nasa.gov:8080/IswaSystemWebApp/iSWADataStreamer?timestamp=2012-03-09 13:01:00&window=-1&dataId=171`

Modifying Parameters

The the base URL for the Data Streaming resource is:

<http://iswa.gsfc.nasa.gov:8080/IswaSystemWebApp/iSWADataStreamer>

...and it accepts three (3) parameters i.e.:

timestamp - used to specify a target date and time to retrieve a selected data source i.e. 2010-05-13 00:44:00

window - used to fine tune the date search method. If the window < 0, the most recent data whose timestamp is less than the specified date will be returned. So if the timestamp is set to a future date i.e. 2038-01-23%2000:44:00 and the window option is set to -1, this will always return the latest/most recent data.

If the window=0, then only data will be returned if the timestamp EXACTLY matches the specified date.

If the window>0, the most recent data within the date range of the specified timestamp +/- the window will be returned. This constrains the results in case you don't want data that is too old.

dataId - a unique data identifier used to select a specific data product

Please note that the window option for values > 0 are still being developed and may not be available. Window option values equal to zero and less than zero should currently work fine. Also, we have not implemented any individual access policies yet so this and any previous data feeds that have been unlocked are unlocked for everyone with the corresponding streamer url and data id.

Some browsers require %20 for the space 2015-11-18%2015:00:00

You may include fractions of second 2015-11-18%2015:00:00.0

Day and month must have 2 digits 2015-11-05%2015:00:00.0

Streaming The Exact Date String for a corresponding iSWADataStreaming Call

There are instances when you would like to know the exact timestamp that is associated with a data product that has been returned. For cases like these, you can request iSWA to return the exact timestamp for a given data set and url parameter for example:

If you use the following request ([iSWADataStreamer](#)) to pull the latest Connectivity data:

<http://iswa.gsfc.nasa.gov:8080/IswaSystemWebApp/iSWADataStreamer?timestamp=2038-01-23%2000:44:00&window=-1&dataId=2>

...you can use ([iSWADataDateStreamer](#)) to get the exact timestamp associated with the above request :

<http://iswa.gsfc.nasa.gov:8080/IswaSystemWebApp/iSWADataDateStreamer?timestamp=2038-01-23%2000:44:00&window=-1&dataId=2>

EXAMPLES

MO_TOT1 (4 day) on or before 2015-11-18 2015:00:00.0

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=999×tamp=2015-11-18%2015:00:00.0&window=-1>

SIDC_operator_v2 on or after 2015-11-18

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=980×tamp=2015-11-18%2015:00:00.0&window=-1>

Flare Scoreboard dataIds

SIDC_operator_v2:

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=980×tamp=2015-11-18%2015:00:00.0&window=-1>

BoM_flare1:

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=987×tamp=2015-11-18%2015:00:00.0&window=-1>

ASSA_1:

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=989×tamp=2015-11-18%2015:00:00.0&window=-1>

Flare Ensemble:

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId>

[d=991×tamp=2015-11-18%2015:00:00.0&window=-1](http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=991×tamp=2015-11-18%2015:00:00.0&window=-1)

MO_IOT1 (1 day):

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=995×tamp=2015-11-18%2015:00:00.0&window=-1>

MO_IOT1 (2 day):

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=996×tamp=2015-11-18%2015:00:00.0&window=-1>

MO_IOT1 (3 day):

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=998×tamp=2015-11-18%2015:00:00.0&window=-1>

MO_IOT1 (4 day):

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/iSWADataStreamer?dataId=999×tamp=2015-11-18%2015:00:00.0&window=-1>