

VESPA: datalink usage

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eurPLANET



IVOA 2019, Paris

13/5/2018

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VESPA Query Interface

voparis-europlanet-dev.obspm.fr/planetary/data/display/?&f-time_interval_type_op=betwe

Rechercher

VESPA
Virtual European Solar and Planetary Access

Form Query
EPN-TAP Services Custom Service

Main Parameters

Target Name

Target Class

Dataproduct Type

Instrument Host Name

Instrument Name
=

Processing level

Time

Submit Reset

Results in service hst_planeto

hst_planeto - Planetary data from the Hubble Space Telescope
HST observations of planets, dwarf planets, and satellites, extracted from the CADC database catalogue (regularly updated). Data are linked to the CADC repository, with file names common to all HST archives. Both calibrated and derived products are included. The main target is identified. Physical ephemeris and thumbnails are provided when available. Files and previews are not accessible during the proprietary period.

Credits:
Creators: Stéphane Erard
Contributors: PADC, CADC
Publisher: Paris Astronomical Data Centre - LESIA

Show entries

Column visibility Show all Hide all
Select All in current page Reset Selection

granule_uid	dataproduct_type	target_name	time_min (d)	access_url	datalink_url
idwc43qvq-PRODUCT	image	Pluto	2019-05-03T00:11:42.737	http://www.cadc-ccda...	http://voparis-tap-p..
idwc43qvq-PRODUCT	image	Pluto	2019-05-03T00:06:49.743	http://www.cadc-ccda...	http://voparis-tap-p..
idwc43qvq-CALIBRATED	image	Pluto	2019-05-03T00:06:49.743	http://www.cadc-ccda...	http://voparis-tap-p..
idwc43qtq-PRODUCT	image	Pluto	2019-05-03T00:02:29.743	http://www.cadc-ccda...	http://voparis-tap-p..
idwc43qtq-CALIBRATED	image	Pluto	2019-05-03T00:02:29.743	http://www.cadc-ccda...	http://voparis-tap-p..

Plotting tools

- TOPCAT
- Aladin
- SPLAT
- CASSIS
- 3DView

Example queries


Saturn in March 2012

Help

Help

Browser tabs: Proust La Recherch, VESPA Query, InterOpMay2019, USA 4th Planetary, Château de

Search bar: Rechercher



de

Database catalogue (regularly updated). Data are linked to the derived products are included. The main target is identified. s are not accessible during the proprietary period.

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Saturn in March 2012

Help


Help

(d)	access_url	datalink_url
3T00:11:42.737	http://www.cadc-ccda...	http://voparis-tap-p..
3T00:06:49.743	http://www.cadc-ccda...	http://voparis-tap-p..
3T00:06:49.743	http://www.cadc-ccda...	http://voparis-tap-p..
3T00:02:29.743	http://www.cadc-ccda...	http://voparis-tap-p..
3T00:02:29.743	http://www.cadc-ccda...	http://voparis-tap-p..

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Search: Proust La Recherch... VESPA Query InterOpMay2019 < USA 4th Planetary > Château de

Rechercher



Plotting tools

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Example queries

Saturn in March 2012

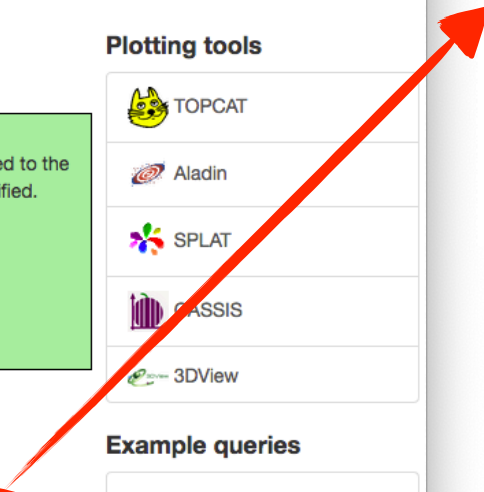
Help

Help

(d)	access_url	datalink_url
3T00:11:42.737	http://www.cadc-ccda...	http://voparis-tap-p..
3T00:06:49.743	http://www.cadc-ccda...	http://voparis-tap-p..
3T00:06:49.743	http://www.cadc-ccda...	http://voparis-tap-p..
3T00:02:29.743	http://www.cadc-ccda...	http://voparis-tap-p..
3T00:02:29.743	http://www.cadc-ccda...	http://voparis-tap-p..

Table links


Where?	Description	What?
Link	Miriade physical ephemeris, html	#auxiliary satellite/Europa/2458610.59394
Link	Miriade physical ephemeris, VOTable	#auxiliary satellite/Europa/2458610.59394
Link	Miriade physical ephemeris, simulation image	#auxiliary satellite/Europa/2458610.59394



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Rechercher



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3T00:06:49.743	http://www.cadc-ccda...	http://voparis-tap-p..
3T00:02:29.743	http://www.cadc-ccda...	http://voparis-tap-p..
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Link	Miriade physical ephemeris, simulation image	#auxiliary satellite/Europa/2458610.59394

Miriade - Physical ephemeris

Provided by IMCCE/OBSPM/

Asteroid (134340) Pluto

Physical model EPROC 1


DateTime	SEPLong	SEPLat	SSPLong	SSPLat	NP	dPole	Mv	PhaseAngle	RApp	Dg	Dh	PAQ
	deg	deg	deg	deg	deg	arcsec	-	deg	arcsec	AU	AU	deg
2019-05-03T00:06:49.535	15.20	-54.29	13.18	-53.20	32.04	-0.03	14.72	1.614	0.492620E-01	0.334469E+02	0.337914E+02	260.53

- Planetary Theory: INPOP13C
 - Reference frame: Apparent of the date (true equator, equinox of the date)
 - Frame center: Spacecraft

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Search: Proust La Recher... VESPA Query InterOpMay2019 < USA 4th Planetary > » Château de

Rechercher



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Example queries

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(d)	access_url	datalink_url
3T00:11:42.737	http://www.cadc-ccda...	http://voparis-tap-p..
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3T00:02:29.743	http://www.cadc-ccda...	http://voparis-tap-p..
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Link	Miriade physical ephemeris, VOTable	#auxiliary satellite/Europa/2458610.59394
Link	Miriade physical ephemeris, simulation image	#auxiliary satellite/Europa/2458610.59394

Miriade - Physical ephemeris

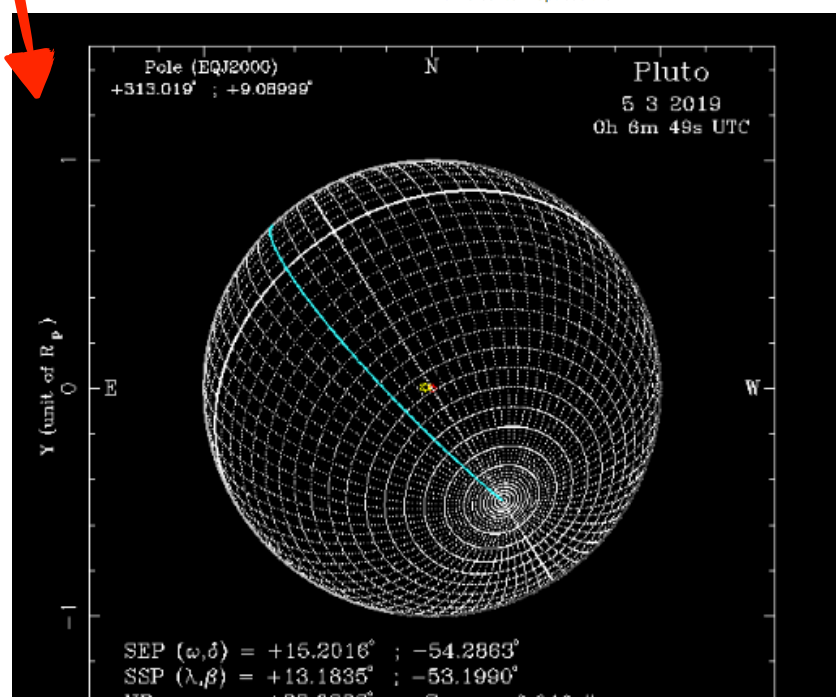
Provided by IMCCE/OBSPM/

Asteroid (134340) Pluto

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DateTime	SEPLong	SEPLat	SSPLong	SSPLat	NP	dPole	Mv	PhaseAngle	RApp	Dg	Dh	PAQ
	deg	deg	deg	deg	deg	arcsec	-	deg	arcsec	AU	AU	deg
2019-05-03T00:06:49.535	15.20	-54.29	13.18	-53.20	32.04	-0.03	14.72	1.614	0.492620E-01	0.334469E+02	0.337914E+02	260.53

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VESPA Query Interface

voparis-europlanet-dev.obspm.fr/planetary/data/display/?f-time_interval_type_op=betwee

Rechercher

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VESPA
Virtual European Solar and Planetary Access

Form Query

EPN-TAP Services Custom Service

Back To Services Results
Results in service basecom

basecom
No resource description provided

Show 25 entries

Column visibility Show all Hide all

Select All in current page Reset Selection

granule_uid	dataproduct_type	target_name	time_min (d)	access_url	datalink_url
st_000019_fits7604	spectrum	109P	1992-10-20T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp...
st_000029_fits7611	spectrum	109P	1992-10-23T13:11:59.999	http://voparis-srv.o...	http://voparis-cdpp...
st_000009_fits7596	spectrum	109P	1992-10-17T12:43:11.999	http://voparis-srv.o...	http://voparis-cdpp...
st_000018_fits7603	spectrum	109P	1992-10-20T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp...
st_000023_fits7607	spectrum	109P	1992-10-21T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp...
st_000027_fits7610	spectrum	109P	1992-10-22T13:11:59.999	http://voparis-srv.o...	http://voparis-cdpp...
st_000003_fits7592	spectrum	109P	1992-10-15T12:28:48.000	http://voparis-srv.o...	http://voparis-cdpp...

www.europlanet-vespa.eu

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Example queries

Saturn in March 2012


Help

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Plotting tools

- TOPCAT
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- CASSIS
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n (d)	access_url	datalink_url
20T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp...
23T13:11:59.999	http://voparis-srv.o...	http://voparis-cdpp....
17T12:43:11.999	http://voparis-srv.o...	http://voparis-cdpp....
20T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp....
21T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp....
22T13:11:59.999	http://voparis-srv.o...	http://voparis-cdpp....
15T12:28:48.000	http://voparis-srv.o...	http://voparis-cdpp....

Example queries

Saturn in March 2012


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Plotting tools

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n (d)	access_url	datalink_url
20T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp...
23T13:11:59.999	http://voparis-srv.o...	http://voparis-cdpp....
17T12:43:11.999	http://voparis-srv.o...	http://voparis-cdpp....
20T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp....
21T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp....
22T13:11:59.999	http://voparis-srv.o...	http://voparis-cdpp....
15T12:28:48.000	http://voparis-srv.o...	http://voparis-cdpp....

Example queries

Saturn in March 2012

Help

Help

Table links

Where?

Description

What?

[Link](#)

Miriade positional ephemeris, html

#auxiliary
comet\$109P\$2448916.04

[Link](#)


Miriade positional ephemeris, VOTable

#auxiliary
comet\$109P\$2448916.04

ace

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Plotting tools

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Example queries

n (d)	access_url	datalink_url
20T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp...
23T13:11:59.999	http://voparis-srv.o...	http://voparis-cdpp....
17T12:43:11.999	http://voparis-srv.o...	http://voparis-cdpp....
20T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp....
21T12:57:36.000	http://voparis-srv.o...	http://voparis-cdpp....
22T13:11:59.999	http://voparis-srv.o...	http://voparis-cdpp....
15T12:28:48.000	http://voparis-srv.o...	http://voparis-cdpp....

Help

Help

Table links

Where?	Description	What?
Link	Miriade positional ephemeris, html	#auxiliary comet\$109P\$2448916.04
Link	Miriade positional ephemeris, VOTable	#auxiliary comet\$109P\$2448916.04

Miriade - Positional ephemeris

Provided by IMCCE

Comet 109P

Target	Date	RA	DEC	Distance	Mv	Phase	Elongation	dRAcosDEC	dDEC
		"h:m:s"	"d:m:s"	au		deg	deg	arcsec/min	arcsec/n
109P	1992-10-20T12:57:36.00	15 00 54.62224	+54 23 59.5417	1.312654399	6.59	44.75	67.08	0.32849E+01	-0.16470

- Type of coordinates: Equatorial
- Reference frame: Astrometric J2000
- Frame center: Topocenter



- Form
- Query
- EPN-TAP Services
- Custom Service

Back To Services Results

Results in service SPICAM

Main Parameters

Target Name

Target Class

Dataproduct Type

Instrument Host Name

Instrument Name

Processing level

Time

Location

SPICAM - SPICAM Mars Atmospheric Vertical Distribution
 SPICAM/Mars-Express: Vertical profiles of temperature, CO2, O3, and aerosols density derived from UV occultations. Maattanen et al 2013 (2013lcar..223..892M)

Credits:
 Creators: Zi Yin, Alexandre Rostaing
 Contributors: Anni Määttänen, François Forget, Sébastien Lebonnois
 Publisher: LATMOS

Show 25 entries

Column visibility Show all Hide all

Select All in current page Reset Selection

granule_uid	dataproduct_type	target_name	time_min (d)	access_url	datalink_url
temp2888A1	profile	Mars	2006-04-11T06:09:11.232	http://vo.projet.lat...	http://vo.projet.lat...
temp2779A1	profile	Mars	2006-03-11T16:56:34.079	http://vo.projet.lat...	http://vo.projet.lat...
temp2775A1	profile	Mars	2006-03-10T15:12:18.719	http://vo.projet.lat...	http://vo.projet.lat...
temp2757A1	profile	Mars	2006-03-05T12:07:50.015	http://vo.projet.lat...	http://vo.projet.lat...
temp2748A1	profile	Mars	2006-03-03T03:58:56.352	http://vo.projet.lat...	http://vo.projet.lat...
temp2730A1	profile	Mars	2006-02-26T02:03:32.255	http://vo.projet.lat...	http://vo.projet.lat...

Submit Reset

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 - 3DView

Example queries

Saturn in March 2012






Help

Help



derived from UV occultations. Maattanen et al 2013

Plotting tools

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-  3DView

Example queries

Saturn in March 2012

	↕ access_url ↕	↕ datalink_url ↕
06:09:11.232	http://vo.projet.lat...	http://vo.projet.lat...
16:56:34.079	http://vo.projet.lat...	http://vo.projet.lat...
15:12:18.719	http://vo.projet.lat...	http://vo.projet.lat...
12:07:50.015	http://vo.projet.lat...	http://vo.projet.lat...
03:58:56.352	http://vo.projet.lat...	http://vo.projet.lat...
02:03:32.255	http://vo.projet.lat...	http://vo.projet.lat...

Help

Help

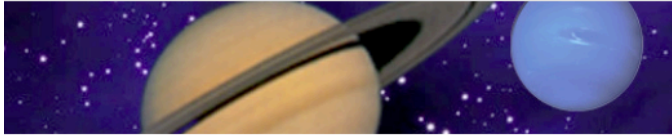


Table links

Where?	Description	What?
Link	SPICAM profile used to call this datalink service	http://dc.g-vo.org/datalink#other-temp2888A1
	An interactive service on this dataset.	#proc temp/2888A1/37.60/4.20/37.00/-2.70/46086.0/13

Plotting tools

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Example queries

Saturn in March 2012

Help

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erived from UV occultations. Maattanen et al 2013

	access_url	datalink_url
06:09:11.232	http://vo.projet.lat...	http://vo.projet.lat...
16:56:34.079	http://vo.projet.lat...	http://vo.projet.lat...
15:12:18.719	http://vo.projet.lat...	http://vo.projet.lat...
12:07:50.015	http://vo.projet.lat...	http://vo.projet.lat...
03:58:56.352	http://vo.projet.lat...	http://vo.projet.lat...
02:03:32.255	http://vo.projet.lat...	http://vo.projet.lat...

Broadcast dataset via SAMP

SODA data access

In the parameters below, leave everything you do not want constrained empty.

[Retrieve data](#)

MCD_Scenario A value between 1 and 32

This service allows to access the profile generated by the MCD with the same spatial and temporal coordinates as the SPICAM profile. However, the MCD generates profiles according to a dust scenario. For more information on the Mars Climate Database and its related simulations, go to <http://www-mars.lmd.jussieu.fr/>.



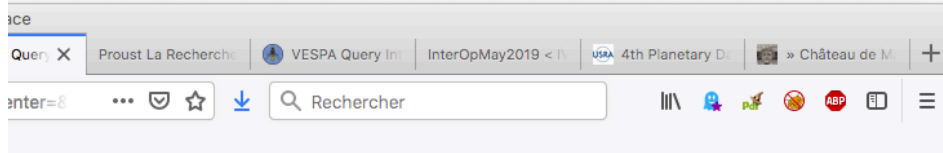


Table links

Where?	Description	What?
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03:58:56.352	http://vo.projet.lat...	http://vo.projet.lat...
02:03:32.255	http://vo.projet.lat...	http://vo.projet.lat...

Help

Help

Mars year: MY28
 Observation date: 2006-04-11
 Julian date: 2453836.75638
 Solar Longitude: 37.60 deg
 mars local time: 4.20 h
 longitude: 37.00 E
 latitude: -2.70 N
 Altitude1: Radial distance to planet center
 Altitude2: Altitude above areoid (Mars geoid)
 Altitude3: Altitude above local surface

Broadcast dataset via SAMP

SODA data access

In the parameters below, leave everything you do not want constrained empty.

[Retrieve data](#)

MCD_Scenario A value between 1 and 32

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ascii version of file

Alt1(km)	Alt2(km)	Alt3(km)	Temp_100k	Temp_175K	Temp_250K	error
3442.163	46.086	44.681	1.246E+02	1.246E+02	1.246E+02	2.955E+01
3446.275	50.198	48.792	2.055E+02	2.055E+02	2.055E+02	3.437E+01
3447.663	51.586	50.181	1.955E+02	1.955E+02	1.955E+02	3.307E+01
3449.713	53.636	52.231	1.955E+02	1.955E+02	1.955E+02	2.026E+01
3452.425	56.348	54.942	1.744E+02	1.744E+02	1.744E+02	1.629E+01
3454.475	58.398	56.992	1.585E+02	1.585E+02	1.585E+02	1.978E+01

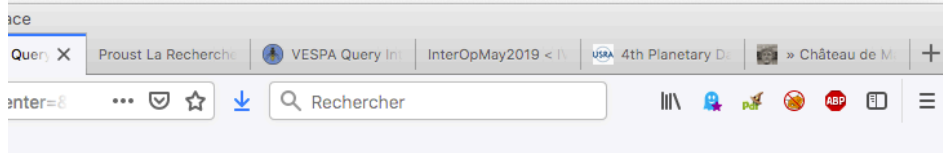


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Link	SPICAM profile used to call this datalink service	http://dc.g-vo.org/datalink#other temp2888A1
	An interactive service on this dataset.	#proc temp/2888A1/37.60/4.20/37.00/-2.70/46086.0/13

derived from UV occultations. Maattanen et al 2013

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16:56:34.079	http://vo.projet.lat...	http://vo.projet.lat...
15:12:18.719	http://vo.projet.lat...	http://vo.projet.lat...
12:07:50.015	http://vo.projet.lat...	http://vo.projet.lat...
03:58:56.352	http://vo.projet.lat...	http://vo.projet.lat...
02:03:32.255	http://vo.projet.lat...	http://vo.projet.lat...

Mars year: MY28
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ascii version of file

Alt1(km)	Alt2(km)	Alt3(km)	Temp_100k	Temp_175K	Temp_250K	error
3442.163	46.086	44.681	1.246E+02	1.246E+02	1.246E+02	2.955E+01
3446.275	50.198	48.792	2.055E+02	2.055E+02	2.055E+02	3.437E+01
3447.663	51.586	50.181	1.955E+02	1.955E+02	1.955E+02	3.307E+01
3449.713	53.636	52.231	1.955E+02	1.955E+02	1.955E+02	2.026E+01
3452.425	56.348	54.942	1.744E+02	1.744E+02	1.744E+02	1.629E+01
3454.475	58.398	56.992	1.585E+02	1.585E+02	1.585E+02	1.978E+01

Broadcast dataset via SAMP

SODA data access

In the parameters below, leave everything you do not want constrained empty.

MCD_Scenario A value between 1 and 32

10

Retrieve data

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Calls a web service with these parameters + scenario #



Query

Back To Services Results

Custom Service

Results in service vir

vir
No resource description provided

entries

I	dataproduct_type	target_name	time_min (d)	time_max (d)	thumbnail_url	datalink_url
RC	spectral_cube	Vesta	2012-07-20T12:00:00.000	2012-07-20T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2012-07-20T12:00:00.000	2012-07-20T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2012-07-19T12:00:00.000	2012-07-19T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2012-08-26T12:00:00.000	2012-08-26T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2012-08-26T12:00:00.000	2012-08-26T12:00:00.000		http://vo-node1.iaps...
ISC	spectral_cube	Vesta	2011-10-06T12:00:00.000	2011-10-06T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2011-10-11T12:00:00.000	2011-10-11T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2011-10-11T12:00:00.000	2011-10-11T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2011-10-10T12:00:00.000	2011-10-10T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2012-07-23T12:00:00.000	2012-07-23T12:00:00.000		http://vo-node1.iaps...

Plotting tools

- TOPCAT
- Aladin
- SPLAT
- CASSIS
- 3DView

Example queries

Help



Query **Back To Services Results**

Custom Service

Results in service vir

vir
No resource description provided

entries

	dataproduct_type	target_name	time_min (d)	time_max (d)	thumbnail_url	datalink_url
RC	spectral_cube	Vesta	2012-07-20T12:00:00.000	2012-07-20T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2012-07-20T12:00:00.000	2012-07-20T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2012-07-19T12:00:00.000	2012-07-19T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2012-08-26T12:00:00.000	2012-08-26T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2012-08-26T12:00:00.000	2012-08-26T12:00:00.000		http://vo-node1.iaps...
ISC	spectral_cube	Vesta	2011-10-06T12:00:00.000	2011-10-06T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2011-10-11T12:00:00.000	2011-10-11T12:00:00.000		http://vo-node1.iaps...
RC	spectral_cube	Vesta	2011-10-			
RC	spectral_cube	Vesta	2011-10-			
RC	spectral_cube	Vesta	2012-07-			

Plotting tools

- TOPCAT
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Example queries

Saturn in March 2012

Help

Help

Table links

Where?	Description	What?
Link	PDS3 Label file	#auxiliary sbn.psi.edu/archive/dawn/vir/version2/DWNVVI
Link	Calibrated Qube	#this sbn.psi.edu/archive/dawn/vir/version2/DWNVV

PDS3 file label

PDS3 data file

Datalink currently used in VESPA to provide links to:

- documents related to a granule (one or many)
- web services with parameter from granule line, e.g. ephemerides
- web services with parameter entered interactively, e.g. simulation related to an observation
- alternative versions of data files, e.g. ascii/csv (while VOTable/fits version is in `access_url`)
- additional data files, e.g. PDS label (required to open binary part in `access_url`) - *the alternative is to link a zip file under `access_url`, preventing on line access*
- In addition, need for averaging services (*not cutouts*), e.g. for spectra or profiles (average in time and space)

Potential issues :

- Documents or data files provided under datalink_url can't be downloaded together (from the same line in the table)
useful with descriptive documents (e.g. Spectral libraries)
- Documents or data files provided under datalink_url can't be downloaded together with the main file (access_url)
- e.g., required for detached PDS labels (e.g. VIR/Dawn service)
- Documents or data files provided under datalink_url can't be downloaded in group (by selecting several lines in the table)
- would help use alternative formats of files (e.g. SPICAM dlmeta) or simulations related to observations (SPICAM dlget)

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Some of these issues can be handled in the client

Some may require additional metadata (Datalink vocabulary)