Connecting planetary plasma data with IVOA tools using SAMP

B Cecconi[a], B Renard[b], N André[b], R Hitier[c], C Jacquey[b] and the CDPP team

[a] *LESIA, Obs. Paris, Meudon;* [b] *IRAP, Toulouse,* [c] *Colibri*

- CDPP (Centre de Données de la Physique des Plasmas)
  french data center for plasma physics

- AMDA (Automated Multi Dataset Analysis)
  A generic Webtool for Space Physics data :
  - automated event search and characterisation
  - catalogue generation and exploitation
  - automated database conditional extraction
  - access to remote Data Centers

- Remote access is built on SPASE (Space Physics Archive Search and Extract), which a standard in space physics.

Welcome to AMDA

AMDA-NG4/Migration Step - Vi... | Welcome to AMDA | http://cdpp-amd...esultTable.asc | spase - Recherche Google

cdpp-amda.cesr.fr/DDHTML/HTML/loginreq.php

spase

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Help | Feedback | Logout

My Data | My Parameters | My Time Tables | My Catalogs | Plot Data | Download Data | Search in Data | Add External Data

External Data Centers

close all | open all

- CDAWEB
- MAPSKP
  - Cassini
- THEMIS
  - THEMIS-A
  - THEMIS-B
  - THEMIS-C
  - THEMIS-D
  - THEMIS-E
- VEXGRAZ
  - VEX

My Data from External Data Centers

Save Modifs

close all | open all

- MAPSKP
  - Cassini
- CDAWEB
  - WIND
  - STEREO
  - POLAR
  - GOES_7
  - ACE
- THEMIS
  - THEMIS-A
- VEXGRAZ
  - VEX
    - Vex_mag
      - MAG_VSO

AMDA: External data module

Welcome to AMDA

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Help | Feedback | Logout

My Data | My Parameters | My Time Tables | My Catalogs | Plot Data | Download Data | Search in Data | Add External Data

My Data

MY PARAMETERS
- temp_qtn
- fplasma_snd
- fplasma_qtn
- density_lp_proxy
- density_lp_20050216
- skr_period_s
- skr_period_n
- sw_saturn_bmag
- sw_saturn_rho
- sw_saturn_vmag
- CCMC_Carrington_2065/saturn
- CCMC_Carrington_2065/mars
- CCMC_Carrington_2065/venus
- kaguya_lrs_rx1
- kaguya_lrs_rx2

move to folder | NEW FOLDER

MY FILES
- cdpp_2005047.txt
- 2005047_sounder.txt
- NEPROXY2005-01-01T00-00-00Z_2005-03-30T23-59-59.999Z.dat
- density_LP_2005-02-16.txt
- test-2.txt
- SW_saturn.asc
- C_ORB_07_1997_095_GAN_64.TAB
- pointdata_conv_22181.txt
- pointdata_conv_19971.txt
- pointdata_conv_24615.txt
- LRS_NPW_V010_20071211.cdf

Upload File

max size: 30MB

file format: ASCII ◉ CDF ○ CEF ○

Define Parameter

Parameter Name: sw_saturn_vmag

File Mask: SW_saturn.asc

Parameter Type: FLOAT

Parameter Size: 1

Time Sampling (sec): 3600

Max Time Sampling (sec):

Fill Value (optional):

Units (optional): km/s

Y Title (optional):

Legend (optional):

Save Parameter into ./

Reset

SW_saturn.asc

```
2004-01-01T00:30:00 0.180933 0.0234803 467.958
2004-01-01T01:30:00 0.178884 0.0230247 467.396
2004-01-01T02:30:00 0.177465 0.0225466 466.411
2004-01-01T03:30:00 0.178860 0.0225014 465.891
2004-01-01T04:30:00 0.180578 0.0224495 465.710
2004-01-01T05:30:00 0.181953 0.0223346 465.208
2004-01-01T06:30:00 0.182860 0.0222250 464.493
2004-01-01T07:30:00 0.183495 0.0221776 463.988
2004-01-01T08:30:00 0.184059 0.0221694 463.467
2004-01-01T09:30:00 0.184035 0.0221046 462.526
2004-01-01T10:30:00 0.183612 0.0220038 461.747
.....................
```

Parameter Start Position [>= 1]: 3

AMDA: upload data module

Welcome to AMDA

AMDA-NG4/Migration Step - Vi... | Welcome to AMDA | spase - Recherche Google

cdpp-amda.cesr.fr/DDHTML/HTML/loginreq.php

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Help | Feedback | Logout

My Data | My Parameters | My Time Tables | My Catalogs | Plot Data | Download Data | Search in Data | Add External Data

sw_saturn_vmag
CCMC_Carrington_2065/saturn
CCMC_Carrington_2065/mars
CCMC_Carrington_2065/venus
kaguya_lrs_rx1
kaguya_lrs_rx2

move to folder | NEW FOLDER

MY FILES
cdpp_2005047.txt
2005047_sounder.txt
NEPROXY2005-01-01T00-00-00Z_2005-03-30T23-59-59.999Z.dat
density_LP_2005-02-16.txt
test-2.txt
SW_saturn.asc
C_ORB_07_1997_095_GAN_64.TAB
pointdata_conv_22181.txt
pointdata_conv_19971.txt
pointdata_conv_24615.txt
LRS_NPW_V010_20071211.cdf

Upload File

max size: 30MB

file format: ASCII CDF CEF

time format:

Standard NonStandard

time sampling:

Constant Variable

From Local Machine

Parcourir...

From URL *Proposed Sites*

Upload | Reset

Define Parameter

Parameter Name: sw_saturn_vmag

File Mask: SW_saturn.asc

Parameter Type: FLOAT

Parameter Size: 1

Time Sampling (sec): 3600

Max Time Sampling (sec):

Fill Value (optional):

Units (optional): km/s

Y Title (optional):

Legend (optional):

Save Parameter into ./

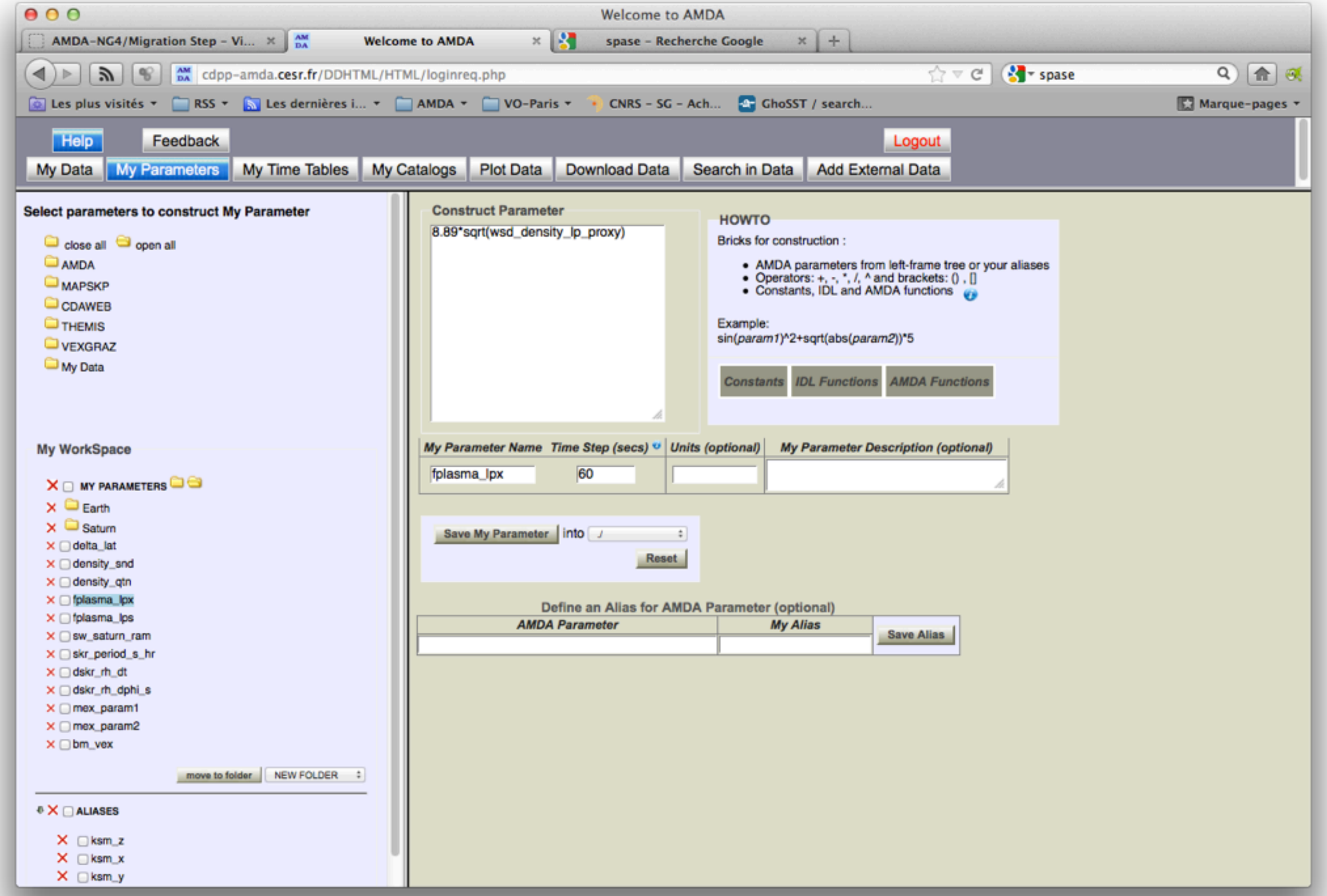
Reset

SW_saturn.asc

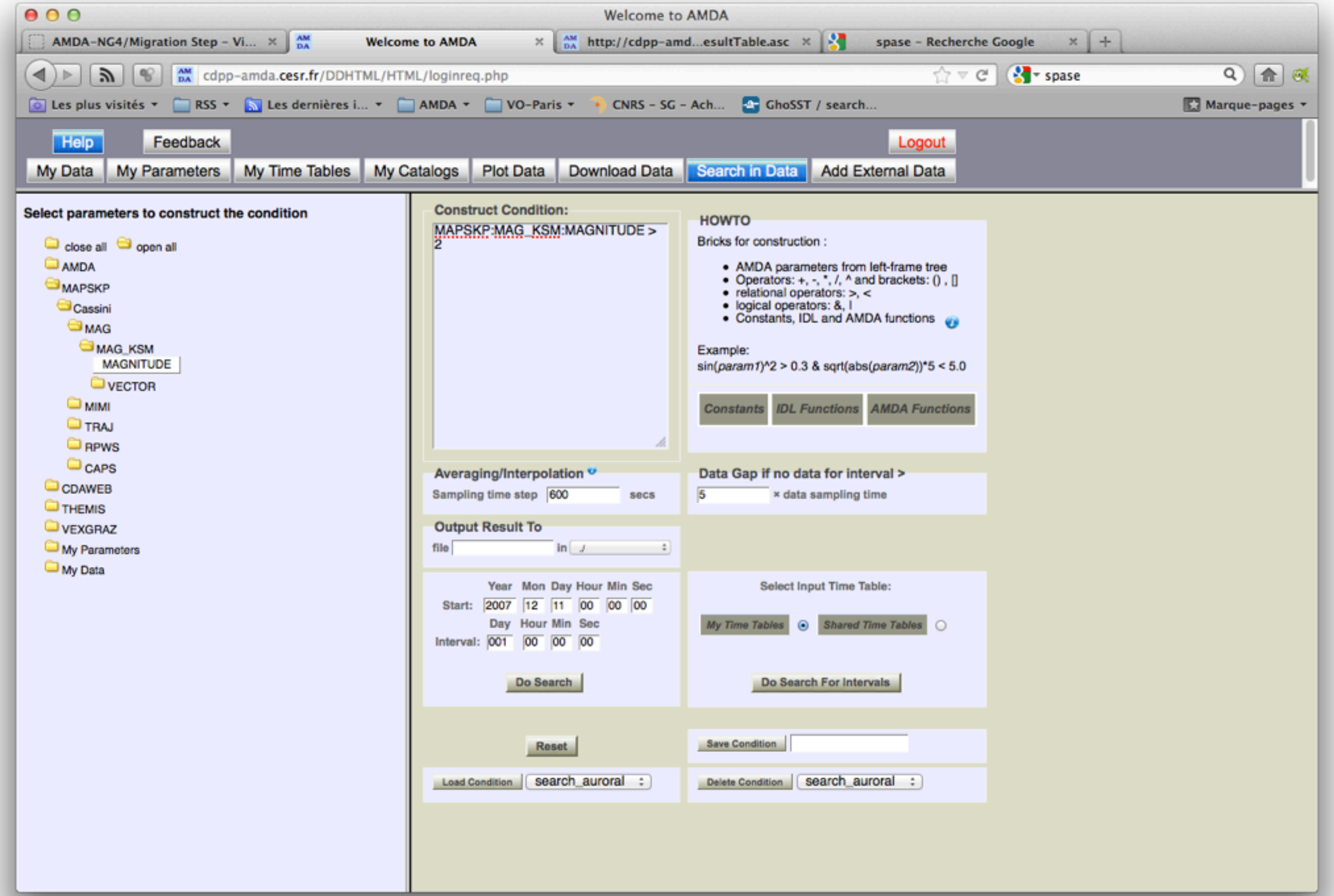
```
2004-01-01T00:30:00 0.180933 0.0234803 467.958
2004-01-01T01:30:00 0.178884 0.0230247 467.396
2004-01-01T02:30:00 0.177465 0.0225466 466.411
2004-01-01T03:30:00 0.178860 0.0225014 465.891
2004-01-01T04:30:00 0.180578 0.0224495 465.710
2004-01-01T05:30:00 0.181953 0.0223346 465.208
2004-01-01T06:30:00 0.182860 0.0222250 464.493
2004-01-01T07:30:00 0.183495 0.0221776 463.988
2004-01-01T08:30:00 0.184059 0.0221694 463.467
2004-01-01T09:30:00 0.184035 0.0221046 462.526
2004-01-01T10:30:00 0.183612 0.0220038 461.747
.................
```

Parameter Start Position [>= 1]: 3

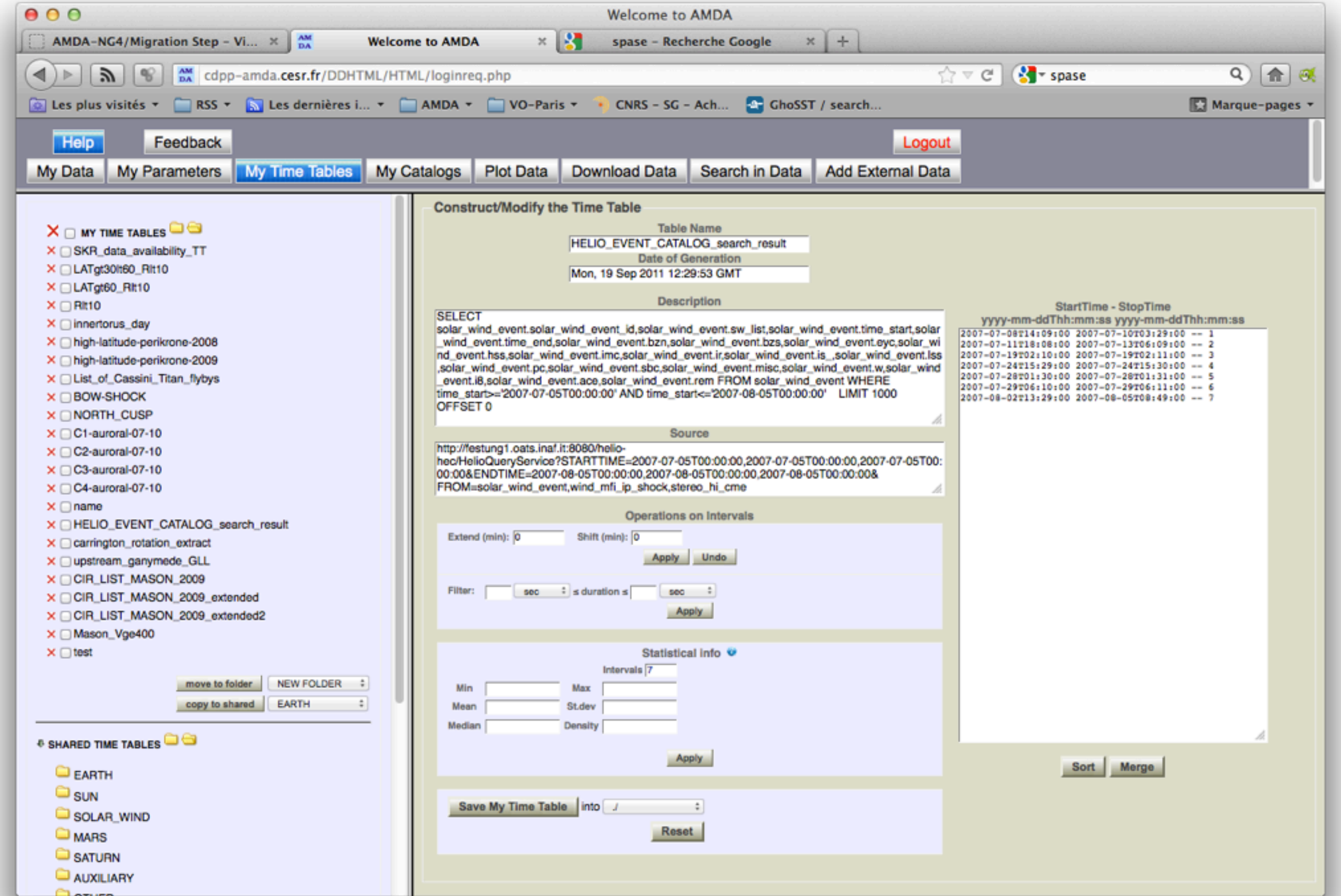
AMDA: upload data module



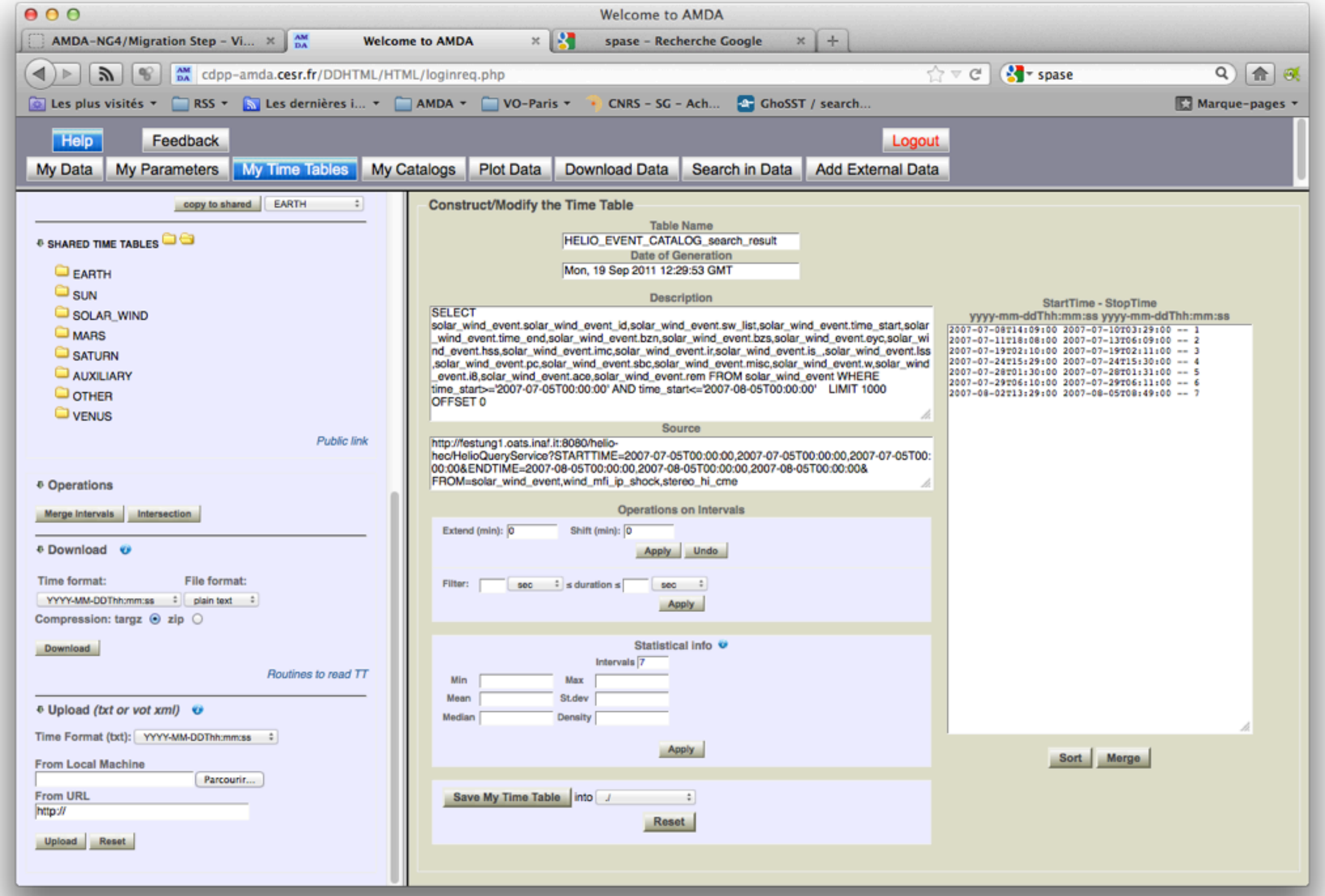
AMDA: parameter builder module



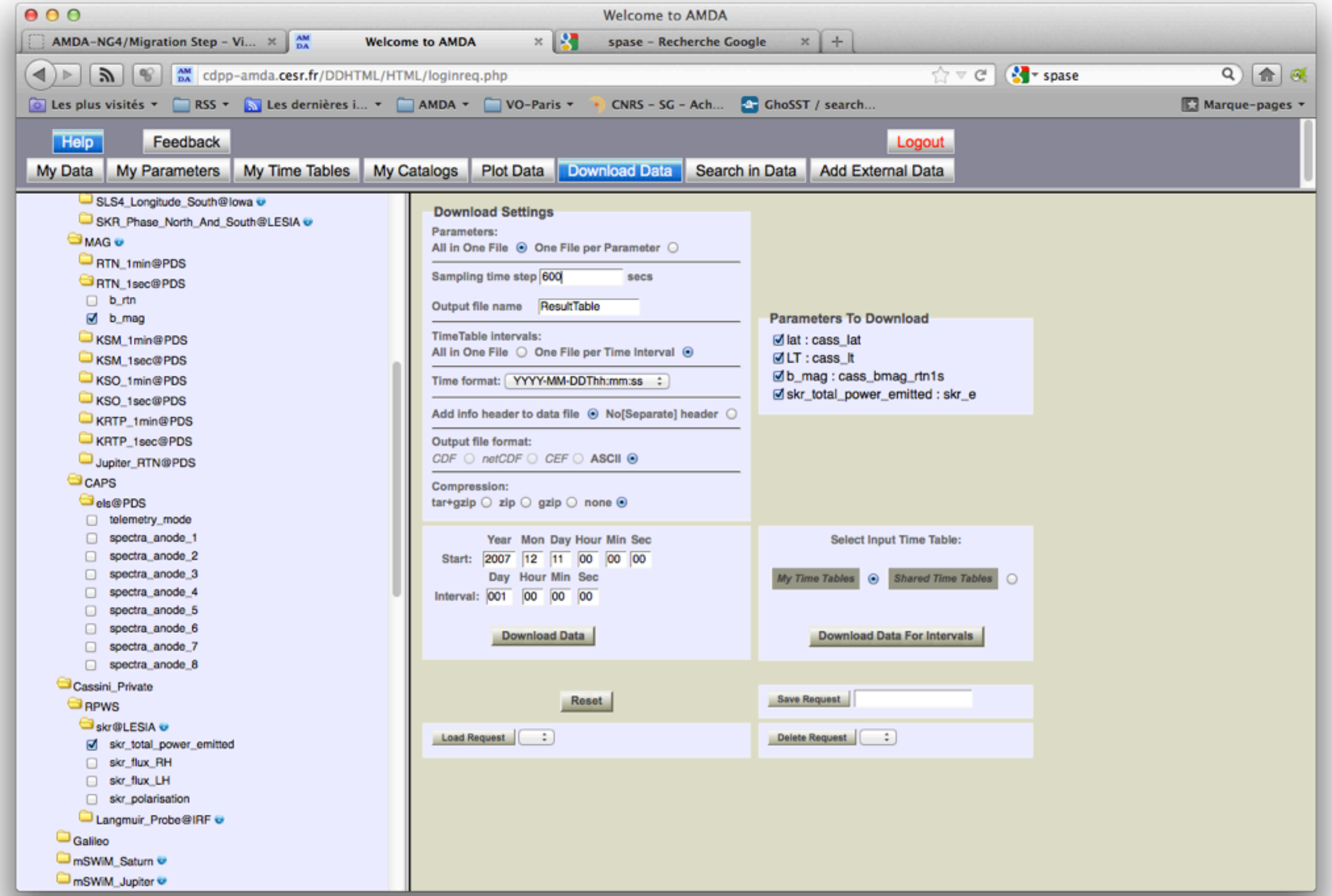
AMDA: Search module



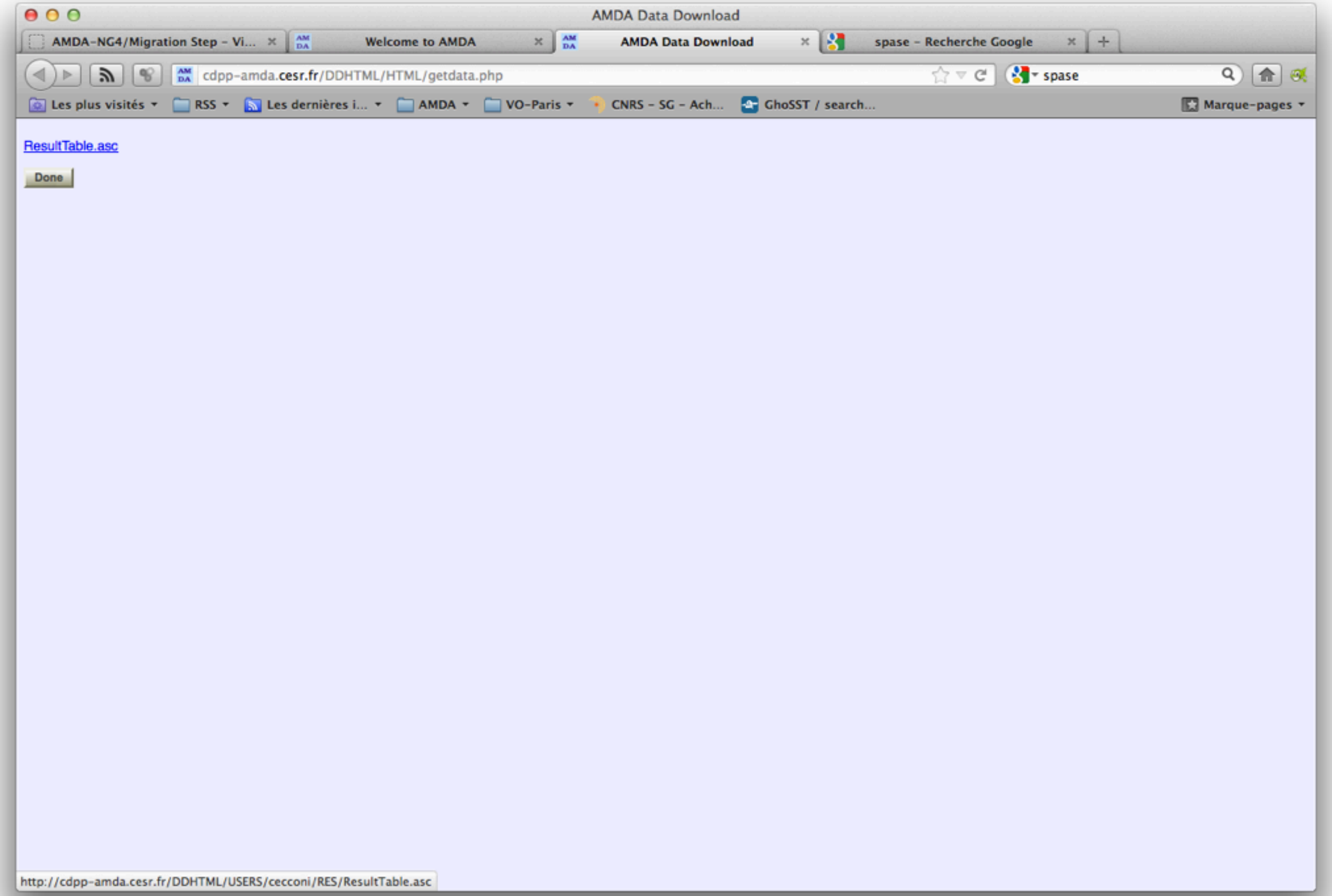
AMDA: Timetable module



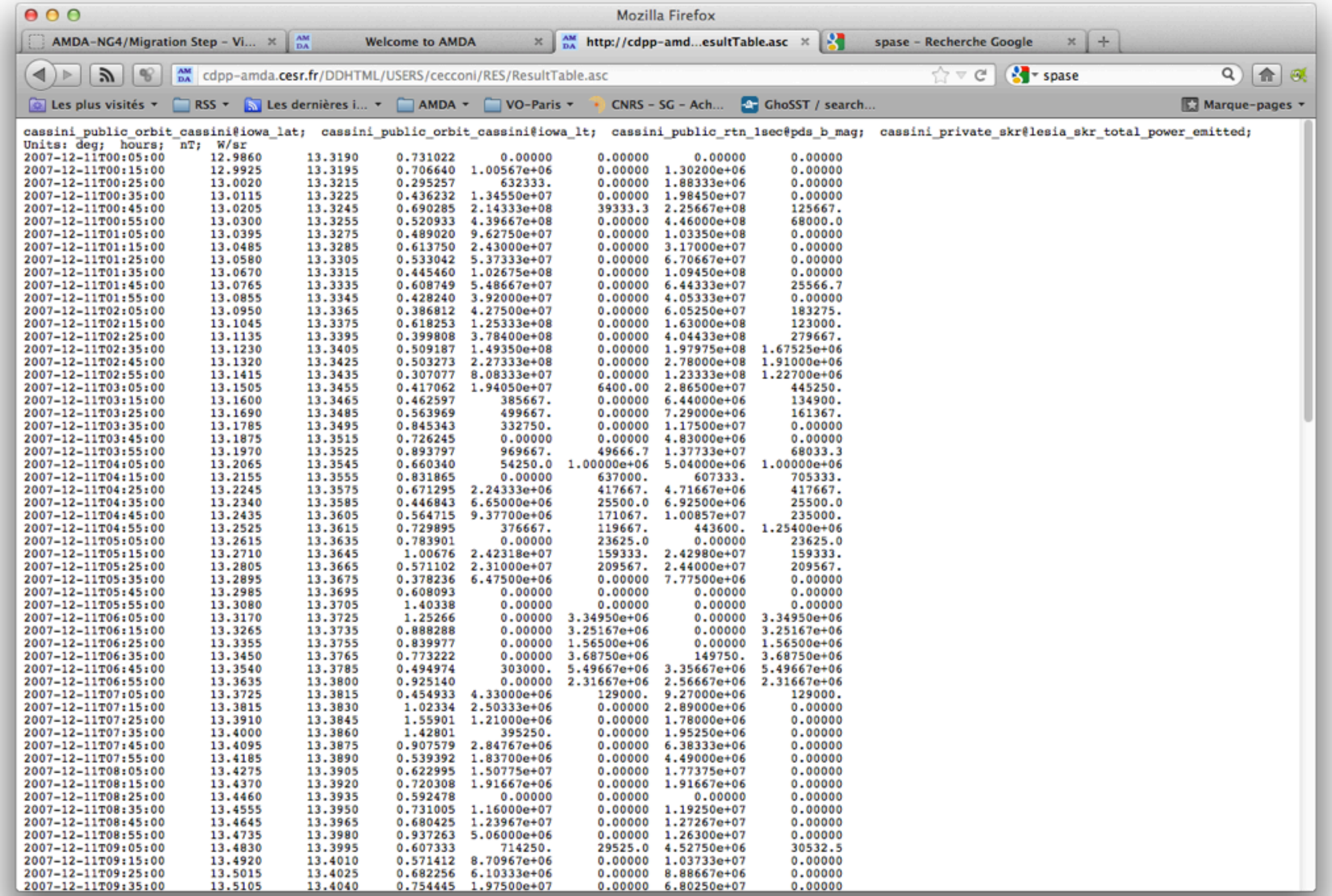
AMDA: Timetable module



AMDA: Download module



AMDA: Download result page




```
cassini_public_orbit_cassini@iowa_lat;  cassini_public_orbit_cassini@iowa_lt;  cassini_public_rtn_1sec@pds_b_mag;  cassini_private_skr@lesia_skr_total_power_emitted;
Units: deg;  hours;  nT;  W/sr
2007-12-11T00:05:00      12.9860      13.3190     0.731022      0.00000      0.00000      0.00000      0.00000
2007-12-11T00:15:00      12.9925      13.3195     0.706640  1.00567e+06      0.00000  1.30200e+06      0.00000
2007-12-11T00:25:00      13.0020      13.3215     0.295257      632333.      0.00000  1.88333e+06      0.00000
2007-12-11T00:35:00      13.0115      13.3225     0.436232  1.34550e+07      0.00000  1.98450e+07      0.00000
2007-12-11T00:45:00      13.0205      13.3245     0.690285  2.14333e+08      39333.3  2.25667e+08      125667.
2007-12-11T00:55:00      13.0300      13.3255     0.520933  4.39667e+08      0.00000  4.46000e+08      68000.0
2007-12-11T01:05:00      13.0395      13.3275     0.489020  9.62750e+07      0.00000  1.03350e+08      0.00000
2007-12-11T01:15:00      13.0485      13.3285     0.613750  2.43000e+07      0.00000  3.17000e+07      0.00000
2007-12-11T01:25:00      13.0580      13.3305     0.533042  5.37333e+07      0.00000  6.70667e+07      0.00000
2007-12-11T01:35:00      13.0670      13.3315     0.445460  1.02675e+08      0.00000  1.09450e+08      0.00000
2007-12-11T01:45:00      13.0765      13.3335     0.608749  5.48667e+07      0.00000  6.44333e+07      25566.7
2007-12-11T01:55:00      13.0855      13.3345     0.428240  3.92000e+07      0.00000  4.05333e+07      0.00000
2007-12-11T02:05:00      13.0950      13.3365     0.386812  4.27500e+07      0.00000  6.05250e+07      183275.
2007-12-11T02:15:00      13.1045      13.3375     0.618253  1.25333e+08      0.00000  1.63000e+08      123000.
2007-12-11T02:25:00      13.1135      13.3395     0.399808  3.78400e+08      0.00000  4.04433e+08      279667.
2007-12-11T02:35:00      13.1230      13.3405     0.509187  1.49350e+08      0.00000  1.97975e+08  1.67525e+06
2007-12-11T02:45:00      13.1320      13.3425     0.503273  2.27333e+08      0.00000  2.78000e+08  1.91000e+06
2007-12-11T02:55:00      13.1415      13.3435     0.307077  8.08333e+07      0.00000  1.23333e+08  1.22700e+06
2007-12-11T03:05:00      13.1505      13.3455     0.417062  1.94050e+07      6400.00  2.86500e+07      445250.
2007-12-11T03:15:00      13.1600      13.3465     0.462597      385667.      0.00000  6.44000e+06      134900.
2007-12-11T03:25:00      13.1690      13.3485     0.563969      499667.      0.00000  7.29000e+06      161367.
2007-12-11T03:35:00      13.1785      13.3495     0.845343      332750.      0.00000  1.17500e+07      0.00000
2007-12-11T03:45:00      13.1875      13.3515     0.726245      0.00000      0.00000  4.83000e+06      0.00000
2007-12-11T03:55:00      13.1970      13.3525     0.893797      969667.      49666.7  1.37733e+07      68033.3
2007-12-11T04:05:00      13.2065      13.3545     0.660340      54250.0  1.00000e+06  5.04000e+06  1.00000e+06
2007-12-11T04:15:00      13.2155      13.3555     0.831865      0.00000      637000.      607333.      705333.
2007-12-11T04:25:00      13.2245      13.3575     0.671295  2.24333e+06      417667.  4.71667e+06      417667.
2007-12-11T04:35:00      13.2340      13.3585     0.446843  6.65000e+06      25500.0  6.92500e+06      25500.0
2007-12-11T04:45:00      13.2435      13.3605     0.564715  9.37700e+06      171067.  1.00857e+07      235000.
2007-12-11T04:55:00      13.2525      13.3615     0.729895      376667.      119667.      443600.  1.25400e+06
2007-12-11T05:05:00      13.2615      13.3635     0.783901      0.00000      23625.0      0.00000      23625.0
2007-12-11T05:15:00      13.2710      13.3645      1.00676  2.42318e+07      159333.  2.42980e+07      159333.
2007-12-11T05:25:00      13.2805      13.3665     0.571102  2.31000e+07      209567.  2.44000e+07      209567.
2007-12-11T05:35:00      13.2895      13.3675     0.378236  6.47500e+06      0.00000  7.77500e+06      0.00000
2007-12-11T05:45:00      13.2985      13.3695     0.608093      0.00000      0.00000      0.00000      0.00000
2007-12-11T05:55:00      13.3080      13.3705      1.40338      0.00000      0.00000      0.00000      0.00000
2007-12-11T06:05:00      13.3170      13.3725      1.25266      0.00000  3.34950e+06      0.00000  3.34950e+06
2007-12-11T06:15:00      13.3265      13.3735     0.888288      0.00000  3.25167e+06      0.00000  3.25167e+06
2007-12-11T06:25:00      13.3355      13.3755     0.839977      0.00000  1.56500e+06      0.00000  1.56500e+06
2007-12-11T06:35:00      13.3450      13.3765     0.773222      0.00000  3.68750e+06      149750.  3.68750e+06
2007-12-11T06:45:00      13.3540      13.3785     0.494974      303000.  5.49667e+06  3.35667e+06  5.49667e+06
2007-12-11T06:55:00      13.3635      13.3800     0.925140      0.00000  2.31667e+06  2.56667e+06  2.31667e+06
2007-12-11T07:05:00      13.3725      13.3815     0.454933  4.33000e+06      129000.  9.27000e+06      129000.
2007-12-11T07:15:00      13.3815      13.3830      1.02334  2.50333e+06      0.00000  2.89000e+06      0.00000
2007-12-11T07:25:00      13.3910      13.3845      1.55901  1.21000e+06      0.00000  1.78000e+06      0.00000
2007-12-11T07:35:00      13.4000      13.3860      1.42801      395250.      0.00000  1.95250e+06      0.00000
2007-12-11T07:45:00      13.4095      13.3875     0.907579  2.84767e+06      0.00000  6.38333e+06      0.00000
2007-12-11T07:55:00      13.4185      13.3890     0.539392  1.83700e+06      0.00000  4.49000e+06      0.00000
2007-12-11T08:05:00      13.4275      13.3905     0.622995  1.50775e+07      0.00000  1.77375e+07      0.00000
2007-12-11T08:15:00      13.4370      13.3920     0.720308  1.91667e+06      0.00000  1.91667e+06      0.00000
2007-12-11T08:25:00      13.4460      13.3935     0.592478      0.00000      0.00000      0.00000      0.00000
2007-12-11T08:35:00      13.4555      13.3950     0.731005  1.16000e+07      0.00000  1.19250e+07      0.00000
2007-12-11T08:45:00      13.4645      13.3965     0.680425  1.23967e+07      0.00000  1.27267e+07      0.00000
2007-12-11T08:55:00      13.4735      13.3980     0.937263  5.06000e+06      0.00000  1.26300e+07      0.00000
2007-12-11T09:05:00      13.4830      13.3995     0.607333      714250.      29525.0  4.52750e+06      30532.5
2007-12-11T09:15:00      13.4920      13.4010     0.571412  8.70967e+06      0.00000  1.03733e+07      0.00000
2007-12-11T09:25:00      13.5015      13.4025     0.682256  6.10333e+06      0.00000  8.88667e+06      0.00000
2007-12-11T09:35:00      13.5105      13.4040     0.754445  1.97500e+07      0.00000  6.80250e+07      0.00000
```

AMDA: Download result (text file)

Welcome to AMDA

Welcome to AMDA | AMDA Plot

manunja.cesr.fr/~richard/amda/DDHTML/HTML/loginreq.php

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Help | Feedback | Logout

My Parameters | My Time Tables | Plot Data | Download Data | Search in Data | Add External Data

Select parameters to plot

close all | open all

- AMDA
  - ARTEMIS-P1
  - ARTEMIS-P2
  - Cassini
    - ephemeris
    - RPWS
      - skr
        - skr_total_power_emitted
        - skr_flux_RH
        - skr_flux_LH
        - skr_polarisation
      - Langmuir_Probe
      - SLS4_Longitude_North
      - SLS4_Longitude_South
      - SKR_Phase_North_And_South
    - MAG
      - RTN_1min
      - RTN_1sec
        - b_rtn
        - b_mag
      - KSM_1min
      - KSM_1sec
      - KSO_1min
      - KSO_1sec
      - KRTP_1min
      - KRTP_1sec
      - Jupiter_RTN
  - Galileo
  - mSWiM_Saturn
  - mSWiM_Jupiter
  - Voyager_1
  - Voyager_2

Plot Request

D&D		N	Parameter Name	Arguments	Plot Size		X Data Range		Y Data Range	
					Width	Height	Xmin	Xmax	Ymin	Ymax
	X	0	skr_e		1	0.2	0	0	0	0
	X	1	skr_rh		1	0.2	0	0	0	0
	X	2	skr_lh		1	0.2	0	0	0	0
	X	3	skr_v		1	0.2	0	0	0	0
	X	4	cass_bmag_rtn1s		1	0.2	0	0	0	0
	X	5	cass_b_rtn1s		1	0.2	0	0	0	0

Portrait ◉ Landscape ○ | Reset

	Year	Mon	Day	Hour	Min	Sec
Start:	2004	01	01	00	00	00
	Day	Hour	Min	Sec		
Interval:	031	00	00	00		

Plot PNG | Plot PostScript

Select Input Time Table: My Time Tables ◉ Shared Time Tables ○

Plot PNG For Intervals

Save Request | Delete Request

Load Request | Load Standard Request

Time Shifting of Solar Wind Monitor Data ***(for AMDA Internal Data Base only)***

SWMonitor: ACE | Time Delay (secs): 0 | Save and Apply To Plot

Target	Year	Mon	Day	Hour	Min
Themis-A	2004	01	01	00	00

Calculate Delay

AMDA: Plot module

AMDA Plot

Welcome to AMDA | AMDA Plot

manunja.cesr.fr/~richard/amda/DDHTML/HTML/plotdata.php

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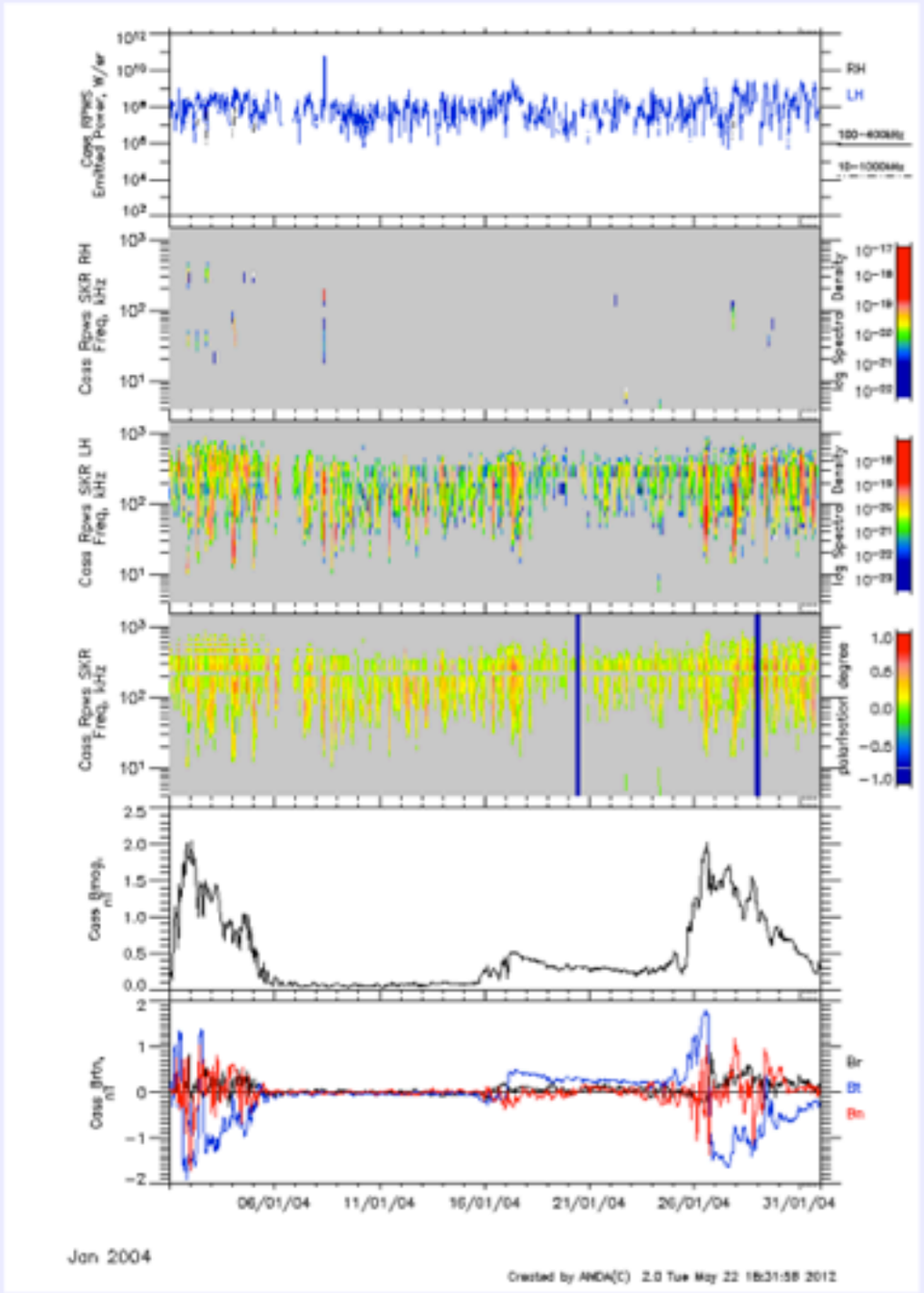
DDpl3PEi.png



Save Start-Stop | Get Hst Images | Zoom In | Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Plot result

Connecting AMDA with Aladin

- Science case:
  - Interplanetary shock passing by Saturn while the Cassini spacecraft if flying in the solar wind upstream from the planet.
  - Cassini detects local magnetic field disturbance, and enhanced radio emissions from Saturn (kilometric auroral radio emissions).
  - Are there HST images of Saturn Aurora at this time ?
  - If yes: plot them in Aladin.
- SAMP: using WebSAMPConnector.

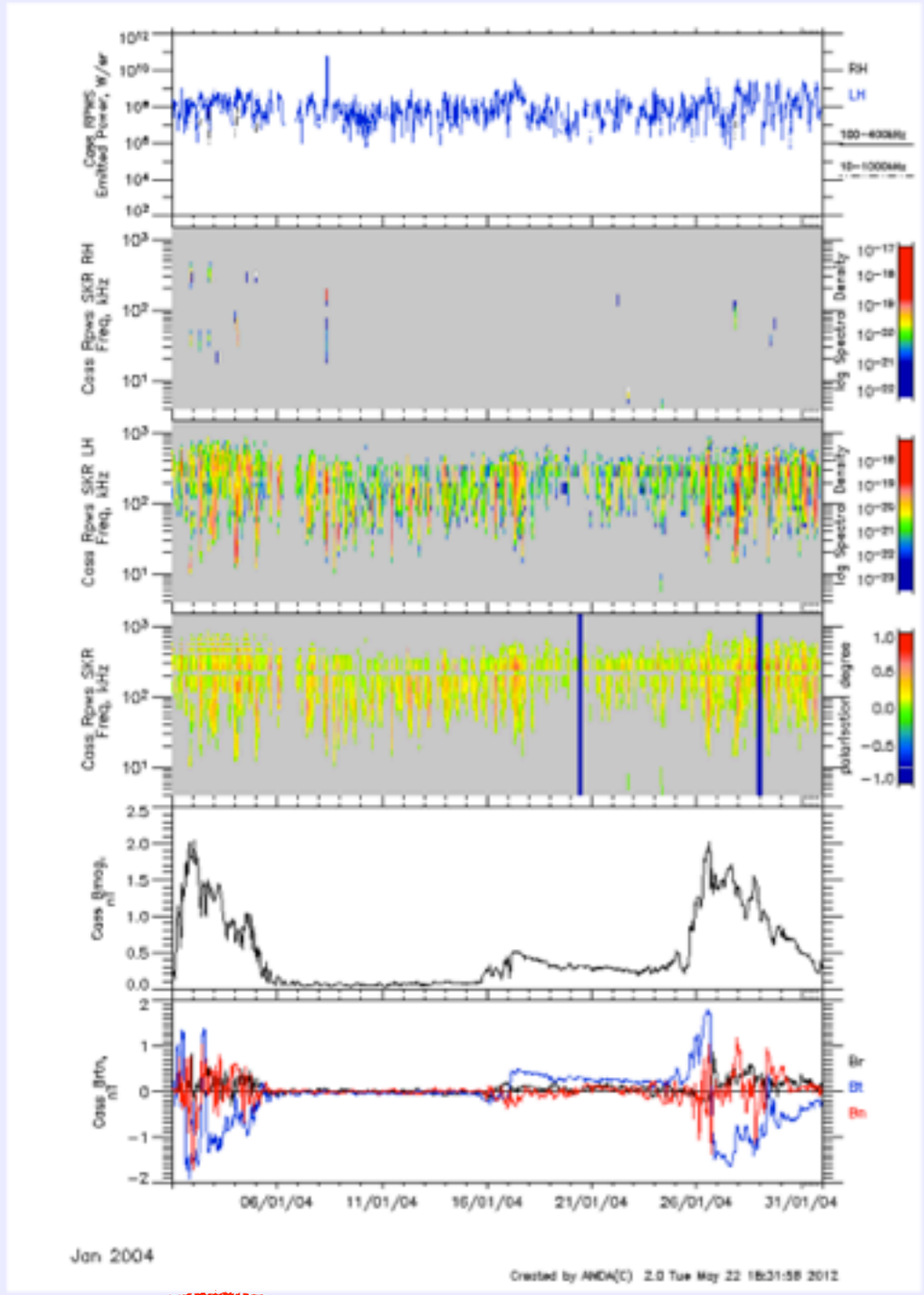
AMDA Plot

Welcome to AMDA | AMDA Plot

manunja.cesr.fr/~richard/amda/DDHTML/HTML/plotdata.php

Les plus visités | RSS | Les dernières i... | AMDA | VO-Paris | CNRS - SG - Ach... | GhoSST / search... | Marque-pages

DDpl3PEi.png



Save Start-Stop | Get Hst Images | Zoom In | Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Plot result

AMDA

manunja.cesr.fr/~richard/amda/DDHTML/HTML/Hst2Aladin.html

Time Request

StartTime 2004/01/01 00:00:00

StopTime 2004/02/01 00:00:00

Saturn ◉ **Jupiter** ○

Delta T 1 minute

extend left | extend right | extend both | shift left | shift right

Reset Start Stop | Plot Images Availability | Preview/Select Images

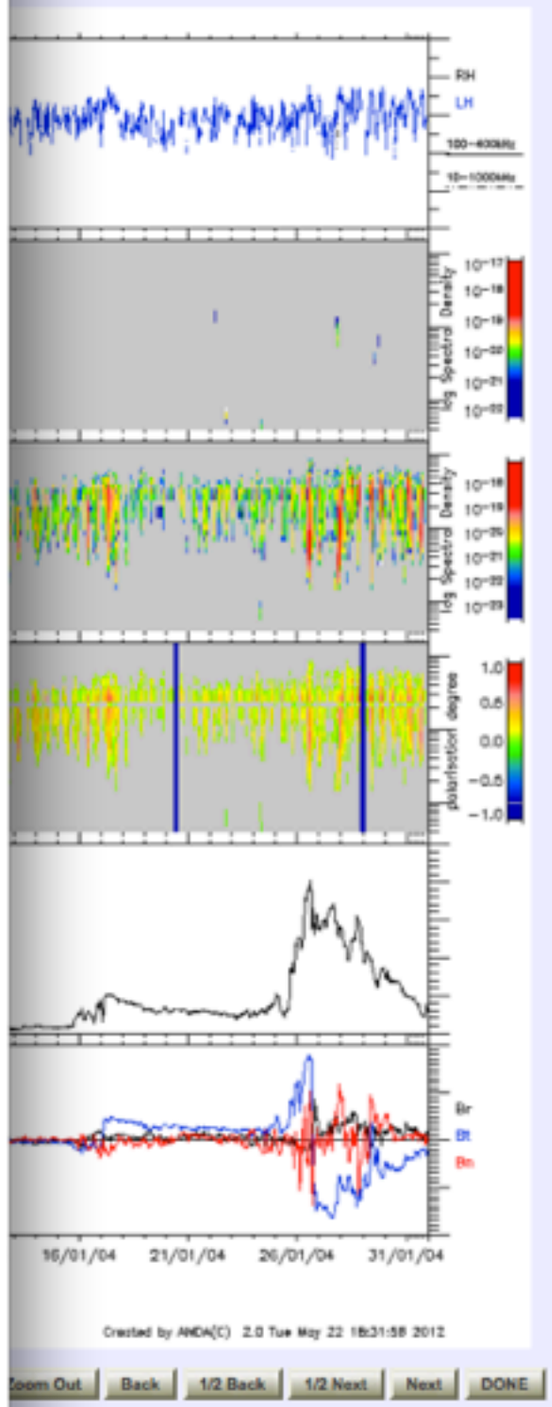
Hst Images

Aladin Commands

AMDA Plot

Google

– SG – Ach… | GhoSST / search… | Marque-pages



Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Get HST images module

AMDA Plot

AMDA

manunja.cesr.fr/~richard/amda/DDHTML/HTML/Hst2Aladin.html

Time Request

StartTime 2004/01/01 00:00:00

StopTime 2004/02/01 00:00:00

Saturn ◉ **Jupiter** ○

Delta T 1 minute

extend left | extend right | extend both | shift left | shift right

Reset Start Stop | Plot Images Availability | Preview/Select Images

Hst Images

Open Folders | Select All | Reset All | Load Previews

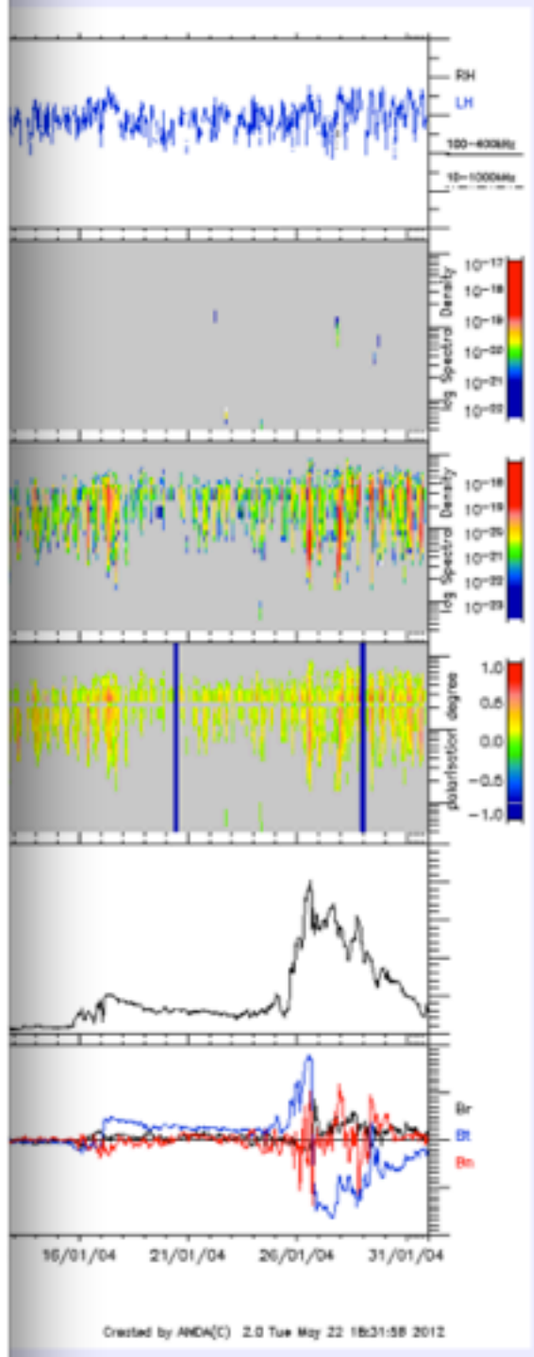
- 2004-01-08 (15)
- 2004-01-10 (3)
- 2004-01-12 (3)
- 2004-01-14 (3)
- 2004-01-16 (3)
- 2004-01-18 (3)
- 2004-01-20 (3)
- 2004-01-21 (3)
- 2004-01-23 (3)
- 2004-01-24 (2)
- 2004-01-25 (1)
- 2004-01-26 (3)
- 2004-01-28 (3)
- 2004-01-30 (3)

Download Selected Data (fits) | Use Aladin

Aladin Commands

Google

– SG – Ach… | GhoSST / search… | Marque-pages



Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Get HST images module

AMDA Plot

AMDA

manunja.cesr.fr/~richard/amda/DDHTML/HTML/Hst2Aladin.html

Time Request

StartTime 2004/01/01 00:00:00

StopTime 2004/02/01 00:00:00

Saturn ◉ **Jupiter** ○

Delta T 1 minute

extend left | extend right | extend bot

Reset Start Stop | Plot Images Availability

Hst Images

Open Folders | Select All | Reset All

2004-01-08 (15)

- 2004-01-08 04:25:59
- 2004-01-08 04:42:39
- 2004-01-08 04:56:56
- 2004-01-08 05:58:25
- 2004-01-08 06:16:45
- 2004-01-08 06:31:02
- 2004-01-08 07:34:24
- 2004-01-08 07:52:44
- 2004-01-08 08:07:01
- 2004-01-08 09:10:23
- 2004-01-08 09:28:43
- 2004-01-08 09:43:00
- 2004-01-08 10:46:22
- 2004-01-08 11:04:42
- 2004-01-08 11:18:59

2004-01-10 (3)

2004-01-12 (3)

2004-01-14 (3)

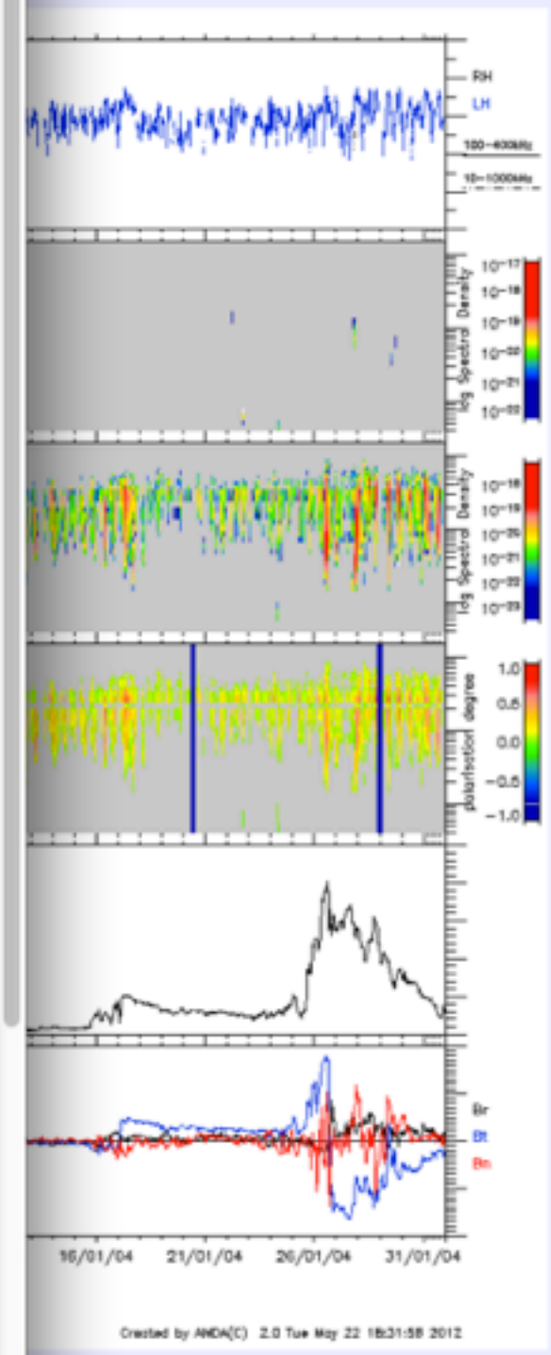
2004-01-16 (3)

2004-01-18 (3)

StartTime: 2004-01-08 09:43:00
StopTime: 2004-01-08 09:55:20
Instrument: STIS

Google

SG - Ach... | GhoSST / search... | Marque-pages



Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Get HST images module

AMDA Plot

AMDA

manunja.cesr.fr/~richard/amda/DDHTML/HTML/Hst2Aladin.html

2004-01-08 09:43:00
2004-01-08 10:46:22
2004-01-08 11:04:42
2004-01-08 11:18:59

2004-01-10 (3)
2004-01-12 (3)
2004-01-14 (3)
2004-01-16 (3)
2004-01-18 (3)
2004-01-20 (3)
2004-01-21 (3)
2004-01-23 (3)
2004-01-24 (2)
2004-01-25 (1)
2004-01-26 (3)

2004-01-26 18:44:52
2004-01-26 19:02:32
2004-01-26 19:16:49

2004-01-28 (3)

2004-01-28 01:09:48
2004-01-28 01:27:28
2004-01-28 01:41:45

2004-01-30 (3)

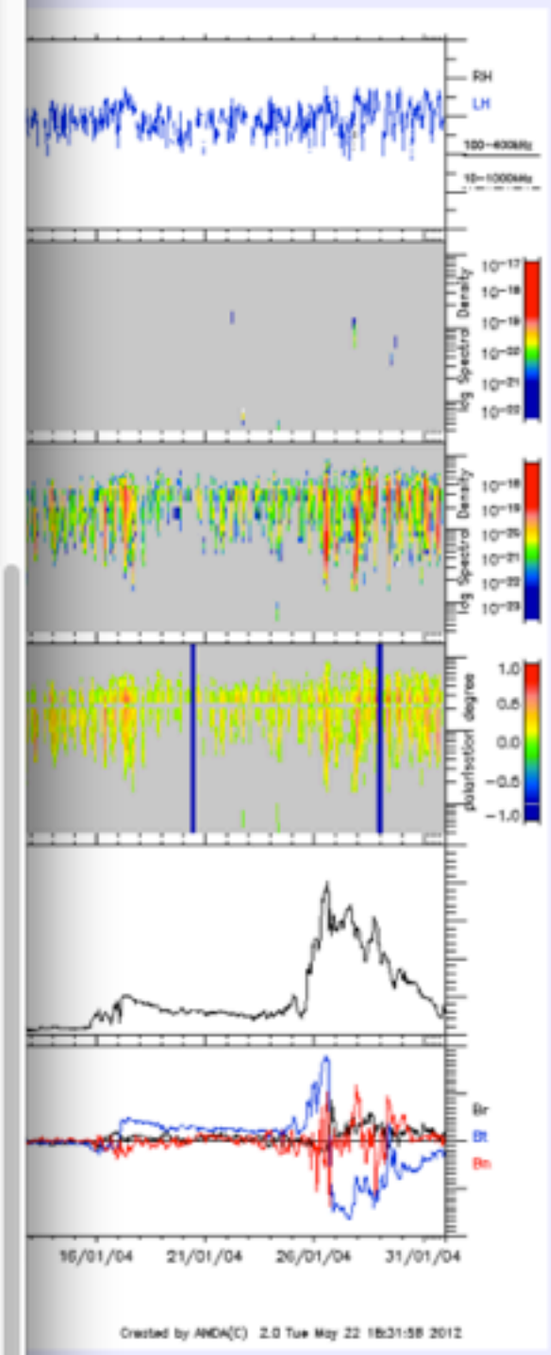
2004-01-30 18:43:39
2004-01-30 19:01:19
2004-01-30 19:15:36

Download Selected Data (fits) | Use Aladin

Aladin Commands

Google

– SG – Ach... | GhoSST / search... | Marque-pages



Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Get HST images module

AMDA Plot

AMDA

manunja.cesr.fr/~richard/amda/DDHTML/HTML/Hst2Aladin.html

2004-01-08 11:18:39

2004-01-10 (3)
2004-01-12 (3)
2004-01-14 (3)
2004-01-16 (3)
2004-01-18 (3)
2004-01-20 (3)
2004-01-21 (3)
2004-01-23 (3)
2004-01-24 (2)
2004-01-25 (1)
2004-01-26 (3)

- 2004-01-26 18:44:52
- 2004-01-26 19:02:32
- 2004-01-26 19:16:49

2004-01-28 (3)

- 2004-01-28 01:09:48
- 2004-01-28 01:27:28
- 2004-01-28 01:41:45

2004-01-30 (3)

- 2004-01-30 18:43:39
- 2004-01-30 19:01:19
- 2004-01-30 19:15:36

Download Selected Data (fits) | Use Aladin

Aladin Commands

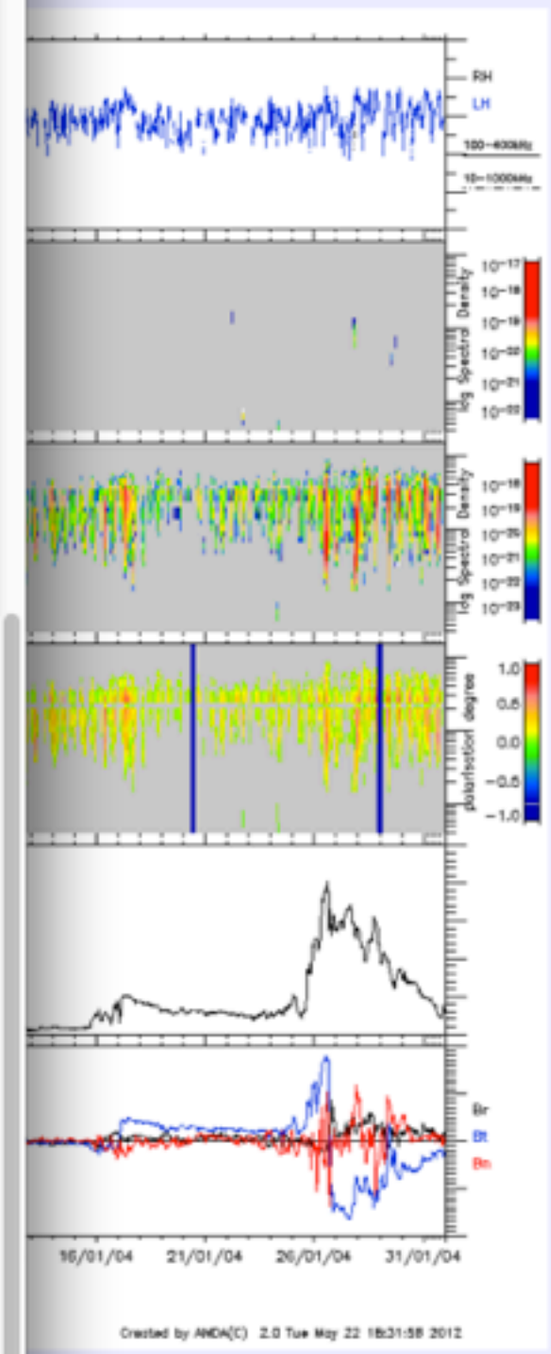
Aladin Web | connect Aladin Local | Aladin Local

Edit Script | Select Display Mode: mosaic

Aladin Script Updated

Google

SG - Ach... | GhoSST / search... | Marque-pages



Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Get HST images module

AMDA

manunja.cesr.fr/~richard/amda/DDHTML/HTML/Hst2Aladin.html

2004-01-08 11:18:39

2004-01-10 (3)
2004-01-12 (3)
2004-01-14 (3)
2004-01-16 (3)
2004-01-18 (3)
2004-01-20 (3)
2004-01-21 (3)
2004-01-23 (3)
2004-01-24 (2)
2004-01-25 (1)
2004-01-26 (3)

2004-01-26 18:44:52
2004-01-26 19:02:32
2004-01-26 19:16:49

2004-01-28 (3)

2004-01-28 01:09:48
2004-01-28 01:27:28
2004-01-28 01:41:45

2004-01-30 (3)

2004-01-30 18:43:39
2004-01-30 19:01:19
2004-01-30 19:15:36

Download Selected Data (fits) | Use Aladin

Aladin Commands

Aladin Web | disconnect Aladin | Aladin Local

Edit Script | Select Display Mode | mosaic

Aladin Script Updated

Aladin v7.0

Position | Effacer | Référentiel ICRS

Aladin Sky Atlas - v7.0

ALADIN est un atlas du ciel interactif.
et de visualiser des images digitalisées de n'importe
ie du ciel, d'y superposer des objets issus de catalogues
s, et, interactivement, d'accéder aux informations relatives.

Démarrage rapide...

mplement votre cible dans le champ de saisie ci-dessus.
(ex: M1 ou 13:29:53 +47:11:48)

Centre de Données astronomiques de Strasbourg

Aladin est développé par Pierre Fernique,
omas Boch, François Bonnarel et Anaïs Oberto.
UDS/CNRS - by CDS - Distributed under GNU GPL v3

select | dépl. | zoom | dist | phot | dessin | marq | filtre | corr. | rvb | assoc | coupe | cont | loupe | pixel | prop | suppr

om 1x

Chercher

tributed under GNU GPL v3

0 sel / 0 src 0Mo

16/01/04 21/01/04 26/01/04 31/01/04

Created by AMDA(C) 2.0 Tue May 22 18:31:58 2012

Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Get HST images module

AMDA

manunja.cesr.fr/~richard/amda/DDHTML/HTML/Hst2Aladin.html

2004-01-08 11:18:39

2004-01-10 (3)
2004-01-12 (3)
2004-01-14 (3)
2004-01-16 (3)
2004-01-18 (3)
2004-01-20 (3)
2004-01-21 (3)
2004-01-23 (3)
2004-01-24 (2)
2004-01-25 (1)
2004-01-26 (3)

- 2004-01-26 18:44:52
- 2004-01-26 19:02:32
- 2004-01-26 19:16:49

2004-01-28 (3)

- 2004-01-28 01:09:48
- 2004-01-28 01:27:28
- 2004-01-28 01:41:45

2004-01-30 (3)

- 2004-01-30 18:43:39
- 2004-01-30 19:01:19
- 2004-01-30 19:15:36

Download Selected Data (fits) | Use Aladin

Aladin Commands

Aladin Web | disconnect Aladin | Aladin Local

Edit Script | Select Display Mode: mosaic

Aladin Script Updated

Aladin v7.0

Position | Effacer | Référentiel: ICRS

2004_01_26_18_44_52 | 2004_01_26_18_44_52 | 2004_01_26_18_44_52 | 2004_01_26_19_02_32

2004_01_26_19_16_49 | 2004_01_28_01_09_48 | 2004_01_30_18_43_39 | 2004_01_30_19_01_19

2004_01_30_19_15_36

select | dépl. | zoom | dist | phot | dessin | marq | filtre | corr. | rvb | assoc | coupe | cont | loupe | pixel | prop | suppr

2004_01_30_19
2004_01_30_19
2004_01_30_18
2004_01_28_01
2004_01_26_19
2004_01_26_19
2004_01_26_18

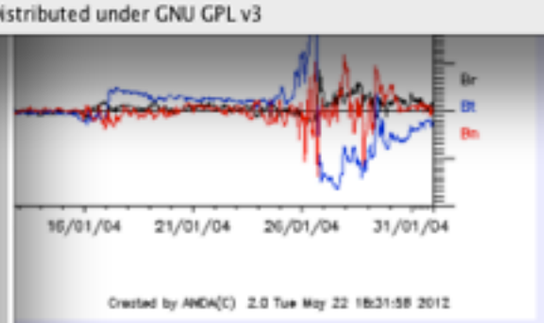
zoom: 1/8x

27.22' x 27.22'

grille | nord | multivues | unif. | [Vue D4] | Chercher

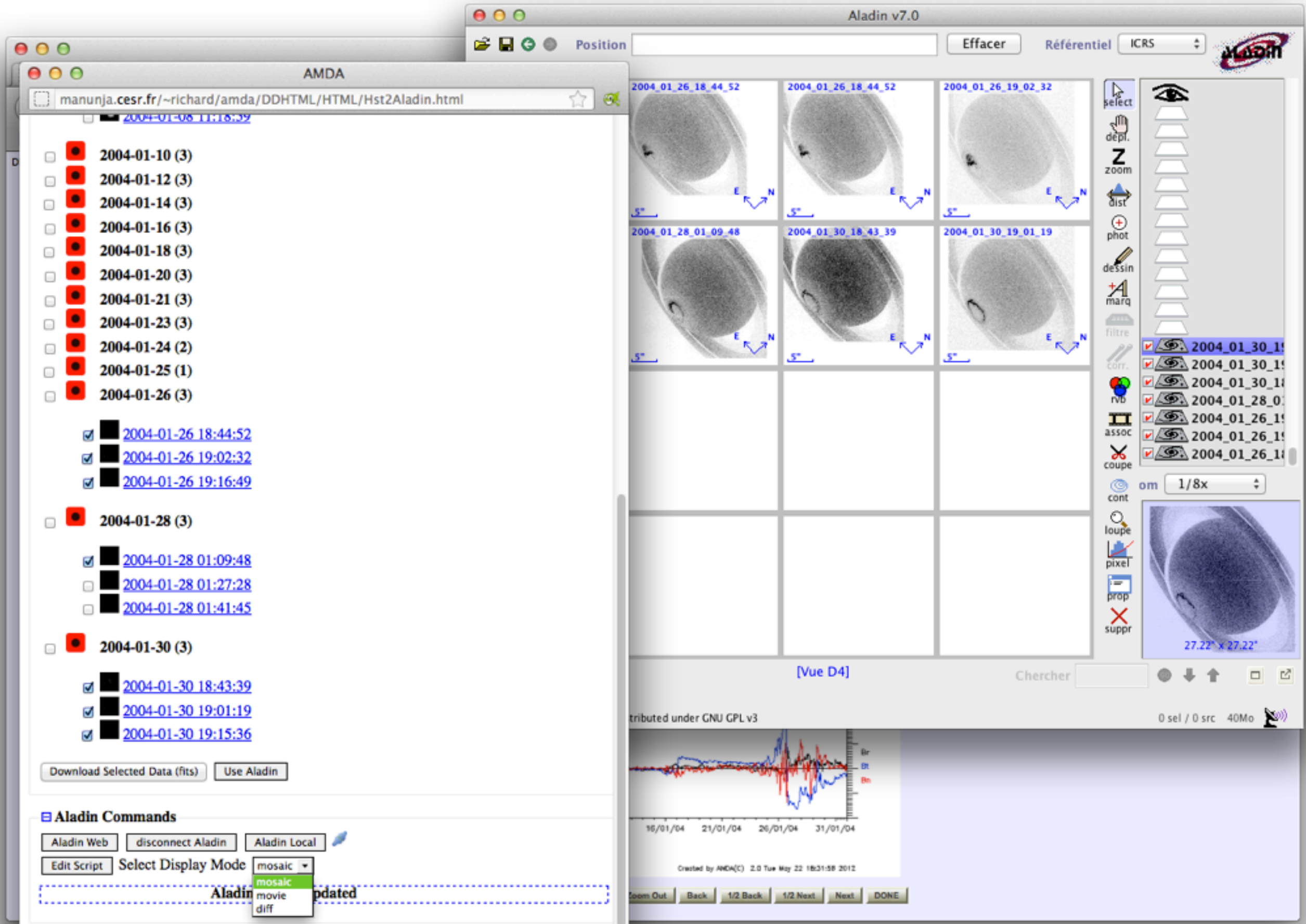
(c) 2010 UDS/CNRS - by CDS - Distributed under GNU GPL v3

0 sel / 0 src 40Mo



Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Get HST images module



AMDA: Get HST images module

AMDA

manunja.cesr.fr/~richard/amda/DDHTML/HTML/Hst2Aladin.html

2004-01-08 11:18:59

2004-01-10 (3)
2004-01-12 (3)
2004-01-14 (3)
2004-01-16 (3)
2004-01-18 (3)
2004-01-20 (3)
2004-01-21 (3)
2004-01-23 (3)
2004-01-24 (2)
2004-01-25 (1)
2004-01-26 (3)

- 2004-01-26 18:44:52
- 2004-01-26 19:02:32
- 2004-01-26 19:16:49

2004-01-28 (3)

- 2004-01-28 01:09:48
- 2004-01-28 01:27:28
- 2004-01-28 01:41:45

2004-01-30 (3)

- 2004-01-30 18:43:39
- 2004-01-30 19:01:19
- 2004-01-30 19:15:36

Download Selected Data (fits) | Use Aladin

Aladin Commands

Aladin Web | disconnect Aladin | Aladin Local

Edit Script | Select Display Mode | movie

Aladin Script Updated

Aladin v7.0

Position | Effacer | Référentiel ICRS

2004_01_26_18_44_52 | 2004_01_26_18_44_52 | 2004_01_26_19_02_32

2004_01_28_01_09_48 | 2004_01_30_18_43_39 | 2004_01_30_19_01_19

select | depl. | zoom | dist | phot | dessin | marq | filtre | corr. | rvb | assoc | coupe | cont | loupe | pixel | prop | suppr

2004_01_30_19
2004_01_30_19
2004_01_30_18
2004_01_28_01
2004_01_26_19
2004_01_26_19
2004_01_26_18

om 1/8x

27.22' x 27.22'

[Vue D4]

Chercher

tributed under GNU GPL v3

0 sel / 0 src 40Mo

16/01/04 21/01/04 26/01/04 31/01/04

Created by AMDA(C) 2.0 Tue May 22 18:31:58 2012

Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Get HST images module

AMDA

manunja.cesr.fr/~richard/amda/DDHTML/HTML/Hst2Aladin.html

2004-01-08 11:18:39

2004-01-10 (3)

2004-01-12 (3)

2004-01-14 (3)

2004-01-16 (3)

2004-01-18 (3)

2004-01-20 (3)

2004-01-21 (3)

2004-01-23 (3)

2004-01-24 (2)

2004-01-25 (1)

2004-01-26 (3)

- 2004-01-26 18:44:52
- 2004-01-26 19:02:32
- 2004-01-26 19:16:49

2004-01-28 (3)

- 2004-01-28 01:09:48
- 2004-01-28 01:27:28
- 2004-01-28 01:41:45

2004-01-30 (3)

- 2004-01-30 18:43:39
- 2004-01-30 19:01:19
- 2004-01-30 19:15:36

Download Selected Data (fits) | Use Aladin

Aladin Commands

Aladin Web | disconnect Aladin | Aladin Local

Edit Script | Select Display Mode: movie

Aladin Script Updated

Aladin v7.0

Position | Effacer | Référentiel: ICRS

2004_01_26_19_02_32

select | dépl. | zoom | dist | phot | dessin | marq | filtre | corr. | rvb | assoc | coupe | cont | loupe | pixel | prop | suppr

Blk img

2004_01_30_19

2004_01_30_19

2004_01_30_18

2004_01_28_01

2004_01_26_19

2004_01_26_19

2004_01_26_18

om 1/2x

27.22" x 27.22"

5"

31.13" x 28.95"

E N

grille | nord | multivues | unif.

Chercher

(c) 2010 UDS/CNRS - by CDS - Distributed under GNU GPL v3

0 sel / 0 src 28Mo

16/01/04 21/01/04 26/01/04 31/01/04

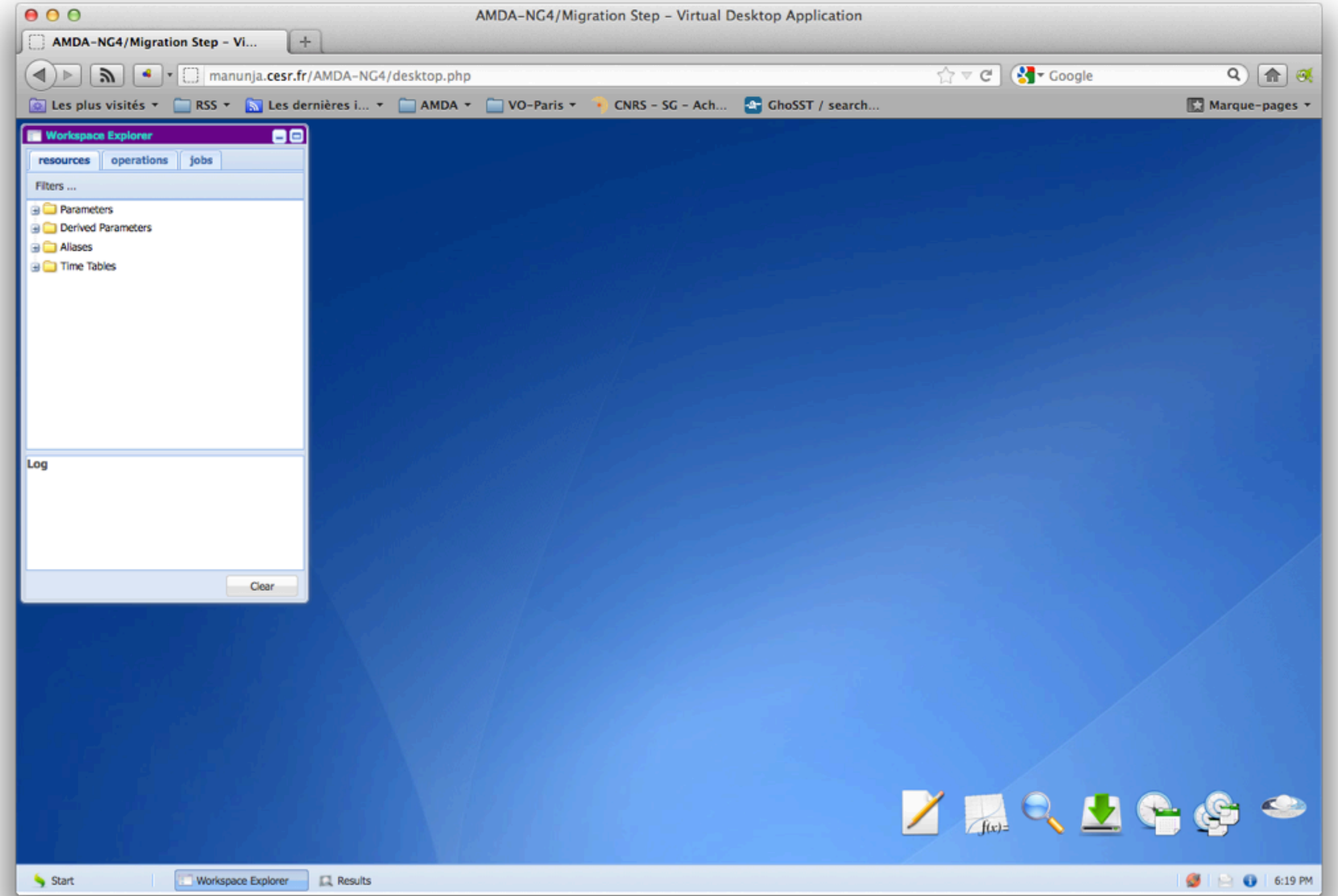
Created by ANDA(C) 2.0 Tue May 22 18:31:58 2012

Zoom Out | Back | 1/2 Back | 1/2 Next | Next | DONE

AMDA: Get HST images module

Connecting AMDA with TOPCAT

- New version: AMDA-NG under development!
- For the same science case, send the magnetic field data time series to TOPCAT.
- VOTable output added to download module (including units, ucd... for each field)



AMDA-NG: Desktop

AMDA-NG4/Migration Step – Virtual Desktop Application

AMDA-NG4/Migration Step – Vi...

manunja.cesr.fr/AMDA-NG4/desktop.php

Les plus visités | RSS | Les dernières i... | AMDA | VO-Paris | CNRS – SG – Ach... | GhoSST / search... | Marque-pages

Workspace Explorer

resources | operations | jobs

Filters ...

Parameters
- Local Data
  - ARTEMIS-P1
  - ARTEMIS-P2
  - Cassini_Public
    - ephemeris
    - RPWS
    - MAG
      - RTN_1min
      - RTN_1sec
        - b_mag

drag and drop

Log

Clear

Plot

Plot 1 | Plot 2 | Plot 3 | Plot 4 | Plot 5

Add Panel | Remove Panel

Name	Panel Properties							Parameter Arguments	Y2
	Plot Type	Height	Width	Xmin	Xmax	Ymin	Ymax	Additional	
Panel 1	TIME	0.4	1	0	0	0	0	select...	
cass_b_rtn1s									
Panel 2	TIME	0.4	1	0	0	0	0	select...	
cass_bmag_rt...									

Time Selection

Time Table | Interval

Start Time: 2004/01/01 00:00:00

Stop Time: 2004/01/11 00:00:00

	Days:	Hrs:	Mins:	Secs:
Duration:	0010	00	00	00

Plot Title:

Char Size: 1

Orientation: LANDSCAPE

Description:

Plot File Name:

Line Thickness: 1

File Format: PNG

Request Name:

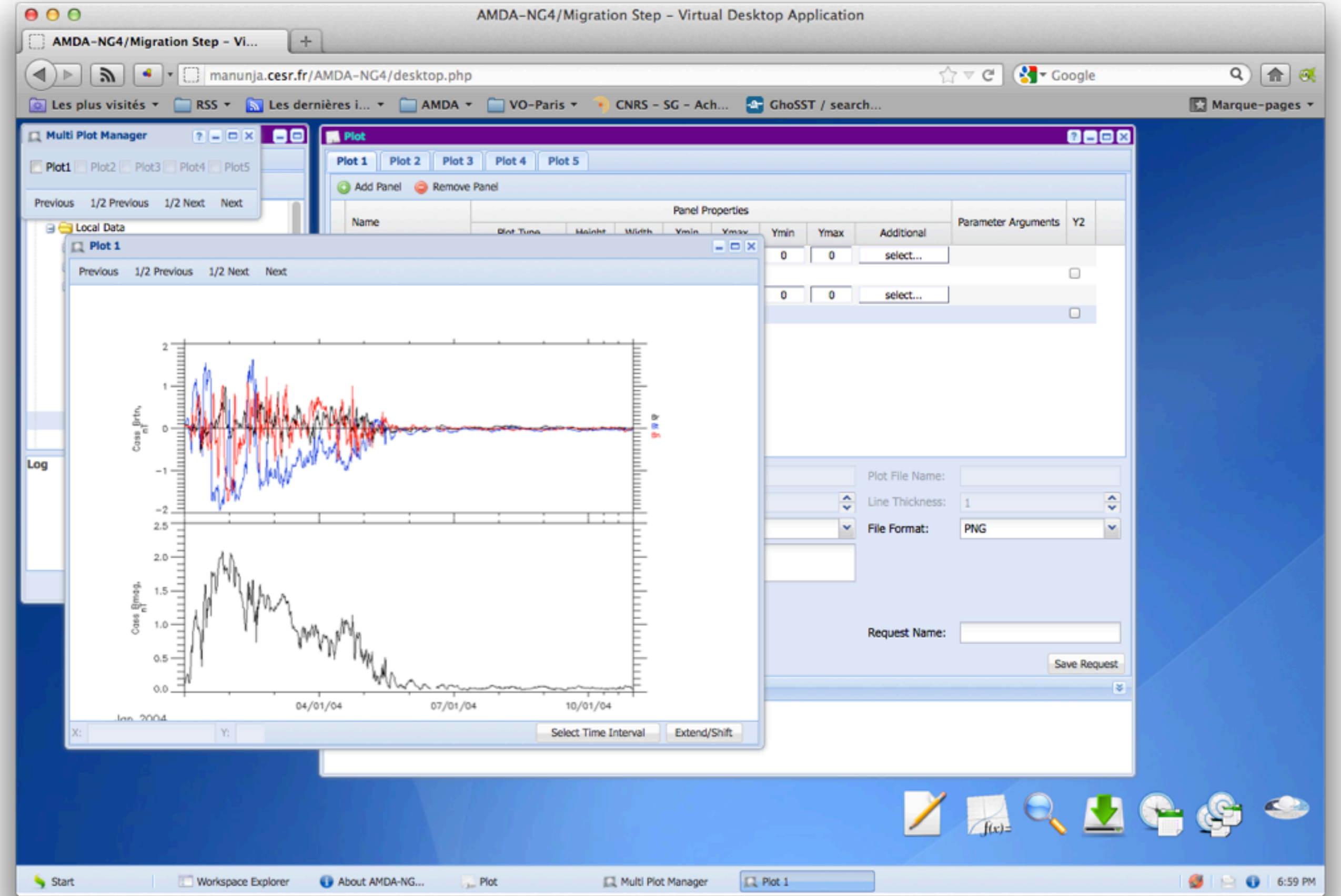
Plot | Get Data | Reset | Save Request

Information

This is info zone...

Start | Workspace Explorer | About AMDA-NG... | Plot | 6:59 PM

AMDA-NG: Plot module

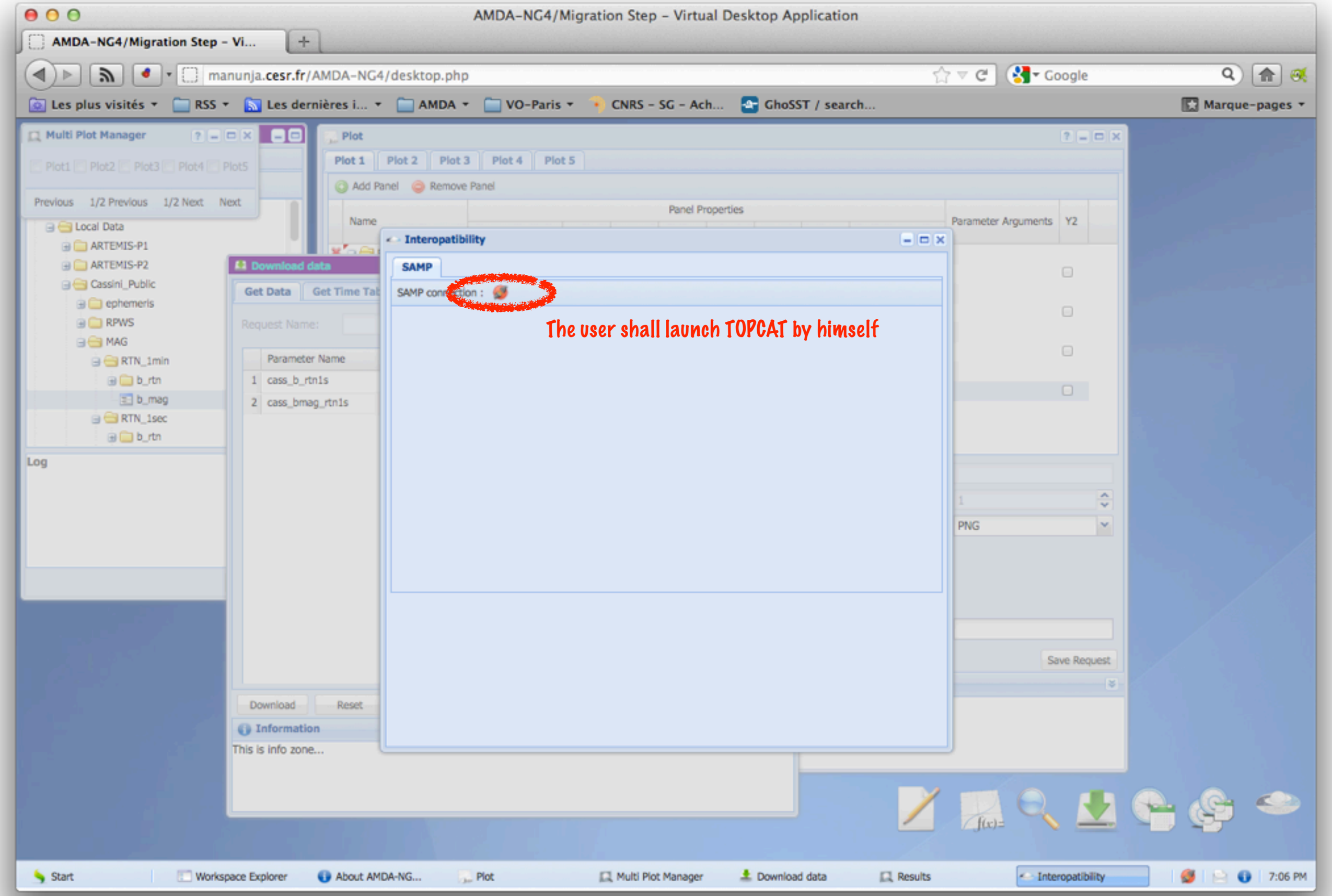


AMDA-NG: Plot Result

AMDA-NG: Download module

AMDA-NG: Download module

AMDA-NG: Download result module



AMDA-NG: Interoperability module

AMDA-NG4/Migration Step – Virtual Desktop Application

AMDA-NG4/Migration Step – Vi...

manunja.cesr.fr/AMDA-NG4/desktop.php

Les plus visités | RSS | Les dernières i... | AMDA | VO-Paris | CNRS – SG – Ach... | GhoSST / search... | Marque-pages

Multi Plot Manager

Plot1 Plot2 Plot3 Plot4 Plot5

Previous 1/2 Previous 1/2 Next Next

Local Data
ARTEMIS-P1
ARTEMIS-P2
Cassini_Public
ephemeris
RPWS
MAG
RTN_1min
b_rtn
b_mag
RTN_1sec
b_rtn

Log

Plot

Plot 1 Plot 2 Plot 3 Plot 4 Plot 5

Add Panel Remove Panel

Name | Panel Properties | Parameter Arguments | Y2

Download data

Get Data | Get Time Tab

Request Name:

	Parameter Name
1	cass_b_rtn1s
2	cass_bmag_rtn1s

Download Reset

Information

This is info zone...

Interopatibility

SAMP

SAMP connection :

Name : Hub
Identificator : hub
Description : org.astrogrid.samp.hub.HubServiceMode$2$1
Documentation : null

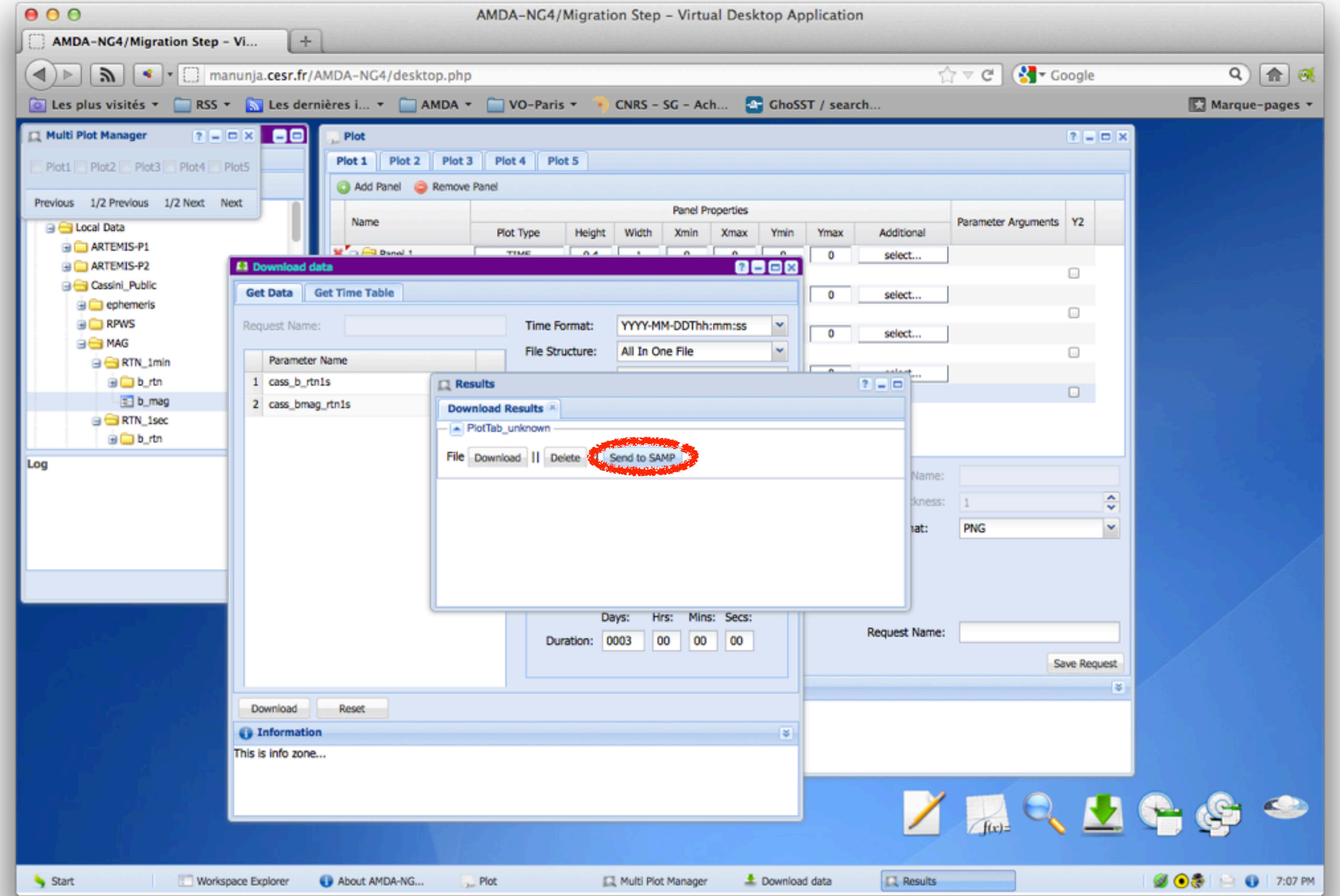
Name : topcat
Identificator : c1
Description : Tool for OPerations on Catalogues And Tables
Documentation : http://127.0.0.1:2525/doc/sun253/index.html

PNG

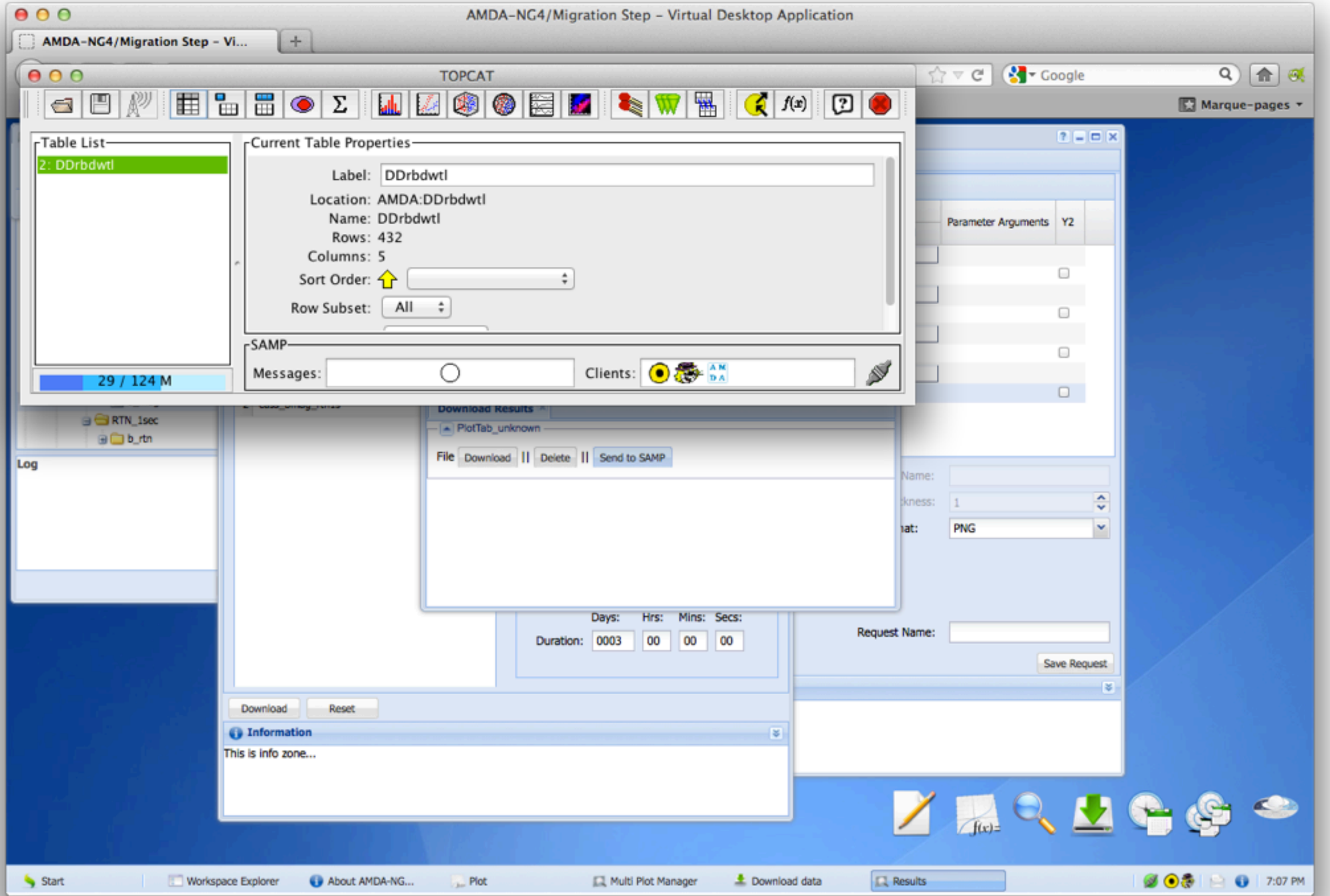
Save Request

Start | Workspace Explorer | About AMDA-NG... | Plot | Multi Plot Manager | Download data | Results | Interopatibility | 7:06 PM

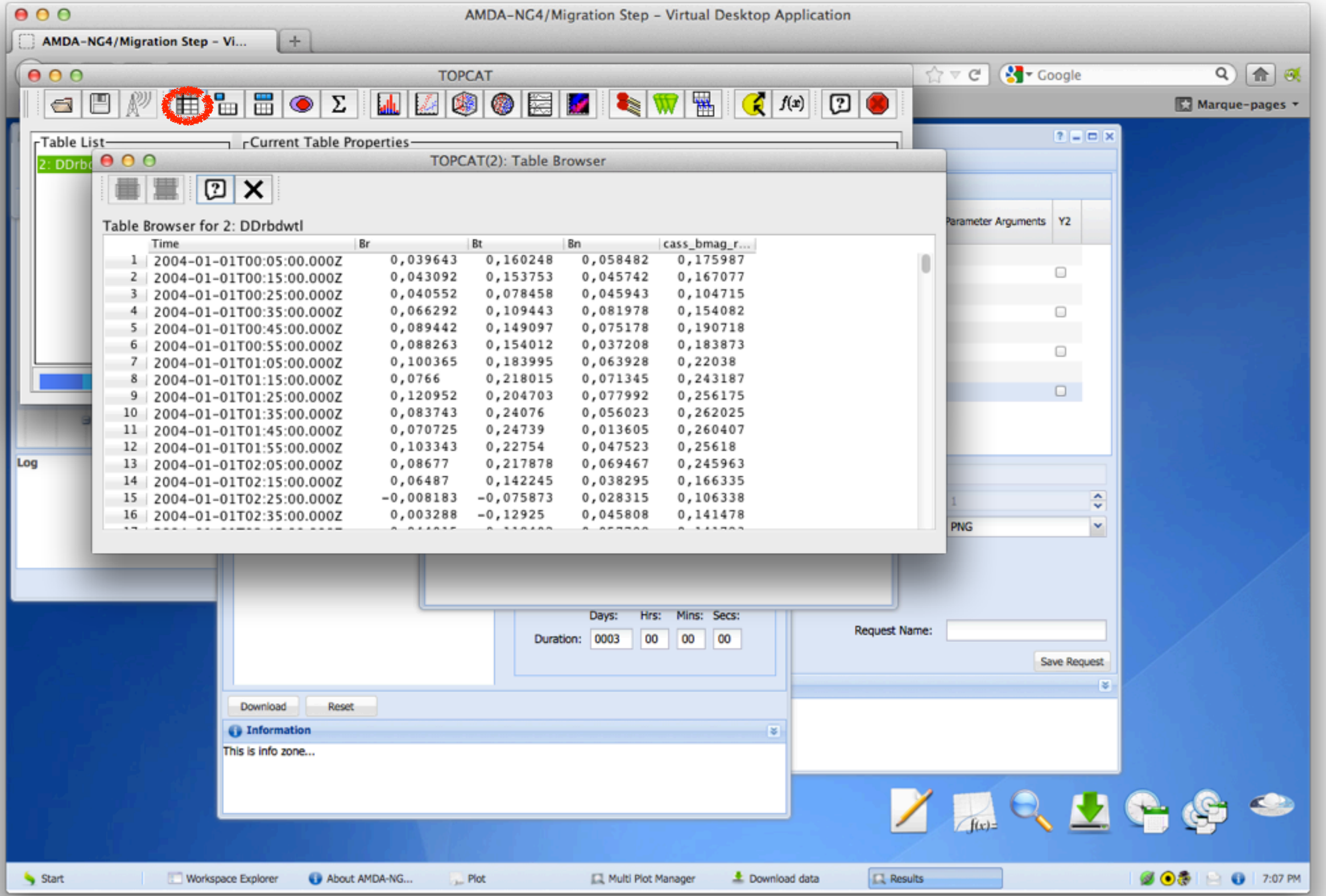
AMDA-NG: Interoperability module



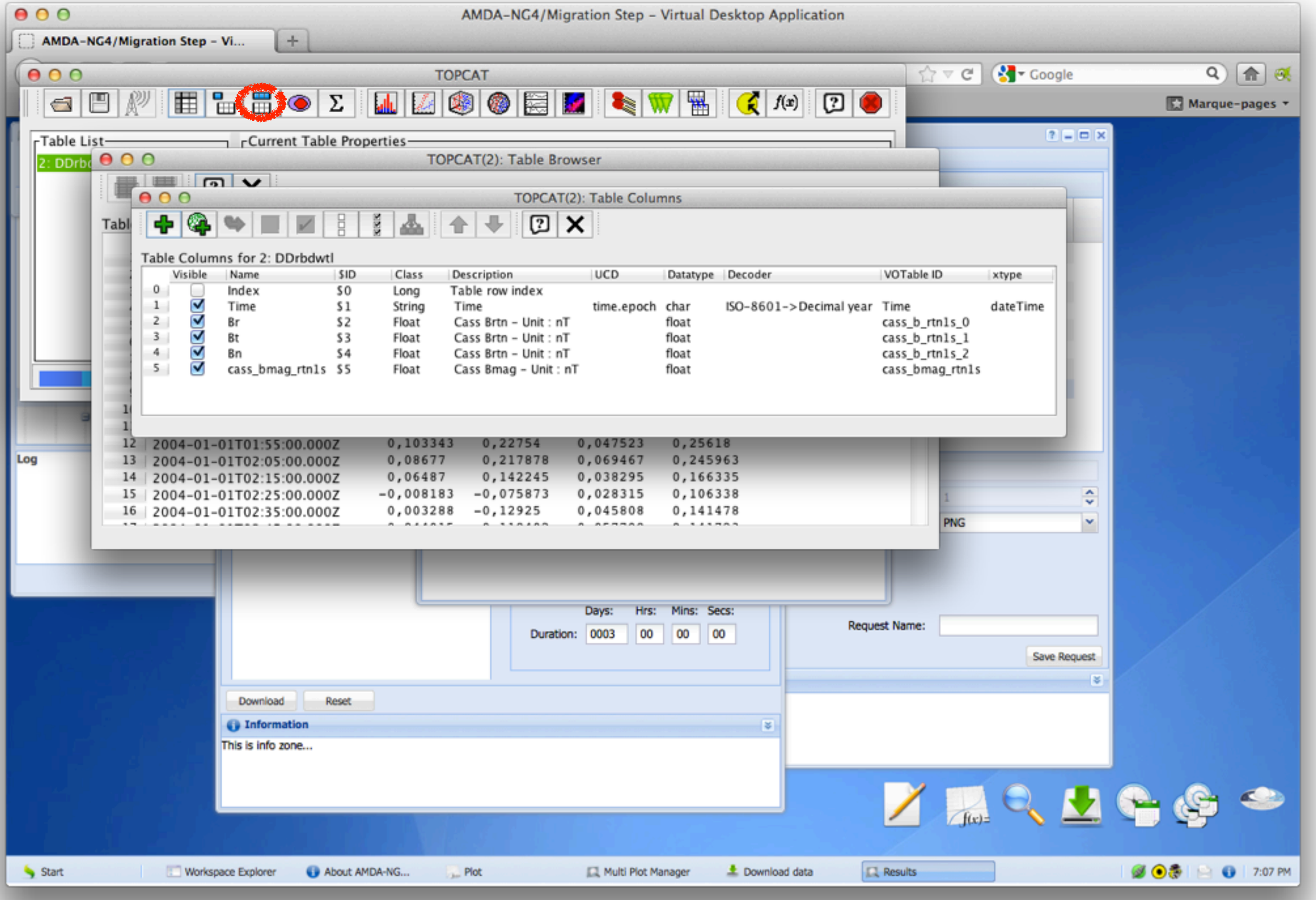
AMDA-NG: Download result module


AMDA-NG4/Migration Step - Virtual Desktop Application
AMDA-NG4/Migration Step - Vi...
TOPCAT
Table List
2: DDrbdwtl
29 / 124 M
Current Table Properties
Label: DDrbdwtl
Location: AMDA:DDrbdwtl
Name: DDrbdwtl
Rows: 432
Columns: 5
Sort Order:
Row Subset: All
SAMP
Messages:
Clients:
Google
Marque-pages
Parameter Arguments
Y2
RTN_1sec
b_rtn
Log
Download Results
PlotTab_unknown
File
Download
Delete
Send to SAMP
Name:
PNG
Days:
Hrs:
Mins:
Secs:
Duration:
0003
00
00
00
Request Name:
Save Request
Download
Reset
Information
This is info zone...
Start
Workspace Explorer
About AMDA-NG...
Plot
Multi Plot Manager
Download data
Results
7:07 PM

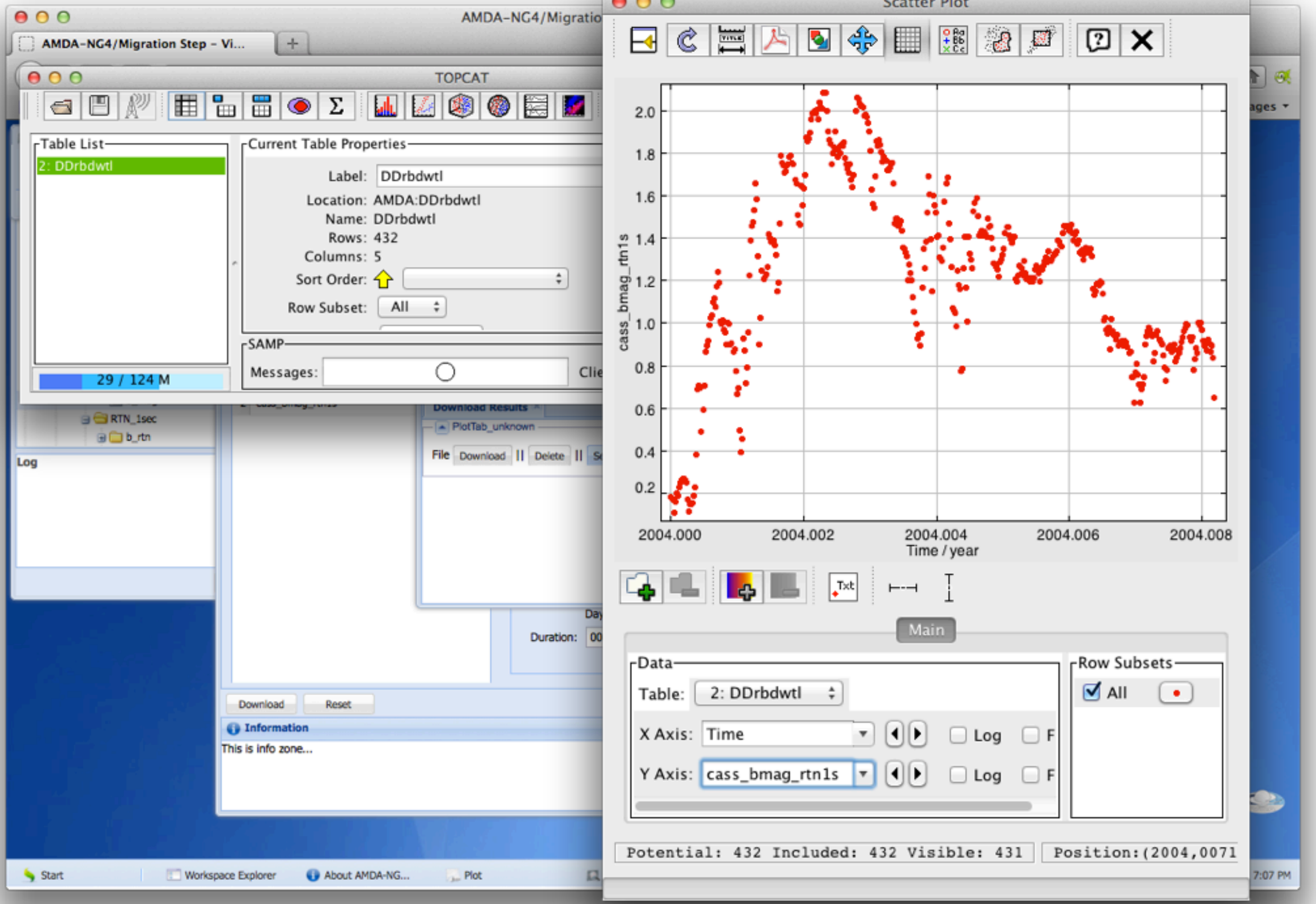
TOPCAT


AMDA-NG4/Migration Step – Virtual Desktop Application
AMDA-NG4/Migration Step - Vi...
TOPCAT
Table List
Current Table Properties
2: DDrbd
TOPCAT(2): Table Browser
Table Browser for 2: DDrbdwtl
Time Br Bt Bn cass_bmag_r...
1 2004-01-01T00:05:00.000Z 0,039643 0,160248 0,058482 0,175987
2 2004-01-01T00:15:00.000Z 0,043092 0,153753 0,045742 0,167077
3 2004-01-01T00:25:00.000Z 0,040552 0,078458 0,045943 0,104715
4 2004-01-01T00:35:00.000Z 0,066292 0,109443 0,081978 0,154082
5 2004-01-01T00:45:00.000Z 0,089442 0,149097 0,075178 0,190718
6 2004-01-01T00:55:00.000Z 0,088263 0,154012 0,037208 0,183873
7 2004-01-01T01:05:00.000Z 0,100365 0,183995 0,063928 0,22038
8 2004-01-01T01:15:00.000Z 0,0766 0,218015 0,071345 0,243187
9 2004-01-01T01:25:00.000Z 0,120952 0,204703 0,077992 0,256175
10 2004-01-01T01:35:00.000Z 0,083743 0,24076 0,056023 0,262025
11 2004-01-01T01:45:00.000Z 0,070725 0,24739 0,013605 0,260407
12 2004-01-01T01:55:00.000Z 0,103343 0,22754 0,047523 0,25618
13 2004-01-01T02:05:00.000Z 0,08677 0,217878 0,069467 0,245963
14 2004-01-01T02:15:00.000Z 0,06487 0,142245 0,038295 0,166335
15 2004-01-01T02:25:00.000Z -0,008183 -0,075873 0,028315 0,106338
16 2004-01-01T02:35:00.000Z 0,003288 -0,12925 0,045808 0,141478
Parameter Arguments
Y2
PNG
Days: Hrs: Mins: Secs:
Duration: 0003 00 00 00
Request Name:
Save Request
Download
Reset
Information
This is info zone...
Log
Start
Workspace Explorer
About AMDA-NG...
Plot
Multi Plot Manager
Download data
Results
7:07 PM

TOPCAT


AMDA-NG4/Migration Step - Virtual Desktop Application
AMDA-NG4/Migration Step - Vi...
TOPCAT
Table List
Current Table Properties
TOPCAT(2): Table Browser
TOPCAT(2): Table Columns
Table Columns for 2: DDrbdwtl
Visible | Name | $ID | Class | Description | UCD | Datatype | Decoder | VOTable ID | xtype
0 | Index | $0 | Long | Table row index
1 | Time | $1 | String | Time | time.epoch | char | ISO-8601->Decimal year | Time | dateTime
2 | Br | $2 | Float | Cass Brtn - Unit : nT | float | cass_b_rtn1s_0
3 | Bt | $3 | Float | Cass Brtn - Unit : nT | float | cass_b_rtn1s_1
4 | Bn | $4 | Float | Cass Brtn - Unit : nT | float | cass_b_rtn1s_2
5 | cass_bmag_rtn1s | $5 | Float | Cass Bmag - Unit : nT | float | cass_bmag_rtn1s
12 | 2004-01-01T01:55:00.000Z | 0,103343 | 0,22754 | 0,047523 | 0,25618
13 | 2004-01-01T02:05:00.000Z | 0,08677 | 0,217878 | 0,069467 | 0,245963
14 | 2004-01-01T02:15:00.000Z | 0,06487 | 0,142245 | 0,038295 | 0,166335
15 | 2004-01-01T02:25:00.000Z | -0,008183 | -0,075873 | 0,028315 | 0,106338
16 | 2004-01-01T02:35:00.000Z | 0,003288 | -0,12925 | 0,045808 | 0,141478
Days: Hrs: Mins: Secs:
Duration: 0003 00 00 00
Request Name:
Save Request
Download
Reset
Information
This is info zone...
PNG
Start
Workspace Explorer
About AMDA-NG...
Plot
Multi Plot Manager
Download data
Results
7:07 PM

TOPCAT


AMDA-NG4/Migration Step - Vi...
TOPCAT
Table List
2: DDrbdwtl
29 / 124 M
Current Table Properties
Label: DDrbdwtl
Location: AMDA:DDrbdwtl
Name: DDrbdwtl
Rows: 432
Columns: 5
Sort Order:
Row Subset: All
SAMP
Messages:
RTN_1sec
b_rtn
Log
Download Results
PlotTab_unknown
File Download || Delete ||
Duration:
Download
Reset
Information
This is info zone...
Start
Workspace Explorer
About AMDA-NG...
Plot
7:07 PM
Scatter Plot
cass_bmag_rtn1s
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
2004.000
2004.002
2004.004
2004.006
2004.008
Time / year
Txt
Main
Data
Table: 2: DDrbdwtl
X Axis: Time
Log
F
Y Axis: cass_bmag_rtn1s
Log
F
Row Subsets
All
Potential: 432 Included: 432 Visible: 431
Position:(2004,0071

TOPCAT

AMDA-NG4/Migration S

AMDA-NG4/Migration Step - Vi...

TOPCAT

Table List

2: DDrbdwtl

29 / 124 M

Current Table Properties

Label: DDrbdwtl

Location: AMDA:DDrbdwtl

Name: DDrbdwtl

Rows: 432

Columns: 5

Sort Order:

Row Subset: All

SAMP

Messages:

Clients

RTN_1sec

b_rtn

Log

Download Results

PlotTab_unknown

File Download || Delete || Send

Days:

Duration: 0003

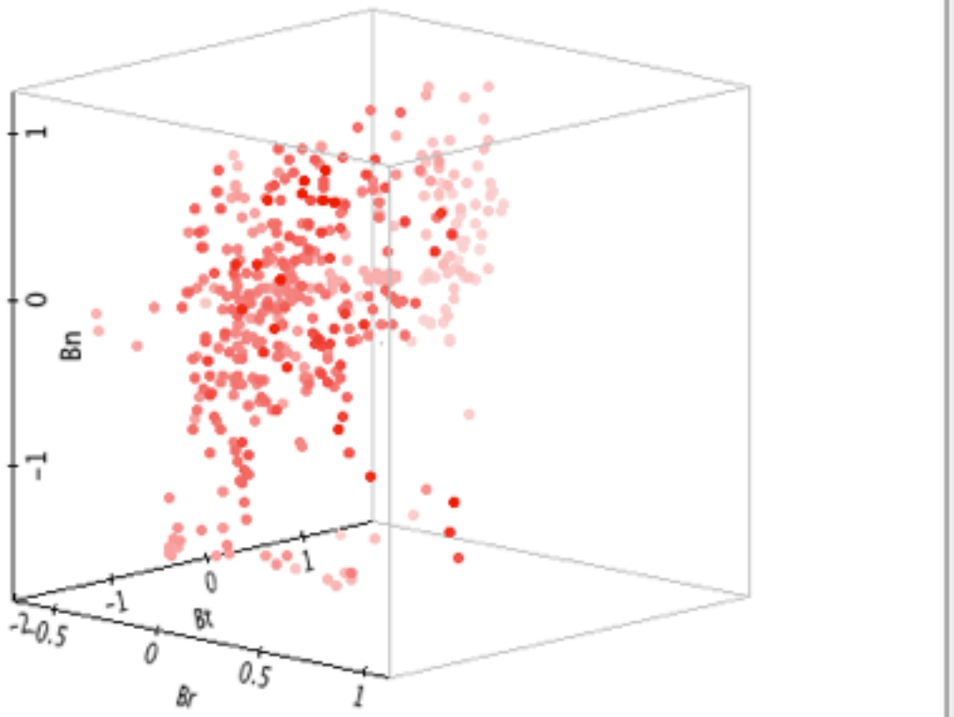
Download Reset

Information

This is info zone...

Start Workspace Explorer About AMDA-NG... Plot

3D



Txt

Main

Data

Table: 2: DDrbdwtl

X Axis: Br Log Flip

Y Axis: Bt Log Flip

Z Axis: Bn Log Flip

Row Subsets

All

Potential: 432 Included: 432 Visible: 431

TOPCAT