

天文データセンター共催

CAS

(Catalog Archive Service)

$\bullet \bullet \bullet \checkmark \square$		🗎 hscdata.mt	k.nao.ac.jp/datasearch/catalog	_jobs 🔿			₫.	đ	+
about the data release	schema browser	<u>list jobs</u>	summary table search	direct SQL	search m	nisc hscM koikem@s	ap <u>(sl</u> tars	<u>5a)</u> 1000	out

jobs

quota: 196 MB / 50 GB

this page will be reloaed in 30 seconds.

1	2	3	4	5	 Next >	Last	ъ
_	_	-			 ALSO ALSO	and the second	_

release	name	status	created	started	duration	sql	error		download
dr1	catalog- job 2016-04- 10	done	2016-04- 10 13:57:37	2016-04- 10 13:57:37	00:00:03	3 SELECT phot.id, phot.ra2000, phot.decl2000, phot.gflux_cmodel,		delete	<u>csv.gz</u> 2.74 KB
dr1	catalog- job 2016-04- 10	done	2016-04- 10 13:57:20	2016-04- 10 13:57:21	00:00:00	00:00:00 This is an example for selecting QSO candidates at z ~ 4.5		delete	<u>csv.gz</u> 1.18 KB
dr1	catalog- job 2016-04- 10	done	2016-04- 10 13:56:50	2016-04- 10 13:56:50	00:00:00	put your SQL here		delete	<u>csv.gz</u> 49 Bytes
dr1	catalog- job 2016-04- 10	done	2016-04- 10 13:54:44	2016-04- 10 13:54:44	00:00:00	put your SQL here		delete	<u>csv.gz</u> 49 Bytes
dr1	catalog- job 2016-04- 08	done	2016-04- 08 07:13:41	2016-04- 08 07:13:41	00:00:00	Simple area search based on the range of RA and DEC getting all object		delete	<u>csv.gz</u> 688 Bytes
drl	catalog- job 2016-04-	done	2016-04- 08	2016-04- 08	00:00:00	Simple area search based on the range of RA and DEC getting all object		delete	<u>csv.gz</u> 688
dr1	catalog- job 2016-04-	done	2016-04- 08	2016-04- 08	00:00:00	Simple area search based on the range of RA and DEC getting all object		delete	<u>csv.gz</u> 688
drl	catalog- job 2016-04- 08		2016-04- 08 07:13:41	2016-04- 08 07:13:41	00:00:00	D0:00 RA and DEC getting all object		delete	<u>csv.gz</u> 688 Bytes
	release dr1 dr1 dr1 dr1 dr1 qr1 qr1 qr1	Lot Lot dr1 2016-04- 10 dr1 08 dr1 08 dr1 08 2016-04- 10 2016-04- 10 dr1 08 dr1 08 <tr< td=""><td>LO LO dr1 Sold of the second second</td><td>release name status created dr1 Catalog- 2016-04- 10 done Catalog- 2016-04- 10 done Catalog- 2016-04- 10 dr1 Catalog- 2016-04- 10 done Catalog- 10 done Catalog- 10 dr1 Catalog- 2016-04- 10 done Catalog- 10 catalog- 1</td><td>release name status created status dr1 08 0016-04- 10 0016-04- 10</td><td>Lelease name statu c.e.ate statu statu</td><td>releasenamestatucreatedstarteddurationcreateddr1CalorerConcert<</td><td>releasenamestatusoreadestarteddurationequino (sql)dr.1Caloby 2016-04 10dow2016-04 102016-04 1</td><td>release name status oreate started duration seque seque error dr1 200 done 2016-04 10 13:57:32 0:00:02 EEEET phot.id, phot.ra2000, phot.del1000, phot.del2000, phot.del200, phot.del2000, ph</td></tr<>	LO LO dr1 Sold of the second	release name status created dr1 Catalog- 2016-04- 10 done Catalog- 2016-04- 10 done Catalog- 2016-04- 10 dr1 Catalog- 2016-04- 10 done Catalog- 10 done Catalog- 10 dr1 Catalog- 2016-04- 10 done Catalog- 10 catalog- 1	release name status created status dr1 08 0016-04- 10 0016-04- 10	Lelease name statu c.e.ate statu statu	releasenamestatucreatedstarteddurationcreateddr1CalorerConcert<	releasenamestatusoreadestarteddurationequino (sql)dr.1Caloby 2016-04 10dow2016-04 102016-04 1	release name status oreate started duration seque seque error dr1 200 done 2016-04 10 13:57:32 0:00:02 EEEET phot.id, phot.ra2000, phot.del1000, phot.del2000, phot.del200, phot.del2000, ph

データベースへのアクセス方法

• SSPのデータベースのホームページへログイン

<u>https://hscdata.mtk.nao.ac.jp/datasearch/</u>

- SQLを書く
- SQLをsubmit

• 検索が終わるのを待つ→結果をダウンロード

$\bullet \bullet \bullet < > \square$	⊨ hscdata.mtk.nao.ac.jp/datasearch/session/new Č	1 0 +
		login
	id: koikem password:	
	login	

https://hscdata.mtk.nao.ac.jp/datasearch/



	•					🗎 hscdata.	mtk.nao.ac.jp	/datasearch/cata	log_jobs/new	Ċ		<u></u>	0 +
about	the	data	release	schema	browsei	<u>list jo</u>	obs summa	ry table sea	rch direc	t SQL s	earch mi problem?	<u>sc hscMap (s)</u> koikem@stars	l <u>5a)</u> logout
name:	cat	alog-jo	b 2016-04	-10									
relea	se:	dr1	٥										
SOL:	Press	ctrl-sp	ace or ctr	1-I to act	ivate auto	completion.	(experimental)					
1 - 2 - 3 - 4	- pu	it your	SQL he	re									
examp	le:	-	SOL in	CSV			٥	function list	table lis	st			
		untay	check be	fore en	meneina								
•	If you	u encour sv O	csv.gz (or "ERROR: sqlit	canceling e3 fi	statement d	ue to statem	ent timeout" on	enqueueing, pl	lease unch	neck this.		
previe	w	(timeout	: 10 secon	ds) enqu	eue (tir	neout: 12 hou	rs / output	limit: 20 GB)					

• •		<		1		⊜ hscd	ata.mtk.na	ao.ac.jp/	datasearch	n/catalog_j	obs/new	Ç			۵	ð	+
about	the	data	releas	e sche	ma brows	er <u>list</u>	jobs	summa	ry table	search	direct	SQL	search proble	<u>misc</u> m? ko	hscMap (ikem@star	(s15a) s logo	out
name:	cat	alog-jo	b 2016-	04-10													
releas	se:	dr1	٢														
SQL: 1	ress	ctrl-sp	ace or o	trl-I to	activate au	tocompletio	on. (exper	imental)								
1 -	-																
2 -	- pu -	t you	C SQL 1	here													
4 s	elec	t sqrt	t(4)														
					Contract Street and the second			_									
exampl	le:	-				State of the second		0	function	list	table lis	t					
		nclude	SOT. 1	n CSV			A COMPANY COMPANY										
	s s	vntax	check	before	enqueuei	ng		No. of Concession, Name									
:	If you	a encour	nter an e	error "ERF	OR: canceli	ng stateme	nt due to	stateme	nt timeout	on enque	ueing, pla	ease un	check thi	s.			
•	C	sv 🔘	csv.gz	i 🔵 sql	ite3 🔵	fits				No. of Concession, Name	1.=		_				
											浙	逞					
previe	w (timeout	: 10 sec	onds) e	nqueue (1	timeout: 12	hours / c	output 1	imit: 20 0	B)	(111)		~				

•		$\langle \rangle$				hscdata.mtk.	nao.ac.jp/	datasearch/cat	alog_j	obs/new	Ċ			₫	0+
about	the	data 1	release	schema 1	browser	<u>list jobs</u>	summa	ry table sea	arch	direct	SQL	search proble	misc m? ko:	<u>hscMap (</u> ikem@stars	<u>s15a)</u> s logout
name:	cat	alog-joł	2016-04	-10											
relea	se:	dr1	٥												
SOL:	Press	ctrl-spa	ce or ctri	l-I to activ	ate autoco	mpletion. (exp	erimental)							
1 - 2 - 3 - 4 s	- pu - pu selec	t your t sqrt	SQL her	e				, 							
examp	le:	-					٢	function list	t	table list					
:	in sy If you c	nclude yntax o encount sv O o	SQL in check be ter an err csv.gz (CSV fore enqu or "ERROR: c sqlite:	eueing anceling 3) fit	statement due t S	o stateme	nt timeout" on	engue	eueing, plea	ise und	check this	8.		
previe	ew (imeout:	10 second	is) enque	Je (time	out: 12 hours /	output]	imit: 20 GB)							
		クリ	ノツ	ク											

			🗎 hscdata.m	tk.nao.ac.jp/datasearch/catalog	g_jobs 🔿			0+
about the	data release	schema browser	<u>list jobs</u>	summary table search	direct SQL	search misc problem? koi	hscMap <u>(</u> sl kem@stars	<u>5a)</u> logout
name: cat	alog-job 2016-04-	-10						
release:	dr1 🗘							
SQL: Press 1 2 pu 3 4 selec	ctrl-space or ctrl t your SQL her ct sqrt(4)	-I to activate autoco	mpletion. (exp	erimental)				
example:	-			function list	table list			
• i • s If yo • c	nclude SQL in o yntax check bes u encounter an erro sv O csv.gz	CSV fore enqueueing or "ERROR: canceling s sqlite3 fits	tatement due t 5	o statement timeout" on enque	ueing, please und	check this.		
preview	(timeout: 10 second	is) enqueue (timeo	out: 12 hours /	output limit: 20 GB)				
1 records sqrt 2	found.		— 結	ī果				
				プレビュー	モート	ぐでは		
			1	0秒				
			Į	最初の1000	D行			





jobs

quota: 196 MB / 50 GB

this page will be reloaed in 57 seconds.

23	<u>4 5 Nez</u>	<u>345 Next) Last »</u>								
id	release	name	status	created	started	duration	sql	error		downloa
29493	dr1	catalog- job 2016-04- 10	running	2016-04- 10 13:57:37	2016-04- 10 13:57:37	00:00:00	<pre>SELECT phot.id, phot.ra2000, phot.decl2000,</pre>		cancel	
		catalog-		2016 04	2016 04					
29492	dr1	job 2016-04- 10	done	10 13:57:20	10 13:57:21	00:00:00	This is an example for selecting QSO candidates at $z\sim4.5$		delete	<u>csv.gz</u> 1.18 KB
29491	drl	catalog- job 2016-04- 10	done	2016-04-	subi	mitU	た検索ジョブ		delete	<u>csv.gz</u> 49 Byte
29490	dr1	catalog- job 2016-04- 10	done	2016-04- 10 13:54:44	2016-04- 10 13:54:44	00:00:00	put your SQL here		delete	<u>csv.gz</u> 49 Byte
29480	dr1	catalog- job 2016-04- 08	done	2016-04- 08 07:13:41	2016-04- 08 07:13:41	00:00:00	Simple area search based on the range of RA and DEC getting all object //		delete	<u>csv.gz</u> 688 Bytes
29479	dr1	catalog- job 2016-04-	done	2016-04- 08	2016-04- 08	00:00:00	Simple area search based on the range of RA and DEC getting all object		delete	<u>csv.gz</u> 688



jobs

quota: 196 MB / 50 GB

this page will be reloaed in 57 seconds.

123	<u>4 5 Nez</u>	<u>xt) Last</u>								
id	release	name	status	created	started	duration	sql	error		downloa
29493	dr1	catalog- job 2016-04- 10	running	2016-04- 10 13:57:37	2016-04- 10 13:57:37	00:00:00	<pre>SELECT phot.id, phot.ra2000, phot.decl2000,</pre>		cancel	
29492	dr1	catalog- job 2016-04- 10	done	2016 04- 10 13:57:20	2016-04- 10 13:57:21	00:00:00	This is an example for selecting QSO candidates at $z\sim4.5$		delete	<u>csv.gz</u> 1.18 KB
29491	dr1	catalog- job 2016-04- 10	done	2016-04-		00:00:00	 		delete	<u>csv.gz</u> 49 Byte
29490	dr1	catalog- job 2016-04- 10	うしつ done 火々 ナー	z					delete	<u>csv.gz</u> 49 Byte
29480	dr1	catalc job 2016-04- 08	亦全了_ ^{done}	08 07:13:41	08 07:13:41	СЦ 00:00:00	RA and DEC getting all object		delete	<u>csv.gz</u> 688 Bytes
29479	dr1	catalog- job 2016-04-	done	2016-04- 08	2016-04- 08	00:00:00	Simple area search based on the range of RA and DEC getting all object		delete	<u>csv.gz</u> 688



this page will be reloaed in 30 seconds.

123	<u>2 3 4 5 Next) Last // </u>									
id	release	name	status	created	started	duration	sql	error		download
29493	dr1	catalog- job 2016-04- 10	done	2016-04- 10 13:57:37	2016-04- 10 13:57:37	00:00:03	<pre>SELECT phot.id, phot.ra2000, phot.decl2000,</pre>		delete	<u>csv.gz</u> 2.74 KB
29492	dr1	catalog- job 2016-04- 10	done	2016-1- 10 13:57:20	2016-04- 10 13:57:21	00:00:00	This is an example for selecting QSO candidates at $z\sim4.5$		delete	<u>csv.gz</u> 1.18 KB
29491	dr1	catalog- job 2016-04- 10	done	2016-04- 10 13:56:50	1016-04- 10 13156:50	00:00:00	 put your SQL here		delete	<u>csv.gz</u> 49 Bytes
29490	dr1	catalog job 2016-04 10	dor	nelī	なる	とd	ownloadリンクが	見れ	る	<u>csv.gz</u> 49 Bytes
29480	dr1	catalog- job 2016-04- 08	done	2016-04- 08 07:13:41	2016-04- 08 07:13:41	00:00:00	Simple area search based on the range of RA and DEC getting all object //		delete	<u>csv.gz</u> 688 Bytes
29479	dr1	catalog- job 2016-04-	done	2016-04- 08	2016-04- 08	00:00:00	Simple area search based on the range of RA and DEC getting all object		delete	<u>csv.gz</u> 688

ータベースへのアクセス方法

• SQL generatorを使う

• <u>https://hscdata.mtk.nao.ac.jp/datasearch/photoobj_searches/new</u>

コマンドラインインターフェース

2. Shell

% python hscSspQuery.py -r dr_early -u koikem <(echo "select now()")</pre>

コマンドラインインターフェース

	2. Shell	
<pre>% python hscSspQuery.py -r dr_early password? # name,# catalog-job 2016-03-07 # SQL,"# select now() # " #</pre>	-u koikem <(echo '	"select now()")
<pre># now 2016-03-07 10:29:22.800271+09:00 %</pre>		[michitaro@wlan-65-196:~]

hscMap





https://hscdata.mtk.nao.ac.jp/hsc_ssp/dr1/hscMap/help.html

検索結果を画像上で確認

• https://hscdata.mtk.nao.ac.jp/hsc_ssp/dr1/hscMap/

- カタログのオーバープロット
 - CASの結果(csv, csv.gzをプロット)
 - テーブル表示
 - xyプロット
 - viewerから直にSQLを投げる
 - CSVファイルを手で作る



• ブックマーク



• 画像取得

• stack画像, stack前ccd別の画像

画像切り出し

• 古いブラウザでは動かない or 設定が必要

- 共同利用計算機のFirefoxでも設定が必要
- <u>http://d.hatena.ne.jp/nakamura001/20111119/1321712487</u>

画像ファイル切り出し

https://hscdata.mtk.nao.ac.jp:4443/das_quarry/

	SSP CAS -hscMap- × HSC S	SSP Data Release 🛛 🛪	DAS Search Template (DR 1)	× DAS Quarry	×	SSP CAS -hscMap-	ж	datasearch	×	+	
•	https://hscdata.mtk.nao.ac.jp:4443/das_quarry/	ī.		C	Q, Sea	arch		合自 🛡 🖡 🏦	- C	0	≡

画像の矩形切り出し

DAS Quarry

This is a quarry (not query) where you can take a FITS image cut out from large coadd images stored in DAS.

There are two ways to specify a rectangular region you want:

- · Specify two diagonal corners
- Specify center & size

Or you can upload a list of coordinates to get them all:

Upload a list of coordinates

Two diagonal corners

Quarry a rectangle that is defined by two diagonal corners: (ra1, dec1) and (ra2, dec2).



• Webフォームを埋める

• 座標のリストをテキストで渡す



https://hscdata.mtk.nao.ac.jp:4443/das_console/dr1/

 $\bullet \bullet \bullet \bullet < > \square$

https://hscdata.mtk.nao.ac.jp:4443/das_console/dr1/

0 0 0 +

Usage

0

DAS Search Template (DR 1)

Region, Date, &c.	field map
Begion > Time: from 2014-01-01 through 2015-01-01	erase
Filters: @HSC-G @HSC-R @HSC-Z @HSC-Y @NB0921	erase
Date \rightarrow	
「「「「」」 (原糸余件を入力)	
Tract →	
New block	
File types	
2. 収行9るノアイルの性親を迭折	
Images	
	N I
CCO単体の凹縁、SIACK済みの凹塚など	
V 🗹 🦛 coadds	
Reruns	
a 🗹 🎍 Release S15B	
UDEEP (s15b_udeep)	
DEEP (s15b_deep)	
Search	

3. submit

	https://hscdata.mtk.nao.ac.jp:4443/das_console/dr1/	٢	000.				
Reruns							
UDEEP (s15b_udeep) DEEP (s15b_deep) WIDE (s15b_wide)							
Search							
Following files found: Download (tar) (Estimated size (uncompressed): 8.6 GB) [Type: _tar l _ tar.gz l _ tar.xz] filter by checkmarks Frames 4. 結果一覧を確認 Show _25 _3 entries							
visit ra de	date filter	exptime seeing	ellipticity transparency				
340 10h00m50.77s 02d12m	8.4s 2014-03-25 HSC-Y 30.335000	30 1.41	0.0301755 0				
Showing 1 to 1 of 1 entries			Previous 1 Next				
Download all: Download (tar) (Estimated size (uncompressed): 8.6 GB)							
[Type: @tar _tar.gz _tar.xz] 5. 公士 年	をtarなどでタ	ウンロード					

DAS (Data Archive Service)

	Shttps://hscdata.mtk.nao.ac.jp:4443/das_console/dr1/	C		0 0 0.					
Reruns									
 ✓ W Release S15B ✓ UDEEP (s15b_udeep) ✓ DEEP (s15b_deep) ✓ WIDE (s15b_wide) 									
Search									
Following files found: Download (tar) (Estimated size (uncompressed): 8.6 GB) [Type: tar I tar.gz I tar.xz]									
Frames									
Show 25 entries			Searc	:h:					
visit ra de	c date filter	exptime seeing	ellipticity	transparency					
2 340 10h00m50.77s 02d12m	18.4s 2014-03-25 HSC-Y 3 10:27:30.335000	0 1.41	0.0301755 0						
0									
Showing 1 to 1 of 1 entries				Previous 1 Next					
Download all: Download (tar) (Estimated size (uncompressed): 8.6 GB) [Type: tar I tar.gz I tar.xz]									
Thiter by checkmarks									
[lype: @tar Otar.gz Otar.xz]									
Download all: Download (tar) (Estimated size (uncomp	ressed): 8.6 GB)								

まとめ

- SSPのデータには次の3つからアクセスできる
 - Catalog Archive Service (CAS)
 - hscMap
 - Data Archive Service (DAS)
- collaborator向けのSSPのホームページにリンクあり
 - https://hscdata.mtk.nao.ac.jp/hsc_ssp/