

## **IBEX Data Release 1**

<http://ibex.swri.edu/researchers/publicdata.shtml#dr1>

### **Time Series Data**

The Time Series data files contain the count rates seen by the IBEX sensors in both direct event (DE) and histogram (HB) modes. The documentation file explains the details.

The Time Series data can be accessed by clicking here:

<http://ibex.swri.edu/ibexpublicdata/TimeSeries/>

The IBEX Time Series data set is broken up into five distinct groups:

- Direct event data from the IBEX Hi Sensor

<http://ibex.swri.edu/ibexpublicdata/TimeSeries/HiDE/>

- Histogram data from the IBEX Hi Sensor

<http://ibex.swri.edu/ibexpublicdata/TimeSeries/HiHB/>

- Direct event data from the IBEX Lo Sensor

<http://ibex.swri.edu/ibexpublicdata/TimeSeries/LoDE/>

- Histogram data from the IBEX Lo Sensor

<http://ibex.swri.edu/ibexpublicdata/TimeSeries/LoHB/>

- Background monitor data

<http://ibex.swri.edu/ibexpublicdata/TimeSeries/BM/>

Documentation of the Time Series data sets can be found here:

[http://ibex.swri.edu/ibexpublicdata/TimeSeries/TS\\_description.txt](http://ibex.swri.edu/ibexpublicdata/TimeSeries/TS_description.txt)

### **Map Data**

The IBEX Map data files plot the IBEX Hi and Lo flux rates onto the celestial sphere, in J2000 ecliptic coordinates. The flux maps are sums over a six-month period (orbits 9-31) and are broken out by sensor energy band (Hi bands 2-6, Lo bands 5-7).

Also included are plots of Hydrogen and Oxygen rates based on time-of-flight measurements.

The Maps data can be accessed by clicking here:

<http://ibex.swri.edu/ibexpublicdata/Maps/Hi/>

The IBEX Map data set is broken up into three distinct groups:

- Maps of the celestial sphere (in ecliptic J2000 coordinates) in Hi energy bands 2-6 accumulated over IBEX orbits 10-31. These data can be accessed by clicking here:

<http://ibex.swri.edu/ibexpublicdata/Maps/Hi/>

Documentation of the Hi map files can be seen by clicking here:

[http://ibex.swri.edu/ibexpublicdata/Maps/Hi/Maps\\_Hi\\_description.txt](http://ibex.swri.edu/ibexpublicdata/Maps/Hi/Maps_Hi_description.txt)

- Maps of the celestial sphere (in ecliptic J2000 coordinates) in Lo energy bands 5-7 accumulated over IBEX orbits 9-30. These data can be accessed by clicking here:

<http://ibex.swri.edu/ibexpublicdata/Maps/Lo/>

Documentation of the Lo map files can be seen by clicking here:

[http://ibex.swri.edu/ibexpublicdata/Maps/Lo/Maps\\_Lo\\_description.txt](http://ibex.swri.edu/ibexpublicdata/Maps/Lo/Maps_Lo_description.txt)

- Results of using time-of-flight to distinguish Hydrogen from Oxygen in Lo Maps. These data are broken down by orbit for orbits 13-23. These data can be accessed by clicking here: <http://ibex.swri.edu/ibexpublicdata/Maps/TOF/>

Documentation for the TOF data can be seen by clicking here:

[http://ibex.swri.edu/ibexpublicdata/Maps/TOF/Maps\\_TOF\\_description.txt](http://ibex.swri.edu/ibexpublicdata/Maps/TOF/Maps_TOF_description.txt)

## **Calibration Data**

The [Calibration Data files](#) give all information about the IBEX sensors required to understand the collected data. The calibration data can be accessed by clicking here:

<http://ibex.swri.edu/ibexpublicdata/CalData/>

The documentation files explain the details:

The IBEX calibration data set is broken up by sensor: Hi and Lo. Links to the calibration data and explanatory text are given below.

### *Hi Sensor Calibration Data*

Calibration data for the IBEX Hi Sensor is kept here:

<http://ibex.swri.edu/ibexpublicdata/CalData/Hi/>

Documentation for the files in that directory can be found here:

[http://ibex.swri.edu/ibexpublicdata/CalData/Hi/Cal\\_Hi\\_description.txt](http://ibex.swri.edu/ibexpublicdata/CalData/Hi/Cal_Hi_description.txt)

### *Lo Sensor Calibration Data*

Calibration data for the IBEX Lo Sensor is kept here:

<http://ibex.swri.edu/ibexpublicdata/CalData/Lo/>

Documentation for the files in that directory can be found here:

[http://ibex.swri.edu/ibexpublicdata/CalData/Lo/Cal\\_Lo\\_description.txt](http://ibex.swri.edu/ibexpublicdata/CalData/Lo/Cal_Lo_description.txt)