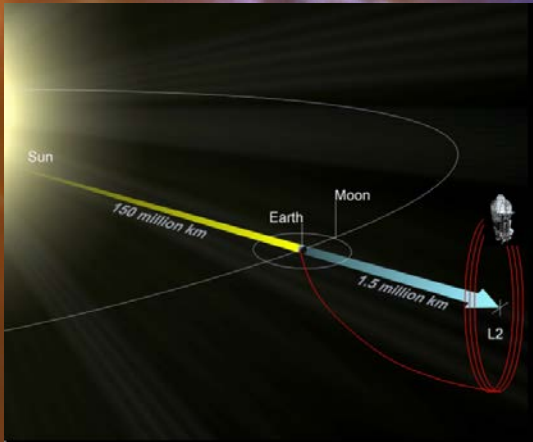


Herschel Overview, Status, and HUG#6 feedback



HUG#7 meeting, ESTEC, 14 October 2013
Göran Pilbratt, Herschel Project Scientist

HUG#7 overview

Status, Milestones, Personnel, EoHe, Observing,
Publications, HSA, UPDPs, Communications

Launch on 14 May 2009 ...

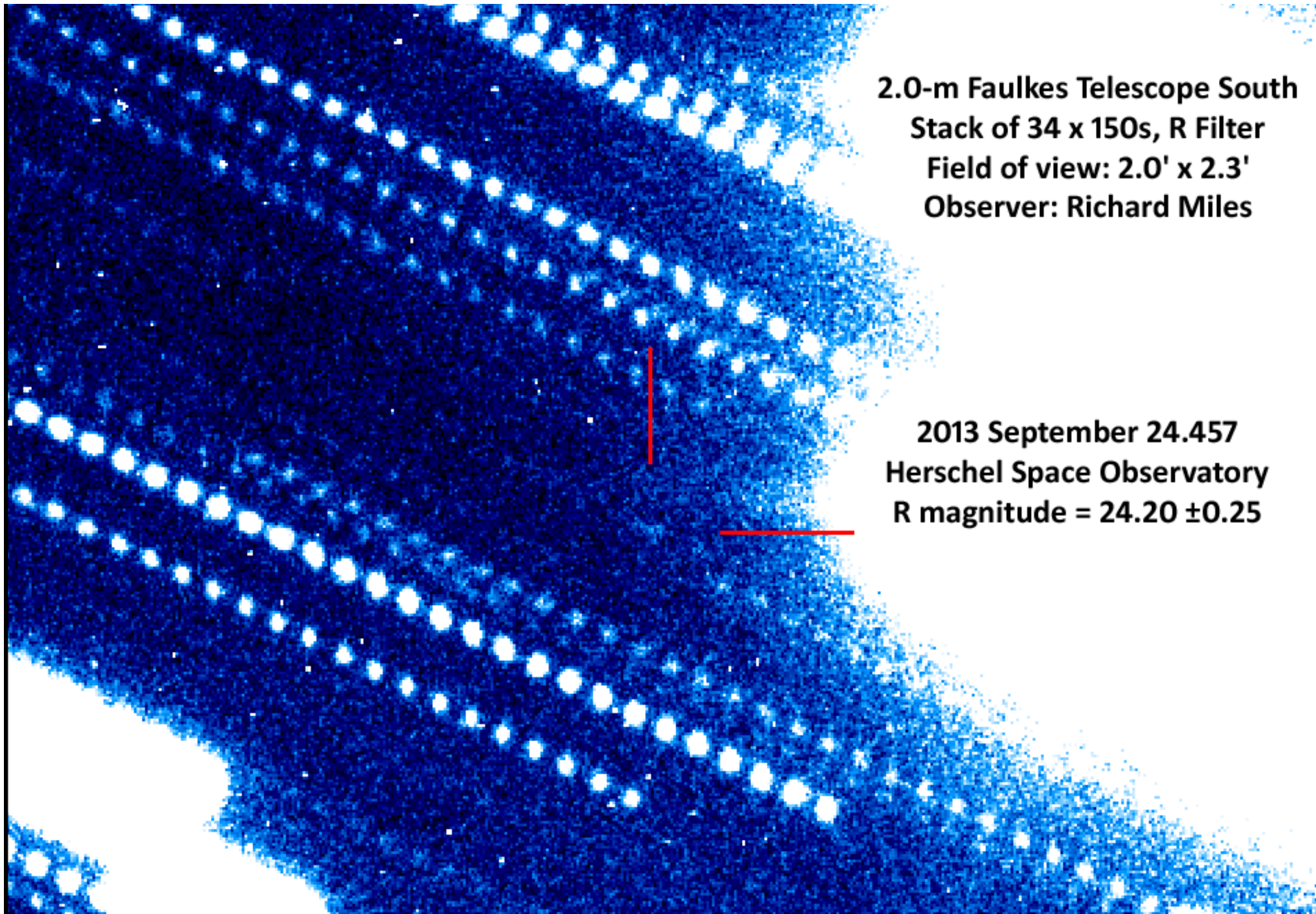
... 1000 days inflight on 8 February 2012

... EoHe in DTCP#1447 on 29 April 2013

... last telecommand on 17 June 2013

... now in “parking” orbit





2.0-m Faulkes Telescope South
Stack of 34 x 150s, R Filter
Field of view: 2.0' x 2.3'
Observer: Richard Miles

2013 September 24.457
Herschel Space Observatory
R magnitude = 24.20 ± 0.25

Milestones since HUG#6



- **End-of-Helium on 29 Apr 2013**
 - Formal EoHe occurred at 17:20 CEST, during DTCP#1447
 - Press release at 17:42 CEST, website postings done by 17:51 CEST
 - Mass-mail to all subscribed Herschel users at 18:19 CEST
- **The “disposal manoeuvre” was executed on 13-14 May 2013**
- **HST#52 was held on 13-14 May 2013**



HERSCHEL SPACE OBSERVATORY

HST#52 – 13-14 May 2013



Milestones since HUG#6



- **End-of-Helium on 29 Apr 2013**
 - Formal EoHe occurred at 17:20 CEST, during DTCP#1447
 - Press release at 17:42 CEST, website postings done 17:51 CEST
 - Mass-mail to all subscribed Herschel users at 18:19 CEST
- **The “disposal manoeuvre” was executed on 13-14 May 2013**
- **HST#52 was held on 13-14 May 2013**
- **All 42 KP consortia wrap-up telecons completed – now “chasing” UPDPs**
- **Operations “cradle-to-grave” Lessons Learned mtg 28-30 May 2013**
- **“Last TX” event – Herschel turned off – on 17 June 2013**
- **“Herschel Data Processing for Newcomers”, ESAC, on 24-28 June 2013**
- **HUG#6 minutes issued on 10 July 2013 – posted on 11 July 2013**
- **HIPE 11 released on 26 July 2013 – with Java 7 support**
- **“Exploiting the Herschel Archive”, NHSC on 26-30 August 2013**
- **Bulk (to level 2.5) reproc with HCSS 10.3 completed on 4 Sep 2013**
- **HSA 5 released on 9 September 2013 – enabling UPDP ingestion**



HERSCHEL SPACE OBSERVATORY

Personnel – according to plan



Overall personnel resources are maintained at the level agreed at the time of the POP RR

- but there are recent changes at the level of individuals & areas:

People known to you include:

- **Leo Metcalfe, Mission Manager**
 - 80% ExoMars from 1/09/2013
 - Pedro Garcia-Larío H/HSC
- **Stephan Ott, DP**
 - 50% ExoMars from 1/07/2013
- **Bruno Altieri, HICS PACS-P**
 - 25% Euclid support this year
- **Roland Vavrek, HICS PACS-S**
 - 50% Euclid Deputy PS from 1/09/2013 (exact date TBC)

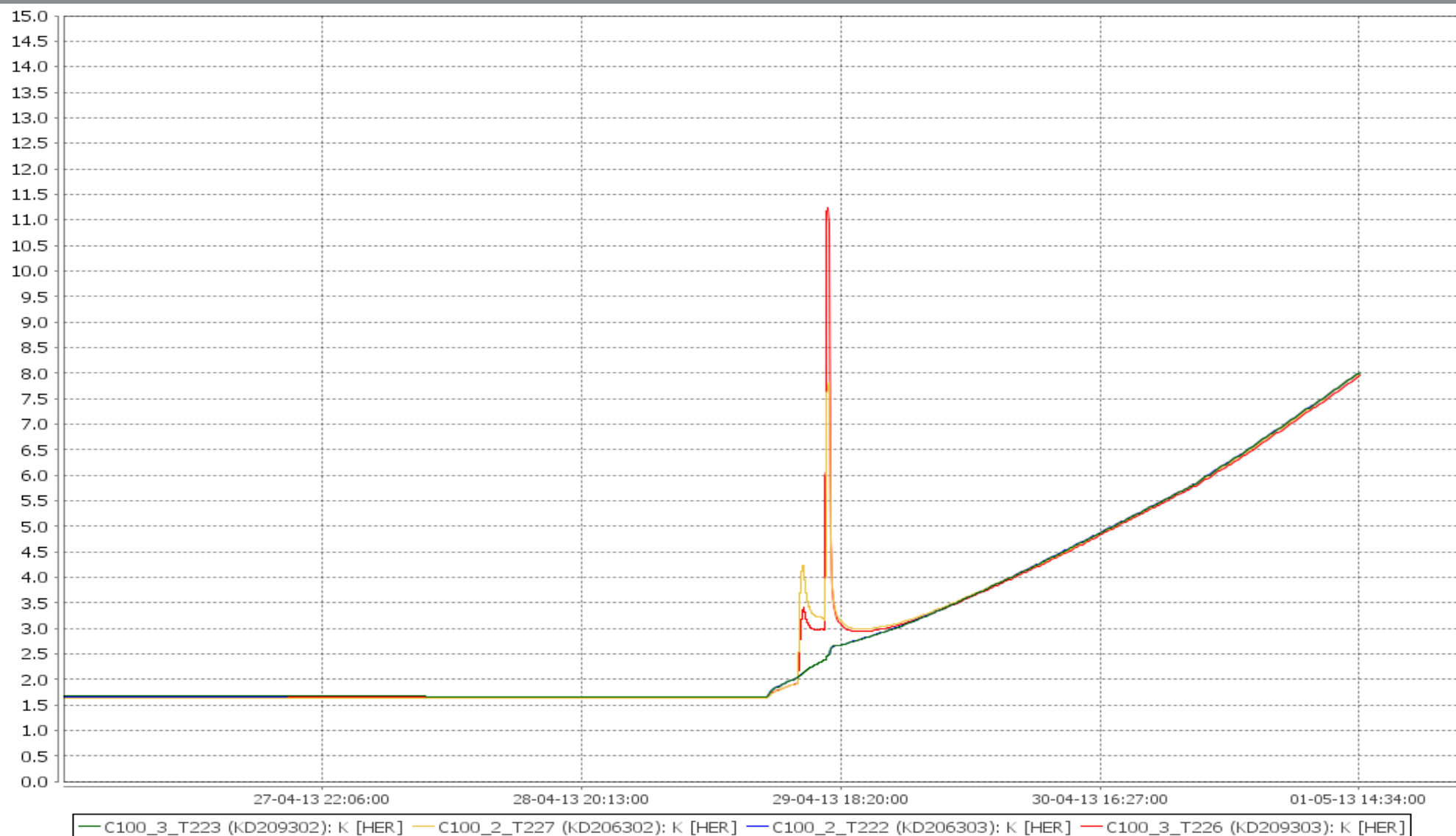
	Agreed for POP RR	Myrs now
Management	12.50	8.83
Calibration	29.50	30.08
DP (incl.Q and DP Sci.)	35.00	35.00
Community Support	19.25	20.17
S/W Maint.	8.45	8.60
CSG	7.50	7.50
SAT	4.50	5.50
Total	116.70	115.68
To be assigned		1.02

Personnel connected to Data Processing, Mission Planning, and SW Maintenance have left (or moved replacing other people who left), Herschel in line with the POP planning as presented in HUG#6. Note increase for SAT (for HSA)!



HERSCHEL SPACE OBSERVATORY

29 April 2013 – EoHe (level 0)

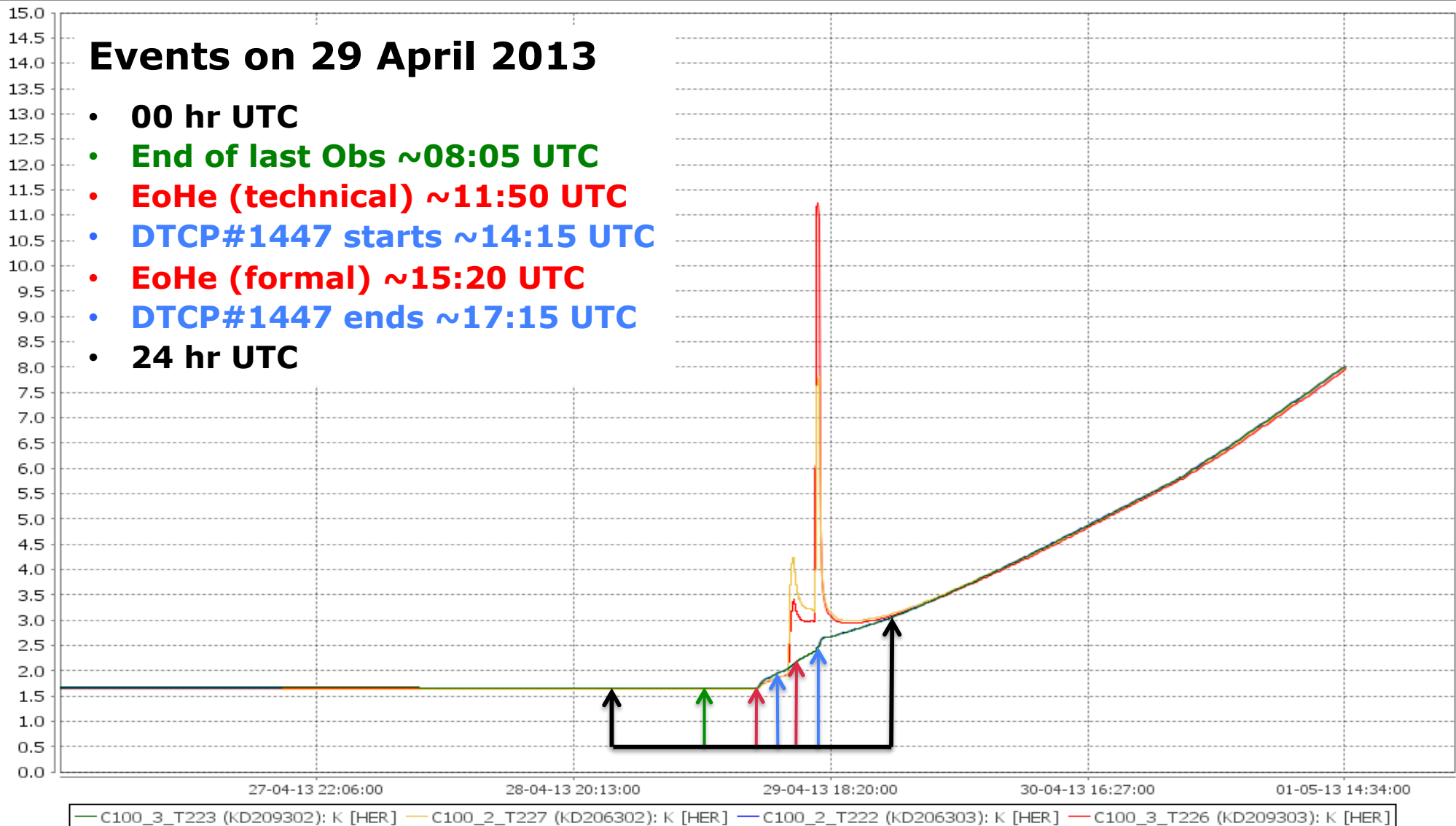


29 April 2013 – EoHe (level 0)



Events on 29 April 2013

- 00 hr UTC
- End of last Obs ~08:05 UTC
- EoHe (technical) ~11:50 UTC
- DTCP#1447 starts ~14:15 UTC
- EoHe (formal) ~15:20 UTC
- DTCP#1447 ends ~17:15 UTC
- 24 hr UTC

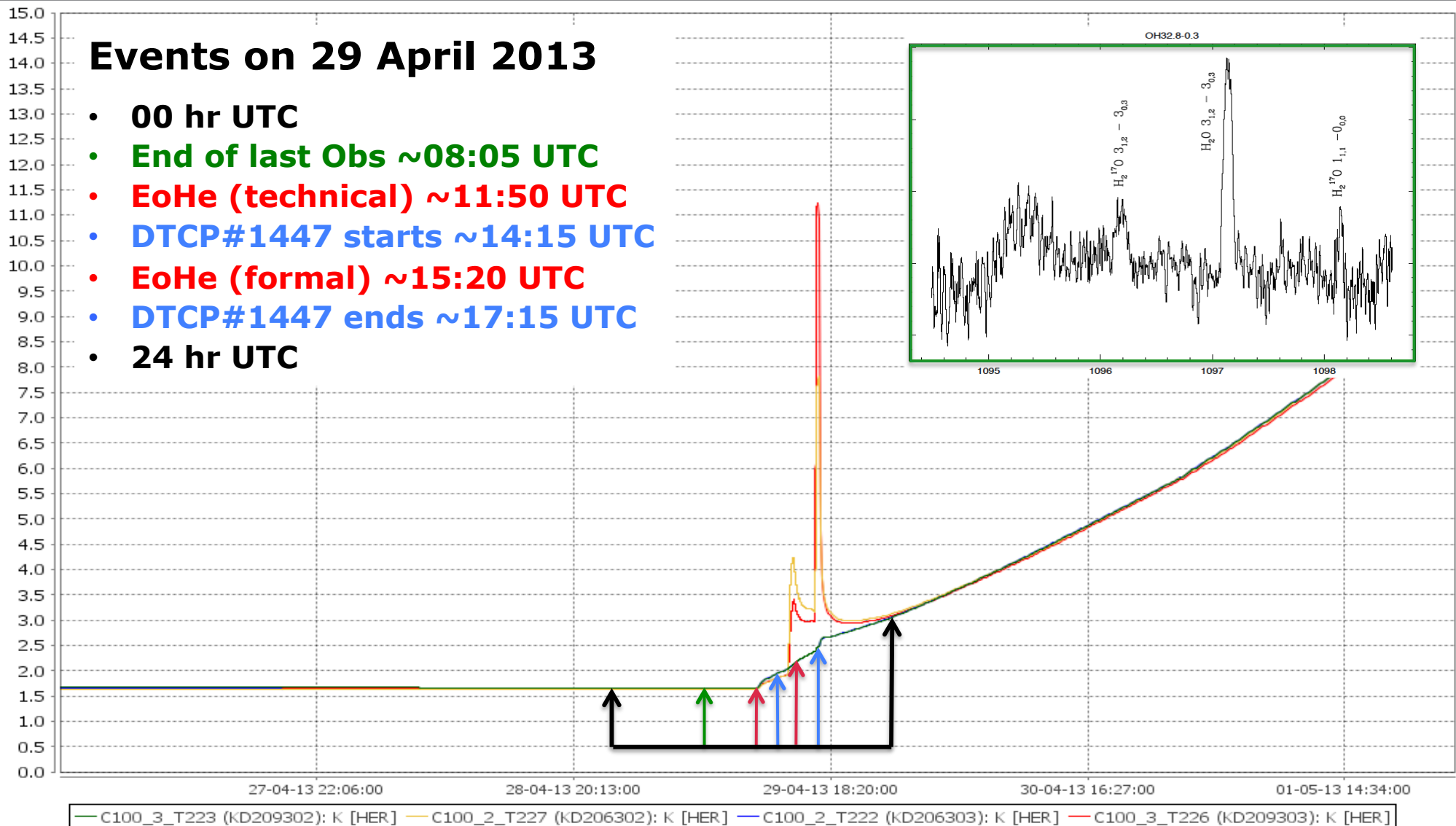


29 April 2013 – EoHe (level 0)



Events on 29 April 2013

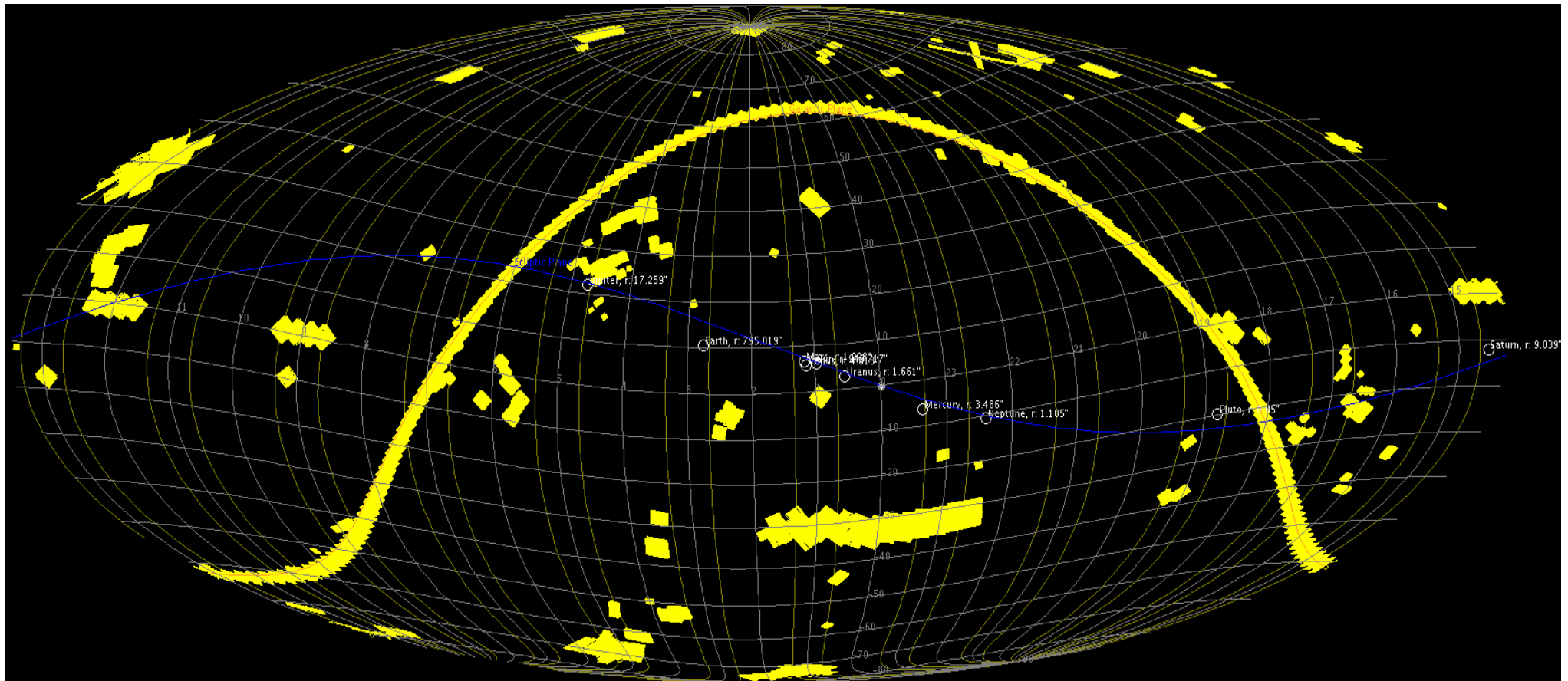
- 00 hr UTC
- End of last Obs ~08:05 UTC
- EoHe (technical) ~11:50 UTC
- DTCP#1447 starts ~14:15 UTC
- EoHe (formal) ~15:20 UTC
- DTCP#1447 ends ~17:15 UTC
- 24 hr UTC



Preliminary sky coverage



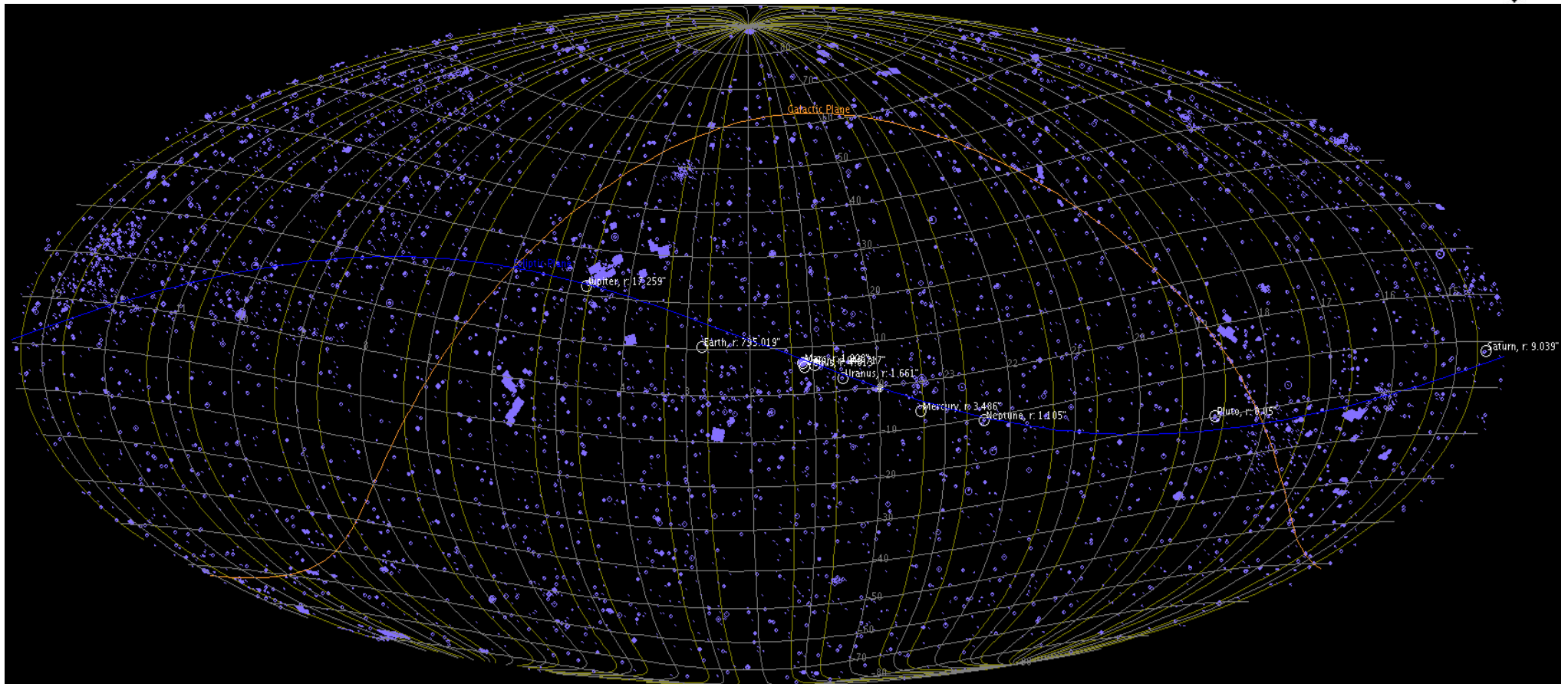
SPIRE/PACS parallel mode observing



Preliminary sky coverage



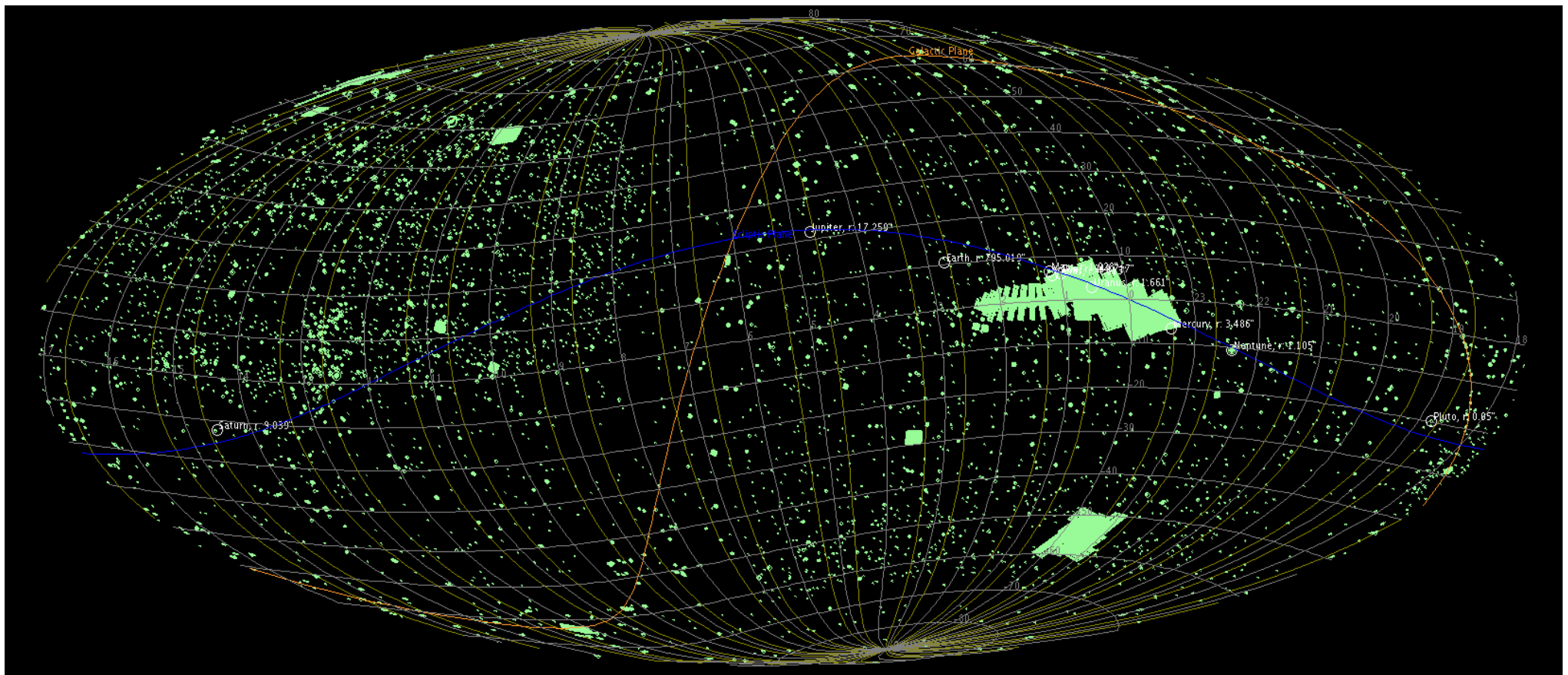
PACS photometry observing



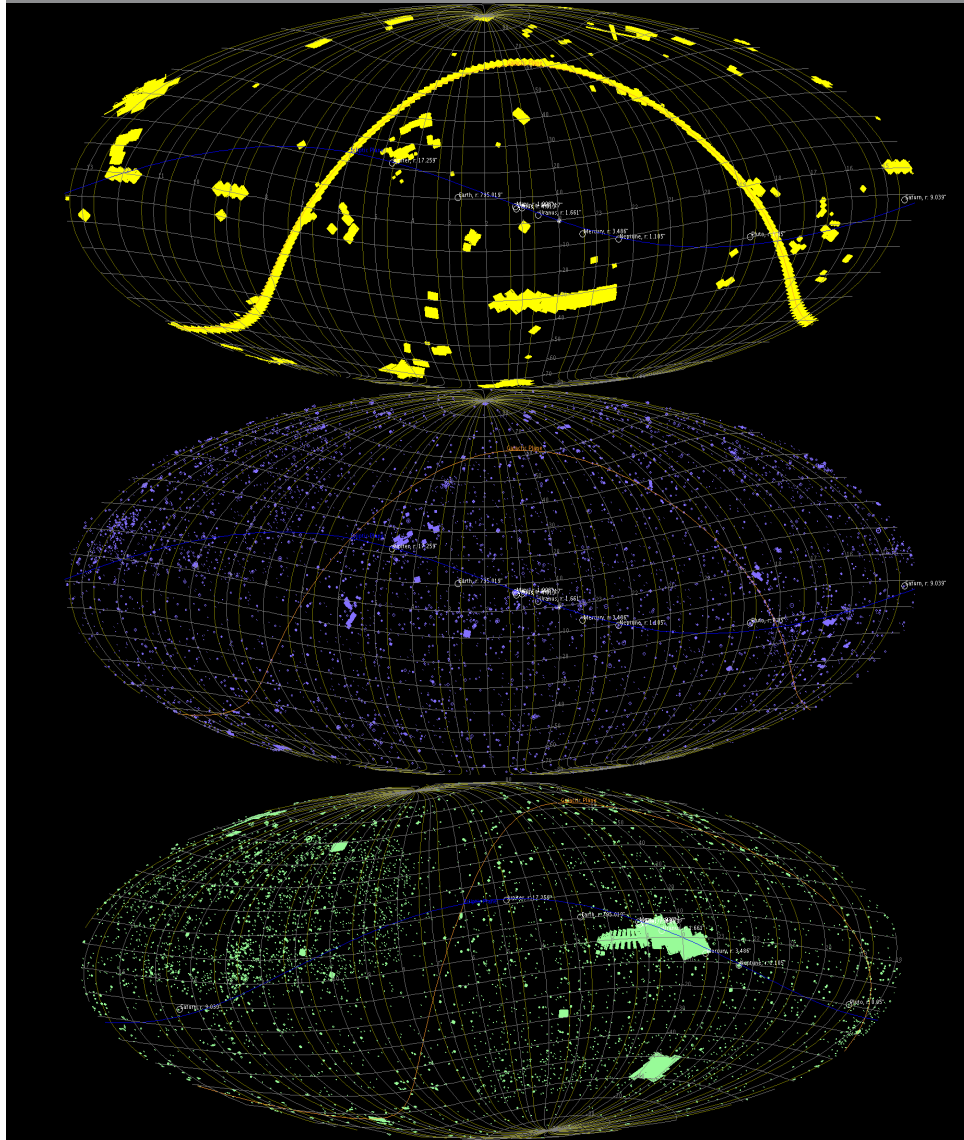
Preliminary sky coverage



SPIRE photometry observing



Preliminary sky coverage



Totals (uncert +/- 5%)

- S/P parallel 6.44
- PACS phot 0.67
- SPIRE phot 2.28
- PACS spec <0.01
- SPIRE spec <0.01
- HIFI 0.06
- Total Herschel 9.45

These numbers are %-ages of the entire sky (~41,000 sq deg)

Herschel has observed almost 1/10 of the entire sky!

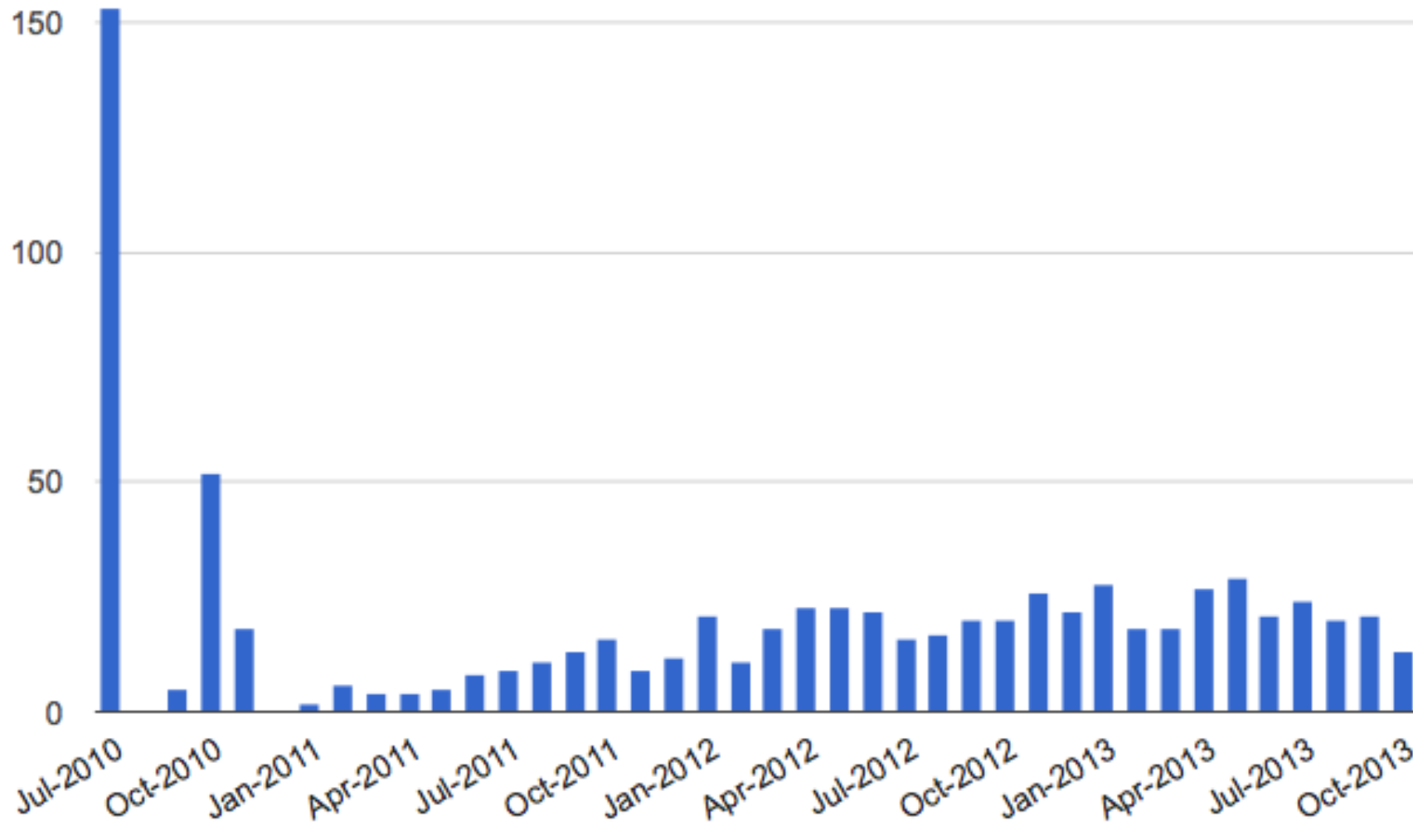
By performing ~23,500 hr of HOTAC approved observing!



HERSCHEL SPACE OBSERVATORY

Time distribution of papers

– based on 785 papers



HERSCHEL SPACE OBSERVATORY

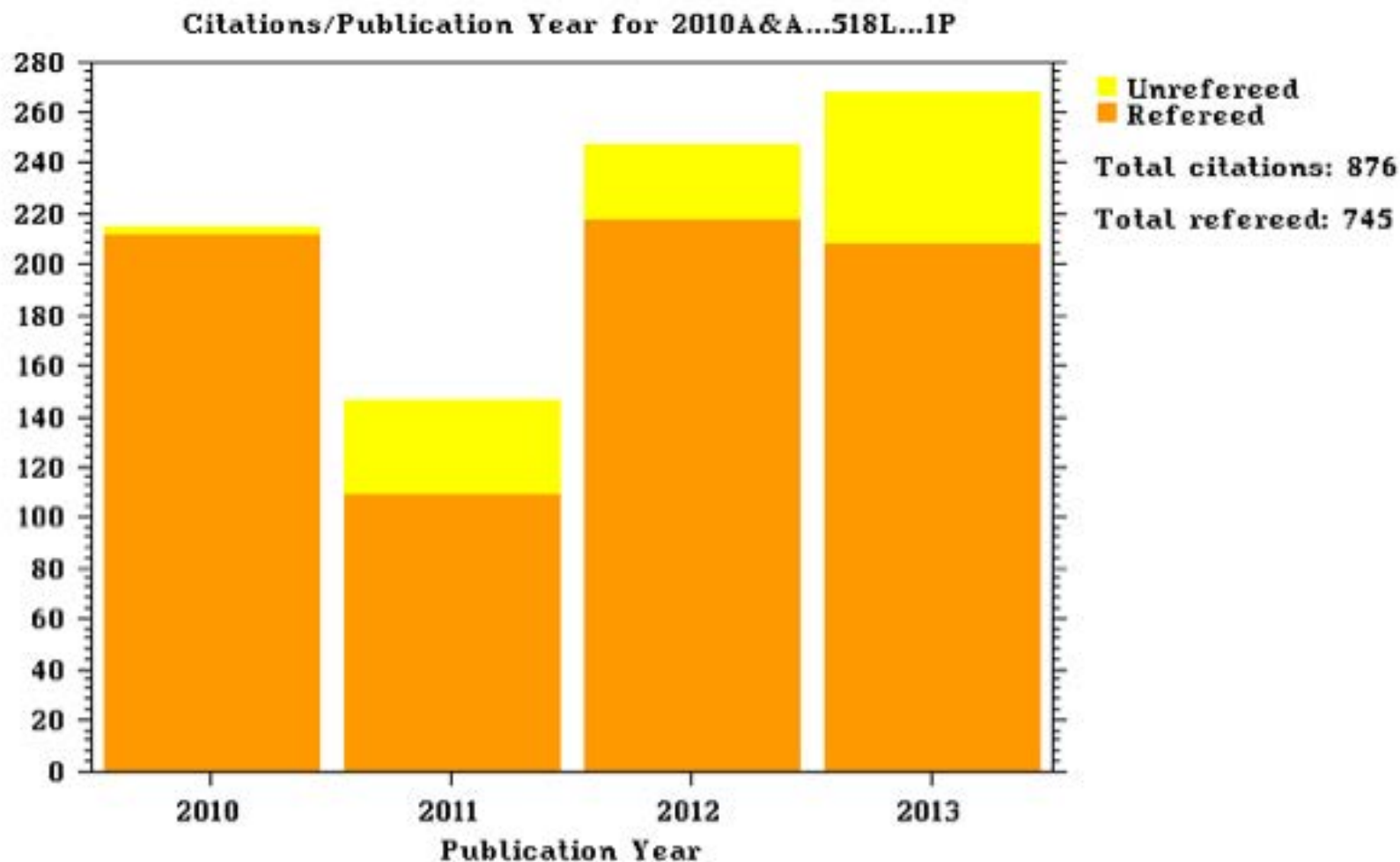
Time distribution of papers

– based on 785 papers



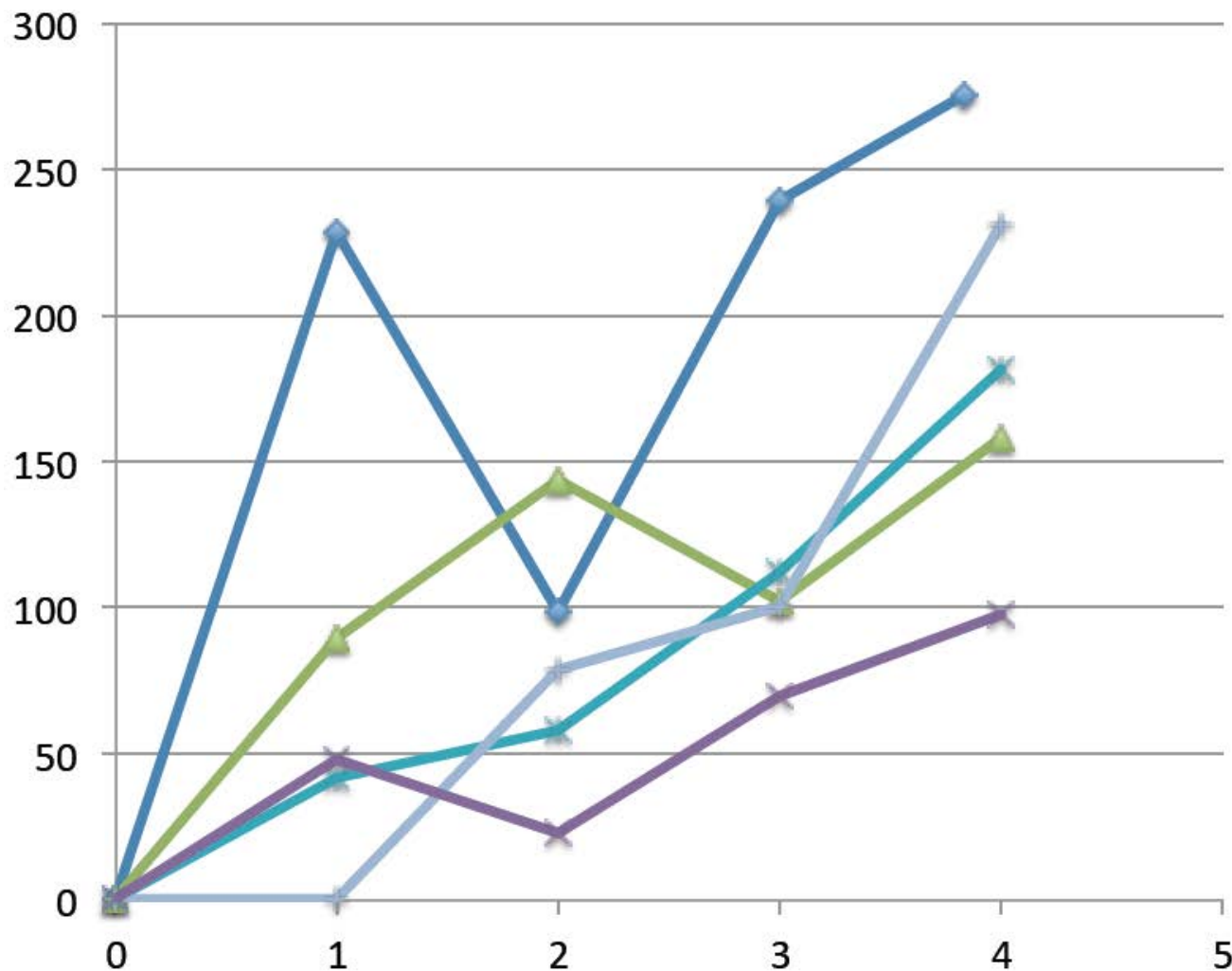
HERSCHEL SPACE OBSERVATORY

Herschel paper – citations (ADS)



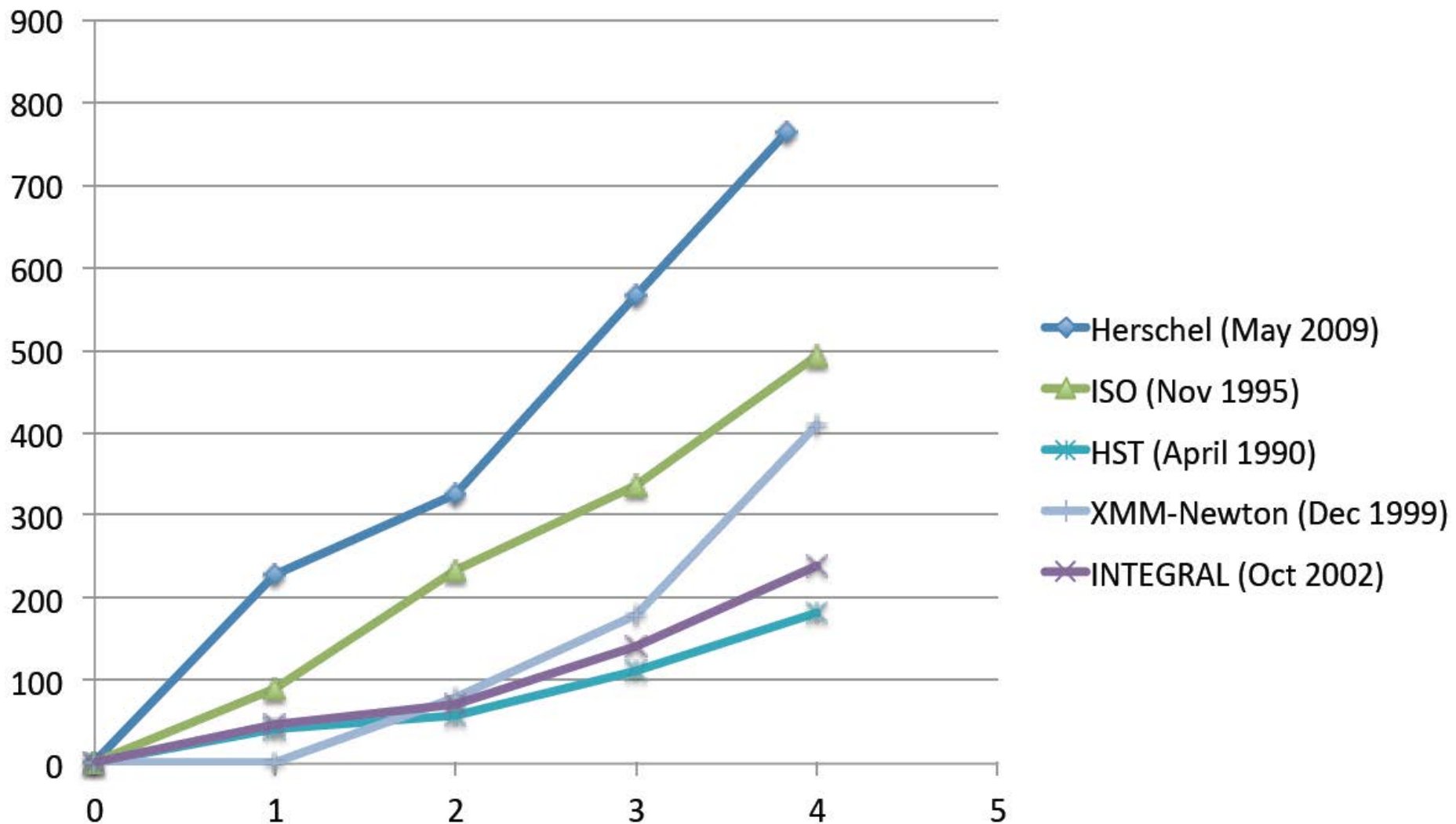
HERSCHEL SPACE OBSERVATORY

#Pubs/yr vs calendar yr after launch



HERSCHEL SPACE OBSERVATORY

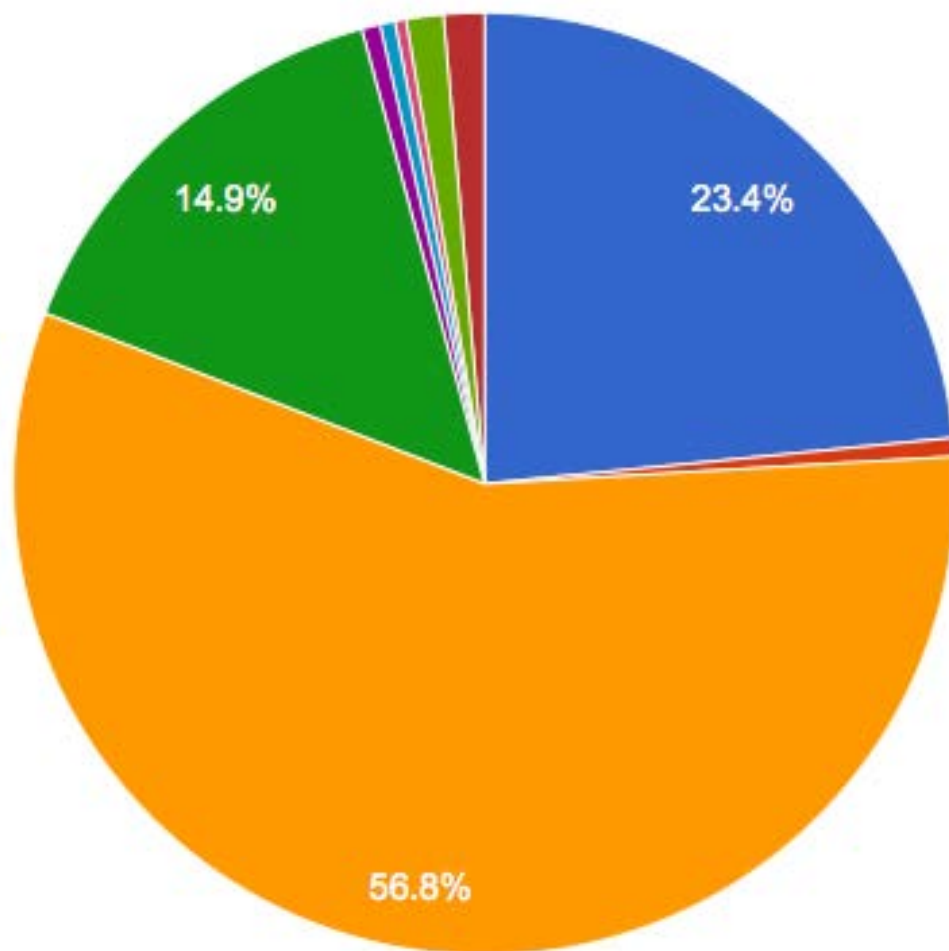
#Pubs vs calendar yr after launch



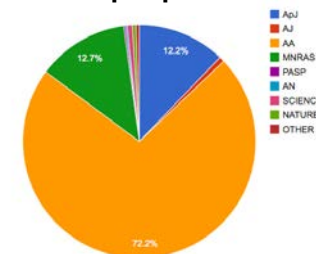
HERSCHEL SPACE OBSERVATORY

Journal distribution of papers

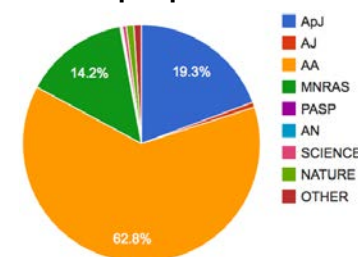
– based on 785 papers



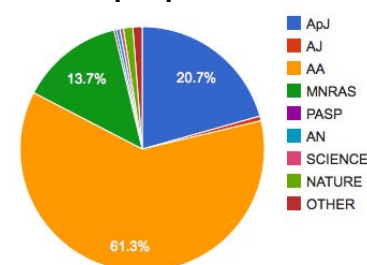
418 papers



584 papers









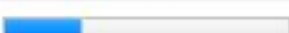


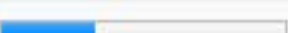
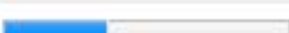
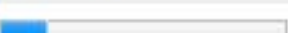








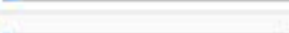
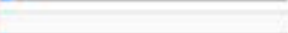
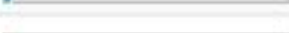
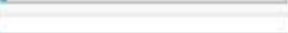


644 papers



HERSCHEL SPACE OBSERVATORY

Simpleminded: OBSIDs linked to publ

Name	Executed obs	Executed time (h)	Published obs	Published number %	Published time (h)	Published time %
SDP	549	570.33	452	 82.33	521.79	 91.49
KPOT	6565	5,298.61	3957	 60.27	2,918.81	 55.09
TOO	210	34.90	86	 40.95	19.11	 54.77
KPGT	7441	5,156.38	3190	 42.87	2,761.01	 53.55
TOTAL	38533	22,651.06	8491	 22.04	6,967.70	 30.76
GT1	1151	517.92	203	 17.64	153.28	 29.59
AOTVAL	72	65.18	21	 29.17	9.46	 14.51
OT1	11652	5,527.24	452	 3.88	480.06	 8.69
DDT	664	282.02	32	 4.82	14.68	 5.21
Calibration	12178	4,633.80	145	 1.19	149.88	 3.23
GT2	461	347.12	16	 3.47	10.08	 2.91
OT2	9667	4,791.03	82	 0.85	79.42	 1.66
OBS	101	60.33	0	 0.00	0.00	 0.00



HERSCHEL SPACE OBSERVATORY

Simpleminded: OBSIDs linked to publ



Name	Executed obs	Executed time (h)	Published obs	Published number %	Published time (h)	Published time % ▾
PARALLEL	790	3,213.29	343	<div><div></div></div> 43.42	1,754.62	<div><div></div></div> 54.61
PACS	22092	11,277.53	5606	<div><div></div></div> 25.38	3,562.62	<div><div></div></div> 31.59
TOTAL	38533	22,651.06	8491	<div><div></div></div> 22.04	6,967.70	<div><div></div></div> 30.76
SPIRE	6490	3,262.81	1165	<div><div></div></div> 17.95	803.13	<div><div></div></div> 24.61
HIFI	9161	4,897.44	1377	<div><div></div></div> 15.03	847.33	<div><div></div></div> 17.30

HERSCHEL SPACE OBSERVATORY

Simpleminded: OBSIDs linked to publ



Name	Executed obs	Executed time (h)	Published obs	Published number %	Published time (h)	Published time %
SP_PAR	790	3,213.29	343	<div><div></div></div> 43.42	1,754.62	<div><div></div></div> 54.61
S_PHOT	5358	1,545.84	1107	<div><div></div></div> 20.66	686.05	<div><div></div></div> 44.38
P_PHOT	16893	5,778.72	4631	<div><div></div></div> 27.41	2,379.34	<div><div></div></div> 41.17
H_5b	19	23.94	4	<div><div></div></div> 21.05	9.85	<div><div></div></div> 41.13
H_7a	174	129.14	42	<div><div></div></div> 24.14	44.44	<div><div></div></div> 34.41
TOTAL	38533	22,651.06	8491	<div><div></div></div> 22.04	6,967.70	<div><div></div></div> 30.76
H_2a	308	139.99	59	<div><div></div></div> 19.16	41.76	<div><div></div></div> 29.83
H_2b	546	211.78	80	<div><div></div></div> 14.65	60.65	<div><div></div></div> 28.64
H_4b	824	543.33	170	<div><div></div></div> 20.63	132.66	<div><div></div></div> 24.42
H_1b	1068	461.49	194	<div><div></div></div> 18.16	108.15	<div><div></div></div> 23.43
H_6b	359	229.25	111	<div><div></div></div> 30.92	49.40	<div><div></div></div> 21.55
P_SPEC	5199	5,498.81	975	<div><div></div></div> 18.75	1,183.28	<div><div></div></div> 21.52
H_1a	1334	600.57	212	<div><div></div></div> 15.89	128.18	<div><div></div></div> 21.34
H_3b	395	194.45	31	<div><div></div></div> 7.85	32.60	<div><div></div></div> 16.77
H_6a	190	156.85	25	<div><div></div></div> 13.16	25.45	<div><div></div></div> 16.23
H_5a	788	488.75	146	<div><div></div></div> 18.53	76.06	<div><div></div></div> 15.56
H_4a	1129	416.28	140	<div><div></div></div> 12.40	50.42	<div><div></div></div> 12.11
P_ENG	43	24.61	6	<div><div></div></div> 13.95	2.92	<div><div></div></div> 11.88
H_3a	470	187.06	57	<div><div></div></div> 12.13	13.80	<div><div></div></div> 7.38
S_SPEC	1132	1,716.96	58	<div><div></div></div> 5.12	117.08	<div><div></div></div> 6.82
H_7b	1514	1,089.95	100	<div><div></div></div> 6.61	71.00	<div><div></div></div> 6.51



HERSCHEL SPACE OBSERVATORY



Search

Query Panels

Main Query Panel

Observation Id Obs. List Proprietary Status

Geometry Panel

Target

Shape

☒ Circle☒ Resolve Name☐ Equatorial☐ Galactic☐ Ecliptic

Centre Coordinates

Target Radius

Instruments Query Panel

Instrument

Obs. Type

☒ Standard DataAll
HIFI
PACS
SPIRE
SPIREPACS

HIFI

Single Point
Mapping
Spectral Scan

PACS

Pacs Photometer
Range Spectroscopy
Line Spectroscopy

SPIRE

Photometer
Spectrometer

SPIREPACS

Parallel Mode

Proposal Query Panel

Timing Constraints Query Panel

User Provided Data Products Panel (UPDP)

UPDP Search UPDP

- ☐ HERITAGE: PACS and SPIRE images and catalogues of the Magellanic Clouds
- ☐ HIFISTARS: HIFI spectroscopy of molecular lines in evolved stars
- ☐ HOP: Herschel Oxygen Project
- ☐ PEP_PACS: PACS images of six cosmological blank fields, ten lensing clusters and two z~1 clusters and

Log Console

Not Logged In

Proposal ID	Proposal Name	Release Note	User Provided Data Products Repository	Related Publications	Latest update	Ingested in HSA ?
KPOT_mmeixner_1	HERschel Inventory of The Agents of Galaxy Evolution (HERITAGE) in the Magellanic Clouds	HERITAGE README file	HERITAGE Data	Meixner et al. 2013	[16-Jul-2013]	YES
KPOT_ceiroa_1	Cold Disks around Nearby Stars. A Search for Edgeworth-Kuiper Belt analogues (DUNES: DUST disks around NEArby Stars)	The DUNES archive (Release Note)	DUNES Final Archive	Eiroa et al. 2013	[09-Jul-2013]	YES
KPGT_cwilso01_1	Physical Processes in the Interstellar Medium of Very Nearby Galaxies	VNGS Release note (SPIRE data) VNGS Release note (PACS data)	VNGS Data release (SPIRE data) and postcards VNGS Data release (PACS data) and postcards	Bendo et al. 2012	[14-Jun-2013]	YES
KPOT_pgolds01_1	Herschel Oxygen Project (HOP)	Data Release Document	HOP Data	Goldsmith et al. 2011	[6-May-2013]	YES
OT1_pharve01_3	The Auriga-California Molecular Cloud: A Massive Nearby Cloud With Powerful Diagnostics For Early Stages of Star Formation.	Harvey et al. 2013	Data Repository	Harvey et al. 2013	[11-Mar-2013]	YES
KPGT_dlutz_1	PACS Evolutionary Probe (PEP)	PEP Release Note (PACS data) PEP Release Note (SPIRE data)	PEP public data releases	Lutz et al. 2011 PEP related publications	[01-Mar-2013]	YES
KPGT_vbujarra_1	HIFISTARS: The physical and chemical properties of circumstellar environments around evolved stars	HIFISTARS Release Note	HIFISTARS Data Repository	Bujarrabal et al. 2012	[16-Nov-2012]	YES
KPOT_delbaz_1	The Great Observatories Origins Deep Survey : far-infrared imaging with Herschel (GOODS)	GOODS-Herschel release documentation	GOODS-North Data GOODS-South Data	GOODS-Herschel related publications	[12-Sep-2012]	NO
KPOT_rkennicu_1	Key Insights on Nearby Galaxies: a Far Infrared Survey with Herschel (KINGFISH)	KINGFISH Data Products Delivery - DR2 User's Guide	KINGFISH Data Products (DR2) repository	Kennicutt et al. 2011	[18-Jul-2012]	NO
KPGT_soliver_1	HerMES	HerMES Release note	HerMES Data Release	HerMES related publications	[13-Apr-2012]	NO
KPOT_ckrame01_1	Herschel M33 extended survey (HerM33es)	HerM33es : Herschel M33 extended survey - SPIRE Data Products Delivery User's Guide HerM33es: Herschel M33 extended survey - PACS Data Products Delivery User's Guide	HermesPublicData	Xilouris et al. 2012 Boquien et al. 2011 Kramer et al. 2010	[2-Mar-2012]	NO
KPOT_mjuvela_1	Galactic Cold Cores: A Herschel survey of the source populations revealed by Planck	ColdCores Release Note	ColdCores Data Repository	Juvela et al. 2010, 2011	[8-Sep-2011]	YES
KPOT_jdavie01_1	The Herschel Virgo Cluster Survey (HeViCS)	Data Reduction for HEViCS Public Data Release of 2 Scan Data	The first HeViCS public data release	The HeViCS papers	[2-Sep-2011]	NO
KPOT_seales01_2	H-ATLAS	First data release of the Herschel ATLAS	H-ATLAS SDP images and files H-ATLAS SDP catalogue	PACS maps (Ibar et al. 2010) SPIRE maps (Pascale et al. 2010) 5-band source catalogue (Rigby et al. 2010)	[24-Oct-2010]	NO

ESA News & Press Releases related to Herschel

HUG#6



Hunting high-mass stars with Herschel

ESA Space Science News - also in-depth on [ESA SciTech News](#)
27 March 2013



Herschel gets to the bottom of black-hole jets

ESA SciTech News
12 March 2013



Herschel to finish observing soon

ESA Space Science News - also in-depth on [ESA SciTech News](#)
5 March 2013



A cool discovery about the Sun's next-door twin

ESA Space Science News - also in-depth on [ESA SciTech News](#)
20 February 2013



Stars can be late parents

ESA Space Science News - also in-depth on [ESA SciTech News](#)
30 January 2013



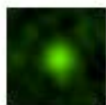
Cool Andromeda

ESA Space Science - Image of the Week
28 January 2013



Betelgeuse braces for a collision

ESA Space Science News
22 January 2013



Herschel intercepts asteroid Apophis

ESA Space Science News
9 January 2013



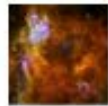
A Cradle of Stars

ESA Space Science - Image of the week
7 January 2013



HERSCHEL SPACE OBSERVATORY

ESA News & Press Releases relate



Hunting high-mass stars with Herschel

ESA Space Science News - also in-depth on [ESA SciTech News](#)
27 March 2013



Herschel gets to the bottom of black-hole jets

ESA SciTech News
12 March 2013



Herschel to finish observing soon

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Stars can be late parents

ESA Space Science News - also in-depth on [ESA SciTech News](#)
30 January 2013



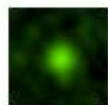
Cool Andromeda

ESA Space Science - Image of the Week
28 January 2013



Betelgeuse braces for a collision

ESA Space Science News
22 January 2013



Herschel intercepts asteroid Apophis

ESA Space Science News
9 January 2013



A Cradle of Stars

ESA Space Science - Image of the week
7 January 2013



Herschel helps find elusive signals from the early Universe

ESA Space Science News - also in-depth on [ESA SciTech News](#)
1 October 2013



Embracing Orion

ESA Space Science News
26 August 2013



Goodbye Herschel

ESA Space Science News
1 July 2013



Final command: Herschel ends operations as orbiting testbed

ESA Operations News
17 June 2013



There is more gas in the Galaxy than is dreamt of by astronomers

ESA SciTech News
11 June 2013



Rare merger reveals secrets of galaxy evolution

ESA Space Science News - also in-depth on [ESA SciTech News](#)
22 May 2013



Herschel finds hot gas on the menu for Milky Way's black hole

ESA Space Science News - also in-depth on [ESA SciTech News](#)
7 May 2013



Herschel closes its eyes on the Universe

ESA Press Release N° 11-2013
See also the [ESA Space Science](#) and [SciTech](#) web releases
29 April 2013



Herschel links Jupiter's water to comet impact

ESA Space Science News - also in-depth on [ESA SciTech News](#)
23 April 2013



Herschel and Hubble see the Horsehead in new light

ESA Space Science News - also in-depth on [ESA SciTech News](#)
19 April 2013



Star factory in the early Universe challenges galaxy evolution theory

ESA Space Science News - also in-depth on [ESA SciTech News](#)
17 April 2013



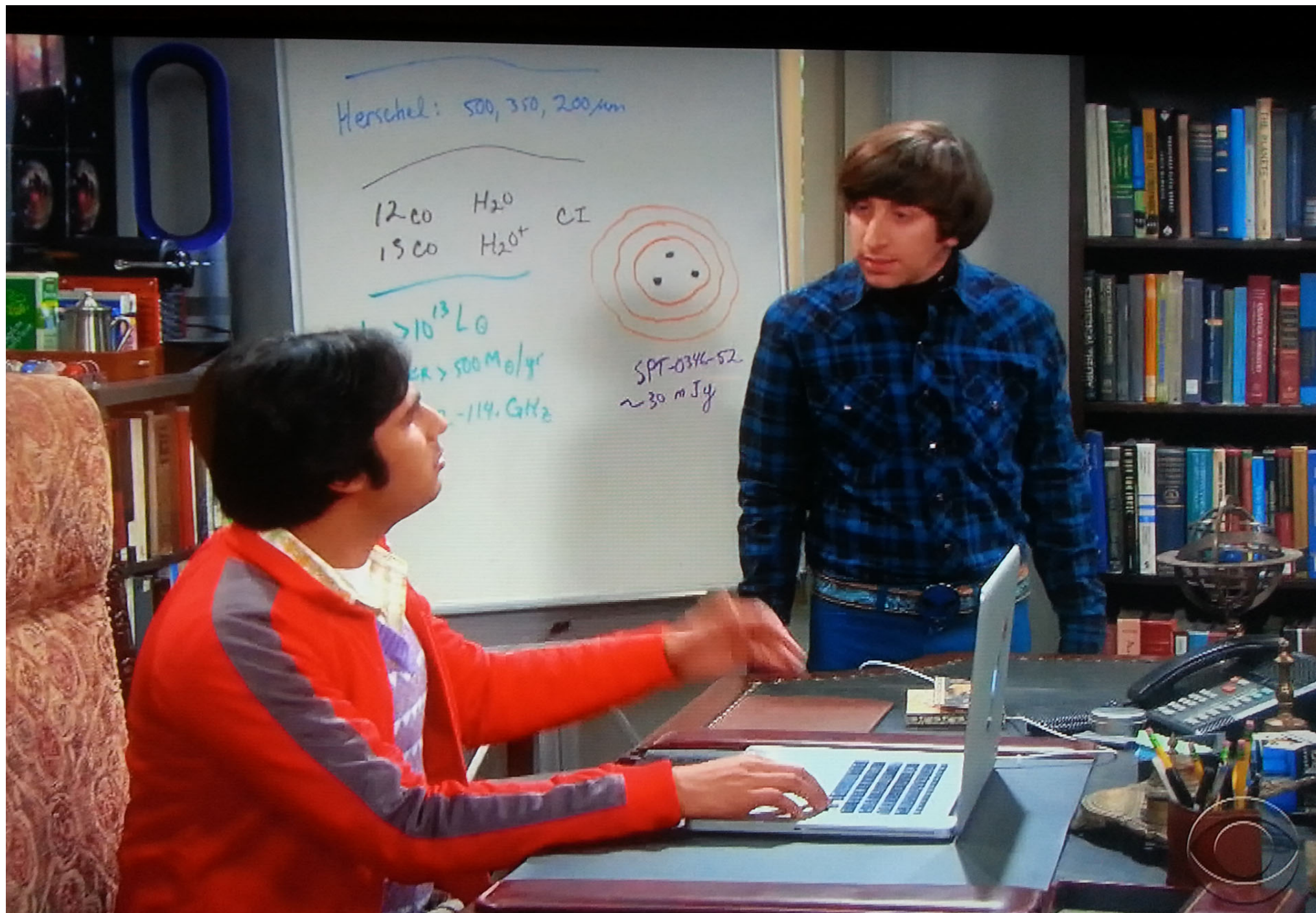
Retired star found with planets and debris disc

ESA Space Science News - also in-depth on [ESA SciTech News](#)
9 April 2013



Hunting high-mass stars with Herschel

ESA Space Science News - also in-depth on [ESA SciTech News](#)
27 March 2013



HUG#6 feedback

HSA & “standalone” products, Map-maker reports,
Way forward re implementation

“Standalone” HSA products – 1(6)



HUG#6 discussion of HSA and products

- The HUG want simple self-contained products (maps, spectra) as FITS files, as opposed to “giant tarballs” (observation contexts).
- These products should be “complete” and obtainable & usable outside of HIPE.
- Born: The concept of “standalone” (aka “export”) products – should be “easily” downloadable, and in addition to – not replacing – current SPG products.
- Initial discussion centred on providing easy/easier access to already existing higher level products in HSA, then additional wishes emerging.



HUG#6 minutes & global recommendations

- Argues SPG products might pose challenge for HSA users unfamiliar with HIPE.
- Aim is to make HSA and its products accessible for a broader community.
- Recommendations on “structure, format, and contents” of HSA products – including concept of “standalone” products.
- Stresses that “standalone” products should be provided in addition to current SPG products – which should remain unchanged.
- Easy access of “standalone” products – assume no HSA or HIPE proficiency.
- Sufficient resources to continue improving HSA is considered critical.

“Standalone” HSA products – 2(6)



HUG#6 minutes & specific recommendations



- Specific “standalone” product recommendations per sub-instrument provided, summarised in sec. 1 of the minutes, see also sec. 3.
- Related issue of map-making workshop reports under data processing, sec. 2&4.

Preliminary global feedback

- HUG#6 minutes were made available on 10 July 2013 – analysis mainly after the summer and is a continuing ongoing activity.
- General agreement about desirability of simplification and “de-HIPE-ing” of products – “standalone” products can be outside of observation contexts.
- Most/all recommended “standalone” products in principle possible – but not all are currently existing or even defined in some cases.
- Many/most but not all are necessarily considered good/best choices – further work and dialog with HUG is desirable.
- Complete cleanup of FITS keywords is underway, intention is to ensure completeness for the user and to enable future improved archive queries.
- ASCII output is not considered a good idea, due to loss of essential information.

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“Standalone” HSA products – 3(6)



Preliminary specific feedback - PACS



PACS-P

- Current level 2 or 2.5 products can be made available, but need to decide on map-maker (highpass and MADmap currently used, but others are available).
 - Comment: the whole issue of future map-maker is also being addressed.
- Some work needs to be done to offer “standalone” products, but not considered a major task and possibly can be done at archive level.

PACS-S

- What is currently visible in the browse products can be delivered as “standalone” products as FITS files on short timescale.
- Creating a 1d spectrum FITS file for central point source can/could be done.
- Creating products with regular wavelength grids is being worked on, but does involve resampling and some resulting degradation.
- ASCII products are not considered an option, standalone products will be FITS products in all cases.
- PACS-S team agrees that the structure of the current FITS files is difficult to understand, FITS files need clearer and grouped keywords.

“Standalone” HSA products – 4(6)



Preliminary specific feedback – SPIRE



SPIRE-P

- Current level 2.5 products can be made available as “standalone” FITS files, one multi-extension file per band, single-extension FITS files (sec.1.4.2) are not considered a good idea.

- Comment: the whole issue of future map-maker is also being addressed.
- Provision of beams (sec. 1.4.3) is under discussion. Full beams are available as separate FITS file products. Considered better to have keyword point to full beam information. Otherwise maybe simple beam information in header.

SPIRE-S

- Current level 2 FITS files (as available in HSA) can be provided.
- Creating a 1d spectrum FITS file for central point source could be done, it used to be done(!), but was changed in HIPE 11 to add the other detectors (as additional FITS extensions) in response to pressure from users to have access to point source calibrated off-axis detectors. Hesitation to “go back”.
- ASCII products are not considered an option.

“Standalone” HSA products – 5(6)



Preliminary specific feedback - HIFI



- Starting point: none of the suggestions is technically infeasible, but not all are considered advisable.
- Co-adding of H and V spectra in maps not obvious, as beams are offset from each other, more so in some bands than others.
- To produce CLASS products (sec.1.1.1) is in principle easy (in HIPE), but entails loss of information, worries about CLASS (already) evolving and products may (have) become unreadable.
- Providing finer granularity (sec.1.1.2) can be done (trivially in HIPE – remove one step of processing), and has been considered earlier by the ICC. Hesitation on also producing CLASS product (see above).
- Providing co-added spectra (sec.1.1.3) is possible, but questioned whether it should be done, in part due to considerations of beam offsets.
- Bottom line: The HUG recommendations will be a main topic of discussion in the upcoming HIFI ICC co-location on 21-25 October in Florence.

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“Standalone” HSA products – 6(6)



Envisaged way forward

Short-term (HSA 5.2 – months, goal by Xmas, HCSS 11.1 reprocessing)



- Currently existing products:
 - PACS & SPIRE level 2 or 2.5 maps, one FITS file per band,
 - PACS-S current browse products as FITS files,
 - SPIRE-S current level 2 products as FITS files,
- could be made available “as is” by changes to HSA.
- Preliminary foreseen implementation under study:
 - Right-click on “postcards” – get shopping basket.

Medium term (HCSS 12.1 – spring 2014 bulk reprocessing)

- PACS-S & SPIRE-S 1d spectra FITS files for central point sources (TBD).
- HIFI TBD products.

Long-term (HCSS 13.1 – spring 2015 bulk reprocessing)

- Photometry: Awaiting map-maker decisions re potential new products.
- PACS-S regular wavelength grid spectral cubes.
- TBD further products.

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Map-maker reports – 1(1)



Status and envisaged way forward



SPIRE

- Current schedule as recently reported:
 - Internal version circulated for comments, deadline on 10 October 2013.
 - Report made publicly available on 11 October 2013.

PACS

- Current – recently updated – schedule foresees:
 - Internal version for commenting to be circulated by 10 October 2013.
 - Draft report made available on 11 October 2013.
 - Public final version to be released by 1 November 2013.

Way forward

- Reports provide data but no clear recommendations, assessment underway.
- The aim is to reach a wide agreement on this in HST#53.
- If change of map-maker, decision would be needed by HSC/ICCs in 2013 for implementation in HCSS 13 => reprocessed archive contents in spring 2015.

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Way forward & HUG/HST – 1(1)



Envisaged way forward



HST#53 – to be held on 4-5 November 2013

- HST wants to have HSA “as major agenda point”
- Map-maker discussion/decision on way forward
- **HUG input to HST desirable & important** – bullets OK
- Remember Pls (in HST!) responsible for (they ‘deliver’ the) ICCs

HST#54 – provisionally to be held on 10-11 April 2014

- As discussed informally earlier
 - Would like to coordinate HUG & HST meetings
 - Would like to have HUG input for every HST meeting, from 2014 frequency of HST meetings lowered to twice per year
 - => HUG#8 in Feb/Mar 2014!?
- **I suggest (initially internal?) HUG discussion on this matter**
 - HST experience: decide on future meeting dates in meetings. It works!

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[illegible]