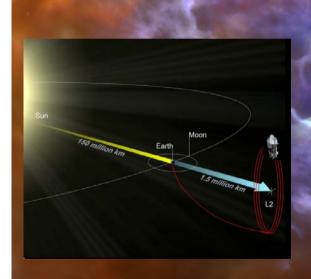
Herschel – The Legacy in the Making





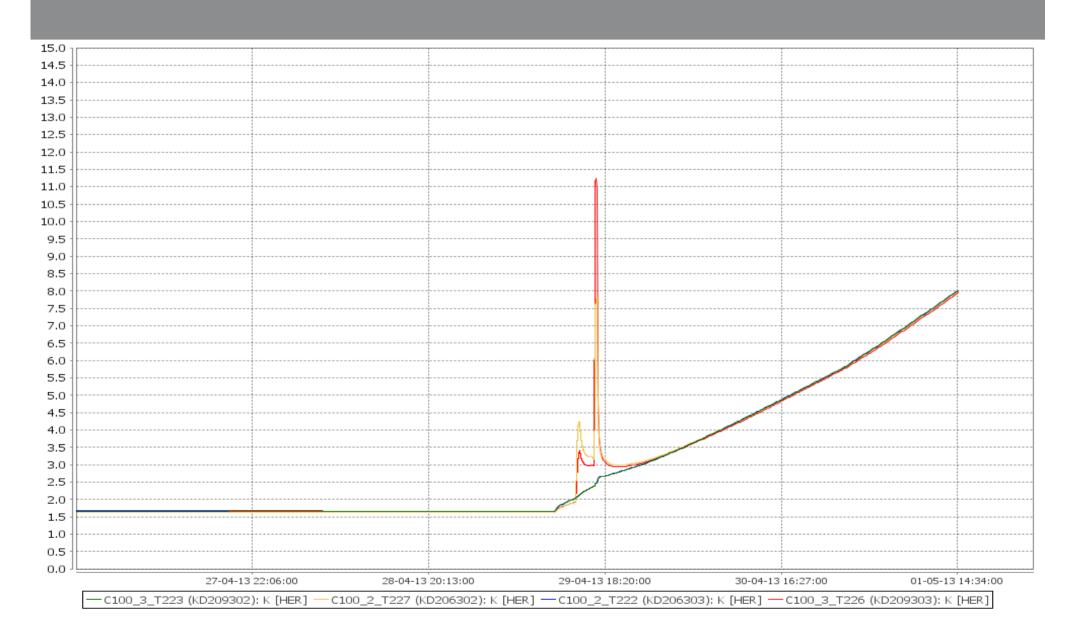
The Universe Explored by Herschel

15-18 October 2013, ESA/ESTEC, Noordwijk Göran Pilbratt, Herschel Project Scientist



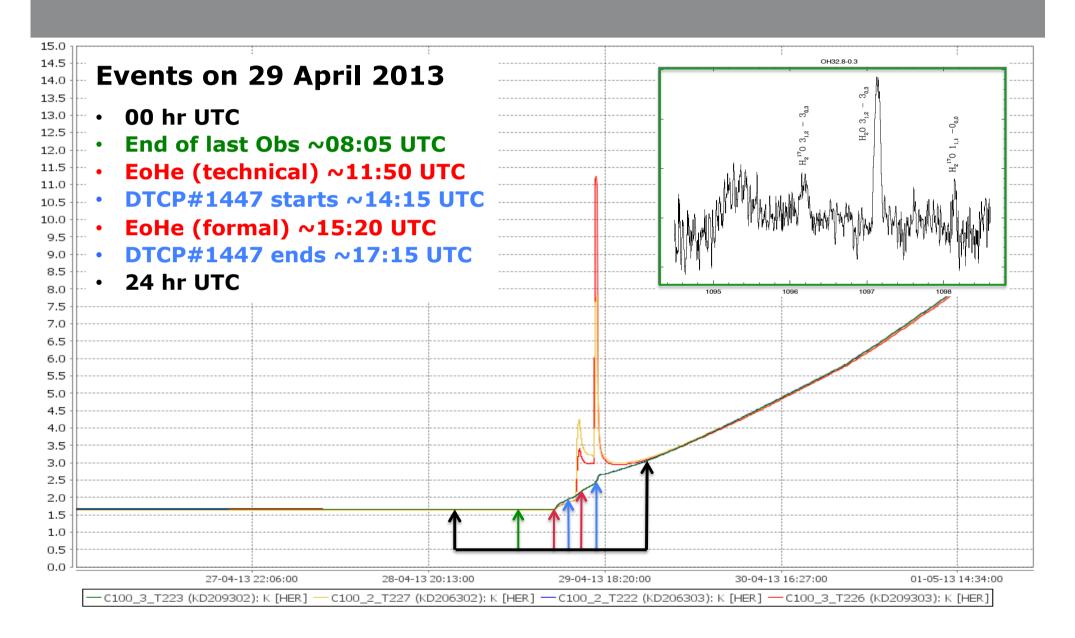
29 April 2013 - EoHe (level 0)





29 April 2013 - EoHe (level 0)





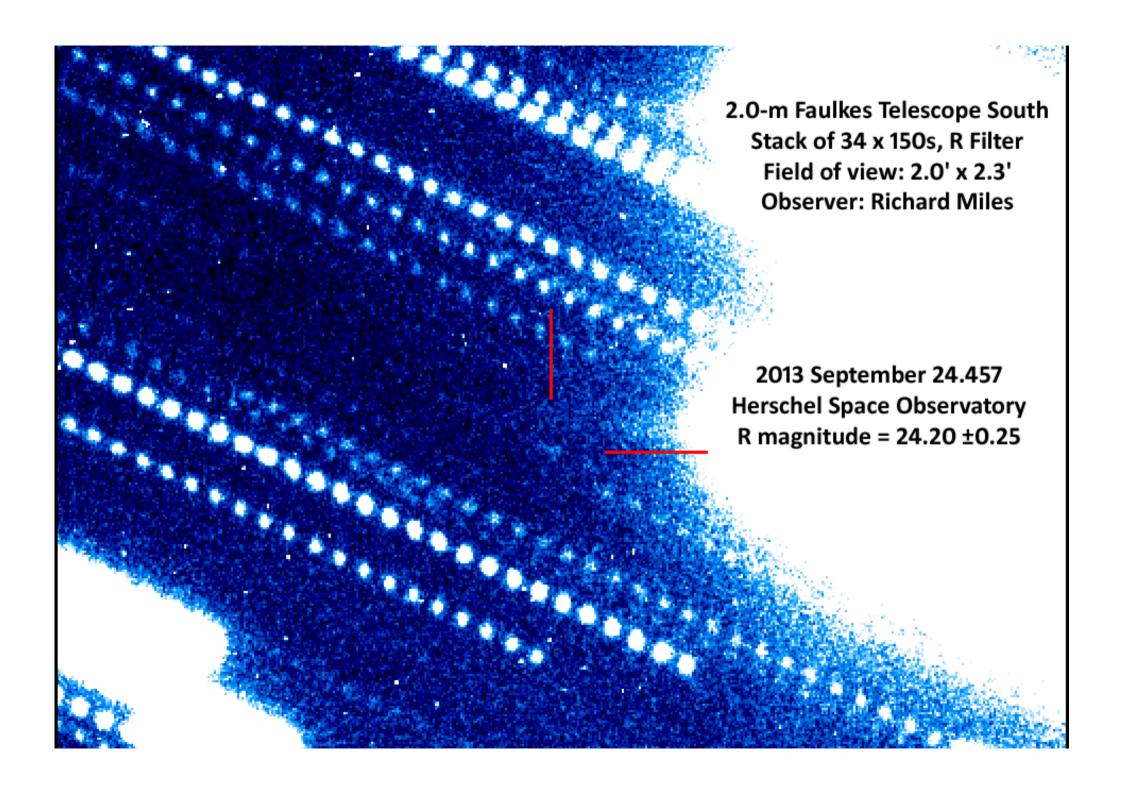






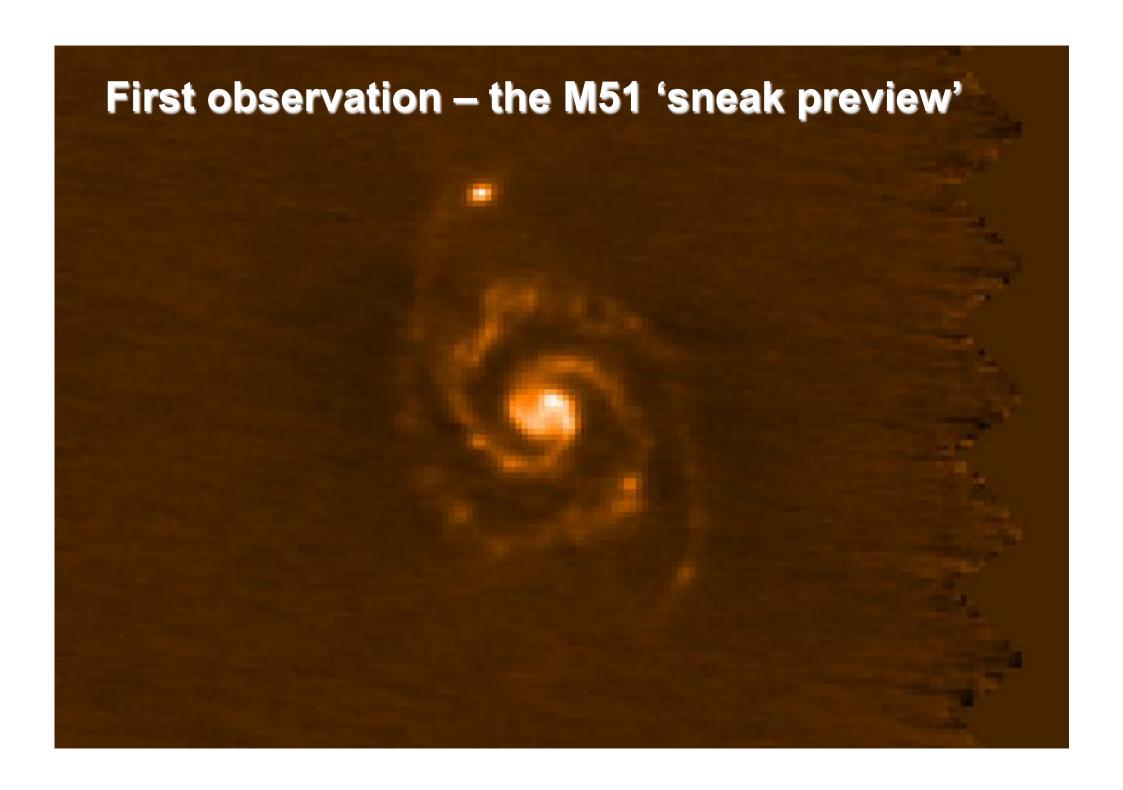






Auto 1st - C - Marie

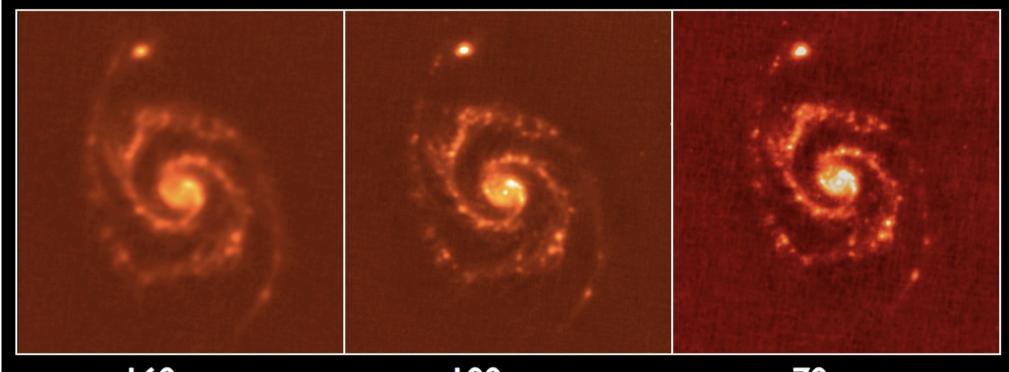




Herschel at 160, 100, and 70 um



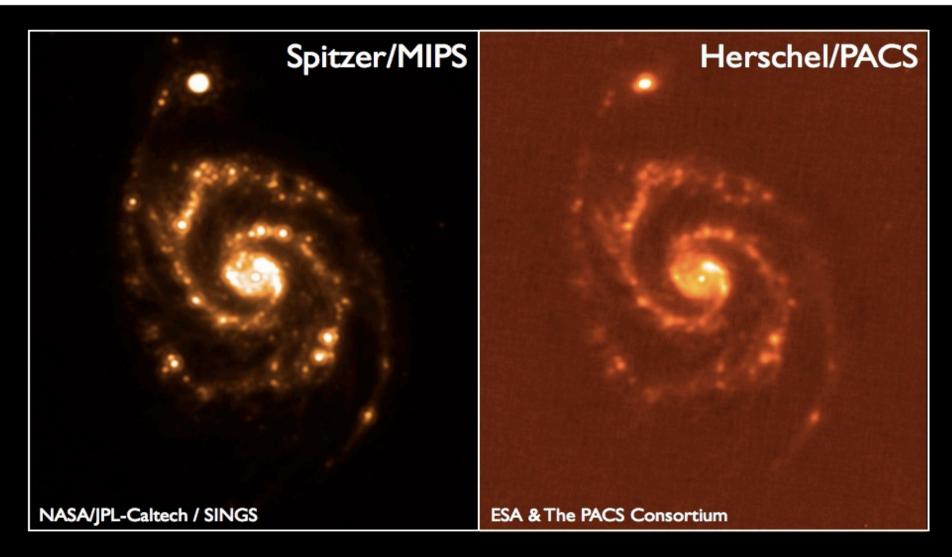
Herschel/PACS Images of M51 ("Whirlpool Galaxy")



© ESA & The PACS Consortium

Spitzer 24 um and Herschel 100 um

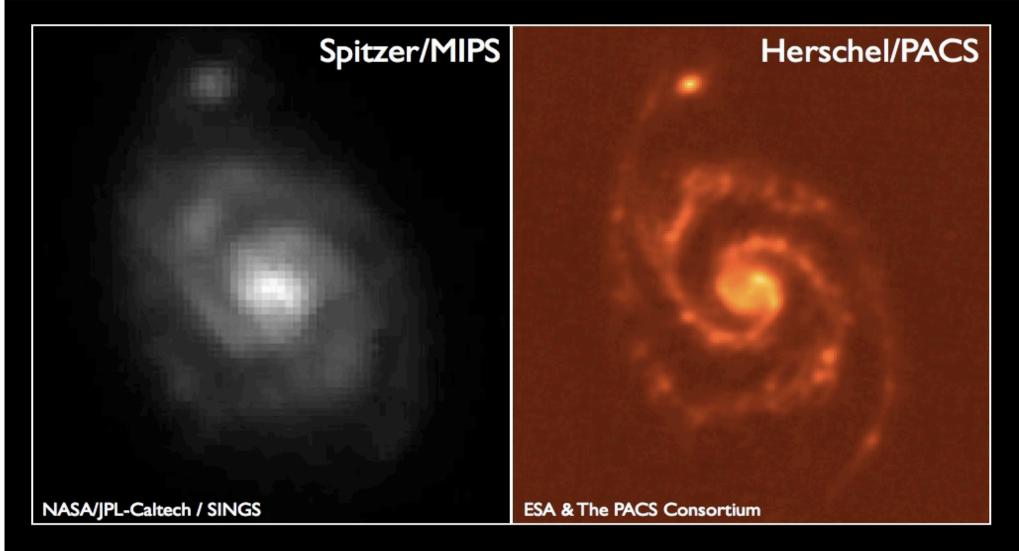




Spiral Galaxy M51 ("Whirlpool Galaxy") at 24µm (MIPS) and 100µm (PACS)

Spitzer/MIPS & Herschel/PACS at 160 um Sesa

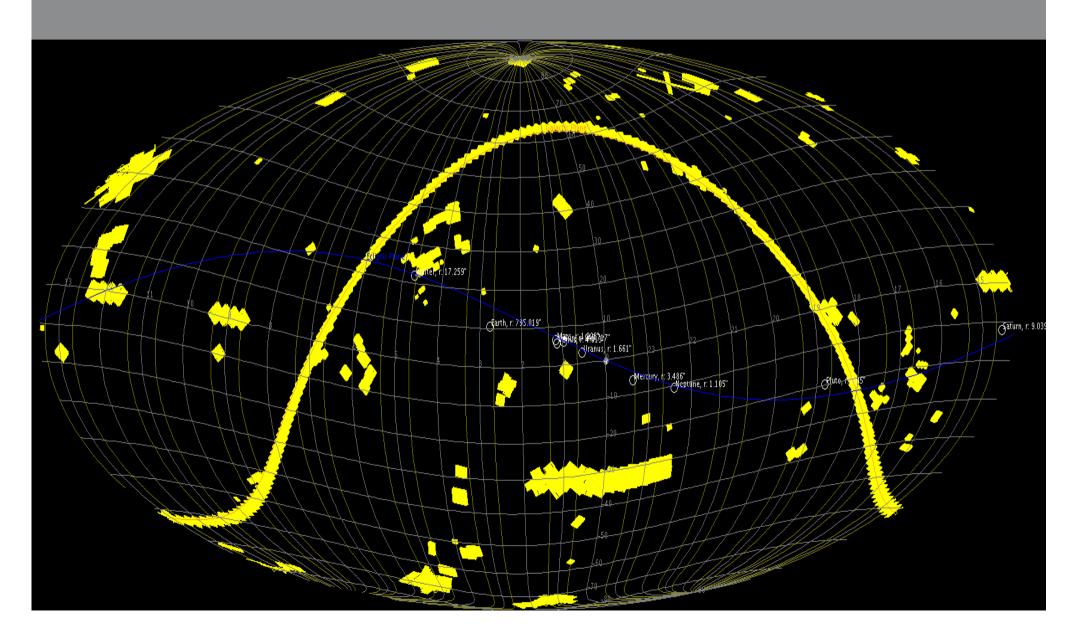




Spiral Galaxy M51 ("Whirlpool Galaxy") in the Far Infrared (160µm)

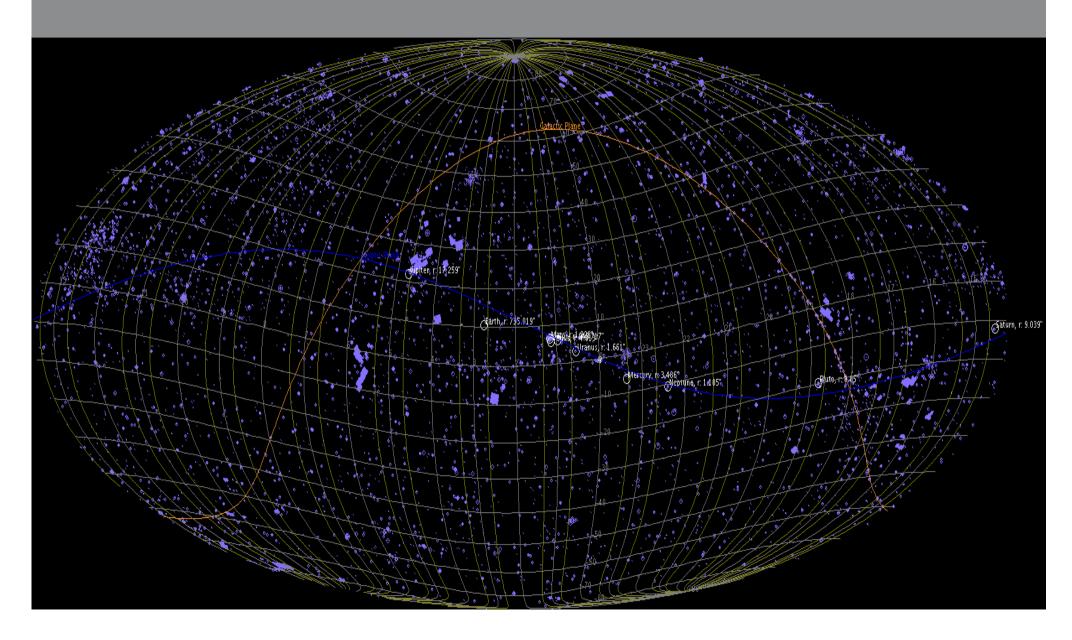
SPIRE/PACS parallel mode observing





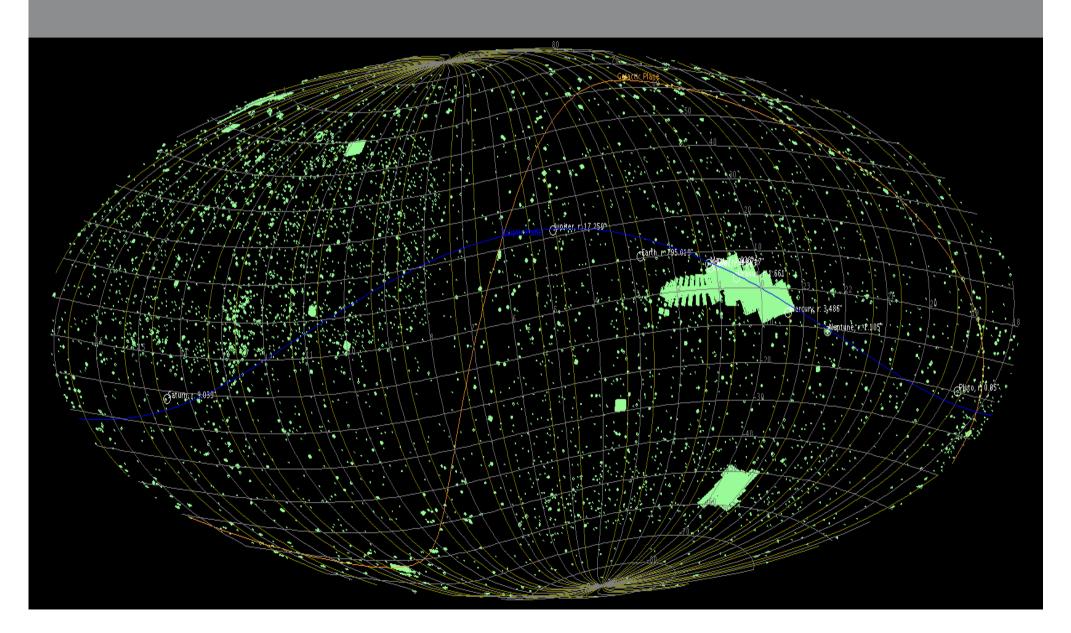
PACS photometry observing





SPIRE photometry observing

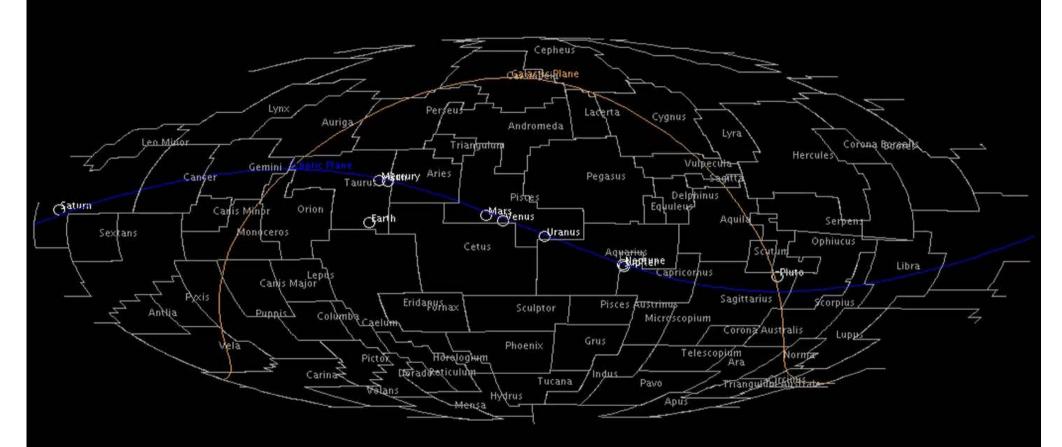




Herschel mission: impossible

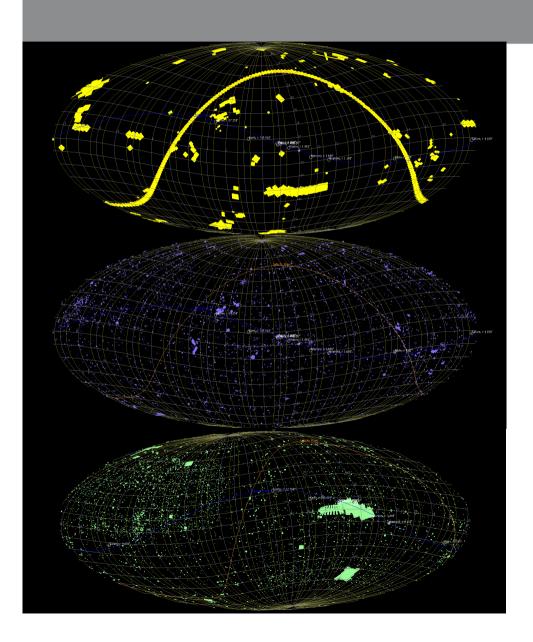
OD: 2

Epoch: 2009-05-16T10:51:28Z



Preliminary total sky coverage





Totals (uncert +/- 5%)

•	S/P	parallel	6.44
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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)

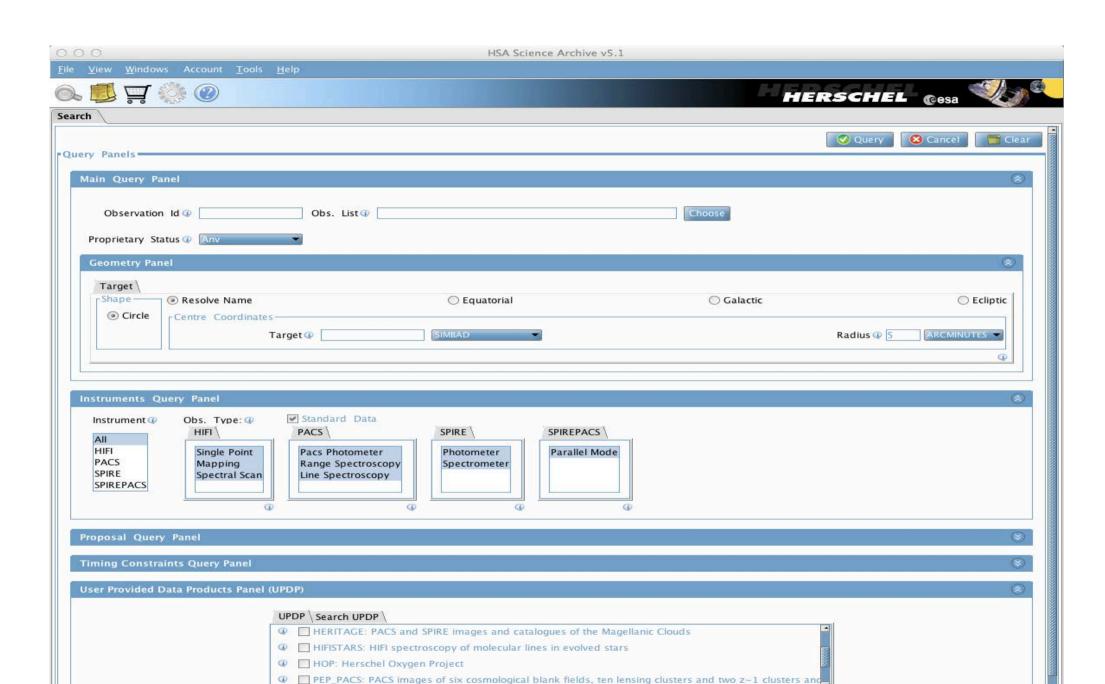
Herschel has observed almost 1/10 of the entire sky!

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







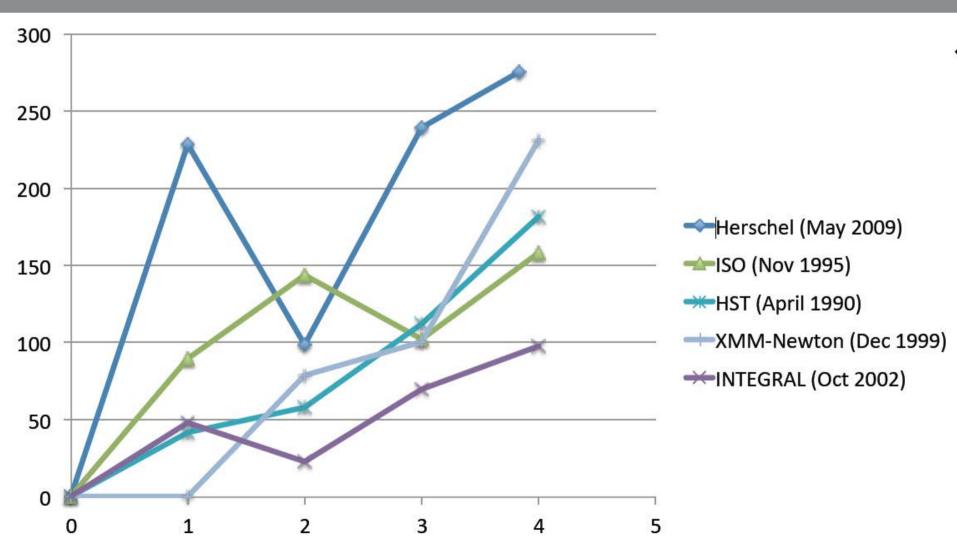


Log Console ₹ ₽ ×

#Pubs/yr vs calendar yr after launch

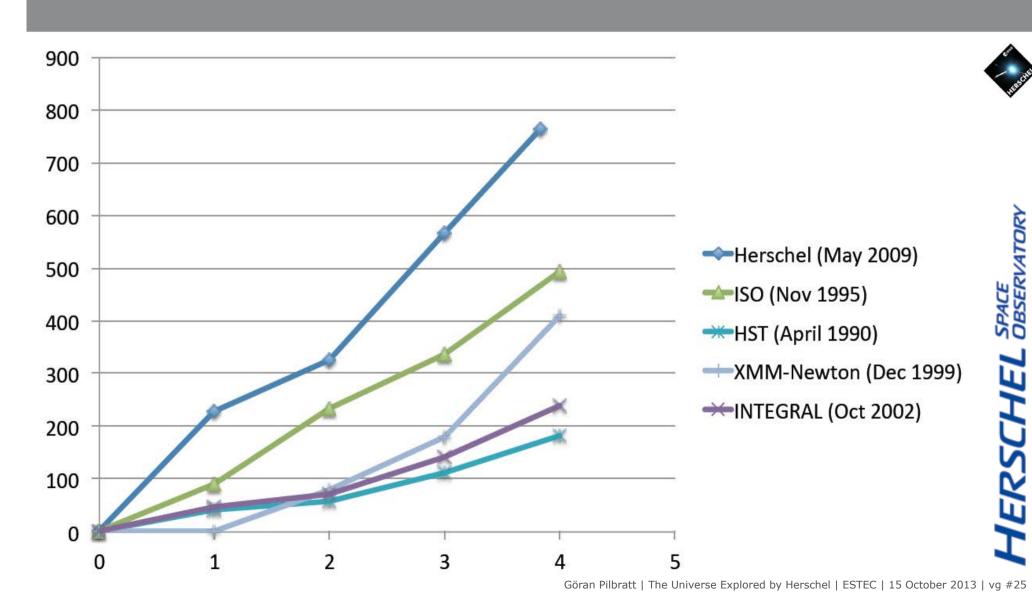


HERSCHEL SPACE OBSERVATORY



#Pubs vs calendar yr after launch







Name	Executed obs	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
тоо	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

Making the most of Herschel



End-of helium means end of observations, not end of mission Herschel is in post-operations phase until end 2017!



User support for ongoing data exploitation

- Helpdesk, documentation, web
- Workshops also over internet
- Visit the "HSC desk" in this meeting!
- Talk to members of the Herschel Science Team and Users' Group

Herschel Science Archive, products, & HIPE

- Calibration and data processing activities continue
- Annual releases of HIPE followed by bulk reprocessing
- Improvements to HSA itself and it products UPDP & "standalone" products

Communication

- This meeting is a celebration of Herschel science, emphasize its achievements
- We will have ESA science writers in the audience
- For science-driven ESA web-releases I am your contact point

ESA News & Press Releases related to Herso



Star factory in the early Universe challenges galaxy evolution theory ESA Space Science News - also in-depth on ESA SciTech News 17 April 2013



Herschel helps find elusive signals from the early Univere ESA Space Science News - also in-depth on ESA SciTech News 1 October 2013



Retired star found with planets and debris disc ESA Space Science News - also in-depth on ESA SciTech News 9 April 2013



Embracing Orion ESA Space Science News 26 August 2013



Hunting high-mass stars with Herschel ESA Space Science News - also in-depth on ESA SciTech News 27 March 2013



Goodbye Herschel ESA Space Science News 1 July 2013



Herschel gets to the bottom of black-hole jets ESA SciTech News 12 March 2013



Final command: Herschel ends operations as orbiting testbed ESA Operations News 17 June 2013



Herschel to finish observing soon ESA Space Science News - also in-depth on ESA SciTech News 5 March 2013



There is more gas in the Galaxy than is dreamt of by astronomers ESA SciTech News 11 June 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



Rare merger reveals secrets of galaxy evolution ESA Space Science News - also in-depth on ESA SciTech News 22 May 2013



Stars can be late parents ESA Space Science News - also in-depth on ESA SciTech News 30 January 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



Cool Andromeda ESA Space Science - Image of the Week 28 January 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



Betelgeuse braces for a collision ESA Space Science News 22 January 2013



Herschel links Jupiter's water to comet impact ESA Space Science News - also in-depth on ESA SciTech News 23 April 2013



Herschel intercepts asteroid Apophis ESA Space Science News 9 January 2013



Herschel and Hubble see the Horsehead in new light ESA Space Science News - also in-depth on ESA SciTech News 19 April 2013



A Cradle of Stars ESA Space Science - Image of the week 7 January 2013

