

REX Implémentation EPN-TAP avec Dachs

Institut d'Astrophysique Spatiale – Orsay

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Sommaire

- Contexte
- Recette
- Résultats
- Conclusion

Contexte IAS



UMR (CNRS and Paris-Sud University) - Orsay France

OSUPS = IAS + GEOPS = Science of Universe Observatory Paris-Sud

Staff : 140 members

IDOC staff : 9 permanent members + 6 contractants

Scientific Teams :

- Solar and Planetary systems
- Interstellar Matter
- Cosmology
- Stellar and Solar Physics
- Astrochemistry and Origins

Context :

- Space Mission
 - International Consortiums
 - « Astronomical » budget
 - Long terms engagements
 - Time constraints
- Paris – Saclay (P2IO, SPU)

IDOC Integrated Data and Operation Center

IDOC technical head: gilles.poulleau@ias.u-psud.fr

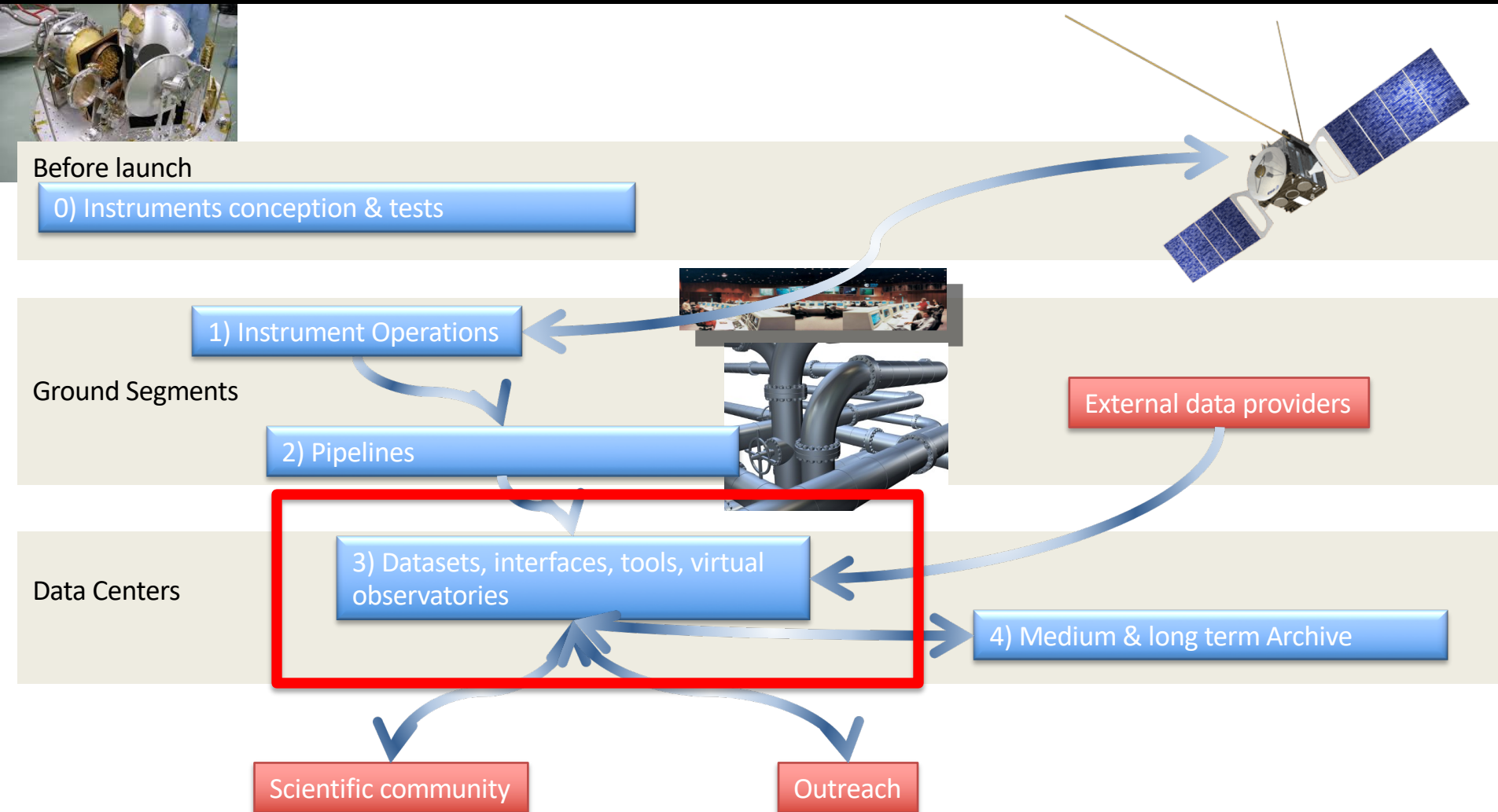
IDOC scientific head: marian.douspis@ias.u-psud.fr

<https://idoc.ias.u-psud.fr>

Partners :

- Others laboratories French or foreign
- Space agencies : CNES, ESA, NASA, JAXA, CSSAR, FKA,...
- Industry (IT or Space)
- Airbus, Leonardo-Finemeccanica,Thales-Alenia...

Contexte IDOC



PSUP

Planetary Surface Portal

Home | News | Project Description | MarsSi | Mars Visu

Welcome to the Planetary Surface Portal (PSUP)

This facility involves a data processing center coupled with planetary surface data dissemination center (mineralogical maps, geomorphologic maps, DTM...). Planetary Surface Portal is an initiative from OSUPS and OSUL. You can:

- Browse the catalog in the right window "datasets".
- Visualize in 2D or 3D the datasets with the module "Mars Visu" (🌍).
- Process DTM and other planetary datasets from the module "MarsSi" (🔧).
- Download the data and additional information from any modules (📄 Downloads).

The database will be updated regularly to include new observations, new redshift estimates and new relevant information. You are encouraged to Register to the RSS 📡 to be kept up to date on new releases.

datasets

- OMEGA data Cubes
- OMEGA mineral maps
- Catalogs

Omega Cube Query Form

Omega Cube Query Form

Date Between: 2001-01-01 00:00 | 2015-01-01 00:00

Date request : for a given time T0, define time between T0 - 10 min and T0 + 10 min

Solar Longitude: [] []

Longitude (0° to 360° East): [] []

Latitude (-90° to 90°): [] []

Orbit #: []

Cube #: []

Data quality: []

Search Reset

Planetary Surface Portal



Object name or coordinates

Catalogs

Background Layers

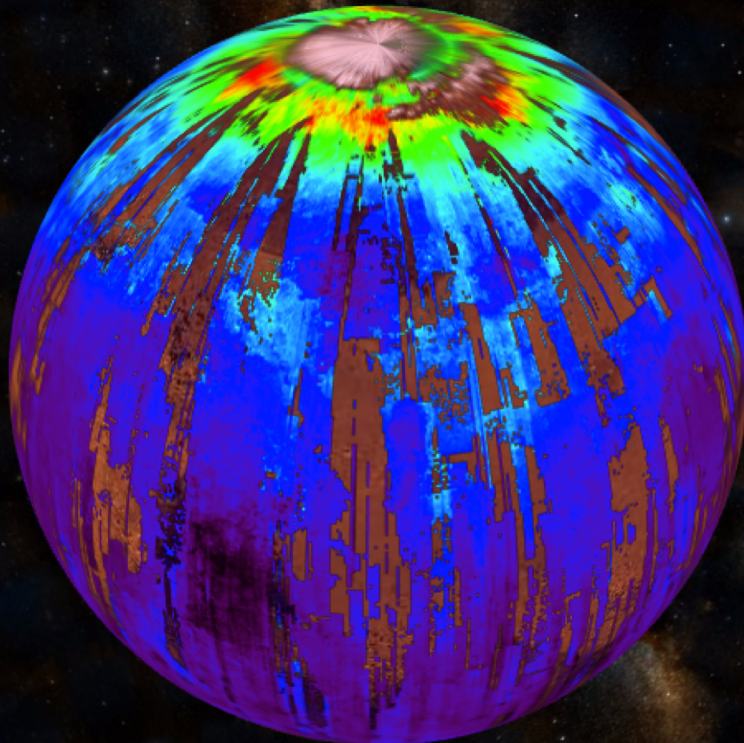
Mineral Layers

- OMEGA Olivine SP1
- OMEGA Olivine SP2
- OMEGA Olivine SP3
- OMEGA Ferric Fe3+
- OMEGA Ferric Nanophase
- OMEGA Pyroxene
- TES Dust Cover
- TES High-Calcium Pyroxene Abundance
- TES Plagioclase
- TES Low-Ca Pyroxene
- TES Olivine

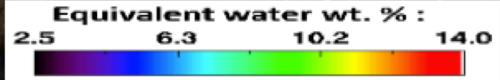
OMEGA Surface hydration
Opacity: 100%

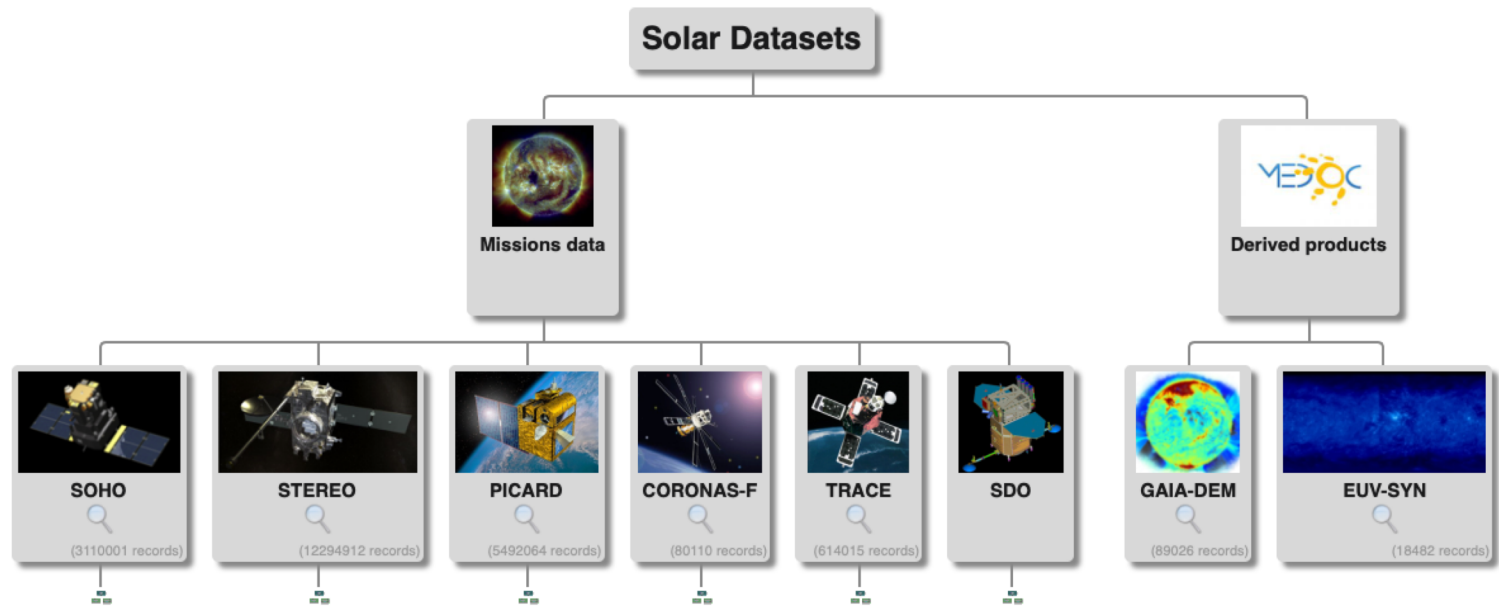
MarsSI Data

Other



Viking layer provided by Mars Dataset
Color background provided by Mars Dataset
Layer provided by IAS





Welcome to the GAIA-DEM database

User's Manual

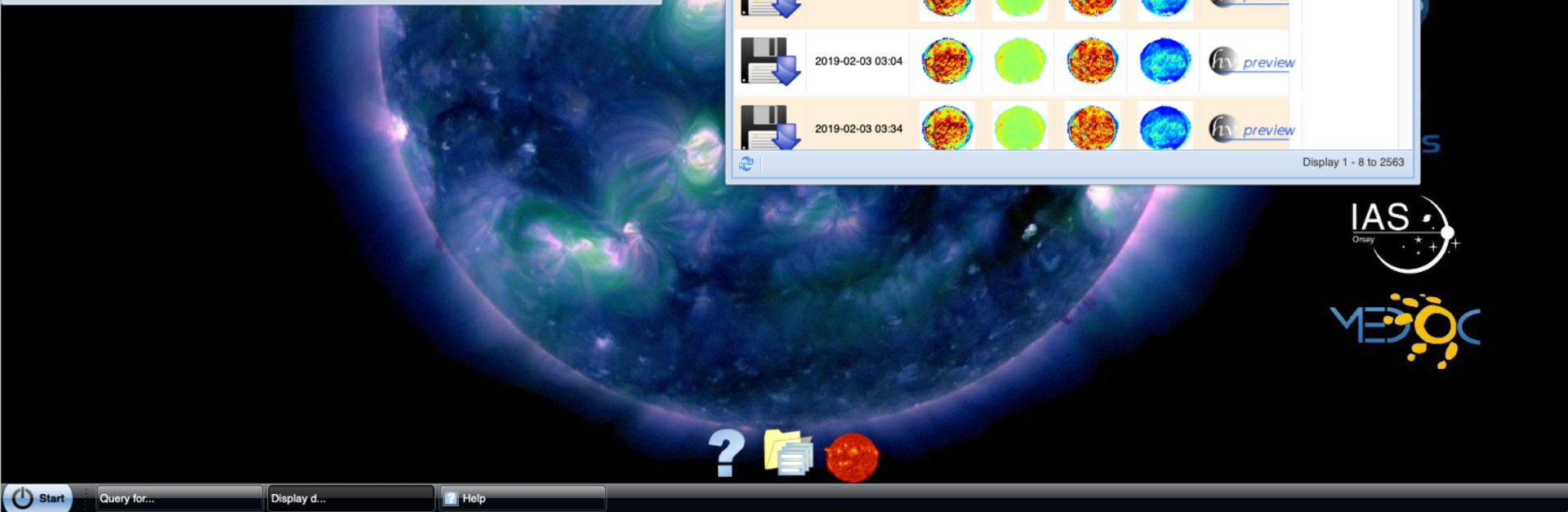
1 Overview

Welcome to the IAS web interface to the local AIA/SDO DEM maps.

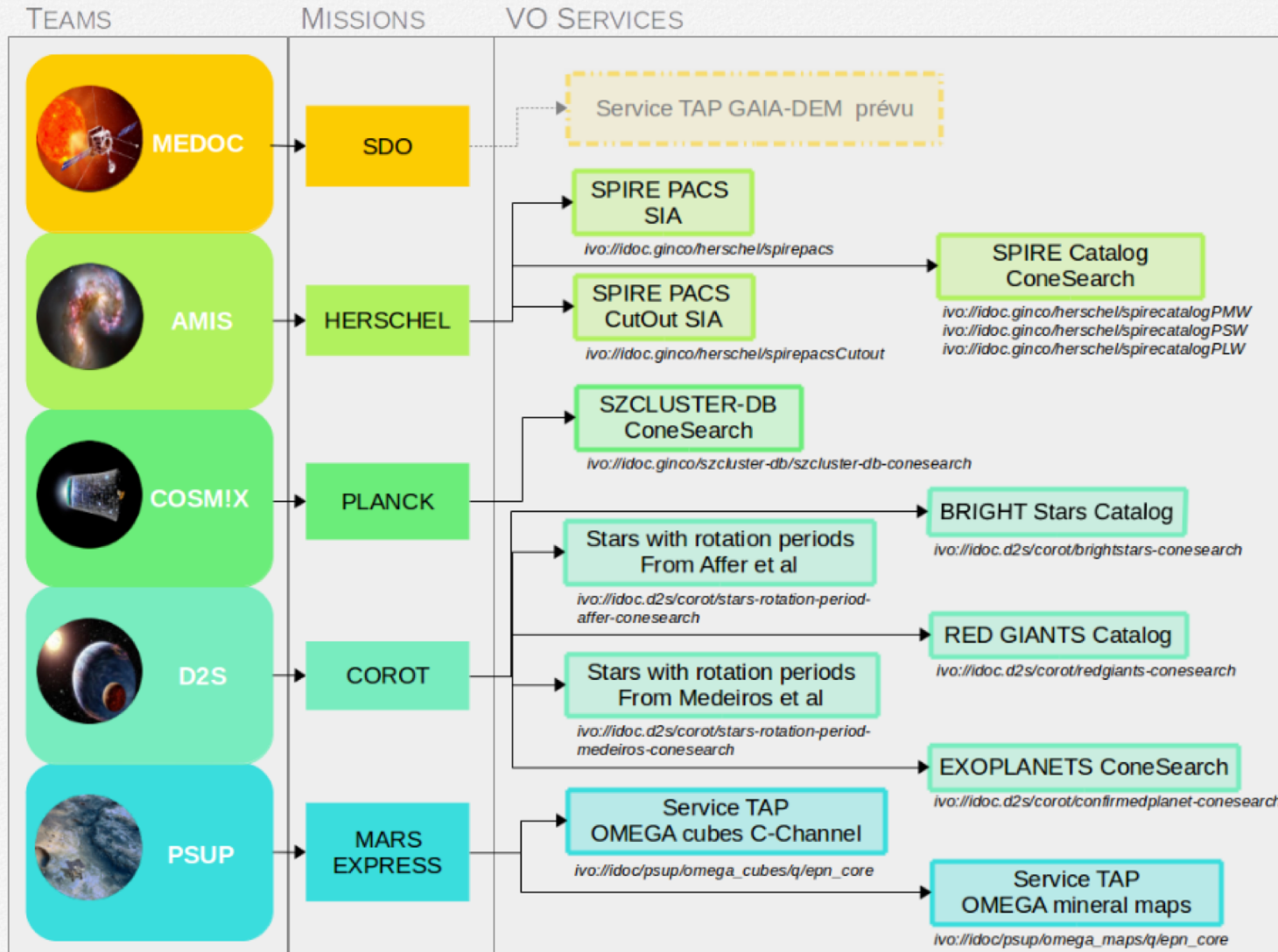
This archive is hosted by MEDOC and provides to the solar community Quick look AIA/SDO DEM maps at a 3 hours cadence. The corresponding FITS files can be downloaded starting from 2010/05/13.

1.1 Purpose

download	date_obs	temperature	EM	width	khi2	Heliviewer
	2019-02-03 00:04					
	2019-02-03 00:34					
	2019-02-03 01:04					
	2019-02-03 01:34					
	2019-02-03 02:04					
	2019-02-03 02:34					
	2019-02-03 03:04					
	2019-02-03 03:34					



IDOC VO registered services summary



DaCHS rappel

<https://dachs-doc.readthedocs.io>

GAVO DaCHS

Author: Markus Demleitner

Email: gavo@ari.uni-heidelberg.de

Date: 2019-03-04

The GAVO Data Center Helper Suite (DaCHS) is a publishing infrastructure for the Virtual Observatory, including a flexible component for ingesting and mapping data, integrated metadata handling with a publishing registry, and support for many VO protocols and standards.

Recette

Virtual box

/var/gavo/etc/defaultmeta.txt

/etc/gavo.rc

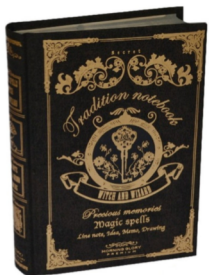
Base de données
postgres

Get_metadata.py

qr.d



```
sudo gavo val q.rd
sudo gavo imp q.rd
sudo gavo serve stop
sudo gavo serve start
dachs
```



<https://voparis-confluence.obspm.fr/display/VES/Setting+up+an+EPN-TAP+service>

<https://voparis-confluence.obspm.fr/display/VES/EPN-TAP+V2.0+parameters>

Recette EPN-TAP V2.0 parameters

Browser address bar: <https://voparis-confluence.obspm.fr/display/VES/EPN-TAP+V2.0+parameters>

Navigation tabs: VESPA Query Interface | GAIA-DEM : Gaussian AIA... | Semi-Hack-a-Thon5 < JO... | DaCHS Reference Docume... | EPN-TAP V2.0 parameters... +

Confluence navigation: Espaces | Créer | Rechercher | Se connecter | S'inscrire

+ See notes below the table.

Name, v2	Must be filled?	SQL type	Unit / Format / Range	Description	UCD
EPNCore mandatory parameters (Must be present, possibly empty)					Current value <i>current but dubious</i> <i>possible alternative</i>
granule_uid	Y	Text		Internal table row index Unique ID in data service. Can be alphanum.	meta.id meta.id;meta.data:
granule_gid	Y	Text		Common to granules of same type (e.g. same map projection, or geometry data products). Can be alphanum.	meta.id
obs_id	Y	Text		Associates granules derived from the same data (e.g. various representations / processing levels). Can be alphanum., may be the ID of original observation. Keep it simple in intricate situations.	meta.id;obs
dataprodct_type	Y	Text		Organization of the data product, from enumerated list	meta.code.class
target_name	(services with no	Text		Standard IAU name of target (from a list	meta.id;src

Recette

```
[dachsroot@idoc-dachs:/var/gavo/inputs$ ls
arihip  medoc  psup   __system  test
[dachsroot@idoc-dachs:/var/gavo/inputs$ cd psup
[dachsroot@idoc-dachs:/var/gavo/inputs/psup$ ls
omega_cubes  omega_maps
[dachsroot@idoc-dachs:/var/gavo/inputs/psup$ cd omega_maps/
[dachsroot@idoc-dachs:/var/gavo/inputs/psup/omega_maps$ ls
data  q.rd  res
[dachsroot@idoc-dachs:/var/gavo/inputs/psup/omega_maps$ cd res
[dachsroot@idoc-dachs:/var/gavo/inputs/psup/omega_maps/res$ ls
get_metadata_all.py  get_metadata_ok.py  get_metadata.py  get_metadata.pyc
[dachsroot@idoc-dachs:/var/gavo/inputs/psup/omega_maps/res$ cd ../data
[dachsroot@idoc-dachs:/var/gavo/inputs/psup/omega_maps/data$ ls
omega_tables.txt
[dachsroot@idoc-dachs:/var/gavo/inputs/psup/omega_maps/data$ cat omega_tables.txt
rasters
[dachsroot@idoc-dachs:/var/gavo/inputs/psup/omega_maps/data$ █
```

q.rd

```
<resource resdir="psup/omega_maps" schema="omega_maps">
  <meta name="title">Omega mineral maps - Mars Express</meta>
  <meta name="creationDate">2018-04-17T00:00:00Z</meta>
  <meta name="description" format="plain">
```

```
*** PSUP Omega Maps ***
```

PSUP Omega Mineral maps are OMEGA-based NIR albedo, Ferric BD530, Olivine SP1, SP2, SP3, Pyroxene and water BD maps.

OMEGA is the spectro-imaging instrument of the ESA Mars-Express mission, inserted on the martian orbit the 25th of December 2003.

The Observatories of Paris Sud (OSUPS) and Lyon (OSUL) have implemented a portal, called PSUP (Planetary Surface Portal), for providing users with efficient and easy access to data products dedica

```
*** Scientific interest ***
```

```
</meta>
<meta name="copyright">This research has been made using PSUP database at IDOC</meta>
<meta name="creator.name">IDOC: Integrated Data and Operating Center</meta>
<meta name="contact.name">François Poulet</meta>
<meta name="contact.email">idoc-psup@ias.u-psud.fr</meta>
<meta name="contact.address">Institut d'Astrophysique Spatiale - Campus Universitaire d'Orsay - France</meta>
<meta name="contributor.name">Hervé Ballans</meta>
<meta name="contributor.name">Karin Dassas</meta>
<meta name="contributor.name">Magali Mebsout</meta>

<meta name="subject">Mars</meta>

<meta name="referenceURL">http://psup.ias.u-psud.fr</meta>
<meta name="contentLevel">General</meta>
<meta name="contentLevel">University</meta>
<meta name="contentLevel">Research</meta>
<meta name="contentLevel">Amateur</meta>
```

```
<table id="epn_core" onDisk="True" adql="True" primary="granule_uid">
  <publish/>
  <mixin spatial_frame_type="body" optional_columns="access_url access_format access_estsize bib_reference file_name publisher access_estsize thumbnail_url">//epntap2#table-2_0</mixin>
  <meta name="description">Mars Express - Omega Mineral Maps</meta>
</table>
```

```
<data id="import" auto="true">
  <sources pattern="data/omega_tables.txt"/>
  <customGrammar module="res/get_metadata"/>
  <make table="epn_core">
    <rowmaker idmaps='*'*>
      <var key="dataproduct_type">'map'</var>
    </rowmaker>
  </make>
</data>
```

```
</resource>
```

q.Rd 2/2

```
<table id="epn_core" onDisk="True" adql="True" primary="granule_uid">
  <publish/>
  <mixin spatial_frame_type="body" optional_columns="access_url access_format access_estsize file_name publisher">//epntap2#table-2_0</mixin>
  <meta name="description">Mars Express - Omega Cubes</meta>
  <column name="orbit_number" type="smallint"
    tablehead="orbit_number"
    description="The martian orbit number."
    ucd="meta.id"
    verbLevel="1"
    required="True"/>
  <column name="cube_number" type="smallint"
    tablehead="cube_number"
    description="The cube number on the specified orbit_number, depends on pixel numbers before projection."
    ucd="meta.id"
    verbLevel="1"
    required="True"/>
  <column name="altitude_min" type="real"
    tablehead="altitude_min"
    description="The minimum altitude (in m) (MOLA ? ellipsoid as reference)."
    ucd="pos.bodyrc.alt;stat.min" unit="m"
    verbLevel="20"
    required="True"/>
  <column name="altitude_max" type="real"
    tablehead="altitude_max"
    description="The maximum altitude (in m) (MOLA ? ellipsoid as reference)."
    ucd="pos.bodyrc.alt;stat.max" unit="m"
    verbLevel="20"
    required="True"/>
```

Mars Omega Maps Get_metada.py 1/3

```

.....
try:
    con = psycopg2.connect(database=mdb, user=mdbuser, host=mdbhost, password=mdbpassword)
    cur = con.cursor()
    con.commit()
    sql_command = "SELECT * FROM {}.{} where raster_published = True;".format(
        dbschema, omega_table)
    # sql_command = "SELECT * FROM {}.{} ;".format(dbschema,omega_table)
    print 'Executing SQL command:'
    print sql_command
    cur.execute(sql_command)

    row = cur.fetchone()

    omega_md = list()
    while row is not None:
        md = dict()
        if omega_table == "rasters":
            md["granule_uid"] = row[1].replace(".fits", "")
            md["target_name"] = 'Mars'
            md["target_class"] = 'planet'
            md["product_type"] = 'ma'
            md["c1min"] = 0
            md["c1max"] = 360
            md["c2max"] = 90
            md["c2min"] = -90
            md["file_name"] = row[1]
            md["mapscale"] = row[7]
            md["mapres"] = row[6]
            md["lineprojoffset"] = row[8]
            md["complexeoffset"] = row[9]

```

Mars Omega Cube Get_metada.py 2/3

```

md["altitude_min"] = row[10]
md["altitude_max"] = row[19]
md["incidence_n_min"] = row[22]
md["incidence_n_max"] = row[23]
md["watericelin_min"] = row[24]
md["watericelin_max"] = row[25]
md["icecloud_index_min"] = row[26]
md["icecloud_index_max"] = row[27]
md["tau_min"] = row[30]
md["tau_max"] = row[31]
#### md2 for sav files
md_sav = copy.deepcopy(md)
md_sav['granule_uid'] = str(row[1]) + '_' + str(row[2]) + '_sav'
md_sav["file_name"] = str(row[3])
md_sav['access_format'] = 'application/octet-stream'
md_sav[
    'access_url'] = "http://psup.ias.u-psud.fr/sitools/datastorage/user/storage/omegacubes/cubes_L3/" + str(
    row[3])
md_sav['modification_date'] = row[28]
md_sav['creation_date'] = row[29]
#### md2 for netcdf files
md_nc = copy.deepcopy(md)
md_nc['granule_uid'] = str(row[1]) + '_' + str(row[2]) + '_nc'
md_nc["file_name"] = str(row[6])
md_nc['access_format'] = 'application/x-netcdf4'
md_nc[
    'access_url'] = "http://psup.ias.u-psud.fr/sitools/datastorage/user/storage/omegacubes/cubes_L3/" + str(
    row[6])
md_nc["modification_date"] = row[32]
md_nc["creation_date"] = row[33]
else:
    print("wrong table name", omega_table)

```

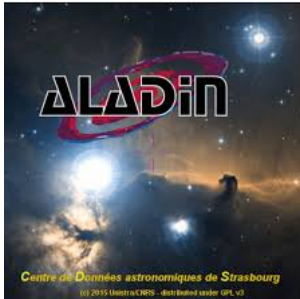

Gaia dem Get_metada.py 3/3

```

87     md['spatial_frame_type'] = 'cartesian'
88     if row[9] != None :
89         md['creation_date']=row[10]
90         md['sun_distance_min']=row[9]/ua
91         md['sun_distance_max']=row[9]/ua
92         timesun=row[9]/c
93         dt=TimeDelta(timesun,format='sec')
94         md['target_time_min']=(Time(row[0],scale='utc')-dt).jd      # target time = date_obs -
          DSUN_OBS/c
95         md['target_time_max']=(Time(row[0],scale='utc')-dt).jd      # target time = date_obs -
          DSUN_OBS/c
96     else:
97         print("dsun not filled in")
98         md['creation_date']=None
99         md['sun_distance_min']=None
100        md['sun_distance_max']=None
101        md['target_time_min']=None      # target time = date_obs - DSUN_OBS/c
102        md['target_time_max']= None      # target time = date_obs - DSUN_OBS/c
103        md_em=copy.deepcopy(md)
104        ##### specific data em
105        md_em["granule_uid"] = 'DEM-AIA-em_'+str(row[0])
106        md_em['access_url'] = construct_url(row[0],row[7],'fits','em')
107        md_em['file_name'] = row[7]+'em.fits'
108        md_em['thumbnail_url'] = construct_url(row[0],row[7],'thumb','em')
109        md_em['png_link'] = construct_url(row[0],row[7],'image','em')
110        md_em['granule_gid'] = 'em'
111        md_em['measurement_type'] = 'phys.emissMeasure'
112        ##### specific data temp
113        md_temp=copy.deepcopy(md)
114        md_temp["granule_uid"] = 'DEM-AIA-temp_'+str(row[0])
115        md_temp['access_url'] = construct_url(row[0],row[7],'fits','temp')
116        md_temp['file_name'] = row[7]+'temp.fits'
117        md_temp['thumbnail_url'] = construct_url(row[0],row[7],'thumb','temp')
118        md_temp['png_link'] = construct_url(row[0],row[7],'image','temp')
119        md_temp['granule_gid'] = 'temp'
120        md_temp['measurement_type'] = 'phys.temperature.electron'
121        ##### specific data width

```


Résultats



Tool for Operations on Catalogues And Tables

Does what you want with tables

Résultats TopCAT

Table Access Protocol (TAP) Query

Select Service Use Service Resume Job Running Jobs

Metadata

Find:

Name Descrip Or

IDOC TAP (9)

- gaia_dem (1)
 - gaia_dem.epn_core**
- omega_cubes (1)
 - omega_cubes.epn_core
- omega_maps (1)
 - omega_maps.epn_core
- tap_schema (6)

TOPCAT(1): Table Browser

Table Browser for 1: TAP_1_gaia_dem.epn_core

	granule_uid	granule_gid	obs_id
1	DEM-AIA-em_2012-09-03 06:05:05.625000	em	DEM-AIA_2012-09-03 06:05:05.625
2	DEM-AIA-temp_2012-09-03 06:05:05.625000	temp	DEM-AIA_2012-09-03 06:05:05.625
3	DEM-AIA-width_2012-09-03 06:05:05.625000	width	DEM-AIA_2012-09-03 06:05:05.625
4	DEM-AIA-chi2_2012-09-03 06:05:05.625000	chi2	DEM-AIA_2012-09-03 06:05:05.625
5	DEM-AIA-em_2012-10-03 12:05:01.872500	em	DEM-AIA_2012-10-03 12:05:01.872
6	DEM-AIA-temp_2012-10-03 12:05:01.872500	temp	DEM-AIA_2012-10-03 12:05:01.872
7	DEM-AIA-width_2012-10-03 12:05:01.872500	width	DEM-AIA_2012-10-03 12:05:01.872
8	DEM-AIA-chi2_2012-10-03 12:05:01.872500	chi2	DEM-AIA_2012-10-03 12:05:01.872
9	DEM-AIA-em_2012-09-03 12:05:05.625000	em	DEM-AIA_2012-09-03 12:05:05.625
10	DEM-AIA-temp_2012-09-03 12:05:05.625000	temp	DEM-AIA_2012-09-03 12:05:05.625
11	DEM-AIA-width_2012-09-03 12:05:05.625000	width	DEM-AIA_2012-09-03 12:05:05.625
12	DEM-AIA-chi2_2012-09-03 12:05:05.625000	chi2	DEM-AIA_2012-09-03 12:05:05.625
13	DEM-AIA-em_2012-08-02 12:05:01.872500	em	DEM-AIA_2012-08-02 12:05:01.872
14	DEM-AIA-temp_2012-08-02 12:05:01.872500	temp	DEM-AIA_2012-08-02 12:05:01.872
15	DEM-AIA-width_2012-08-02 12:05:01.872500	width	DEM-AIA_2012-08-02 12:05:01.872

Total: 1,000 Visible: 1,000 Selected: 0

Résultats VESPA / <http://vespa.obspm.fr/planetary/data/>



Back To Services Results

Results in service **omega_maps**

omega_maps - L3 Omega Maps from PSUP

Omega derived maps at PSUP. Mineralogical and albedo maps derived from OMEGA/Mars-Express observations, distributed as fits files.

Credits:

Creators: Karin Dassas

Contributors: IDOC

Publisher: Institut d'Astrophysique Spatiale - IDOC

Show entries

Column visibility

Select All in current page

granule_uid	dataprodukt_type	target_name	time_min (d)	time_max (d)	access_url	granule_gid	obs_id	tr
pyroxene_bd2000_equ_map	map	Mars			http://psup.ias.u-ps...	Omega_mineral_maps	pyroxene	p
olivine_osp3_equ_map	map	Mars			http://psup.ias.u-ps...	Omega_mineral_maps	olivine	p
olivine_osp2_equ_map	map	Mars			http://psup.ias.u-ps...	Omega_mineral_maps	olivine	p
olivine_osp1_equ_map	map	Mars			http://psup.ias.u-ps...	Omega_mineral_maps	olivine	p
ferric_nnphs_equ_map	map	Mars			http://psup.ias.u-ps...	Omega_mineral_maps	nanophase ferric oxides	p
ferric_bd530_equ_map	map	Mars			http://psup.ias.u-ps...	Omega_mineral_maps	ferric oxides	p
emissivite_5.03mic_OMEGA0	map	Mars			http://psup.ias.u-ps...	Omega_mineral_maps	emissivity	p

Plotting tools



Example queries

Saturn in March 2012

Help

Help

http://psup.ias.u-psud.fr/sitools/datastorage/user/storage/marsdata/omega/fits/ferric_bd530_equ_map.fits-1

TAP access with idoc/tap

idoc/tap Mode: Generic

Générez, vérifiez et exécutez votre requête.

Table: **omega_maps.epn_core** Set ra, dec Join

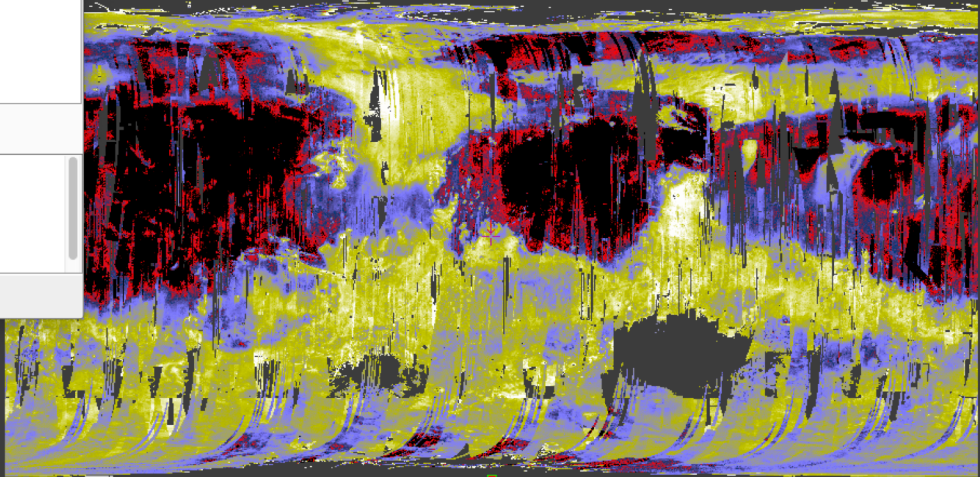
Select: All Constraints: Add new Max rows: 10

granule_uid
granule_gid
obs_id
dataprod...
target_name

Refresh query Check.. SYNC Async jobs>>

SELECT TOP 10 * FROM omega_maps.epn_core

Reset Clear Submit Fermer



- ▶ chivo → 4
- ▶ esavo → 6
- ▶ eso.org → 2
- ▶ fu-berlin.planet.hrsc → 1
- ▶ ia2.inaf.it → 3
- ▼ idoc → 1
 - ▶ idoc-dachs TAP service
- ▶ irsa.ipac → 1
- ▶ jvo → 12
- ▶ latmos.ipsl → 2
- ▶ lmd.jussieu → 2
- ▶ mssl.ucl.ac.uk → 30
- ▶ nasa.heasarc → 31
- ▶ nci.org.au → 3
- ▶ ned.ipac → 1
- ▶ oca → 1
- ▶ org.gavo.dc → 36
- ▶ purx → 3
- ▶ pvol → 1
- ▶ spectrum.iaa → 2
- ▶ src.pas → 2
- ▶ swinburne → 1
- ▶ tohoku.univ.jp → 5
- ▶ uni-heidelberg.de → 1
- ▶ vopdc.obspm → 4
- ▶ voxastro.org → 2
- ▶ wfau.roe.ac.uk → 2
- ▶ xaovo → 1
- ▶ xcatdb → 2
- ▶ Problematic → 2

317.2' x 180'

grille exam.cligne nord hdr multivues unif.

Chercher

access_url	granule_uid	granule_gid	obs_id	dataprod...	target_n...	type
http://psup.ias.u-psud.fr/sitools/datastorage/...	albedo_r1080_equ_map	Omega_mineral_maps	albedo	map	Mars	p
http://psup.ias.u-psud.fr/sitools/datastorage/...	ferric_bd530_equ_map	Omega_mineral_maps	ferric o...	map	Mars	p
http://psup.ias.u-psud.fr/sitools/datastorage/...	ferric_nphs_equ_map	Omega_mineral_maps	nanophas...	map	Mars	p
http://psup.ias.u-psud.fr/sitools/datastorage/...	olivine_osp1_equ_map	Omega_mineral_maps	olivine	map	Mars	p
http://psup.ias.u-psud.fr/sitools/datastorage/...	olivine_osp2_equ_map	Omega_mineral_maps	olivine	map	Mars	p
http://psup.ias.u-psud.fr/sitools/datastorage/...	olivine_osp3_equ_map	Omega_mineral_maps	olivine	map	Mars	p
http://psup.ias.u-psud.fr/sitools/datastorage/...	albedo_filled	Omega_mineral_maps	albedo	map	Mars	p
http://psup.ias.u-psud.fr/sitools/datastorage/...	pyroxene_bd2000_equ_map	Omega_mineral_maps	pyroxene	map	Mars	p

- select
- depl.
- dist
- phot
- dessin
- marq
- mac
- visuel
- filtre
- corr.
- x-y
- rvb
- assoc
- coupe
- cont
- pixel
- prop
- suppr

- Doc / 130
- http://psup.ias.u-psud.fr/sitools/datastorage/...
 - http://psup.ias.u-psud.fr/sitools/datastorage/...
 - http://psup.ias.u-psud.fr/sitools/datastorage/...
 - CDS / P / DSS2 / col

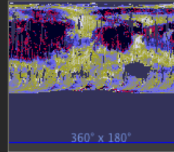
époque →

taille →

trans. →

opac. →

zoom →



Available data → 23070 / 23073

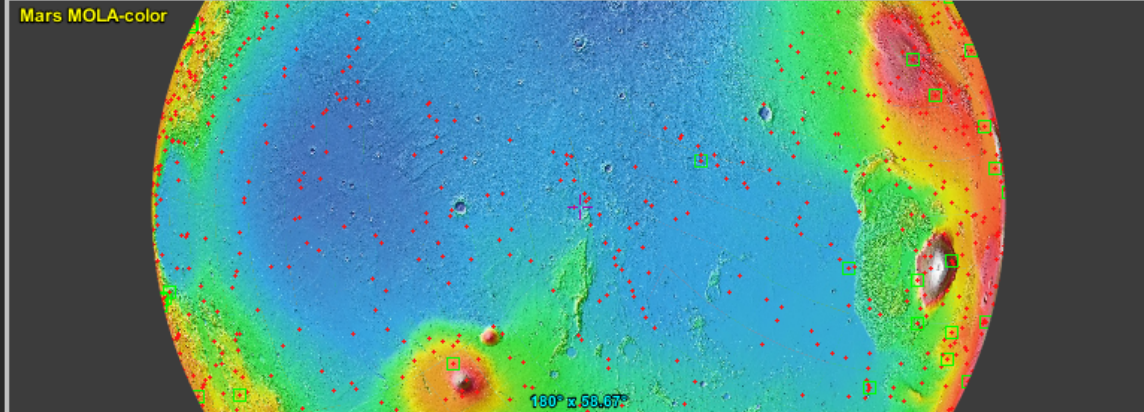
Command

Frame ICRS

Projection Spheric



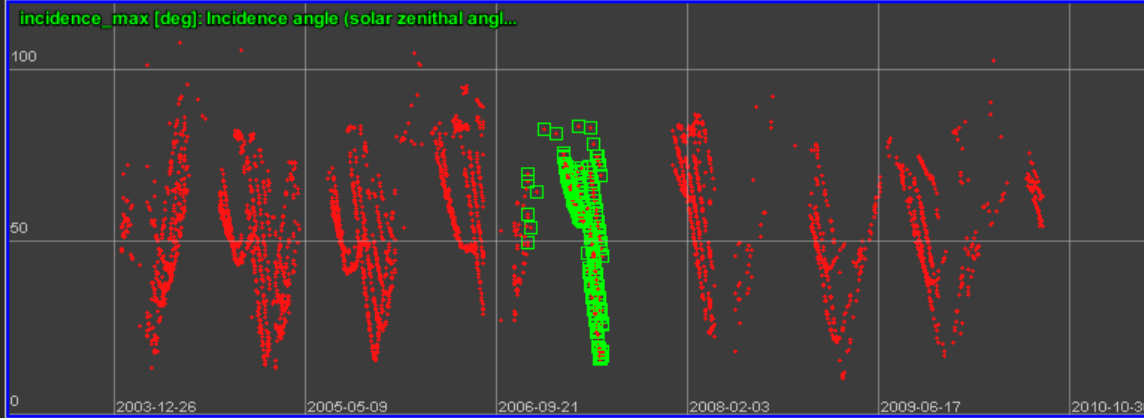
DSS DSS-red PanSTARRS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Gaia Simbad NED +



Warning

You are probably using an incompatible spacial reference (planets vs sky). This incompatibility is ignored in this beta release (test phase)

- select
- pan
- dist
- phot
- draw
- tag
- moc
- spect
- filter
- cross
- x-y
- rgb
- asso c
- crop
- epoch
- size
- dens.
- cube
- opac.
- zoom
- prop
- del



4 superimposed objects - click on them to get details

access_url	granule...	granule...	obs_id	dataprod...	target_n...	target_c...	time_min	time_max	time_s
http://p...	3795_4_sav	Omega_ch...	3795_4	sc	Mars	planet	2454090....	2454090....	
http://p...	3795_4_nc	Omega_ch...	3795_4	sc	Mars	planet	2454090....	2454090....	
http://p...	4029_0_sav	Omega_ch...	4029_0	sc	Mars	planet	2454156....	2454156....	
http://p...	4029_0_nc	Omega_ch...	4029_0	sc	Mars	planet	2454156....	2454156....	
http://p...	4098_3_sav	Omega_ch...	4098_3	sc	Mars	planet	2454175....	2454175....	
http://p...	4098_3_nc	Omega_ch...	4098_3	sc	Mars	planet	2454175....	2454175....	
http://p...	4105_2_sav	Omega_ch...	4105_2	sc	Mars	planet	2454177....	2454177....	
http://p...	4105_2_nc	Omega_ch...	4105_2	sc	Mars	planet	2454177....	2454177....	
http://p...	4117_2_sav	Omega_ch...	4117_2	sc	Mars	planet	2454180....	2454180....	

select

from -- all collections --

coll. sort view scan filter

Résultats

Aladin v10.1 *** BETA VERSION (based on v10.117) ***

nées disponibles → 23092 / 23095
view out view

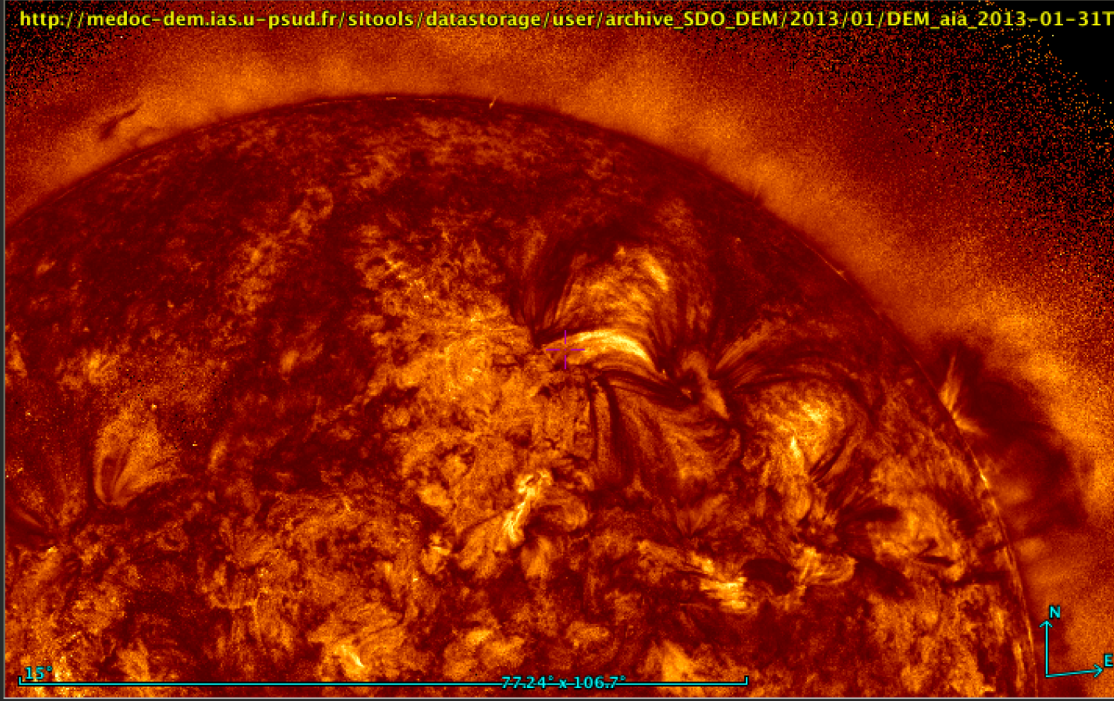
Commande

Référentiel ICRS

Projection Aitoff

DSS SDSS 2MASS WISE GALEX PLANCK AKARI XMM Fermi Gaia Simbad NED +

- cadcc.nrc.ca → 1
- cdpp → 5
- cds.vizier → 1
- chivo → 4
- esavo → 6
- eso.org → 2
- fu-berlin.planet.hrsc → 1
- ia2.inaf.it → 3
- idoc → 1
- idoc-dachs TAP service
- irsa.ipac → 1
- jvo → 12
- latmos.ipsl → 2
- lmd.jussieu → 2
- mssl.ucl.ac.uk → 30
- nasa.heasarc → 31
- nci.org.au → 3
- ned.ipac → 1
- oca → 1
- org.gavo.dc → 36
- purx → 3
- pvol → 1
- spectrum.iaa → 2
- src.pas → 2
- swinburne → 1
- tohoku.univ.jp → 5
- uni-heidelberg.de → 1
- vopdc.obspm → 4
- voxastro.org → 2
- wfau.roe.ac.uk → 2
- xaovo → 1
- xcatdb → 2
- Problematic → 2



grille exam.clique nord hdr multivues unif.

access_url	granule...	granule...	obs_id	dataprod...	target_n...	target_c...	time_min	time_max
http://m...	DEM-AIA-...	temp	DEM-AIA-...		Sun	star	2456324....	2456324....
http://m...	DEM-AIA-...	chi2	DEM-AIA-...		Sun	star	2456324....	2456324....

ALADin

Tips & tricks

Contrôle du rendu des pixels:

Astuce: le rendu des pixels peut être ajusté directement dans la fenêtre principale par un simple cliqué/étiré avec le bouton de droite de la souris. Le déplacement du curseur détermine le contraste et la luminosité de la table des couleurs (à la "DS9").

A noter également le bouton hdr dans la fenêtre principale qui permet de passer du mode ...

- <http://medoc-dem.ia...>
- <http://medoc-dem.ia...>
- <http://medoc-dem.ia...>

époque - +

taille - +

dens. - +

opac. - +

coupe - +

zoom - +

cont

pixel

prop

suppr

24588° x 2168°

- / +

- Une ligne par type de données. Utilisation de datalink déconseillée pour le moment
- Limitation de la taille de la database avec la méthode utilisée
- Gestion base dynamique pas directe

odbcGrammar ?

- Rapide à mettre en place
- Utilisation de python
- Enregistrement simple
- Support réactif

Merci pour votre attention !