

The US INTEGRAL Public Data Archive

INTEGRAL User's Committee Meeting 2-21-06

INTEGRAL Archive Milestones

July 2004: The ISDC INTEGRAL Public Data Archive opened with data up to revolution 66 (5-1-03).

September 2004: The US INTEGRAL Public Data Archive at the HEASARC opened.

January 2005: All public data was reprocessed into revision 2 format.

January 2005: New GO and CP data released in revision 2.

February 2005: The US INTEGRAL Public Data Archive at the HEASARC switches over to revision 2 format data.

March 2005: All data available from ISDC in revision 2 format.

February 2006: 1.8 TB of public INTEGRAL data available from the HEASARC

Current Public Data Archive Status

- New public data is available to the community within a few days of its release from the ISDC. The limiting factor is the low data transfer rate from the ISDC. ~3 spacecraft revolutions can be transferred per day.
- All public data through the latest release (1-30-06) is currently available from the HEASARC archive.
- Public data releases occur ~monthly with the next releases scheduled for 2-23 and 3-31.
- We have agreement with ISDC to notify us when data is reprocessed, e.g. .001 ==> .002 versions.

Schedule of Public Data Releases:

Date	Revolutions getting public
2006 Jul 31	274-276, 291, 310-321
2006 Jun 23	270-273, 279-282, 287-290, 292-299, 301, 302, 304-309
2006 May 08	300
2006 Apr 20	277, 284-286
2006 Mar 31	261-266, 268, 269, 278, 283
2006 Feb 23	251-260, 267
2006 Jan 30	210-214, 221, 222, 236, 237, 244-250
2005 Dec 9	215, 216, 218, 220, 226, 227, 229-231, 238
2005 Nov 17	207, 209, 217, 219, 223-225, 239-243
2005 Oct 17	232-235
2005 Sep 30	201-206, 208, 228
2005 Aug 8	168, 188, 189, 192, 194-200
2005 Jul 22	176, 177, 186, 187, 193
2005 Jun 17	184, 190, 191
2005 Jun 3	161-162, 164, 166, 172, 173, 175, 178-182, 185
2005 May 19	137-141, 150-160, 163, 183
2005 May 2	171, 174
2005 Apr 5	165, 167, 169, 170
2005 Mar 21	126-129, 131-136, 142-149
2005 Jan 3	081-088, 123-125
2004 Dec 10	107, 108, 110-115, 130
2004 Nov 19	098, 099, 104, 105, 106, 109, 119-122
2004 Nov 1	097, 101, 116, 117, 118
2004 Oct 18	079, 080
2004 Oct 04	100, 102, 103
2004 Sep 24	74-76, 89-96
2004 Aug 16	77, 78

Accessing the US INTEGRAL Public Data Archive

- The US INTEGRAL Public Data Archive is accessible from the HEASARC via Browse or FTP.
- Downloading the data as a tar file is complicated by the large size of the typical observation, 3 days of data = 7-8 GB.
- The HEASARC limit for a tar file is ~3.5 GB ==> the preferred download method is via a wget script created by Browse.
- A detailed description of all the INTEGRAL catalogs available through Browse as well as a detailed cookbook describing the downloading of data and the setting up of a local data repository are available on the GOF website:
http://heasarc.gsfc.nasa.gov/docs/integral/inthp_archive.html

HEASARC Browse: Search of INTEGRAL and object Catalog(s) - Netscape

File Edit View Go Bookmarks Tools Window Help

http://heasarc.gsfc.nasa.gov/db-perl/W3Browse/w3table.pl Search

HEASARC Browse: Search of INTEG...

[Browse Home](#) Search of **INTEGRAL** and object Catalog(s) [Tip Archive](#) [Hera](#) [HELP](#)

[Main Search Form](#) > [Search Form](#) > Search Results > Choose Data Products

1. Please select one or more of the tables below.
 Sort by a column in order: 1,2,3 ↑ Sort by column in reverse order: 3,2,1

Select:	Description	Catalog	Data	Default Radius (arcmin)	Mission	Table Type
<input checked="" type="checkbox"/>	INTEGRAL Public Pointed Science Window Data	intscwpub	Y	600	INTEGRAL	Observation
<input type="checkbox"/>	INTEGRAL Science Window Data	intscw	Y	600	INTEGRAL	Observation
<input type="checkbox"/>	INTEGRAL Public Data Results Catalog	intpublic	Y	600	INTEGRAL	Object
<input type="checkbox"/>	INTEGRAL Bright Source Catalog	intbsc	Y	15	INTEGRAL	Object
<input type="checkbox"/>	First IBIS/ISGRI Soft Gamma-Ray Galactic Plane Survey Catalog	ibisgpocat	N	15	INTEGRAL	Object
<input type="checkbox"/>	INTEGRAL IBIS Hard X-Ray Survey of Galactic Center	intgccat	N	5	INTEGRAL	Object
<input type="checkbox"/>	INTEGRAL Observing Program	integralao	N	60	INTEGRAL	Proposal
<input type="checkbox"/>	INTEGRAL Reference Catalog	intrefcat	N	15	INTEGRAL	Object

2. Do you want to change any of your current query selections?

Object Name Or Coordinates: (e.g. Cyg X-1 or '12 00 00, 4 12 6') Use semi-colons (;) to separate multiple object names or coordinate pairs (e.g. Cyg x-2; 12.235, 15.345)

Coordinate System: J2000

Search Radius: Default arcmin Default uses the optimum radius for each catalog searched.

Name Resolver: SIMBAD, else NED

Observation Dates: The time portion of the date is optional. Separate multiple dates/ranges with semicolons (;). Range operator is '..'. (e.g. 1992-12-31; 48960.5; 1995-01-15 12:00:00; 1997-03-20 .. 2000-10-16)

Limit Results To: 1000 ROWS

Output Format: HTML Table

Show All Parameters: Select to display all catalog parameters instead of only defaults

3.

[Send email to the Browse Software Development Team](#)

HEASARC Browse: Data Products Download Commands - Netscape

File Edit View Go Bookmarks Tools Window Help

http://heasarc.gsfc.nasa.gov/db-perl/W3Browse/w3hdprods.pl

HEASARC Browse: Data Products D...

[Browse Home](#) Data Products Download Commands [Tip Archive](#) [Hera](#) [HELP](#)

Search Results > **Data Products Download Commands**

The following commands can be used to download selected data products:

Copy and paste lines to a local shell script or command line or download commands to a file

[Download Commands To File](#)

Note: The network utility *wget* is included with most systems. To download *wget* or get more information visit the [GNU website](#)

```
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/scw/0142/rev.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/aux/adp/ref/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/aux/adp/0142.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/aux/adp/0143.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/scw/0074/rev.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/scw/0143/014300130010.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/scw/0143/rev.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/scw/0142/014200610010.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/scw/0142/014200690010.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/aux/adp/0074.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/scw/0074/007400040010.001/
wget -q -nH --cut-dirs=3 -r -lO -c -nc -np --retr-symlinks ftp://legacy.gsfc.nasa.gov/FTP/integral/data/scw/0142/014200210010.001/
```

Total size of data product files local to the HEASARC system: 684 MB
File sizes of remote data products are not available

The [HEASARC Online Service](#) is provided by the Laboratory for High Energy Astrophysics at NASA/Goddard Space Flight Center. If using this service made a significant contribution to a research project, please make the following acknowledgment in any resulting publication:

"This research has made use of data obtained through the High Energy Astrophysics Science Archive Research Center Online Service, provided by the NASA/Goddard Space Flight Center."

Please send a preprint or reprint of the paper to:

The HEASARC, Code 660.2, NASA/Goddard Space Flight Center, Greenbelt, Maryland, 20771, USA.

[Send email to the Browse Software Development Team](#)

Done

Archive Usage Statistics

Month	Amount Downloaded (GB)	HEASARC Ranking
Aug 05	45.1	5
Sep 05	28.2	4
Oct 05	93.8	4
Nov 05	213.0	3
Dec 05	16.7	8
Jan 06	303.8	2