

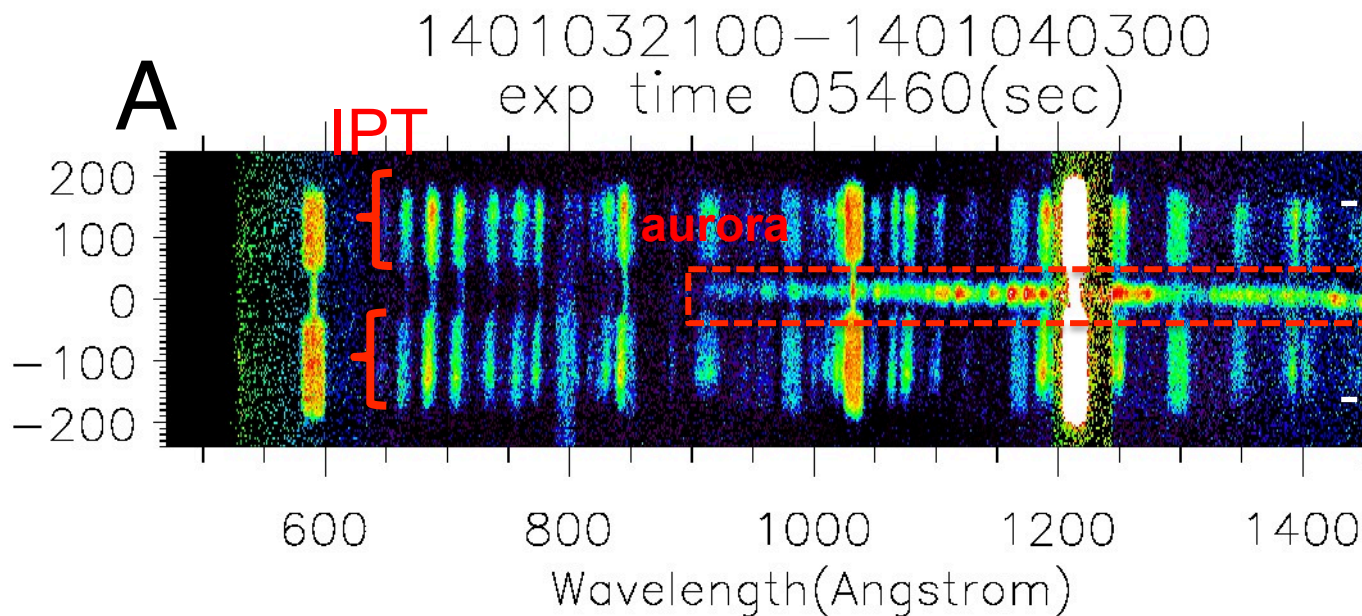
**VESPA metadataabase
for Hisaki/EXCEED
T KIMURA (RIKEN)**

EXCEED instrumentation

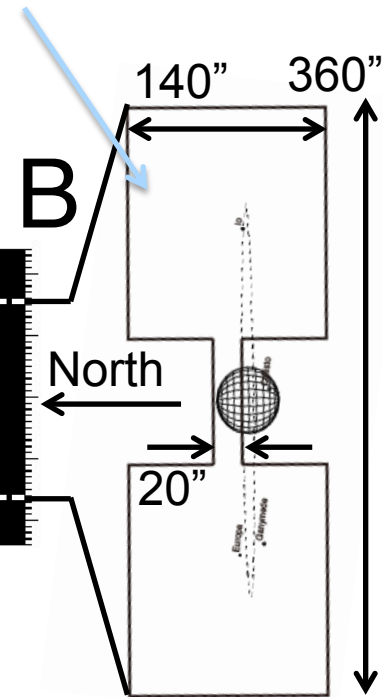
Wavelength range	60 – 145 nm
Spatial resolution (for Jupiter mode)	17"
Field of view	360"
Spectral resolution (FWHM)	0.4 – 1.0 nm (depends on slit)
Primary mirror	20 cm diameter, F/8

- Jupiter observation
 - dumbbell-shaped slit placed at northern pole

Angle of View(arcsec)



dumbbell-shaped slit



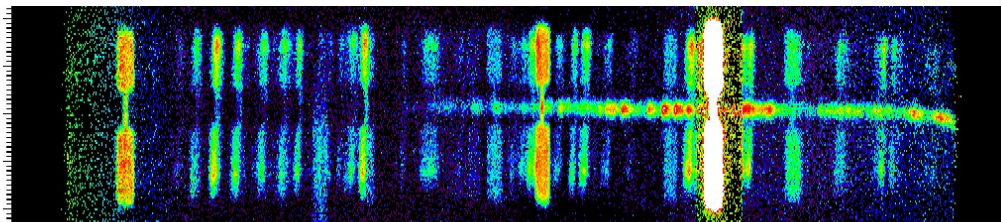
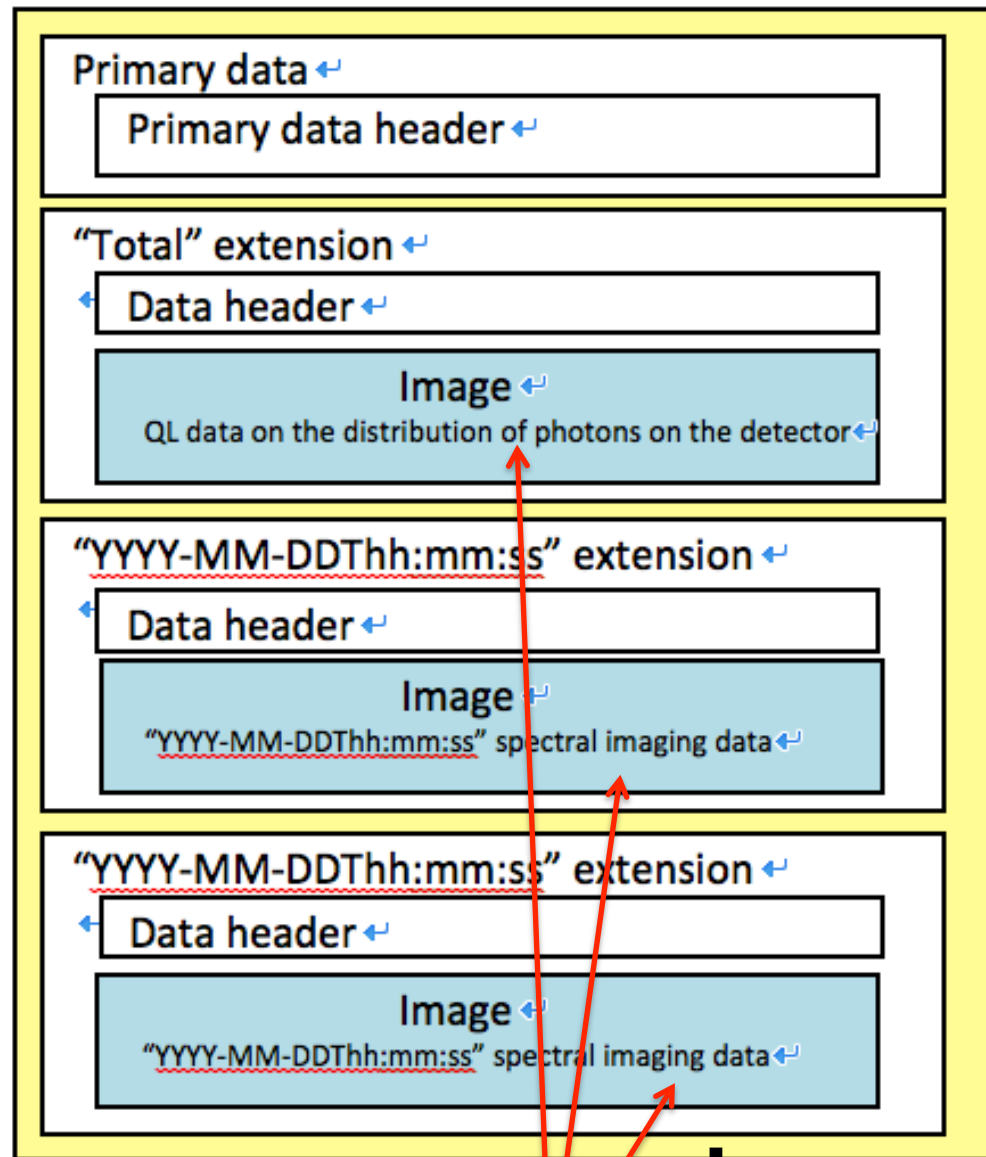
Data format (L2)

Quick look
1day exposure

1min exposure

1min exposure

⋮



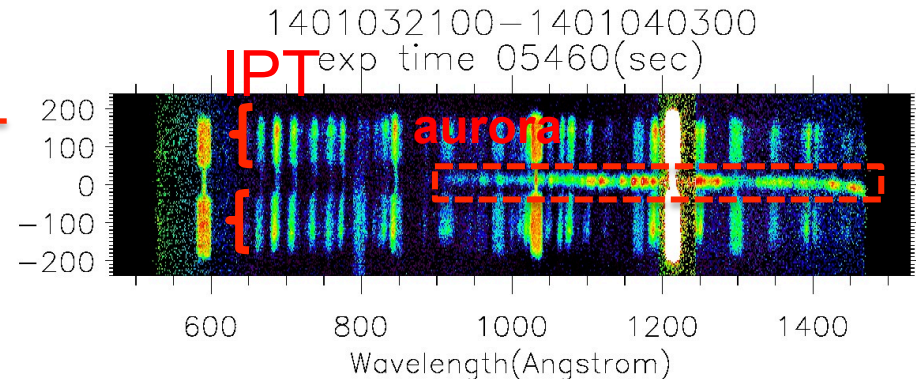
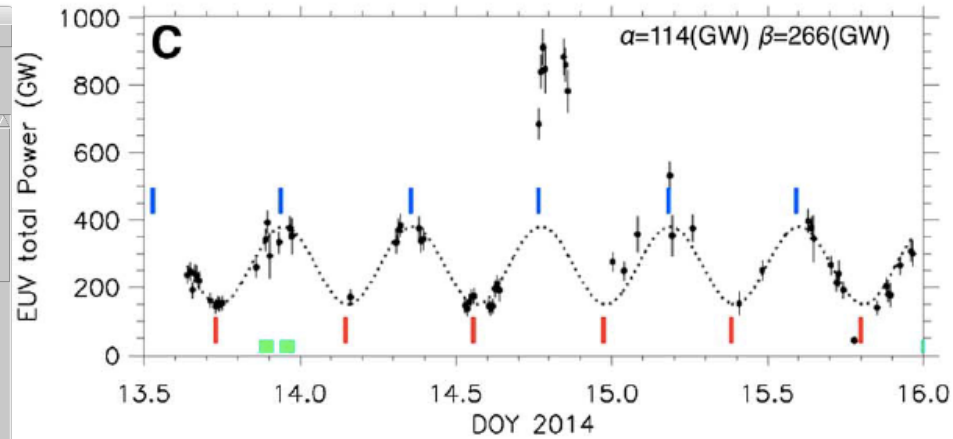
⋮

L3 data (archived in near future)

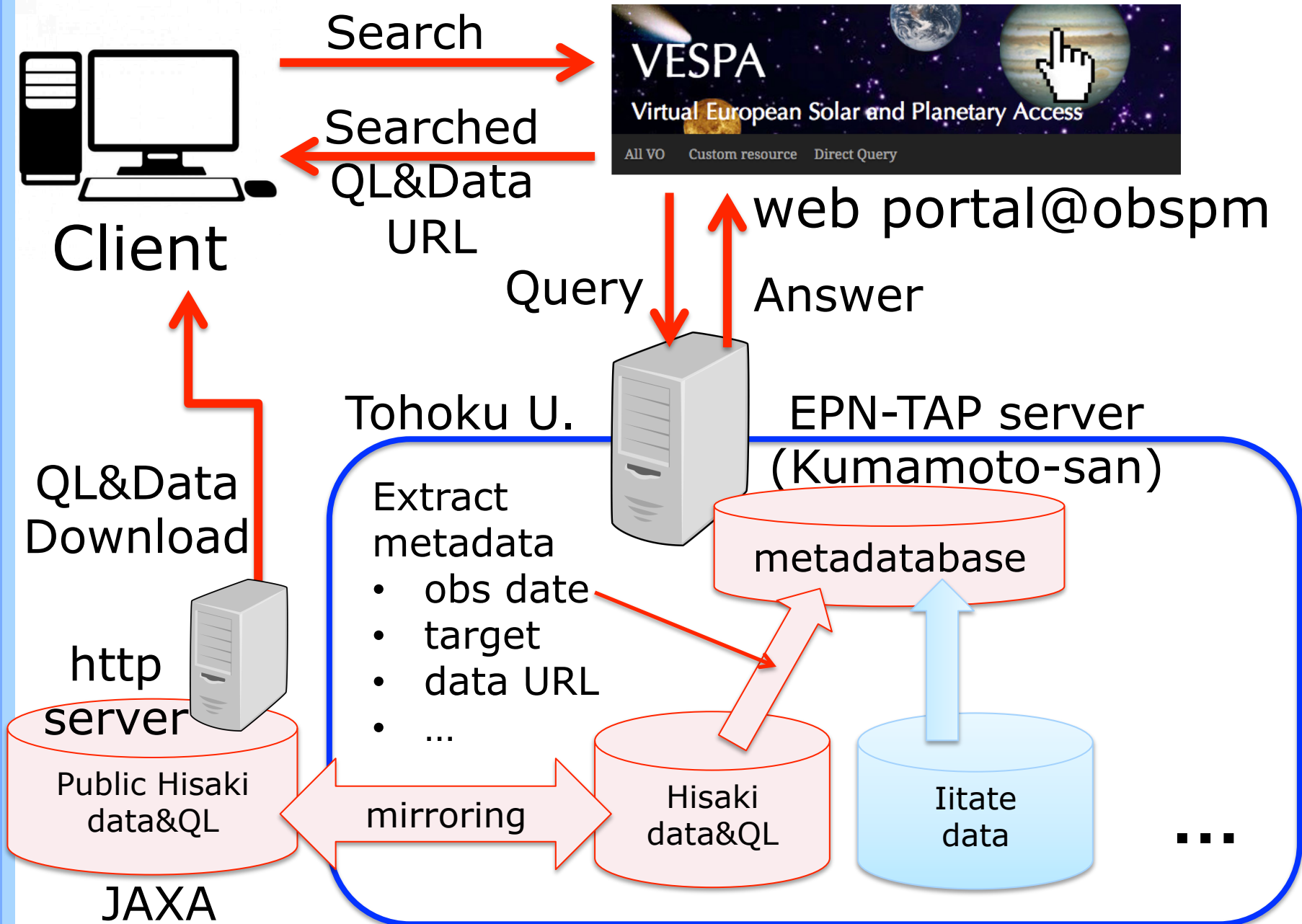
- Light curve of emission power reduced from imaging spectral data

fv: Binary Table of exeuv.jupiter.mod.03.20160521.lv.03.vr.00.fits[3] in /Volumes/sparaid/spa/data/fits/euv/3/010min/

Select	YEAR	DOY	TIME	CALFLG	SUBMOD	SUBST	BC1XAVE	BC1YAVE	BC2XAVE	BC2YAVE	LINT0630A	TPOW0630A	
Invert	11	11	1E	3A	11	11	1E	1E	1E	1E	1E	1E	
years	days	sec	counts										
Modify	Modify	Modify	Modify	Modify	Modify	Modify	Modify	Modify	Modify	Modify	Modify	Modify	
1	2016	142	1.818000E+03	dia		4	1	126.1	146.7	NULL	NULL	5.0	1.6
2	2016	142	4.878000E+03	dia		4	1	126.4	145.3	NULL	NULL	1.0	0.2
3	2016	142	8.478000E+03	dia		3	8	126.6	147.1	NULL	NULL	4.0	2.1
4	2016	142	1.123800E+04	dia		4	1	126.0	145.9	NULL	NULL	2.0	0.4
5	2016	142	1.483800E+04	dia		3	8	126.0	146.9	NULL	NULL	5.0	1.5
6	2016	142	1.543800E+04	dia		4	1	126.8	147.0	197.1	114.0	1.0	0.2
7	2016	142	1.759800E+04	dia		4	1	125.6	146.9	NULL	NULL	0.0	0.0
8	2016	142	2.089800E+04	dia		4	1	126.1	145.7	NULL	NULL	4.0	1.5
9	2016	142	2.197800E+04	dia		3	8	127.1	147.0	NULL	NULL	2.0	0.4
10	2016	142	2.257800E+04	dia		4	1	126.7	146.6	NULL	NULL	5.0	1.2
11	2016	142	2.395800E+04	dia		4	1	126.4	146.0	NULL	NULL	0.0	0.0
12	2016	142	2.725800E+04	dia		4	1	126.1	146.9	NULL	NULL	1.0	0.7
13	2016	142	2.833800E+04	dia		3	5	126.7	147.1	NULL	NULL	0.0	0.0
14	2016	142	2.941800E+04	dia		3	8	130.4	146.0	145.8	114.0	0.0	0.0
15	2016	142	3.031800E+04	dia		4	1	127.1	147.0	NULL	NULL	0.0	0.0
16	2016	142	3.373800E+04	dia		4	1	126.9	147.2	NULL	NULL	2.0	0.5
17	2016	142	3.433800E+04	dia		4	1	126.4	146.9	NULL	NULL	3.0	1.9
18	2016	142	3.499800E+04	dia		4	1	127.5	146.1	NULL	NULL	1.0	1.0
19	2016	142	3.613800E+04	dia		3	5	128.4	147.6	NULL	NULL	1.0	0.1
20	2016	142	3.673800E+04	dia		4	1	125.8	145.2	131.6	114.0	1.0	4.1



System overview (TBD)



http
server



Public Hisaki
data&QL

JAXA

Currently this
server is
mirrored one
at Tohoku U.
for test (by
Tsuchiya-san)

Index of /euv/I2

	<u>Name</u>	<u>Last modified</u>	<u>Size</u>
↳	Parent Directory	-	-
	exeuv.36opha_h-15v-70_s.mod.01.20141009.lv.02.vr.00.fits	17-May-2016 10:56	1.8G
	exeuv.3c273_h-15v-63_s.mod.01.20150905.lv.02.vr.00.fits	17-May-2016 11:03	2.5G
	exeuv.61vir_h-15v-60.mod.01.20140821.lv.02.vr.00.fits	17-May-2016 11:15	2.1G
	exeuv.61vir_h-15v-90.mod.01.20140819.lv.02.vr.00.fits	17-May-2016 11:17	715M
	exeuv.61vir_h-15v-90.mod.01.20140820.lv.02.vr.00.fits	17-May-2016 11:28	2.2G
	exeuv.alpari_h-15v-70_n.mod.01.20141008.lv.02.vr.00.fits	17-May-2016 11:37	2.4G
	exeuv.alptau_h-15v-60.mod.01.20140824.lv.02.vr.00.fits	17-May-2016 11:54	2.0G
	exeuv.alptau_h-15v-90.mod.01.20140812.lv.02.vr.00.fits	17-May-2016 12:04	2.2G
	exeuv.betagem_h-15v-60.mod.01.20140825.lv.02.vr.00.fits	17-May-2016 12:32	2.1G
	exeuv.brpsc_h-15v-90.mod.01.20140811.lv.02.vr.00.fits	17-May-2016 12:42	2.4G
	exeuv.catalina.mod.01.20151121.lv.02.vr.00.fits	17-May-2016 12:45	715M
	exeuv.catalina.mod.01.20151122.lv.02.vr.00.fits	17-May-2016 12:50	1.4G
	exeuv.catalina.mod.01.20151123.lv.02.vr.00.fits	17-May-2016 12:53	699M
	exeuv.catalina.mod.01.20151124.lv.02.vr.00.fits	17-May-2016 12:57	1.3G
	exeuv.catalina.mod.01.20151125.lv.02.vr.00.fits	17-May-2016 13:00	755M
	exeuv.catalina.mod.01.20151126.lv.02.vr.00.fits	17-May-2016 13:05	1.2G
	exeuv.catalina.mod.01.20151127.lv.02.vr.00.fits	17-May-2016 13:07	795M
	exeuv.catalina.mod.01.20151128.lv.02.vr.00.fits	17-May-2016 13:11	1.1G
	exeuv.catalina.mod.01.20151129.lv.02.vr.00.fits	17-May-2016 13:14	787M
	exeuv.catalina.mod.01.20151130.lv.02.vr.00.fits	17-May-2016 13:18	1.2G
	exeuv.catalina.mod.01.20151201.lv.02.vr.00.fits	17-May-2016 13:20	779M
	exeuv.catalina.mod.01.20151202.lv.02.vr.00.fits	17-May-2016 13:23	1.1G

Tohoku U.



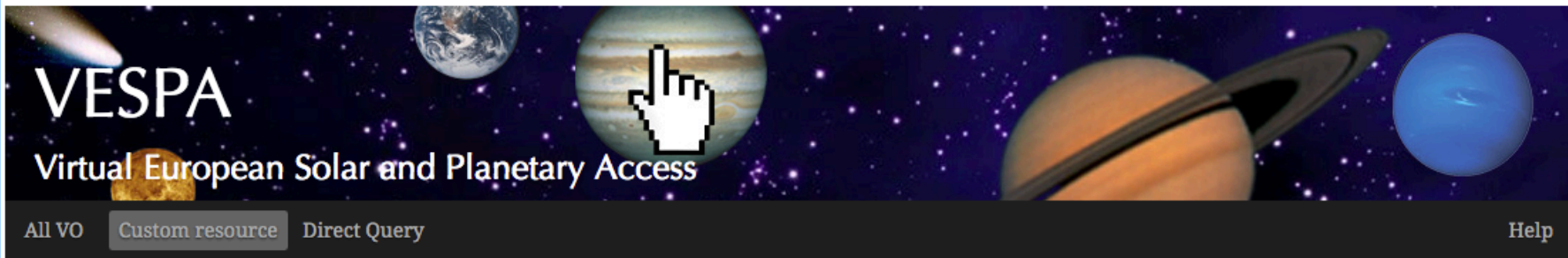
EPN-TAP server
(Kumamoto-san)

meta-database

Resource_type	Granule_uid	Granule_gid	Obs_id	Dataproduct_type	Target_name	Target_class	Time_min [d]	Time_max [d]	Time_sampling_step_min [s]	Time_samp
granule	exeuv.jupiter.mod.03.20140127.lv.02.vr.00	L2 dataset	exeuv.jupiter.mod.03.20140127.lv.02.vr.00	im	#Jupiter#	#planet#	2456685.0	2456685.0	60.0	60.0
granule	exeuv.jupiter.mod.03.20140110.lv.02.vr.00	L2 dataset	exeuv.jupiter.mod.03.20140110.lv.02.vr.00	im	#Jupiter#	#planet#	2456668.0	2456668.0	60.0	60.0
granule	exeuv.jupiter.mod.03.20140126.lv.02.vr.00	L2 dataset	exeuv.jupiter.mod.03.20140126.lv.02.vr.00	im	#Jupiter#	#planet#	2456684.0	2456684.0	60.0	60.0
granule	exeuv.jupiter.mod.03.20140130.lv.02.vr.00	L2 dataset	exeuv.jupiter.mod.03.20140130.lv.02.vr.00	im	#Jupiter#	#planet#	2456688.0	2456688.0	60.0	60.0
granule	exeuv.jupiter.mod.03.20140106.lv.02.vr.00	L2 dataset	exeuv.jupiter.mod.03.20140106.lv.02.vr.00	im	#Jupiter#	#planet#	2456664.0	2456664.0	60.0	60.0
granule	exeuv.jupiter.mod.03.20140120.lv.02.vr.00	L2 dataset	exeuv.jupiter.mod.03.20140120.lv.02.vr.00	im	#Jupiter#	#planet#	2456678.0	2456678.0	60.0	60.0
granule	exeuv.jupiter.mod.03.20140121.lv.02.vr.00	L2 dataset	exeuv.jupiter.mod.03.20140121.lv.02.vr.00	im	#Jupiter#	#planet#	2456679.0	2456679.0	60.0	60.0
granule	exeuv.jupiter.mod.03.20140116.lv.02.vr.00	L2 dataset	exeuv.jupiter.mod.03.20140116.lv.02.vr.00	im	#Jupiter#	#planet#	2456674.0	2456674.0	60.0	60.0

VESPA portal site

- <http://vespa.obspm.fr/planetary/data/epn/query/resource/>
- Input queries e.g.:
 - resource URL http://130.34.116.199/__system__/tap/run/tap
 - Schema name hisaki
 - Resource type granule



Query form: custom resource

Resource URL	<input type="text" value="http://130.34.116.199/__system__"/>	Schema name	<input type="text" value="hisaki"/>
Target name	<input type="text"/>	Target class	<ul style="list-style-type: none">asteroidcometdwarf_planetexoplanetinterplanetary_mediumplanet
Resource type	<input type="text" value="granule"/>		
Dataset ID	<input type="text"/>		
Time selection	<input type="text" value="Data range is included in"/>		<input type="text" value="the range between"/>
Time min	<input type="text"/>	Time max	<input type="text"/>
Dataproduct type	<ul style="list-style-type: none">imagespectrumdynamic_spectrum	Measurement type	<input type="text"/>

Plotting tools

- TOPCAT
- Aladin
- VOSpec
- SPLAT

Example queries

- [Saturn in March 2012](#)

VESPA

Virtual European Solar and Planetary Access

All VO Custom resource Direct Query

Help

Query results for specific schema : hisaki

granule

EPN Resources

Plotting tools

-  TOPCAT
-  Aladin
-  VOSpec
-  SPLAT

Example queries

- [Saturn in March 2012](#)

Custom resource for schema: hisaki

Results : 58

[DISPLAY RESULTS](#) [DISPLAY VOTABLE](#) [SAMP VOTABLE](#) [ADVANCED QUERY FORM](#)

► Description :

Credits:

Generated WHERE clause of ADQL statement:

```
SELECT * FROM ... WHERE resource_type = 'granule'
```

Results in service hisaki

Show entries Full Text

Search: Show / hide columns Select all Deselect all

datapoint_type	target_name	time_min (d)	time_max (d)	access_url
image	#Jupiter#	2014-01-01T12:00...	2014-01-01T12:00...	exeuv.jupiter.mod.03.20140101.lv.02.vr.00.fits
image	#Jupiter#	2014-01-01T12:00:00	2014-01-01T12:00:00	exeuv.jupiter.mod.03.20140101.lv.02.vr.00.jpg
image	#Jupiter#	2014-01-02T12:00...	2014-01-02T12:00...	exeuv.jupiter.mod.03.20140102.lv.02.vr.00.fits
image	#Jupiter#	2014-01-02T12:00:00	2014-01-02T12:00:00	exeuv.jupiter.mod.03.20140102.lv.02.vr.00.jpg
image	#Jupiter#	2014-01-03T12:00...	2014-01-03T12:00...	exeuv.jupiter.mod.03.20140103.lv.02.vr.00.fits
image	#Jupiter#	2014-01-03T12:00:00	2014-01-03T12:00:00	exeuv.jupiter.mod.03.20140103.lv.02.vr.00.jpg
image	#Jupiter#	2014-01-04T12:00...	2014-01-04T12:00...	exeuv.jupiter.mod.03.20140104.lv.02.vr.00.fits
image	#Jupiter#	2014-01-04T12:00:00	2014-01-04T12:00:00	exeuv.jupiter.mod.03.20140104.lv.02.vr.00.jpg
image	#Jupiter#	2014-01-05T12:00...	2014-01-05T12:00...	exeuv.jupiter.mod.03.20140105.lv.02.vr.00.fits
image	#Jupiter#	2014-01-05T12:00:00	2014-01-05T12:00:00	exeuv.jupiter.mod.03.20140105.lv.02.vr.00.jpg
image	#Jupiter#	2014-01-06T12:00...	2014-01-06T12:00...	exeuv.jupiter.mod.03.20140106.lv.02.vr.00.fits
image	#Jupiter#	2014-01-06T12:00:00	2014-01-06T12:00:00	exeuv.jupiter.mod.03.20140106.lv.02.vr.00.jpg
image	#Jupiter#	2014-01-07T12:00...	2014-01-07T12:00...	exeuv.jupiter.mod.03.20140107.lv.02.vr.00.fits
image	#Jupiter#	2014-01-07T12:00:00	2014-01-07T12:00:00	exeuv.jupiter.mod.03.20140107.lv.02.vr.00.jpg
image	#Jupiter#	2014-01-	2014-01-	exeuv.jupiter.mod.03.20140108.lv.02.vr.00.fits

Plotting tools

- TOPCAT
- Aladin
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Example queries

- [Saturn in March 2012](#)

SELECTED DATA

No data selected

PREVIEW