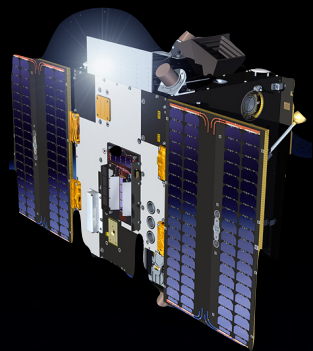




PROBA2 SCIENCE CENTER

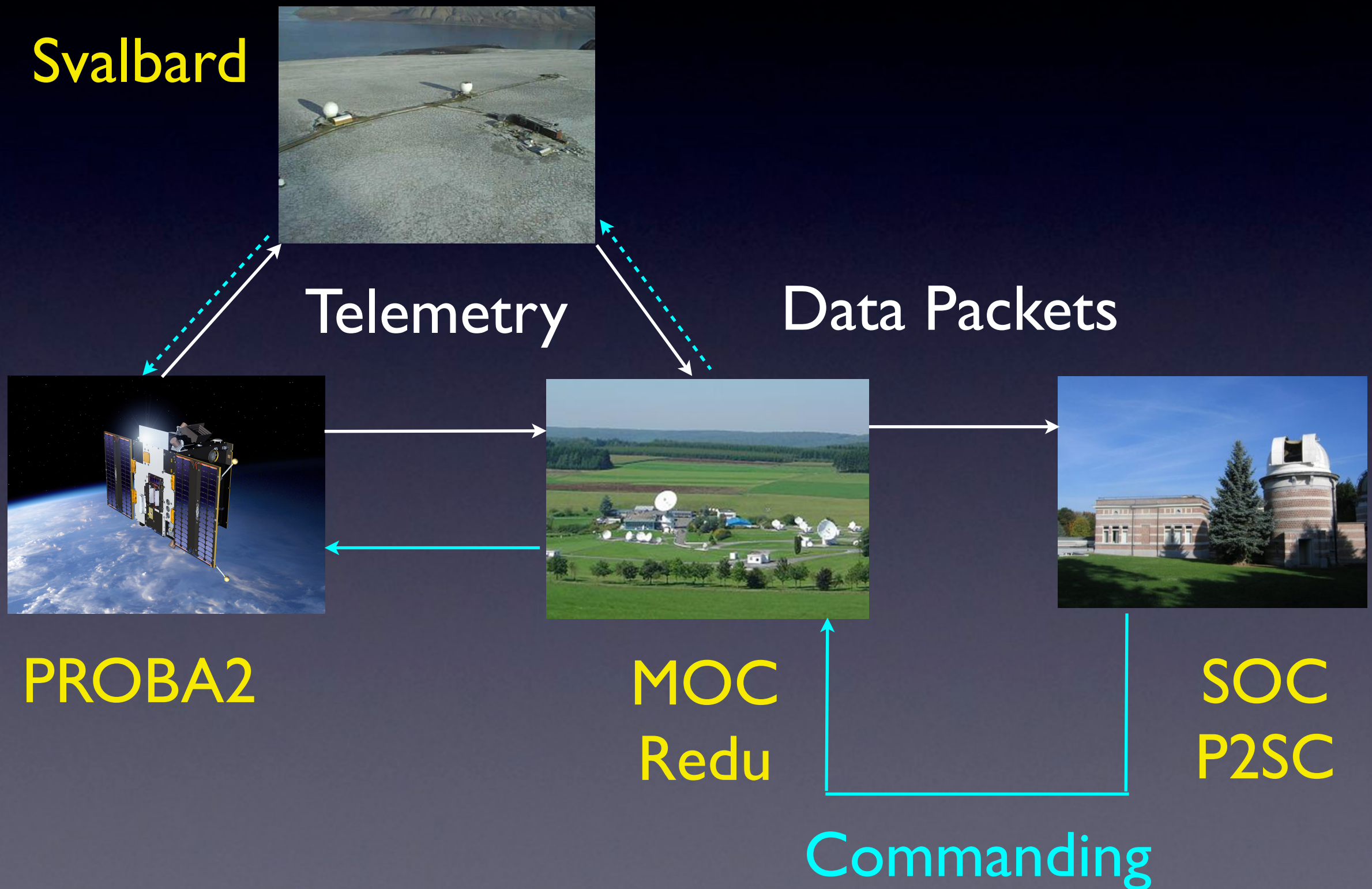
Anik De Groof & P2SC team
ESA
Royal Observatory of Belgium



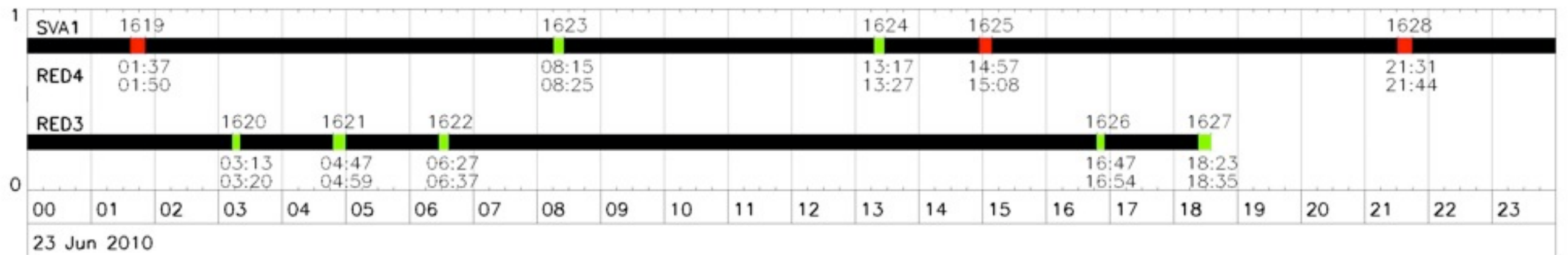
PROBA2 Science Center

- Located in Royal Observatory of Belgium
- Receives and stores the spacecraft telemetry from the Mission Operations Center in Redu (B)
- Reformats this telemetry to SWAP and LYRA science products
- Distributes LYRA and SWAP science data
- Provides interfaces to monitor the processing of the data and to plan and command the activities of SWAP & LYRA

Telemetry & Data



Telemetry & Data



9-10 passes per day, spread over 2 ground stations

Data reach the P2SC ~30 min after the contact

Telemetry & Data

LYRA

1575

SVA1

2010.06.18T09:43:13.000

LYRA_AD_2010_06_18_09_28_55_PAVING_LARGE_ANGLE_ROTATION_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_29_02_AOCS_CONTROL_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_29_11_SYS_STAT_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_29_21_AOCS_ORB_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_29_26_AOCS_ATTITUDE_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_29_34_ESP_HK_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_29_45_TEMPERATURES_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_29_51_CURRENT_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_30_05_PAYLOAD_STATES_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_30_11_LYRA_CMD_HK_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_30_19_LYRA_STORES_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_30_24_SWAP_HK_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_30_32_TIME_PAIR_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_30_36_ASW_TIME_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

LYRA_AD_2010_06_18_09_30_40_LYRA_CAL_HK_Ancillary_Data_2010.06.18T07.30.59.000000_2010.06.18T09.21.08.000000.log

3 types of TAR files, sent over SFTP:
Ancillary Data
SWAP & LYRA data packets

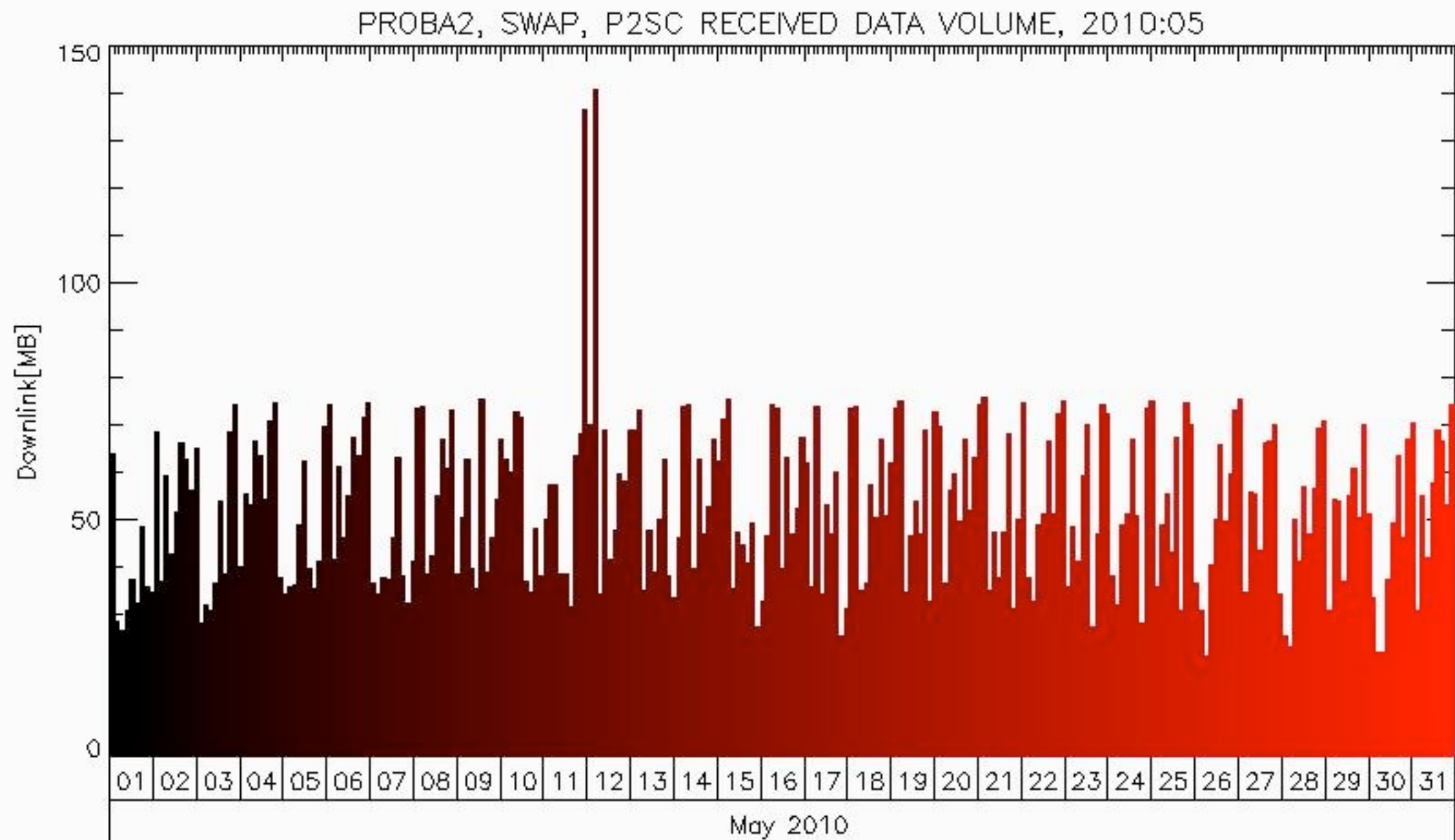
Telemetry & Data

```
LYRA
15 LYRA
S 1575
20 SVA1
LY 2010.06.18T09:43:12.000
LY BINLYRA201006180731040001489732RAW_____0000797464
LY BINLYRA201006180731540001489733RAW_____0000798466
LY BINLYRA201006180733350001489734RAW_____0000800470
LY BINLYRA201006180734250001489735RAW_____0000801472
LY BINLYRA201006180735150001489736RAW_____0000802474
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LY BINLYRA201006180737460001489739RAW_____0000805480
LY BINLYRA201006180738360001489740RAW_____0000806482
LY BINLYRA201006180739260001489741RAW_____0000807484
LY BINLYRA201006180740160001489742RAW_____0000808486
LY BINLYRA201006180741060001489743RAW_____0000809488
LY BINLYRA201006180741560001489744RAW_____0000810490
LY BINLYRA201006180742460001489745RAW_____0000811492
LY BINLYRA201006180743360001489746RAW_____0000812494
```

```
SWAP
1575
SVA1
y_Da 2010.06.18T09:43:13.000
T07.3 BINSWAP201006180744280000091449PROCESSED
59.00 BINSWAP201006180749280000091450PROCESSED
0.59.1 BINSWAP201006180754280000091451PROCESSED
T07.3 BINSWAP201006180759280000091452PROCESSED
.000 BINSWAP201006180804280000091453PROCESSED
T07.3 BINSWAP201006180809280000091454PROCESSED
59.00 BINSWAP201006180814280000091455PROCESSED
BT07 BINSWAP201006180819280000091456PROCESSED
7.30 BINSWAP201006180824280000091457PROCESSED
7.30 BINSWAP201006180829280000091458PROCESSED
59.00 BINSWAP201006180834280000091459PROCESSED
59.0 BINSWAP201006180839280000091460PROCESSED
7.30 BINSWAP201006180844280000091461PROCESSED
BINSWAP201006180849280000091462PROCESSED
BINSWAP201006180854280000091463PROCESSED
```

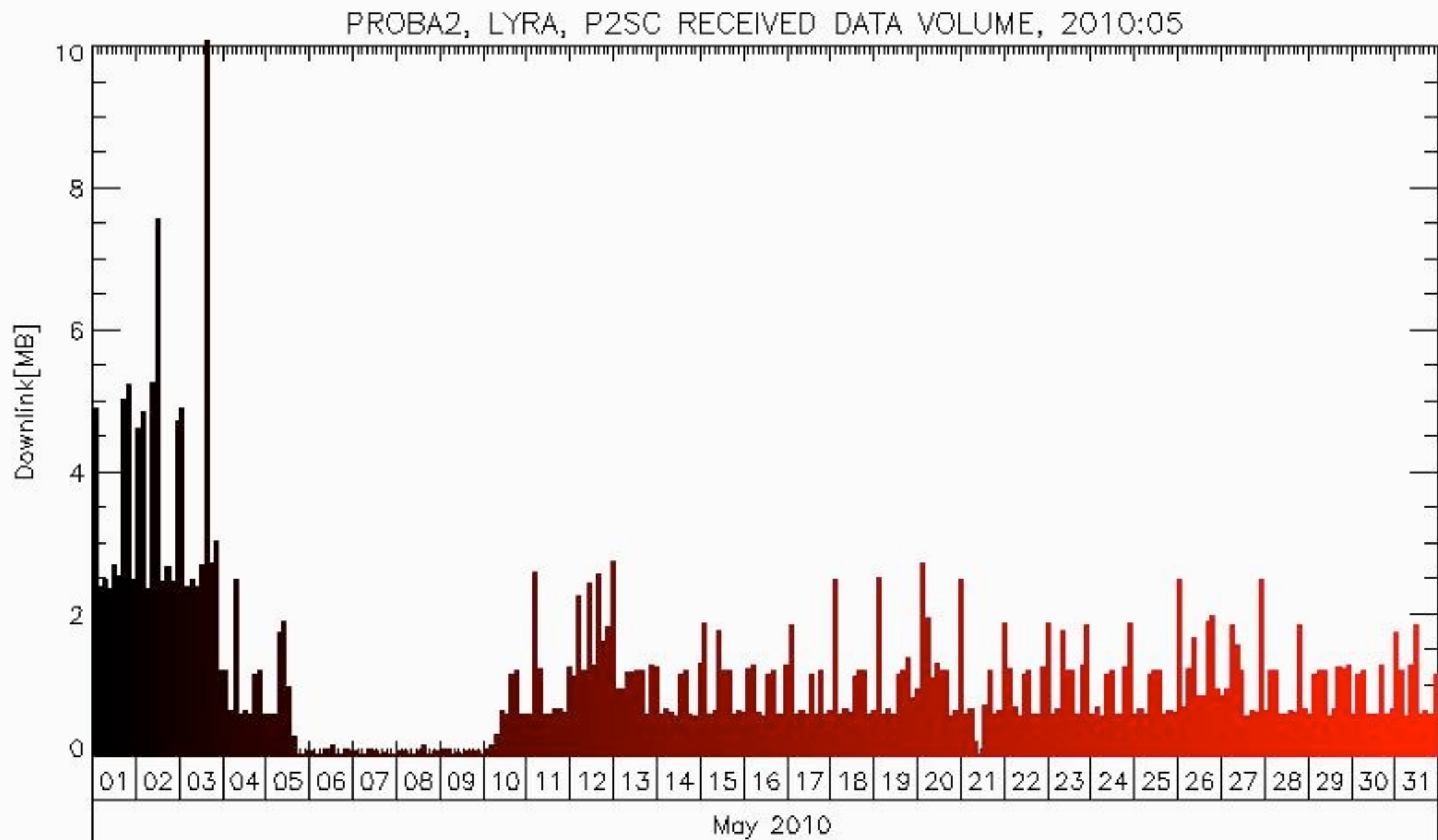
3 types of TAR files, sent over SFTP:
Ancillary Data
SWAP & LYRA data packets

Telemetry & Data



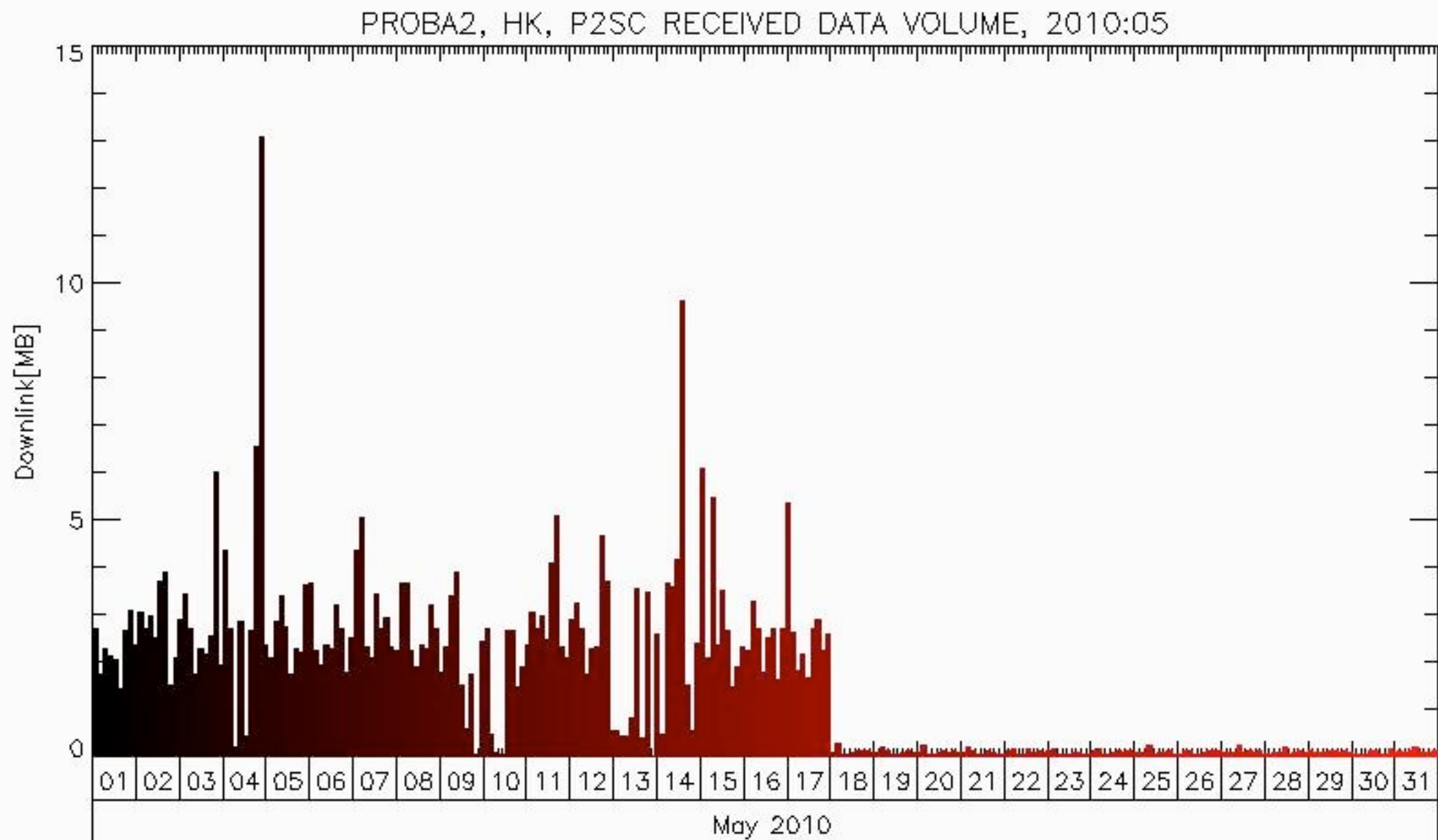
Received data volume May 2010: 30-70MB per pass

Telemetry & Data



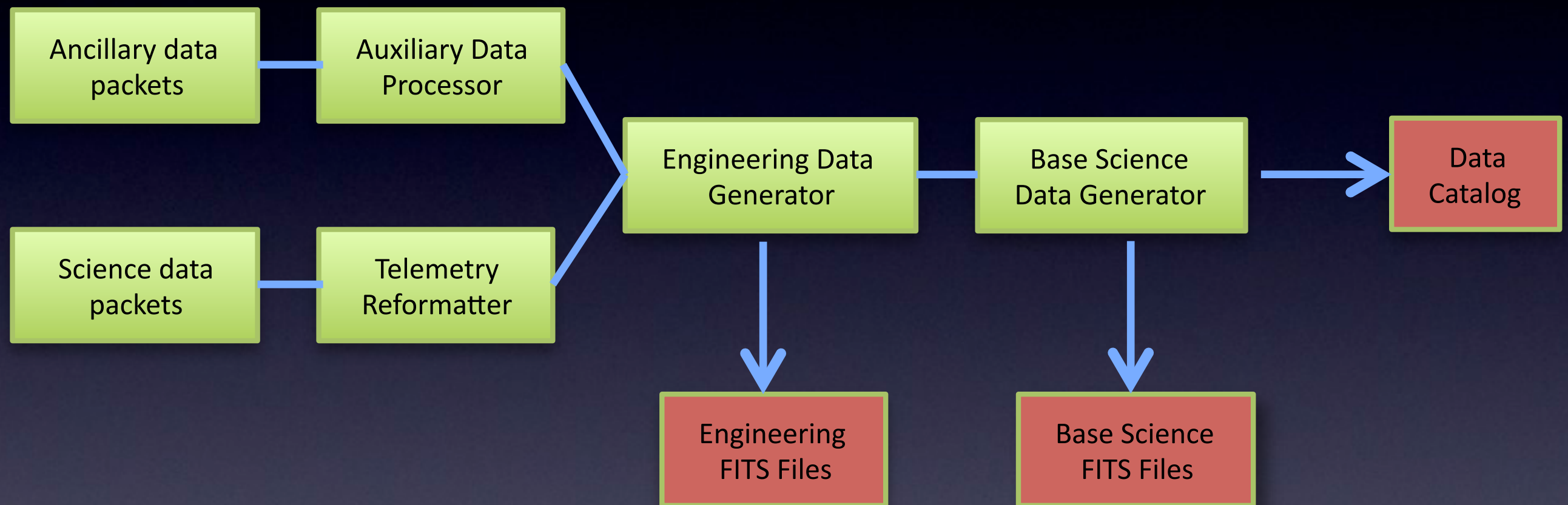
Received data volume May 2010: 30-70MB per pass

Telemetry & Data



Received data volume May 2010: 30-70MB per pass

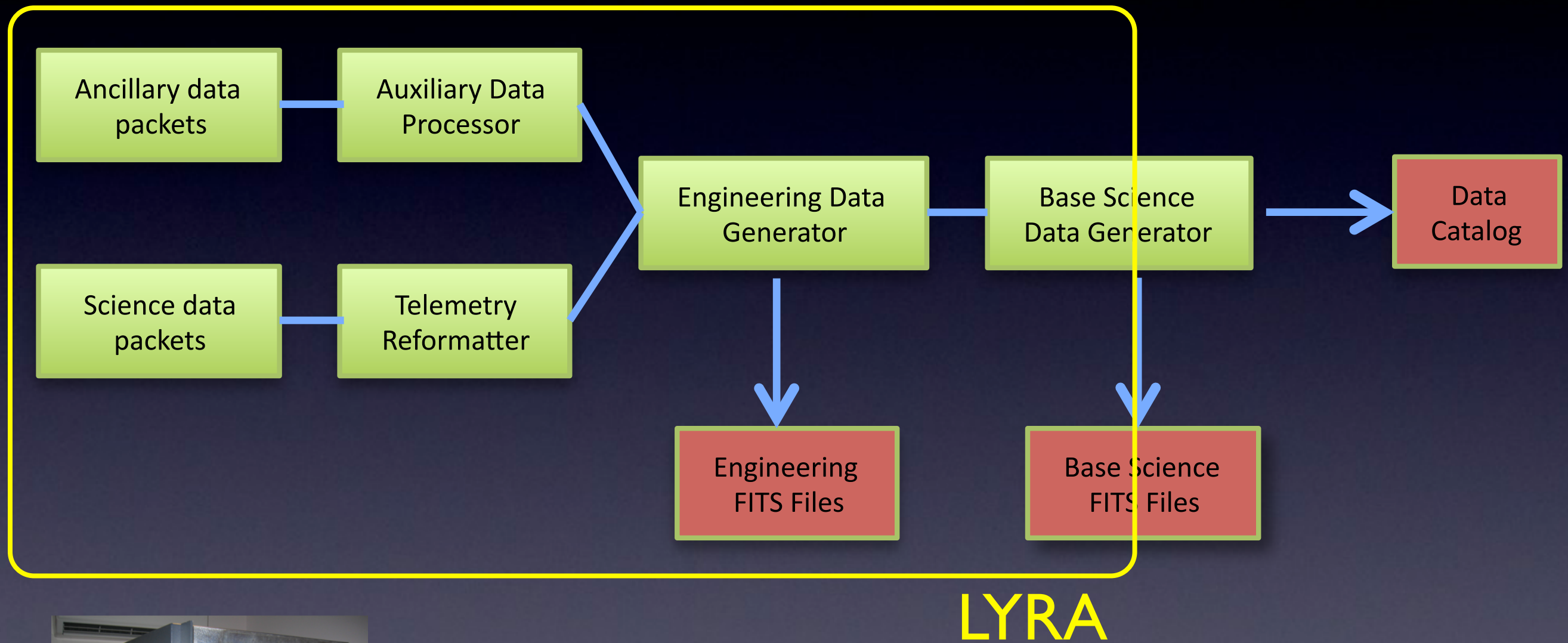
Data Processing



P2SC servers at ROB

Data online ~30mins after reception

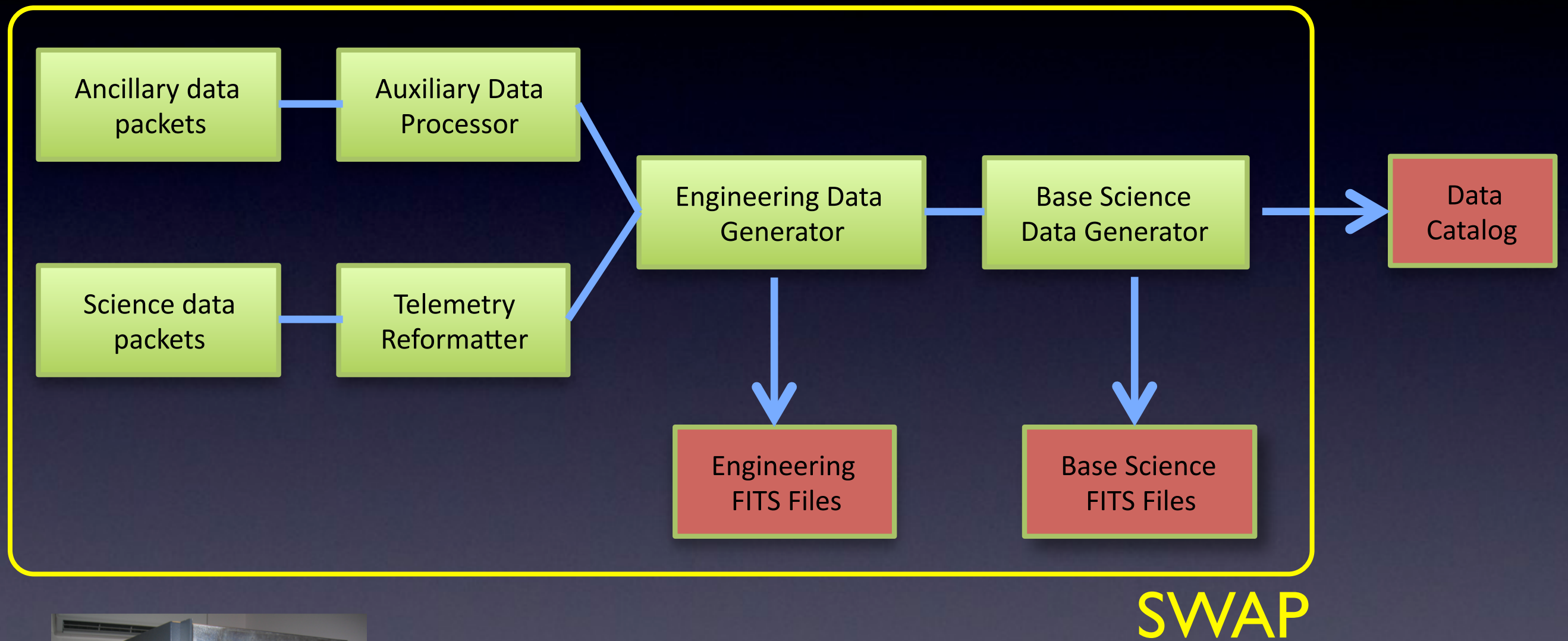
Data Processing



P2SC servers at ROB

Data online ~30mins after reception

Data Processing



P2SC servers at ROB

Data online ~30mins after reception

Data Distribution

Safari File Edit View History Bookmarks Window Help [PROBA2 SCIENCE CENTER] : Data

http://proba2.sidc.be/index.html/Data-download/ RSS Google

P2SC NICT NASA SW Viewer RWCWDC - Wiki Solar Weather Forecast SSA Solar-TERre...s web page SOTERIA - Wiki ROB STCE ESWW - Wiki SIDC Popular



Home About SWAP LYRA **Data** Community Meetings Outreach Gallery OK Last update: 11th of June 2010

Home page » Data

Data

SWAP & LYRA Data Distribution

Raw PROBA2 data will be received at ESA's ground station in Redu and transferred to the PROBA2 Science Center (P2SC) via ftp link. Once received by the P2SC, data will be automatically processed, calibrated, and prepared for public distribution. All data will be freely available to the public as soon as processing is complete and will be distributed on the web at this page.

PROBA2 has now begun its scientific mission and the data of SWAP and LYRA are freely available. Apart from the quicklook images, we are happy to announce the beta data release of the science data products.

For the time being we have online the following FITS files and quicklook PNG files in YYYY/MM/DD directories:

- SWAP raw images, i.e. level0 data, e.g. <http://proba2.oma.be/swap/data/eng/2010/05/01/>
- SWAP calibrated images, i.e. level1 data e.g. <http://proba2.oma.be/swap/data/bsd/2010/05/01/>
- SWAP quicklook data (png files), e.g. <http://proba2.sidc.be/swap/data/qlviewer/2010/05/01/>
- LYRA raw 'standard' time curves, i.e. level1 data, e.g. <http://proba2.oma.be/lyra/data/eng/2010/05/01/>
- LYRA 3-day quicklooks of the uncalibrated data from channels 17-50 nm and 1-20 nm
- LYRA daily quicklooks of uncalibrated data from all four channels averaged over 1 min, at
- LYRA daily quicklooks of data from all four channels averaged over 1 min and cross-calibrated with SORCE/SOLSTICE and TIMED/SEE

User manuals are still under construction but the first information can be found [here](#) for SWAP and [here](#) for LYRA.

In addition, a list of flares derived from LYRA data is available [here](#).

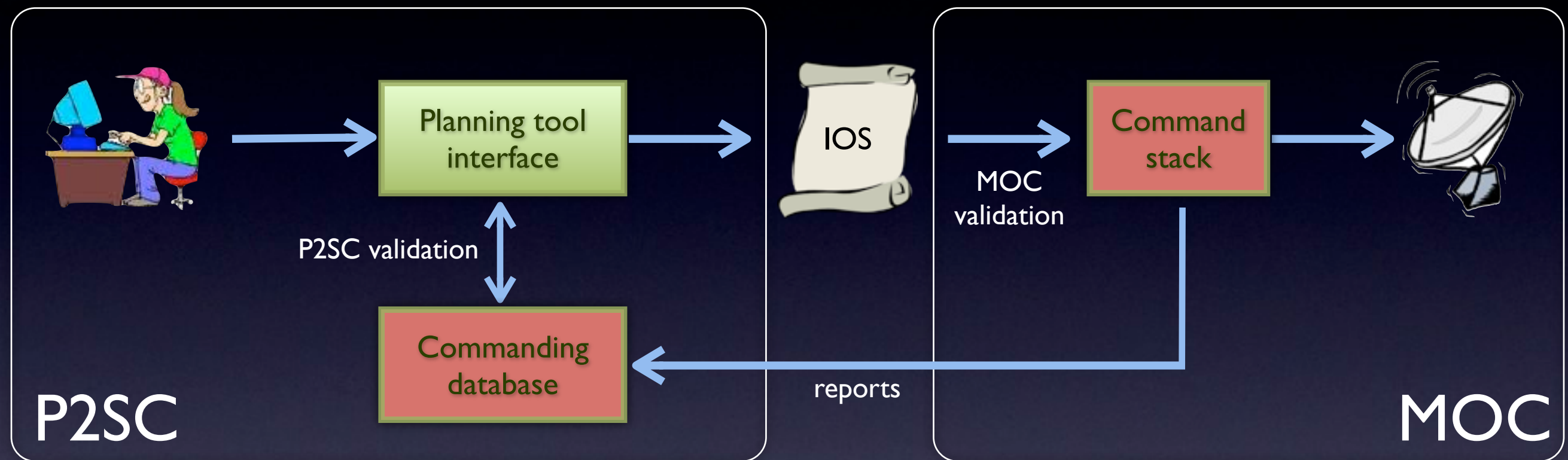
Home page | contact | Site Map | Sign In

<http://proba2.sidc.be>

Planning & Commanding

- Long term planning: science strategy on payload usage and special events
→ STOWG meetings & Google calendar
- Mid term planning: SWAP and LYRA observation plans with other spacecraft activities
→ STOWG telecons
- Weekly planning: preparation of Instrument Operation Sheets for several days
→ internal communication (swap_lyra@sidc.be) & email/tel with Redu

Commanding



SWAP and LYRA are commanded from the P2SC

Complete pipeline is highly automated

Last minute commanding is possible (solar events!)

Commanding

```
SWAP
00123
2010.06.10T15:00:06.000
2010.06.10T18:09:30.000
# generated on 2010-06-10T15:00:06Z by ios.xsl version 1.1
2010.06.10T18:10:00.000 idle
2010.06.10T18:10:10.000 data_management on 10 off fixed 10 3600 jpeg 0 on float 128 8 off on 255 off
2010.06.10T18:10:20.000 acquisition_configuration correlated_double_sampling 10 0 0 1023 1023 59 1
led_off 120 30 12bits 0.0015 -0.0015
2010.06.10T18:10:30.000 table_configuration 3
0 10 0 0 1023 1023 1 100 0.0015 -0.0015 off 255
1 10 0 0 1023 1023 1 100 0.0015 -0.0015 off 254
2 10 0 0 1023 1023 1 100 0.0015 -0.0015 off 253
2010.06.10T18:10:40.000 table_acquisition 0 3
2010.06.11T03:00:00.000 table_configuration 3
0 10 0 0 1023 1023 1 100 0.0 0.0 off 255
1 10 0 0 1023 1023 1 100 0.0 0.0 off 254
2 10 0 0 1023 1023 1 100 0.0 0.0 off 253
2010.06.11T03:00:10.000 table_acquisition 0 3
```

SWAP and LYRA are commanded from the P2SC
Complete pipeline is highly automated
Last minute commanding is possible (solar events!)

Operator Duties

- 5 operators in weekly shifts
- Commanding of LYRA & SWAP → PTI
- Instrument Monitoring → SW-QL & LY-QL & ADB
- Pipeline Monitoring → LMAT-UI
- Space Weather & solar events → LY-QLV & SW movie
- Weekly Reports:
http://proba2.sidc.be/P2SC_weekly_reports
- All operator tools are web-based → remote control

Planning Tool Interface

Safari File Edit View History Bookmarks Window Help

SWAP Planning Tool Interface

Quicklook V... LMAT Interf... Ancillary Da... http://local... Planning To... OverviewLY... Log2010-M... /trunk/p2s... LYRA Visua... Index of /s...

SWAP Sign out

Actions 30

- Show work_space
- Clean work_space
- Load timeline
- Commit timeline
- Load sequence
- Save sequence
- Launch los Writer
- Launch los Translator

swapworkdb

- Work_table
- Table_configuration

swapcomdb

- Commanding_table
- los_tracking_table
- Table_configuration
- Data_management
- Acquisition_configuration
- Table_acquisition

swapseqdb

- Work_table
- Table_configuration

pass_planning

- Future scheduled U/D passes
- All passes

Database: **swapworkdb** Table: **work_table**

Action	rowid	time	timeaux	command	source	action
	1	1273599270	Tue May 11, 2010, 17:34:30	idle	swapcomdb	
	2	1273599360	Tue May 11, 2010, 17:36:00	table_configuration	swapcomdb	
	3	1273599380	Tue May 11, 2010, 17:36:20	table_acquisition	swapcomdb	
	4	1273600860	Tue May 11, 2010, 18:01:00	table_configuration	swapcomdb	
	5	1273600880	Tue May 11, 2010, 18:01:20	table_acquisition	swapcomdb	
	6	1273602480	Tue May 11, 2010, 18:28:00	acquisition_configuration	swapcomdb	
	7	1273602545	Tue May 11, 2010, 18:29:05	table_configuration	swapcomdb	
	8	1273602555	Tue May 11, 2010, 18:29:15	table_acquisition	swapcomdb	
	9	1273605380	Tue May 11, 2010, 19:16:00	idle	swapcomdb	
	10	1273605390	Tue May 11, 2010, 19:16:30	table_configuration	swapcomdb	
	11	1273605410	Tue May 11, 2010, 19:16:50	table_acquisition	swapcomdb	
	12	1273606880	Tue May 11, 2010, 19:41:00	table_configuration	swapcomdb	
	13	1273606880	Tue May 11, 2010, 19:41:20	table_acquisition	swapcomdb	
	14	1273608300	Tue May 11, 2010, 20:05:00	acquisition_configuration	swapcomdb	
	15	1273608310	Tue May 11, 2010, 20:05:10	table_configuration	swapcomdb	
	16	1273608365	Tue May 11, 2010, 20:06:05	table_acquisition	swapcomdb	

off Create

Planning Tool Interface

Safari File Edit View History Bookmarks Window Help

SWAP Planning Tool Interface

Quicklook V... LMAT Interf... Ancillary Da... http://local... Planning To... OverviewLY... Log2010-M... /trunk/p2s... LYRA Visua... Index of /s...

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	5	1273600880	Tue May 11, 2010, 18:01:20	table_acquisition	swapcomdb	
	6	1273602480	Tue May 11, 2010, 18:28:00	acquisition_configuration	swapcomdb	
	7	1273602545	Tue May 11, 2010, 18:29:05	table_configuration	swapcomdb	
	8	1273602555	Tue May 11, 2010, 18:29:15	table_acquisition	swapcomdb	
	9	1273605360	Tue May 11, 2010, 19:16:00	idle	swapcomdb	
	10	1273605390	Tue May 11, 2010, 19:16:30	table_configuration	swapcomdb	
	11	1273605410	Tue May 11, 2010, 19:16:50	table_acquisition	swapcomdb	
	12	1273606860	Tue May 11, 2010, 19:41:00	table_configuration	swapcomdb	
	13	1273606880	Tue May 11, 2010, 19:41:20	table_acquisition	swapcomdb	
	14	1273608300	Tue May 11, 2010, 20:05:00	acquisition_configuration	swapcomdb	
	15	1273608310	Tue May 11, 2010, 20:05:10	table_configuration	swapcomdb	
	16	1273608365	Tue May 11, 2010, 20:06:05	table_acquisition	swapcomdb	

off Create

Planning Tool Interface

Safari File Edit View History Bookmarks Window Help

SWAP Planning Tool Interface

Quicklook V... LMAT Interf... Ancillary Da... http://local... Planning To... OverviewLY... Log2010-M... /trunk/p2s... LYRA Visua... Index of /s...

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Action	rowid	time	timeaux	command	source	action
	1	1273599270	Tue May 11, 2010, 17:34:30	idle	swapcomdb	
	2	1273599360	Tue May 11, 2010, 17:36:00	table_configuration	swapcomdb	
	3	1273599380	Tue May 11, 2010, 17:36:20	table_acquisition	swapcomdb	
	4	1273600860	Tue May 11, 2010, 18:01:00	table_configuration	swapcomdb	
	5	1273600880	Tue May 11, 2010, 18:01:20	table_acquisition	swapcomdb	
	6	1273602480	Tue May 11, 2010, 18:28:00	acquisition_configuration	swapcomdb	
	7	1273602545	Tue May 11, 2010, 18:29:05	table_configuration	swapcomdb	
	8	1273602555	Tue May 11, 2010, 18:29:15	table_acquisition	swapcomdb	
	9	1273605380	Tue May 11, 2010, 19:16:00	idle	swapcomdb	
	10	1273605390	Tue May 11, 2010, 19:16:30	table_configuration	swapcomdb	
	11	1273605410	Tue May 11, 2010, 19:16:50	table_acquisition	swapcomdb	
	12	1273606880	Tue May 11, 2010, 19:41:00	table_configuration	swapcomdb	
	13	1273606880	Tue May 11, 2010, 19:41:20	table_acquisition	swapcomdb	
	14	1273608300	Tue May 11, 2010, 20:05:00	acquisition_configuration	swapcomdb	
	15	1273608310	Tue May 11, 2010, 20:05:10	table_configuration	swapcomdb	
	16	1273608365	Tue May 11, 2010, 20:06:05	table_acquisition	swapcomdb	

off Create

Planning Tool Interface

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SWAP Planning Tool Interface

Quicklook V... LMAT Interf... Ancillary Da... http://local... Planning To... OverviewLY... Log2010-M... /trunk/p2s... LYRA Visua... Index of /s...

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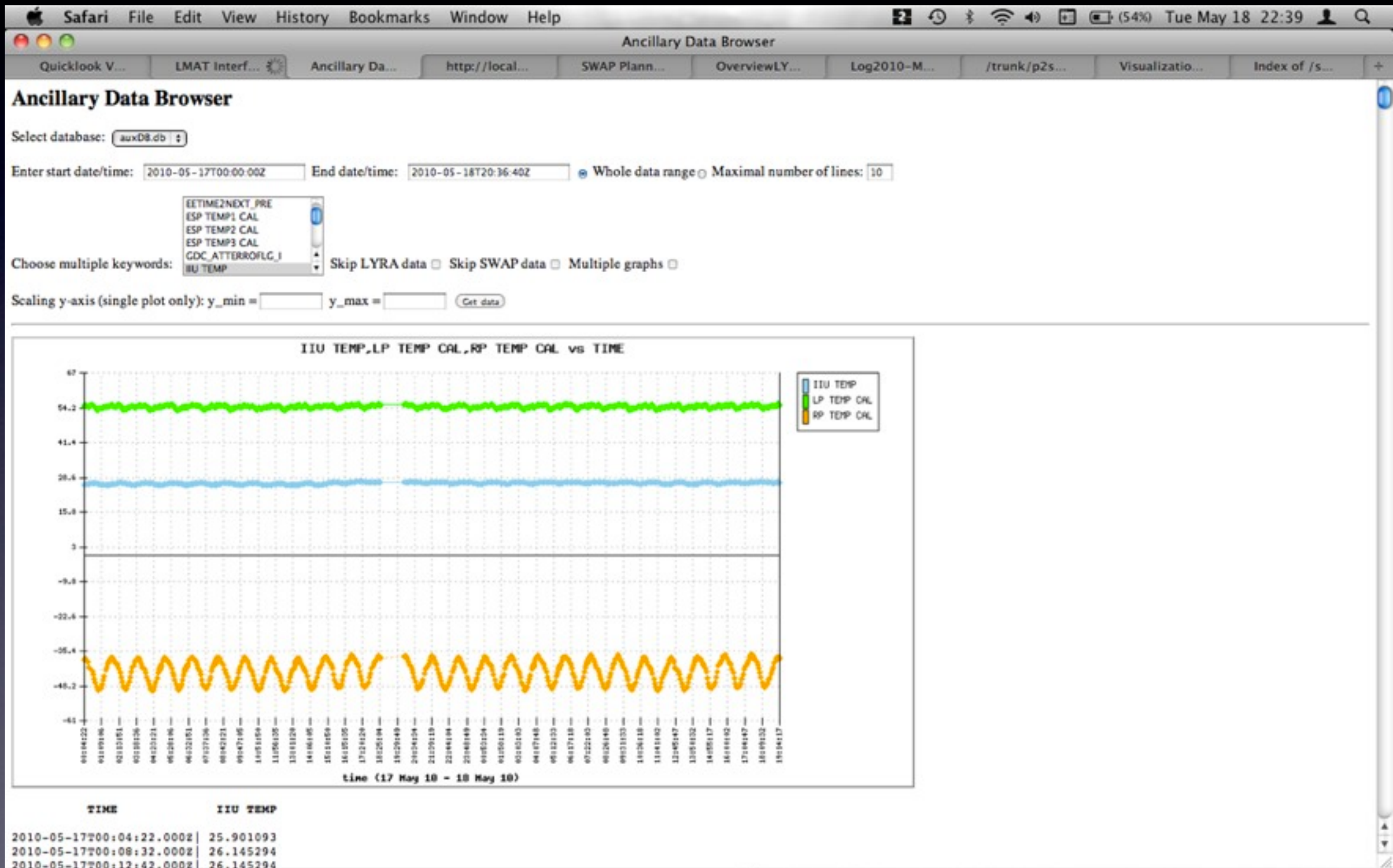
- Future scheduled U/D passes
- All passes

Database: **swapworkdb** Table: **work_table**

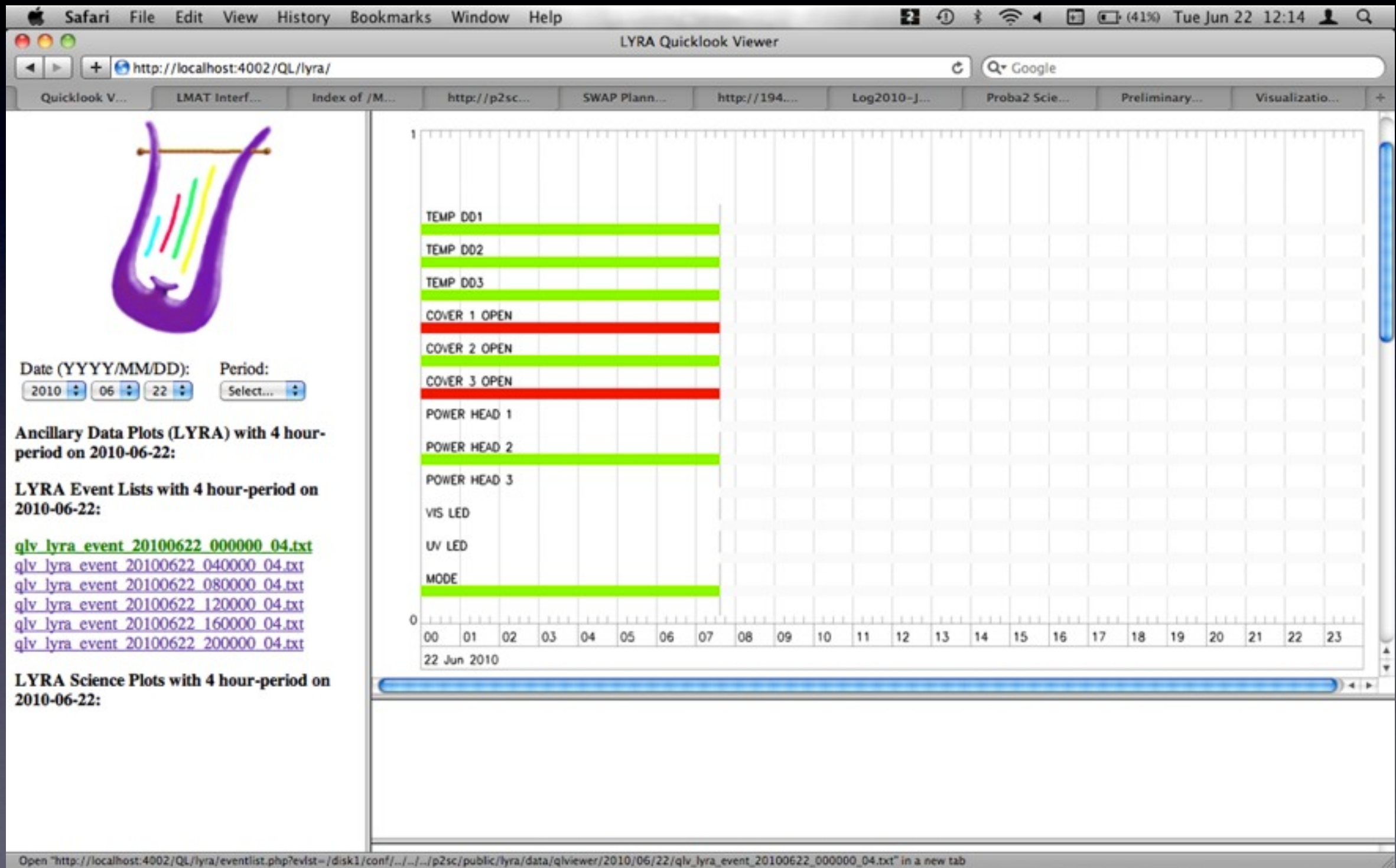
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	3	1273599380	Tue May 11, 2010, 17:36:20	table_acquisition	swapcomdb	
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off Create

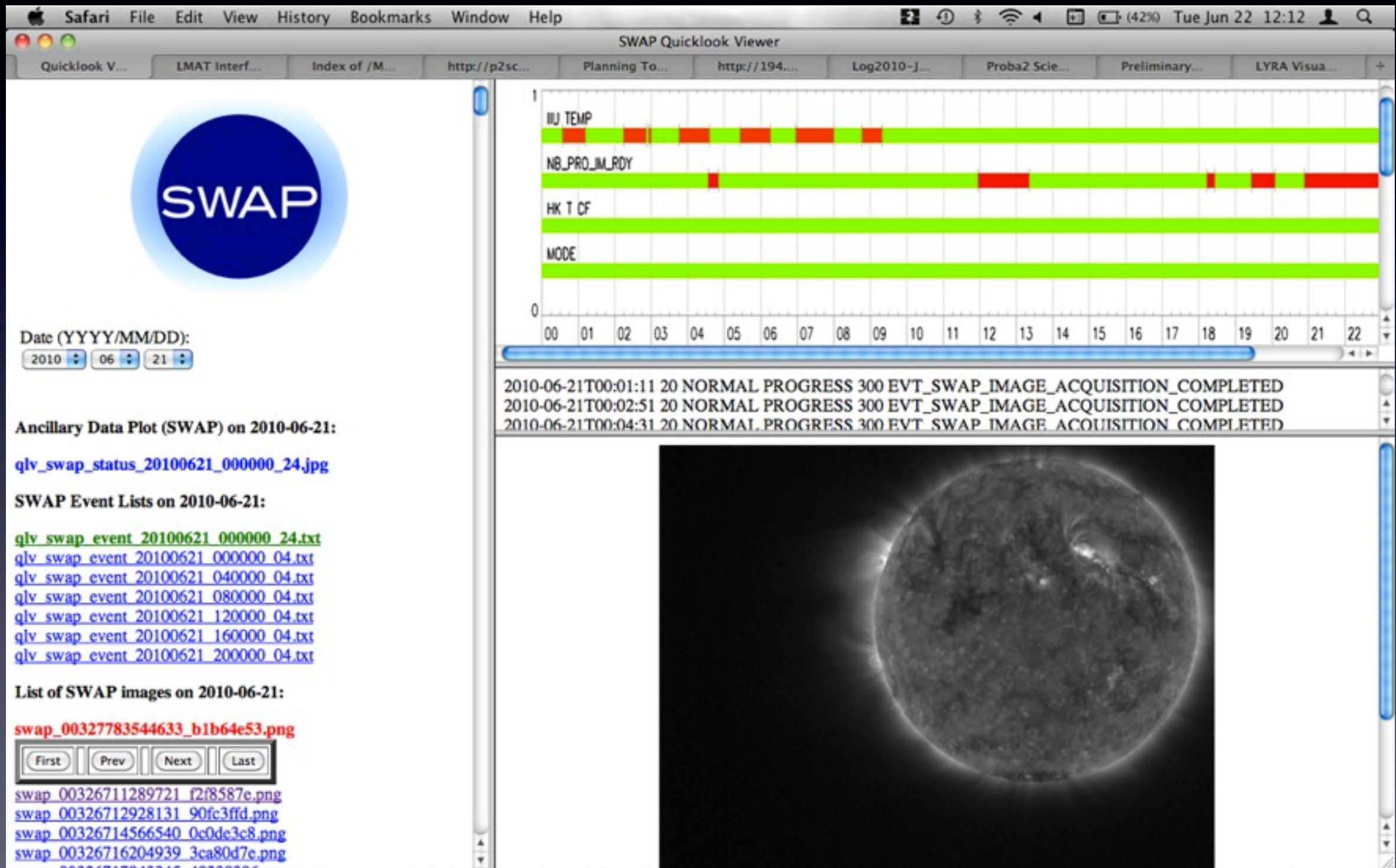
Ancillary Data Browser



SW & LY Quicklook viewers



SW & LY Quicklook viewers

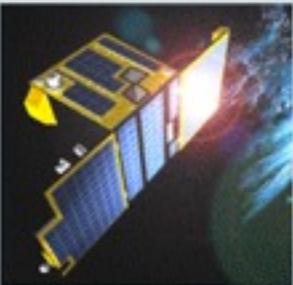


LMAT-UI

Safari File Edit View History Bookmarks Window Help

LMAT Interface

Quicklook V... LMAT Interf... Ancillary Da... http://local... Planning To... OverviewLY... Log2010-M... /trunk/p2s... LYRA Visua... Index of /s...



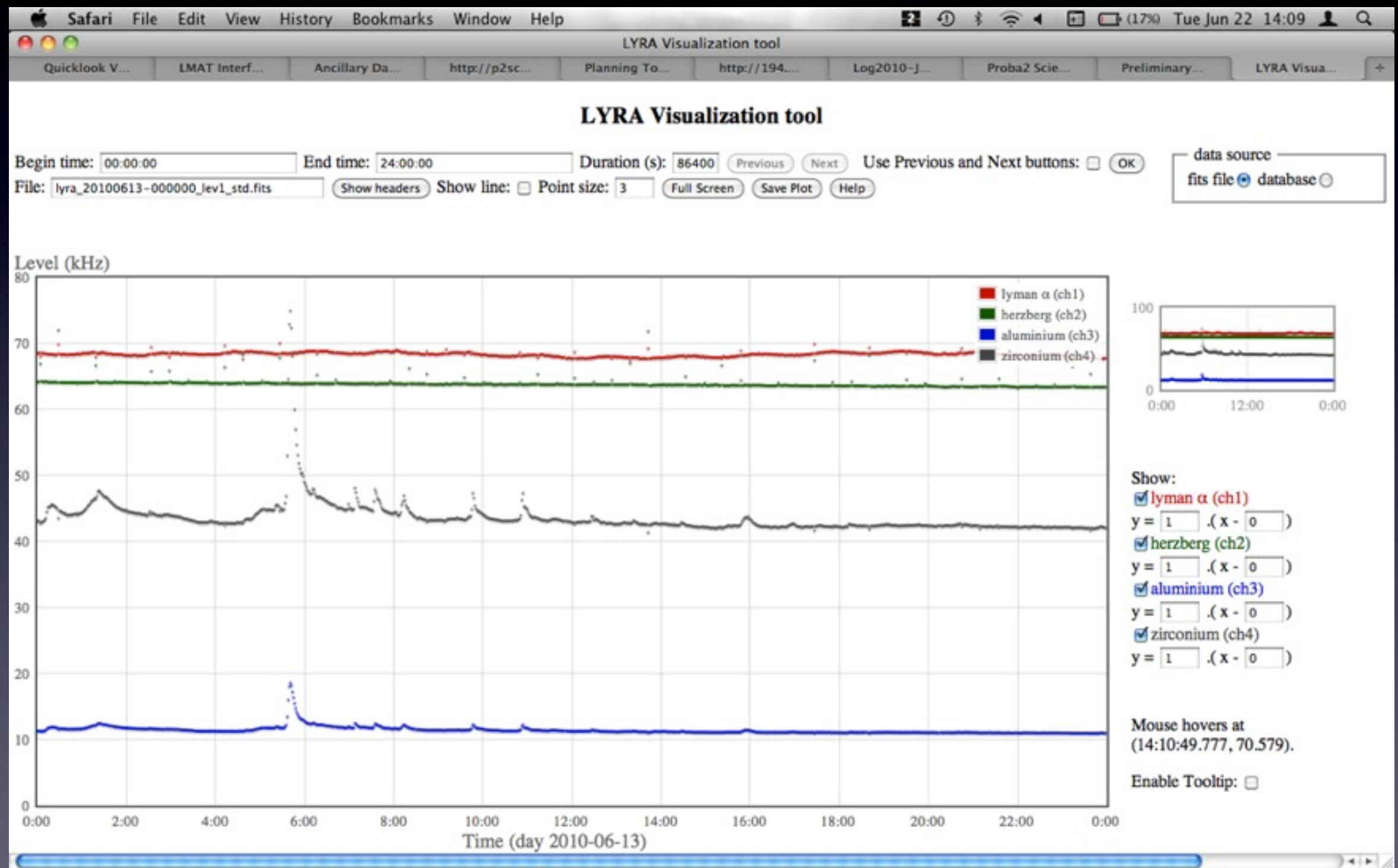
Database: **jobs.db** - Table: **jobs**

runID	originator	start_time	lastmsg_time	tool	status	args
26440	file detection	2010-05-18T20:25:02	2010-05-18T20:25:05	ADP	running	/p2sc/MOC/redu_to_p2sc/dropbox/LYRA_AD_1297_RED3_2010.05.18T19.3
26439	26438	2010-05-18T20:03:02	2010-05-18T20:03:18	PP_MAKEPLOT	stop	1274059767 1275893561
26438	crontab	2010-05-18T20:00:03	2010-05-18T20:00:14	PP_PROC	continue	
26437	26436	2010-05-18T19:56:02	2010-05-18T20:02:36	SWBSDG	continue	SWEDG SWTMR 2010-05-18T19:45:03Z 2010-05-18T19:46:04Z
26436	26435	2010-05-18T19:50:02	2010-05-18T19:55:13	SWEDG	continue	SWTMR 2010-05-18T19:45:03Z 2010-05-18T19:46:04Z
26435	file detection	2010-05-18T19:45:03	2010-05-18T19:46:04	SWTMR	continue	/p2sc/MOC/redu_to_p2sc/dropbox/BINSWAP_1297_RED3_2010.05.18T19.3
26434	file detection	2010-05-18T19:45:03	2010-05-18T20:00:51	LYTMR	continue	/p2sc/MOC/redu_to_p2sc/dropbox/BINLYRA_1297_RED3_2010.05.18T19.3
26433	file detection	2010-05-18T19:45:02	2010-05-18T19:45:05	ADP	not responding	/p2sc/MOC/redu_to_p2sc/dropbox/LYRA_AD_1297_RED3_2010.05.18T19.3
26432	file detection	2010-05-18T19:44:02	2010-05-18T19:44:04	Report_Parser	continue	/p2sc/MOC/redu_to_p2sc/dropbox/PSR_BIN_SWAP_1297.txt
26431	file detection	2010-05-18T19:43:03	2010-05-18T19:43:05	Report_Parser	continue	/p2sc/MOC/redu_to_p2sc/dropbox/TC_SWAP_Report_1297.log
26430	file detection	2010-05-18T19:43:01	2010-05-18T19:43:03	Report_Parser	continue	/p2sc/MOC/redu_to_p2sc/dropbox/TC_LYRA_Report_1297.log
26429	file detection	2010-05-18T19:42:01	2010-05-18T19:42:03	Report_Parser	continue	/p2sc/MOC/redu_to_p2sc/dropbox/PSR_BIN_LYRA_1297.txt
26428	file detection	2010-05-18T19:41:02	2010-05-18T19:41:04	Report_Parser	continue	/p2sc/MOC/redu_to_p2sc/dropbox/PSR_AD_LYRA_1297.txt
26427	file detection	2010-05-18T19:31:02	2010-05-18T19:31:03	EDP	continue	/p2sc/MOC/redu_to_p2sc/dropbox/LYRA_SWAP_2010_05_18_19_26_00_Ev
26426	file detection	2010-05-18T19:21:02	2010-05-18T19:21:03	Report_Parser	continue	/p2sc/MOC/redu_to_p2sc/dropbox/LYRA_SWAP_2010_05_18_19_17_42_Dv
26425	26424	2010-05-18T19:16:02	2010-05-18T19:16:05	LYBSDG	continue	Processing succeeded
26424	crontab	2010-05-18T19:12:36	2010-05-18T19:15:17	LYEDG	continue	2010-05-18
26423	26422	2010-05-18T19:01:01	2010-05-18T19:01:12	PP_MAKEPLOT	stop	1274059767 1275893561
26422	crontab	2010-05-18T19:00:01	2010-05-18T19:00:10	PP_PROC	continue	
26421	26412	2010-05-18T18:26:07	2010-05-18T18:27:39	SWQLK	stop	ADP 2010-05-18T18:06:02Z 2010-05-18T18:08:05Z
26420	26416	2010-05-18T18:26:03	2010-05-18T18:26:05	SWBSDG	stop	SWEDG ADP 2010-05-18T18:06:02Z 2010-05-18T18:08:05Z

Jobs

- LMAT 422
- IOSwriter
- IOSsender
- Report_Parser 63
- ADP 175 756
- LYTMR 81 51
- LYEDG 85
- LYBSDG
- SWTMR 561 731
- SWEDG 19 2804
- SWBSDG 3321
- DCVC 16 131077
- PP_PROC 5 1
- PP_MAKEPLOT 4
- EDP
- TLE 1
- CT_MOC
- CT_TEMP
- SWQLK 1
- LYQLK 1

LYRA QLV



Operator's wiki-page

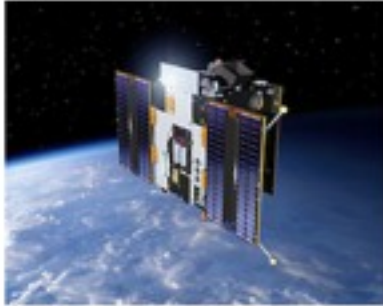
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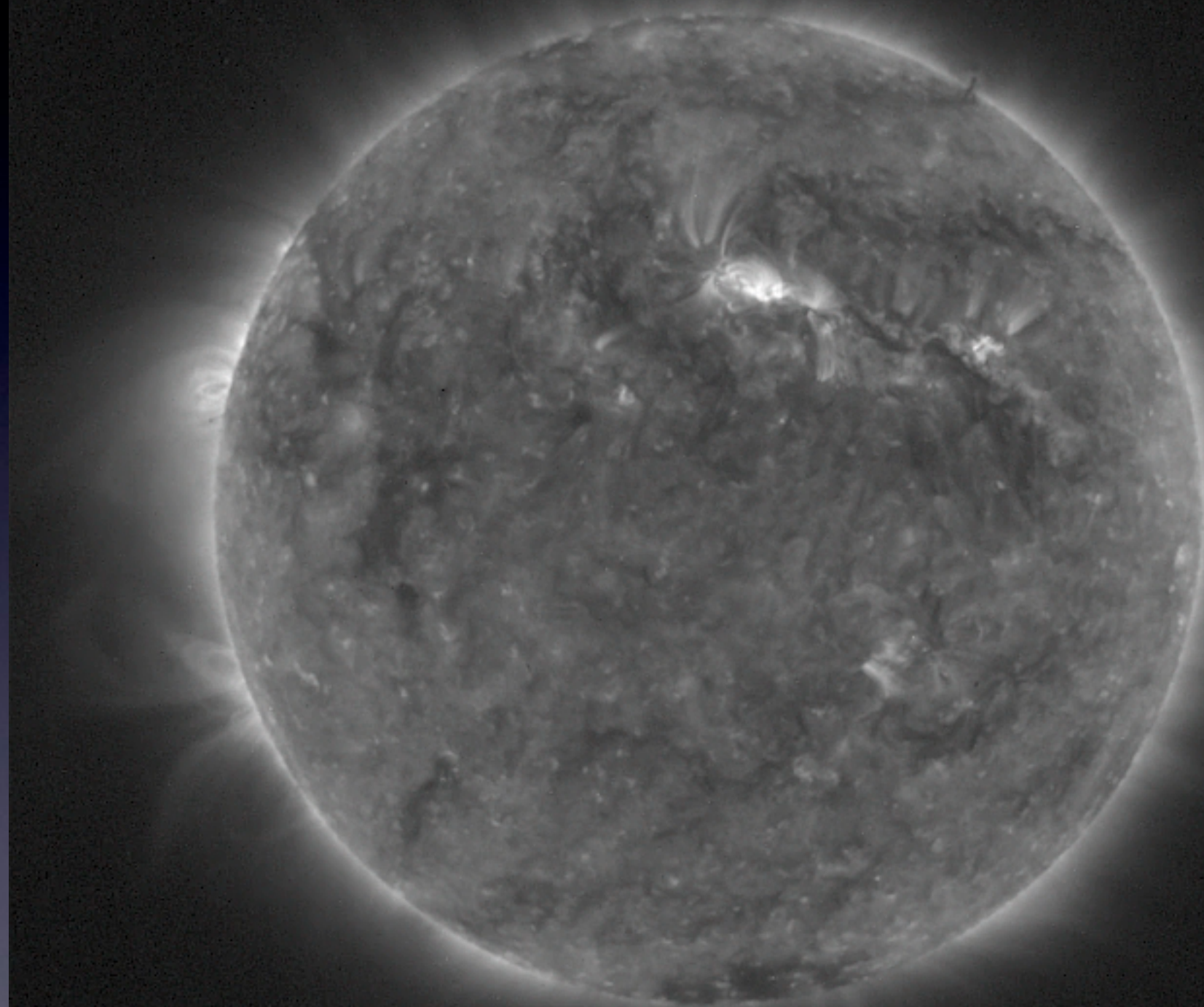
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P2SC Summary

- Scientific data are received, processed and published online completely automatically
- Web-based P2SC tools increase operator's flexibility & allow interventions outside office hours
- Flexible commanding very useful for solar physics (reaction on solar events)
- New MOC-SOC interaction successful

Yesterday's SWAP movie (online)



2010-06-21T00:00:58.150