

Suzaku Archives at ISAS/DARTS



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Abstract

The Suzaku science data are archived at ISAS/DARTS in Japan and at NASA/HEASARC in US. The Suzaku archives in DARTS is explained in this poster. The system provides three functionalities: (1) data distribution to the public archive users and guest observers via FTP, (2) data query service based on the observation-log or processing-log tables via web interface, and (3) supply archive related information. The DARTS data are also mounted on the ISAS work stations (analysis servers) and external subnets of several universities, so that users of these computer systems may directly access the DARTS data.

Please remember the DARTS/Suzaku URL: http://darts.isas.jaxa.jp/astro/suzaku

Suzaku Tables

- (1) LOG: A basic log of every pointing/sequence starting from the initial checkout phase. Information is derived from the operation command log. 'Remarks' is added if there is an unusual event during the observation (such as safe-hold).
- (2) MASTER: A master table for archive data for each sequence. The information are derived from the data processing and/or from the Suzaku Observation Data Base (ODB). The main purpose of the table is to provide archive users with useful information. The master table records telescope pointing, instrumental operational modes, observation status, basic proposal information, data status, etc. The table will be created by the Suzaku processing/archive team and used commonly in both HEASARC and ISAS (the Suzaku MASTER table is called suzamaster at HEASARC).

	7	olde Name L	00	Suzaku LOG			
Colman Name	Type	Unit		ouzuna zoo			
520_80	varchar(9)		Unique Say.	e Charmatou/Sequence Musber This is the primary			
TARGET	verbe(32)		The target name, have ally given by the PL.				
PA.	Boat(7,4)	degree	Eight ascension of the pointing postion (72000.0).				
HELL	Bra(7,4)	degree	Declaration of the pointing position (72000.0).				
HON_CTART	datetion		The date and time of the manager start.				
MINI JOHN JOHN T	dateboor		The date and time of the maneurer start for the NEXT target.				
men_i	Sout(7,4)	degree	The first exier angle of the pointing.				
nun_r	Brid(7,4)	degree	The second rules unde of the pointing				
mm_r	\$14E(7,4)	degree	The fixed rules under of the pointing.				
REMARKS	test		FTTTA	ks of the satellite/autoauests operation, if any			

The details of column data Suzaku MASTFR

(a.k.a. suzamaster)

Acriere Info	Data Search	Mirrora Info	Observation Log	Arrest	HTTP	Status	Warnleagth Life Time
ASCA	Artis Stank, ski	MARGRAY	he hetlek	EER	MINE	Completed	X-rap*93-101
HALCA	Arra-Street	MASVEOR	lus .	m	HOR	On-group	Bado/97-
CERTON	Admilianth,	MARKEAN	ina .	ETE	NULL SECTION	Completed	X-ray/17-91
DOI:	1000	MARK	-	-	-	Completed	20/95
Tenno	100	MARKEAY	ia .	-	+)	Neplan	X-rap*83-89
Carella .	MASTER	SARRIAT	in .	ETE:	MINE	inated at 2006-5	X-rap*05/7-
AEAEI (Under development)		HARR		-		Designing	B/06/2-
• Seed data our	lafornation for the u	e organi stru GEFONASA,	of GEECHAE				

Astrophysical Data Service in DARTS http://darts.isas.jaxa.jp/astro/

ARCHIVE HISTORY/STATUS

- Data distribution has started on 2006-5-30 (ver. 1.0).
- From the 1st observation on 2005-8-12 to 2006-11-23, 503 pointing sequences
- Out of 503, 311 sequence data were processed with ver. 1.2 processing and are
- 26 sequence data (SWG phase, AO1/CAL, ToO) are already public. Other

Use cases - Suzakulog -

O. How can I list up all the available data? A.[Maximum number of output rows] = 10000, [Target Name or Coordinate] = off As of 2006-11-1, 537 records are returned. You can save a wget script for your data download.

- Q. How can I search for Crab observations?
- A. [Maximum number of output rows] = 10000, [TargetName or Coordinate] = on (left side check box), [Search Radius] = 30',

[Target Name] = on , 'Crab'

or [Pattern Match] = on (other check box are off), [TARGET] =Crab

As of 2006-11-1, 26 records are returned. Instead of 'Crab', you can query by any text such as Abell, RXJ1, HESS, 1060, and so on.

- O. I would like to search available data around the Galactic Center.
- A. [Maximum number of output rows] = 10000, [Target Name or Coordinate] = on (left side check box), [Search Radius] = 90'.

[Coordinate] = on (left side check box), '0 0', select[Galactic II]

As of 2006-11-1, 26 records are returned.

O. I would like to know all the observed data in 2005-8. A. Select [Observation Date] check box and input the date

As of 2006-11-1, 71 records are returned.

Development of Query Applications

- · A set of query/search web applications is the primary service of DARTS.
- We have developed these applications based on Java-Server-Pages/Struts frameworks. We also developed a new framework, TSUNAGI, for general Web-database systems at the PLAIN center/ISAS in collaboration with SEC cooperation. TSUNAGI enable us to develop and maintain web applications very efficiently. TSUNAGI has been also adopted for HINODE and AKARI DARTS.
- We use MySQL for the main database management
- These applications are on Solaris and Linux servers.
- All DARTS data is stored on a Storage Area Network
- We use the SIMBAD WebService for resolving target names and obtain coordinates.

