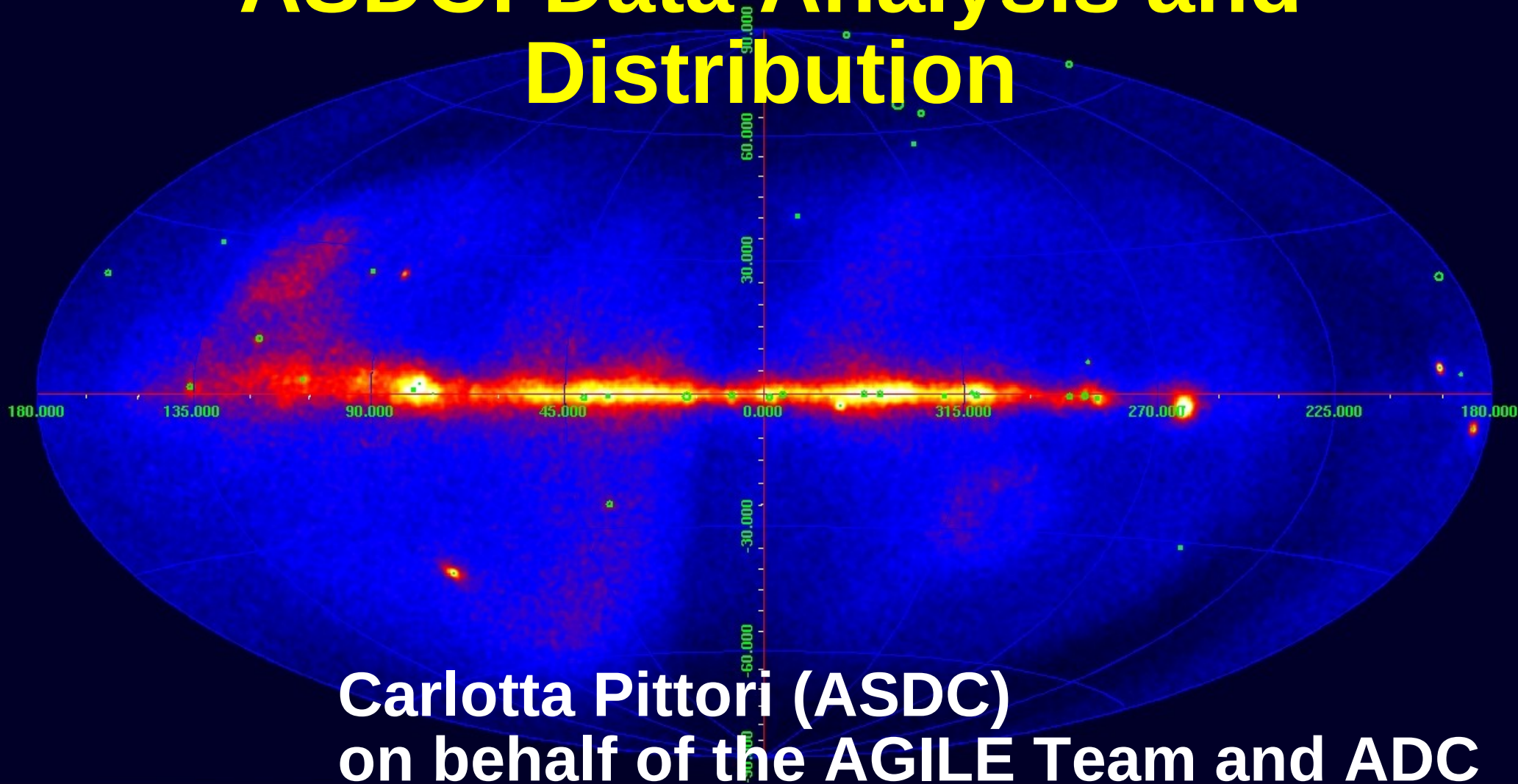
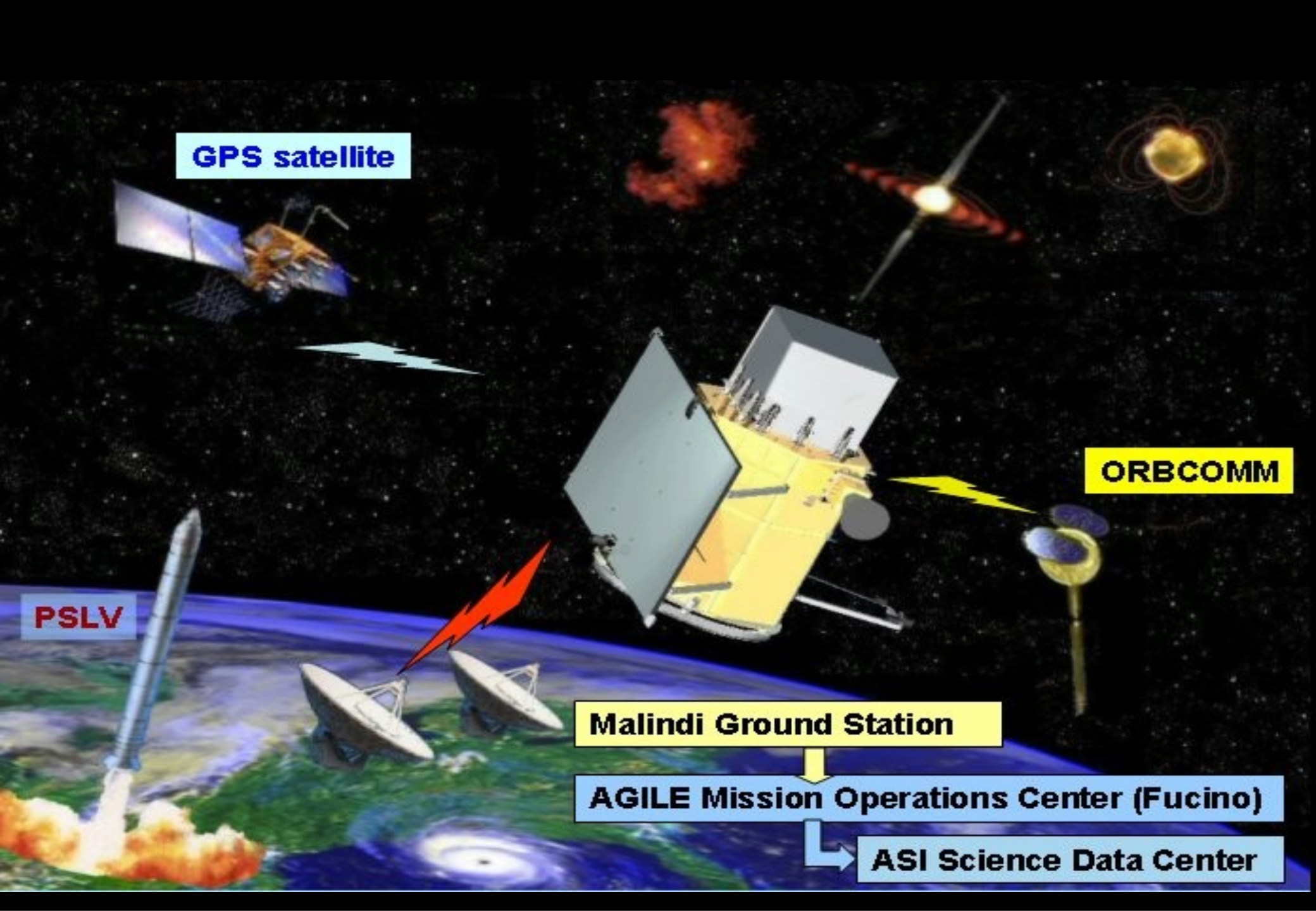


AGILE Data Center at ASDC: Data Analysis and Distribution



“AGILE: 2 years after”: Milano, April 22-23, 2009



GPS satellite

ORBCOMM

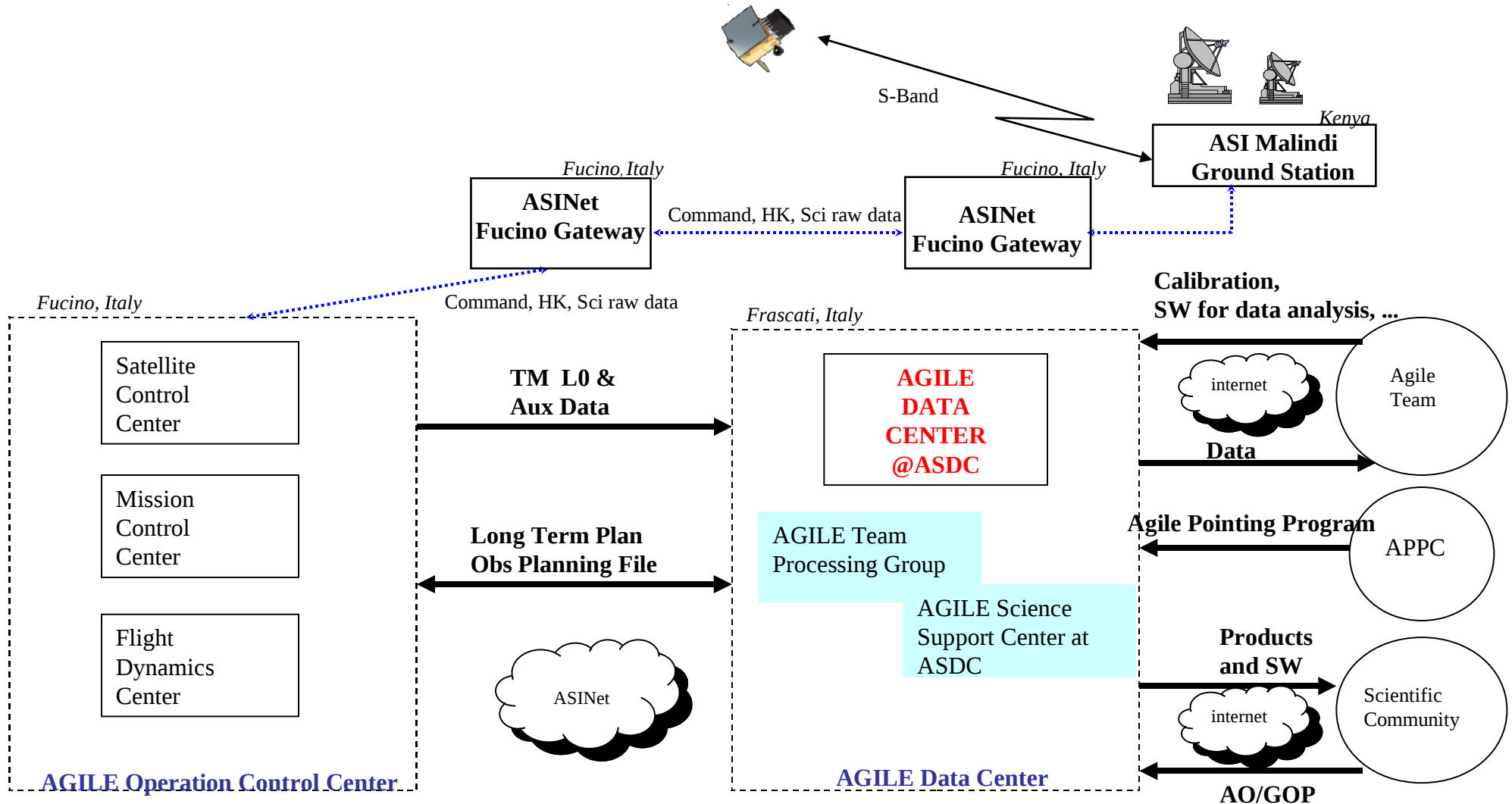
PSLV

Malindi Ground Station

AGILE Mission Operations Center (Fucino)

ASI Science Data Center

AGILE GS Architecture

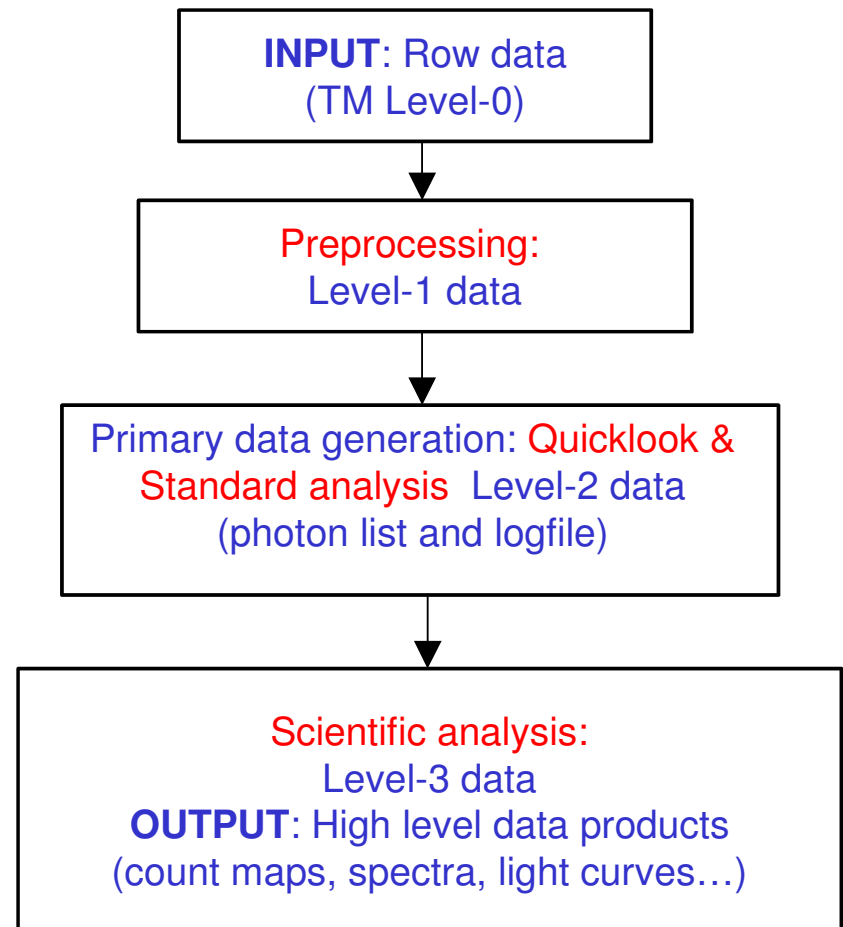


The AGILE Data Center at **ASDC** – ESRIN

- The ADC, based at ASDC-ESRIN, is in charge of **all the scientific oriented activities related to the analysis and archiving** of AGILE data:

From scientific telemetry (TM) Level-0:

- ✓ Preprocessing → Level-1 data
- ✓ Quick-Look Analysis (transient detection)
- ✓ Standard analysis → Level-2 data (photon list)
- ✓ Scientific analysis (source detection, diffuse gamma-ray background)
- ✓ Archiving and distributing **all scientific AGILE data**



Summary of ASDC activities for AGILE:

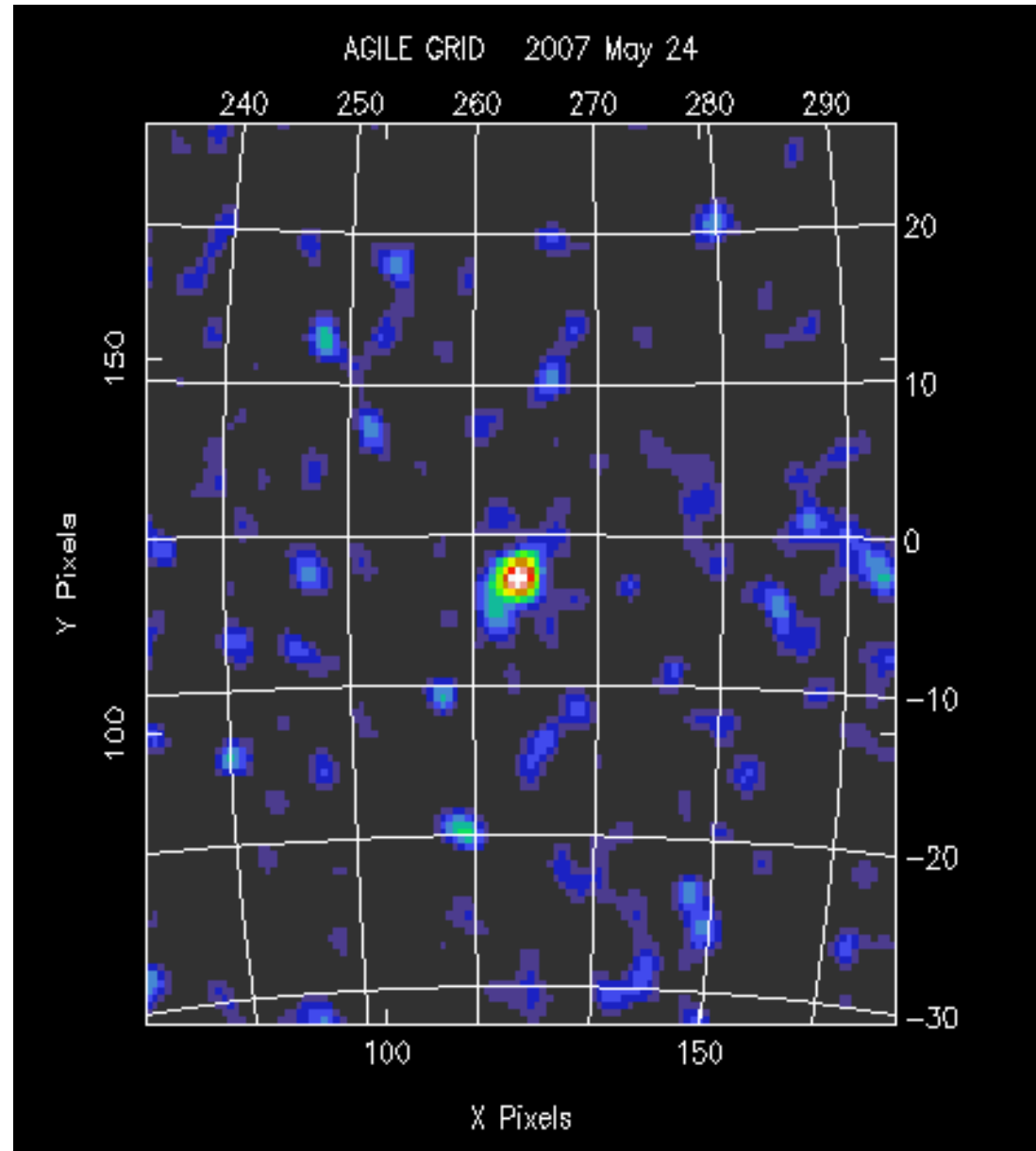
(from Agile Science Management Plan)

- Running the **Quick Look** Analysis
- Running the **standard data reduction** Analysis
- Performing, when necessary, the **Interactive** data Analysis
- Managing **Announcement of Opportunities**
- Contributing to the management of the **AGILE Pointing Program**
- **Archiving** all the data (raw, cleaned and calibrated, scientific)
- **Distributing** the data to the scientific community
- Providing scientific **support** to the users community
- Officially interface the project for both data and proposals via dedicated **web pages**
- Providing the standard **software support** for the data analysis

**First AGILE GRID light
ADC 24/5/2007**

Commissioning Phase:
AGILE Vela PSR Count Map

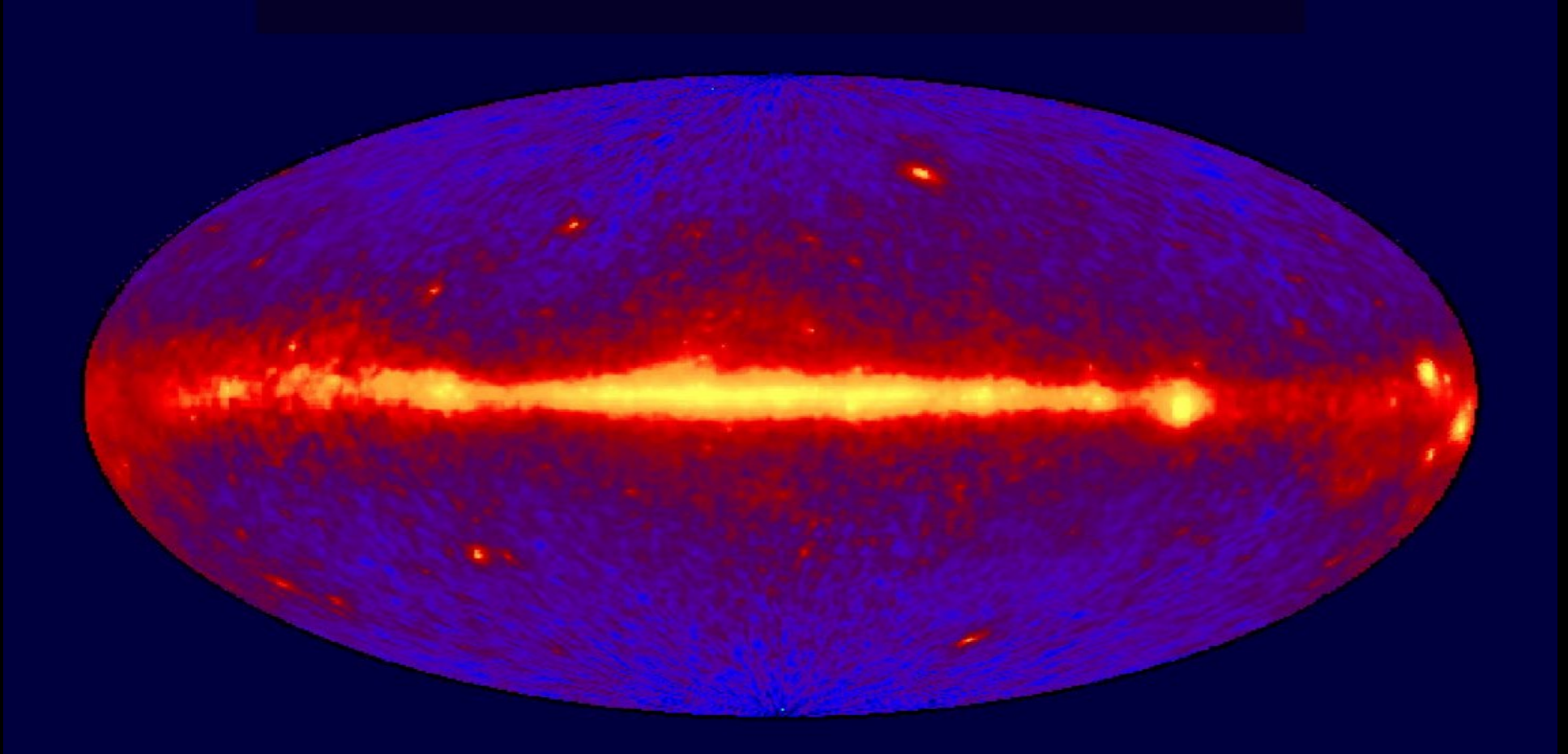
(~ 20000 s)



AGILE: 2 years in orbit

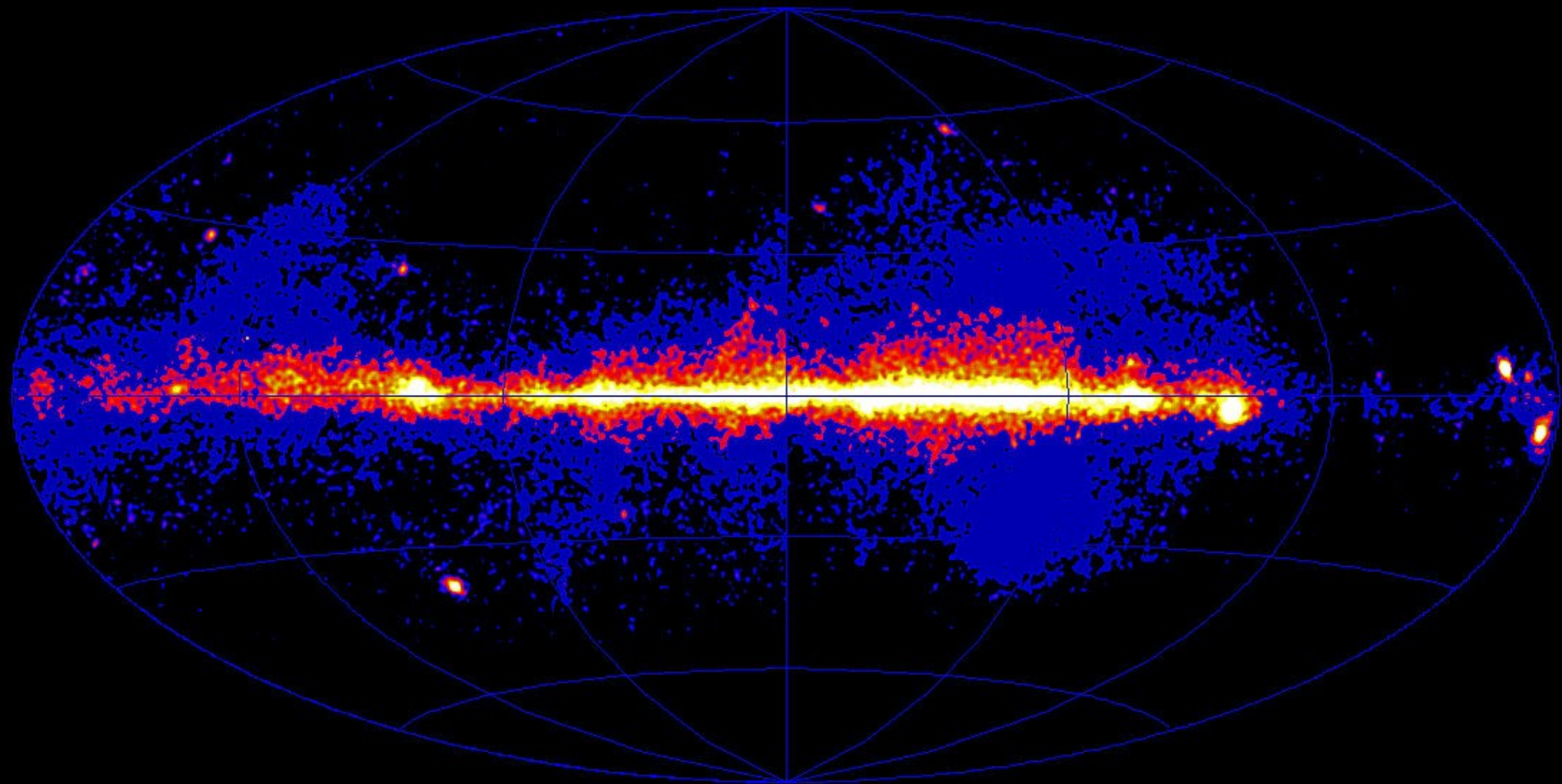
- AGILE demonstrates for the first time the covering of $\sim 1/5$ of the entire gamma-ray sky (FoV ~ 2.5 sr) with excellent angular resolution and competitive sensitivity.
- AGILE shows for the first time an optimal performance of its gamma-ray and hard X-ray imagers.
- 10290 orbits, April 21, 2009 ($\sim 94\%$ Fine Pointings)
- Very good scientific performance
- Scientific program open to the community: Guest Observer Program Cycle-1 completed (Dec. 1, 2007 - Nov. 30, 2008). Cycle-2: started on Dec. 1, 2008.

**The EGRET gamma-ray sky ($E > 100$ MeV)
9 years lifetime: 1991 - 2000**



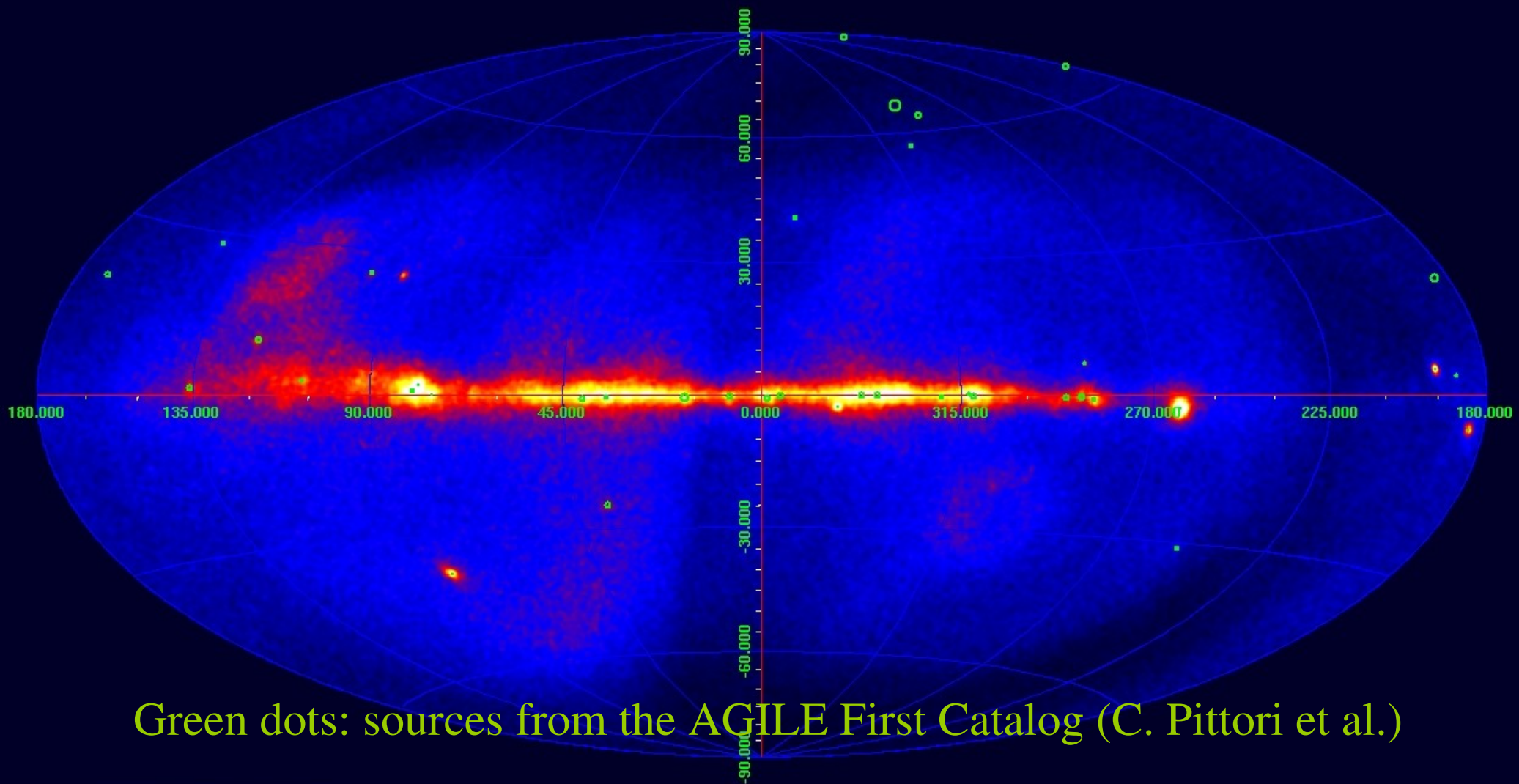
AGILE 1 year COUNT MAP

(July 2007- June 2008)



AGILE 2-years COUNT MAP

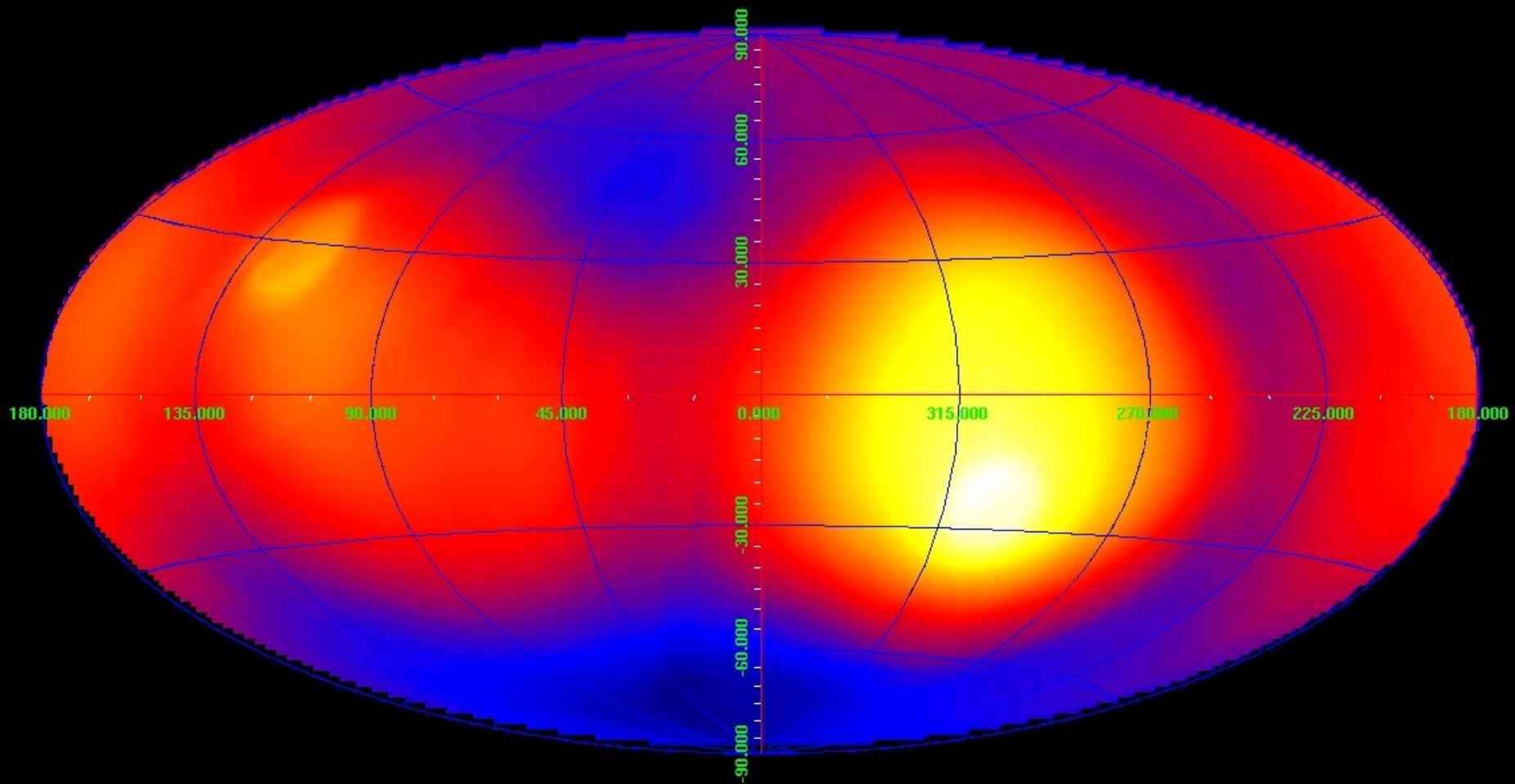
(July 2007- March 2009)



Green dots: sources from the AGILE First Catalog (C. Pittori et al.)

AGILE first year EXPOSURE MAP

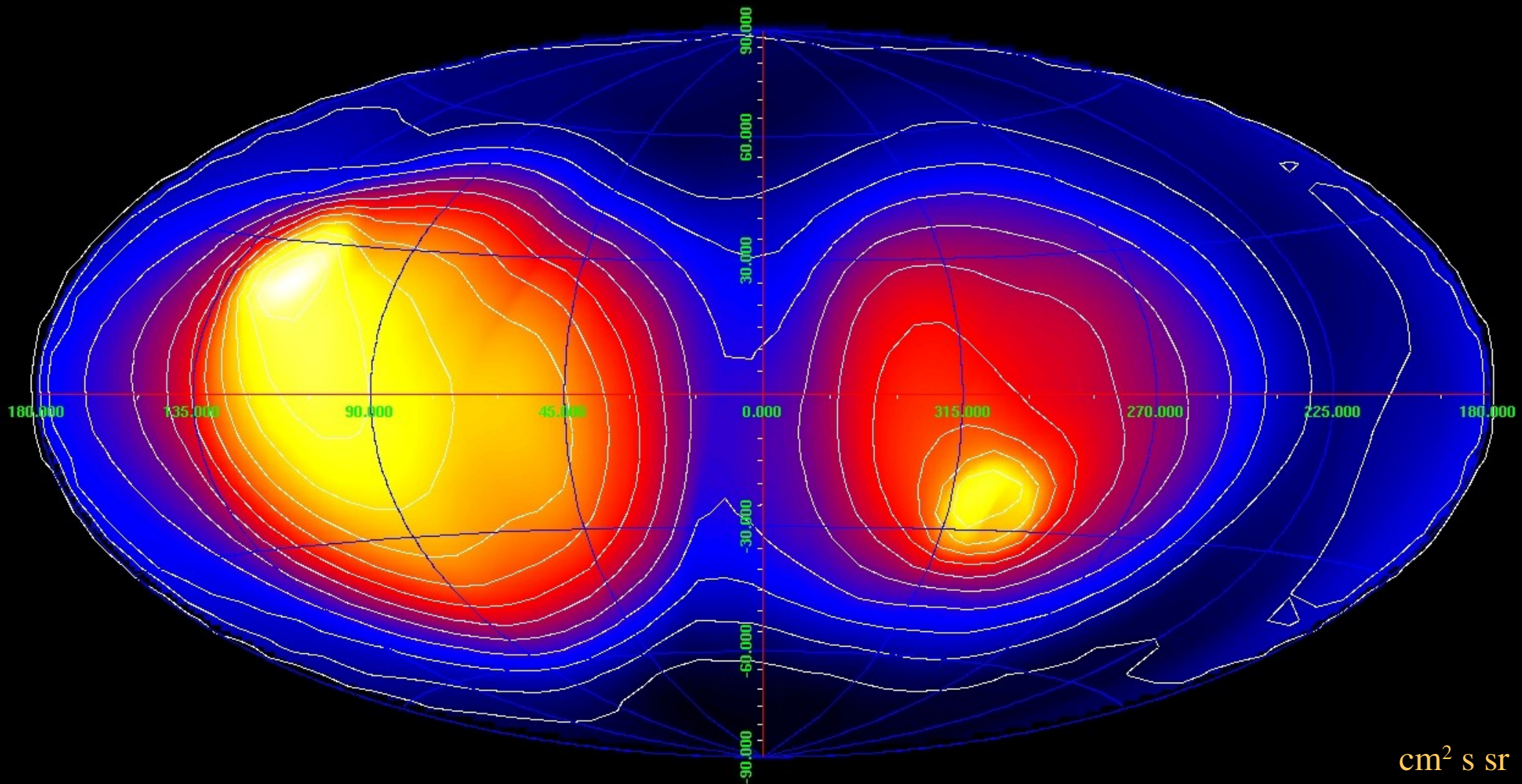
(July 2007- April 2008)



cm² s sr

AGILE 2-years EXPOSURE MAP

(July 2007- March 2009)

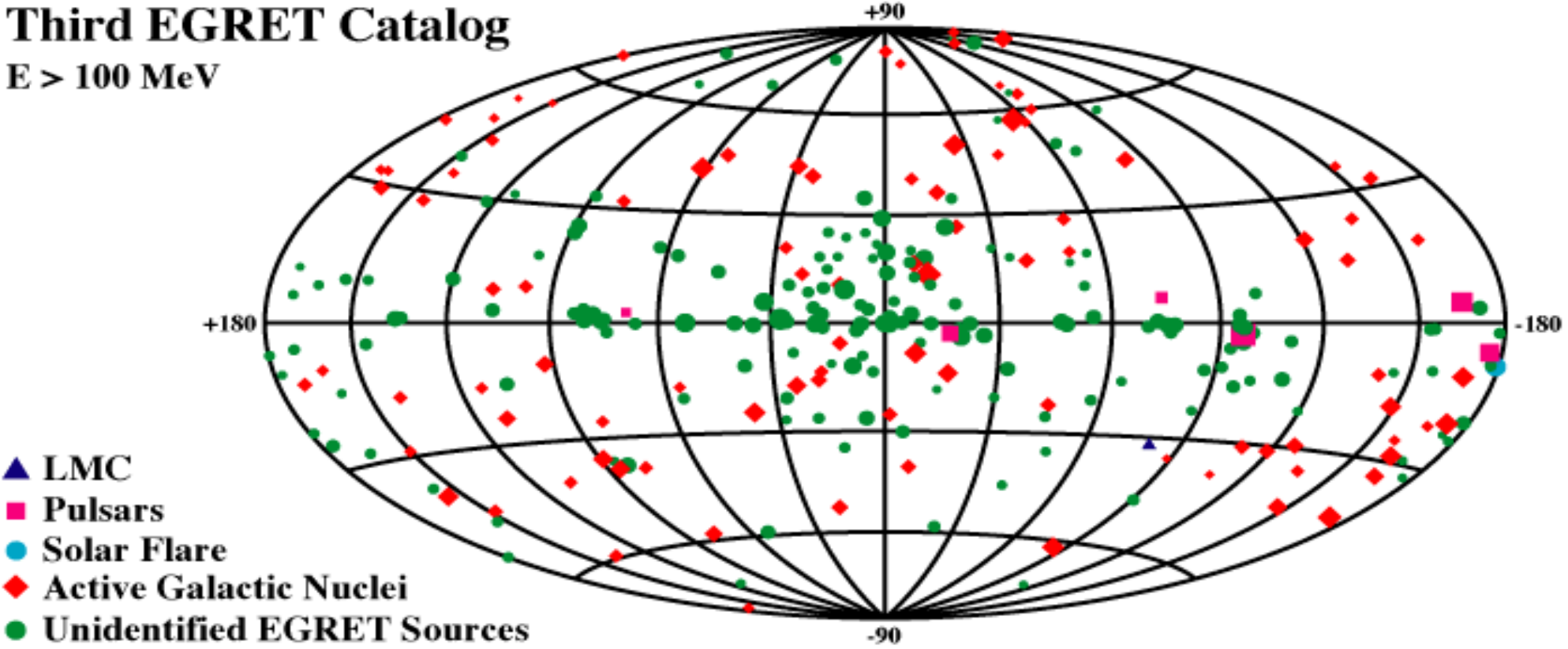


$\text{cm}^2 \text{ s sr}$

0 20000 40000 60000 80000 100000 120000 140000 160000

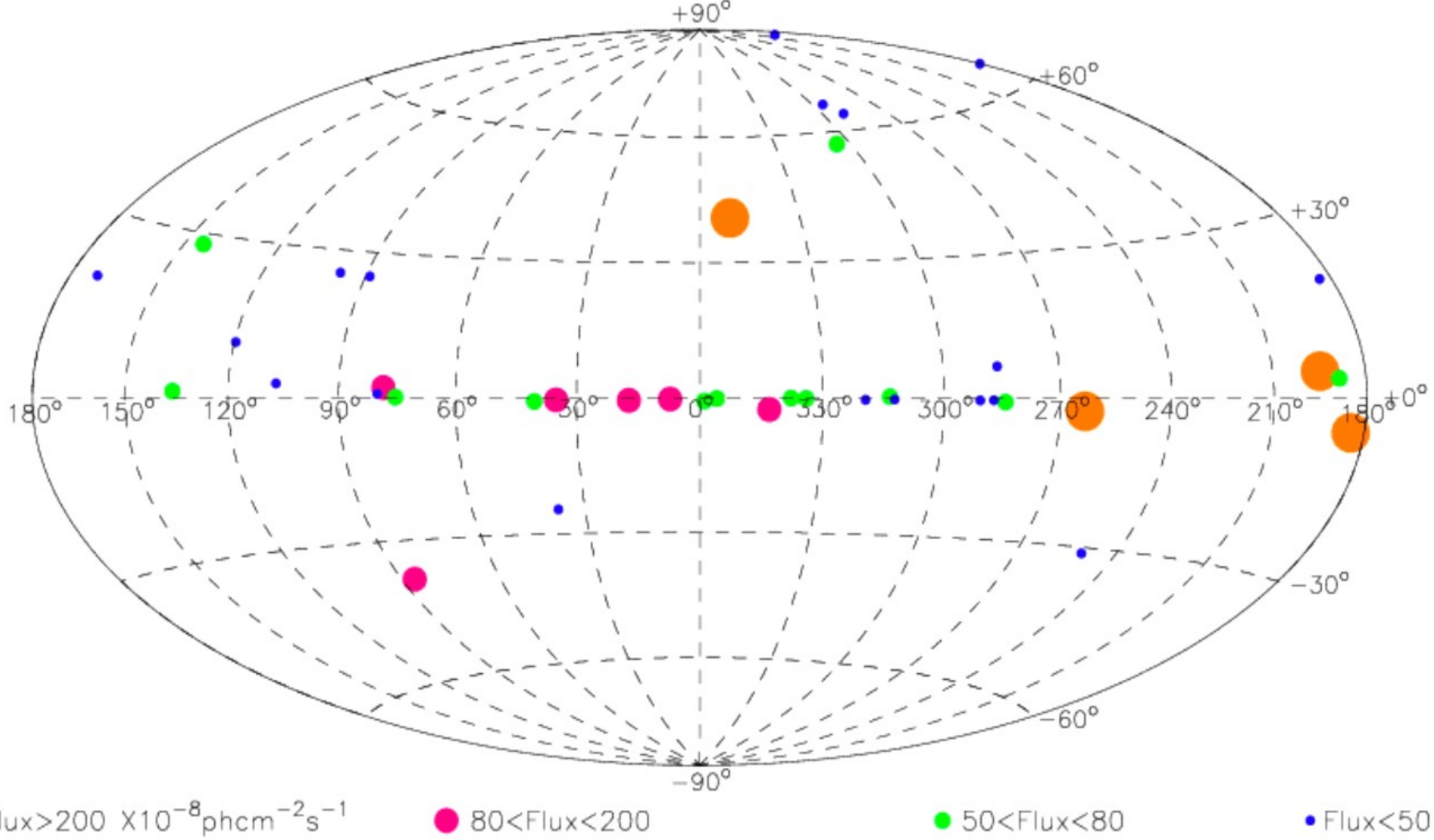
Third EGRET Catalog

$E > 100 \text{ MeV}$



AGILE First Source Catalogue

9 Julv 2007 to 30 June 2008



First AGILE Catalog: data analysis

AGILE pointings: predefined long exposures (10 - 30 days) drifting of about 1 degree per day with respect to the starting boresight direction to match solar panels constraints.

For the first AGILE catalog we adopted a **conservative analysis**, with a high-quality gamma event filter (filter F4 with relatively low effective area), optimized to select gamma-ray events within the central zone of the Field of View (radius of 30 degrees).

Merge of the entire “cleaned” dataset with healpix sky pixellisation.

AGILE source detection methods use a Maximum Likelihood (ML) analysis to derive the best parameters estimate for candidate sources, such as source significance, flux, and location.

High confidence detection:

- two independent automatic source detection strategies in cross-correlation
- statistical significance above 4 sigma
- manual refined analysis performed with a multi source likelihood analysis task

⇒ 40 validated, high confidence AGILE sources

First AGILE Catalog of High Confidence Gamma-Ray Sources

- Observations from 9 July 2007 to 30 June 2008 (first year of scientific operations)

40 high confidence sources $E > 100$ MeV:

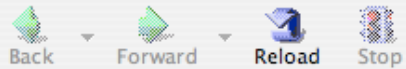
- 20 confirmed and candidate **Pulsars**,
- 13 **Blazars** (7FSRQ, 4BL Lacs, 2 unknown type),
- 2 possible **HMXRBs**,
- 2 possible **SNRs**,
- 3 **Unidentified** sources.

Revised version to be submitted to the A&A referee:

4 sources added from refined analysis of complex regions

Interactive on-line version of the The First AGILE

Catalog from ADC web page <http://agile.asdc.asi.it/>


<http://www.asdc.asi.it/agilebrightcat/>

[Home](#) | [Bookmarks](#) | [Google](#) | [AGILE](#) | [GLAST](#) | [ASDC](#) | [WEBMAIL @ Roma2.i...](#) | [ASDC ASI Webmail](#) | [Libero](#) | [INFN - Istituto Nazio...](#) | [Dipartimento di Fisi...](#)
[The First AGILE-GRID Source ...](#)

Entry number		AGILE Name	RA (J2000)	Dec (J2000)	Position Error 95% (deg)	sqrt(TS)	Mean Flux E>100MeV (10 ⁻⁸ ph/cm ² /s)	Mean Ring Exposure (cm ² day)	Classification	Confirmed Counterpart
			hh mm ss.d	dd mm ss.d						
Subset selection mode:										
<input type="text" value="inclusive"/>										
<input type="checkbox"/> 1	Data Explorer	1AGL J0006+7311	00 06 34.2	+73 11 06.6	0.63	5.1	23 +/- 5	3486	GammaPulsar*	CTA1
<input type="checkbox"/> 2	Data Explorer	1AGL J0242+6111	02 42 13.6	+61 11 06.7	0.64	5.3	54 +/- 12	1356	HMXRB	LSI+61303
<input type="checkbox"/> 3	Data Explorer	1AGL J0535+2205	05 35 05.9	+22 05 41.7	0.09	47.2	220 +/- 15	3229	Pulsar	Crab
<input type="checkbox"/> 4	Data Explorer	1AGL J0538-4424	05 38 29.6	-44 24 17.8	0.5	5.9	43 +/- 10	934	Blazar-BLLac	PKS0537-44
<input type="checkbox"/> 5	Data Explorer	1AGL J0617+2236	06 17 21.7	+22 36 14.2	0.27	9.9	69 +/- 9	3229	Unclassified	---
<input type="checkbox"/> 6	Data Explorer	1AGL J0634+1748	06 34 15.8	+17 48 27.7	0.05	63	320 +/- 10	3229	Pulsar	GEMINGA
<input type="checkbox"/> 7	Data Explorer	1AGL J0657+4554	06 57 29.2	+45 54 14.5	0.55	5.8	31 +/- 6	2288	Blazar*	---
<input type="checkbox"/> 8	Data Explorer	1AGL J0714+3340	07 14 29.4	+33 40 37.3	0.85	4.2	18 +/- 5	2978	Blazar*	---
<input type="checkbox"/> 9	Data Explorer	1AGL J0722+7125	07 22 22.9	+71 25 31.1	0.37	10.9	68 +/- 9	1614	Blazar-BLLac	S50716+71
<input type="checkbox"/> 10	Data Explorer	1AGL J0835-4509	08 35 13.3	-45 09 09.0	0.09	41.7	780 +/- 32	933	Pulsar	VelaPSR
<input type="checkbox"/> 11	Data Explorer	1AGL J1022-5822	10 22 08.8	-58 22 17.0	0.36	10.1	59 +/- 7	5616	Unclassified	---



The ASDC Multi-frequency Data Explorer: Web and VO data access and tools - Netscape

File Edit View Go Bookmarks Tools Window Help

ASDC + VO Catalogs Interactive Data Access at ASDC Spectral Energy Distribution **Error circle EXPLORER** Full Entry Details

ASDC All Science Data Center

Entry ---
with sky coordinates Ra= 20 21 00.0 Dec=+40 17 59.9, L=78.05 b=2.00

arcmin

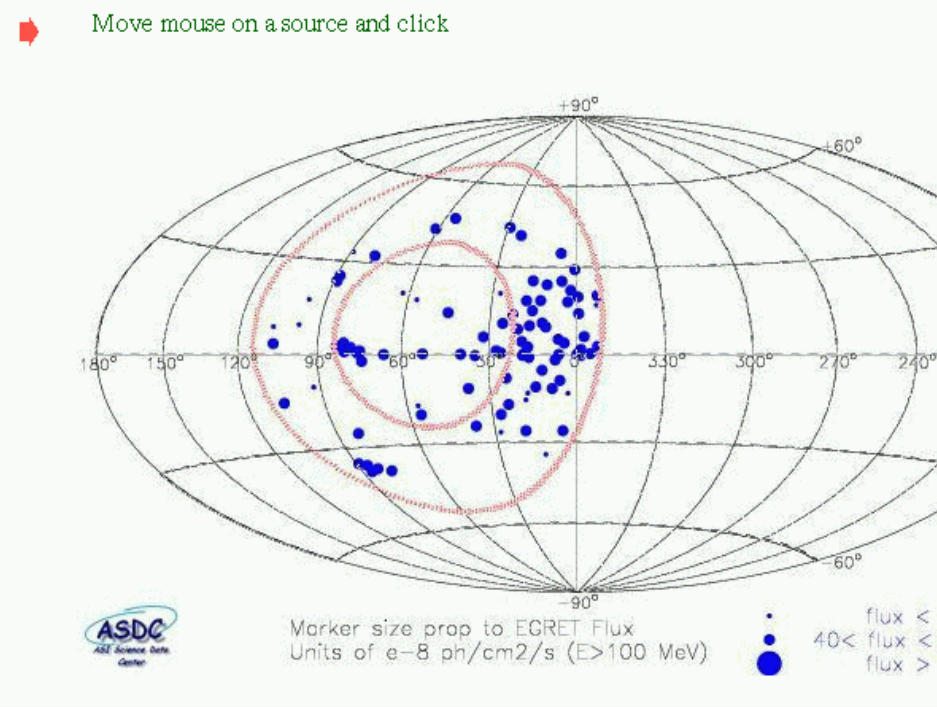
Zoom 30

Current position R.A.=20 21 00.0 Dec.=+40 17 59.9, L=78.05 b=2.00

Multi-λ measurements via ASDC Browse Multi-λ measurements via VO interface Opt-DSS from eso

Search radius 0.2 arcmin

STSCI MAST GSC2 2MASS NED SIMBAD HEASARC(X-R-G) VIZIER(X-R-G) ASDC-R ASDC-X SDSS USNO SDSS DR6 Navigate tool

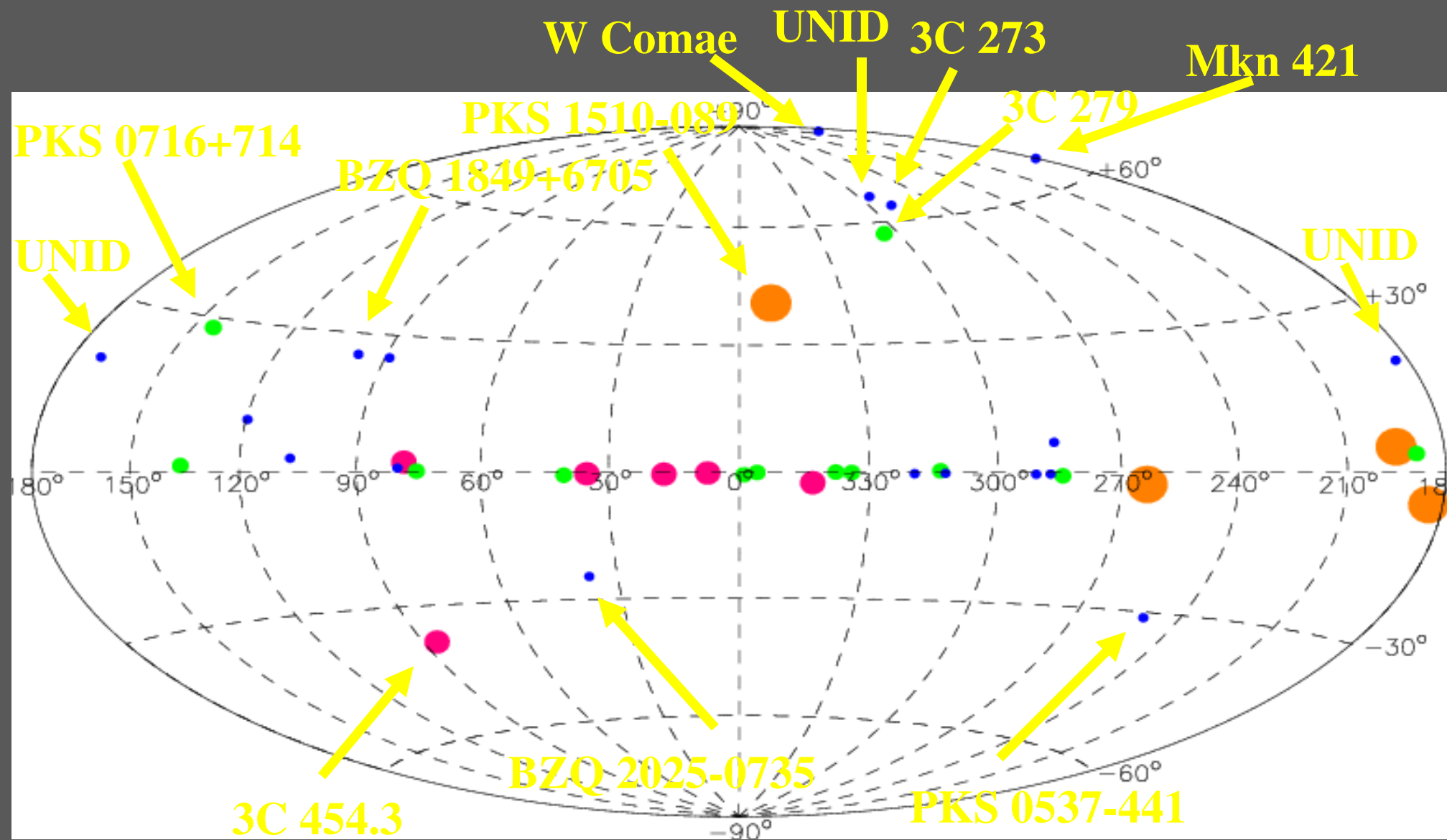


Gal. Center II	359.978	0.627	265.781	-2			
Anti-Center I	192.637	8.109	100.944	21			
SA Crab (8,24)	188.961	16.996	108.283	26			
SA Crab (15,26)	183.008	22.203	111.762	35			
Anti-Center II	197.296	15.717	110.404	20.758	2008-04-08 12:00	2008-04-10 12:00	
Vulpecula Field	53.039	6.474	286.259	20.819	2008-04-10 12:00	2008-04-30 12:00	
North Gal Pole	104.852	35.439	250.075	72.497	2008-04-30 12:00	2008-05-10 12:00	

AGILE name	RA (J2000.0) (hh mm ss)	Dec (J2000.0) (dd mm ss)	LII (deg)	BII (deg)	^a Pos. Error (95%) (deg)	sqrt(TS)	^b Mean Ring Exp ($\times 10^8$ cm ² s)	^c Mean Flux & Error ($\times 10^{-8}$ ph cm ⁻² s ⁻¹)	Classification	Confirmed Counterp.	Possible Counterp. & Other Names
1AGL J0006+7311	00 06 34.2	+73 11 06.6	119.65	10.6	0.63	5.1	3.01	23 ± 5	GammaPulsar*	CTA1	3EGJ0010+7309
1AGL J0242+6111	02 42 13.6	+61 11 06.7	135.88	1.13	0.64	5.3	1.17	54 ± 12	HMXRB	LSI+61303	3EGJ0241+6103
1AGL J0535+2205	05 35 05.9	+22 05 41.7	184.56	-5.63	0.09	47.2	2.79	220 ± 15	Pulsar	Crab	3EGJ0534+2200
1AGL J0538-4424	05 38 29.6	-44 24 17.8	250.44	-31.2	0.5	5.9	0.81	43 ± 10	Blazar-BLLac	PKS0537-441	3EGJ0540-4402 BZBJ0538-4405
1AGL J0617+2236	06 17 21.7	+22 36 14.2	189.04	3.07	0.27	9.9	2.79	69 ± 9	Unclassified	—	3EGJ0617+2238 IC443 PSRJ0614+2229
1AGL J0634+1748	06 34 15.8	+17 48 27.7	195.14	4.36	0.05	63	2.79	320 ± 10	Pulsar	Geminga	3EGJ0633+1751
1AGL J0657+4554	06 57 29.2	+45 54 14.5	170.73	20.11	0.55	5.8	1.98	31 ± 6	Blazar	—	BZUJ0654+4514 S40650+45
1AGL J0714+3340	07 14 29.4	+33 40 37.3	184.12	19.1	0.85	4.2	2.57	18 ± 5	Blazar	—	BZUJ0719+3307 GB20716+332
1AGL J0722+7125	07 22 22.9	+71 25 31.1	143.89	28.06	0.37	10.9	1.39	68 ± 9	Blazar-BLLac	S50716+714	3EGJ0721+7120 BZBJ0721+7120
1AGL J0835-4509	08 35 13.3	-45 09 09.0	263.52	-2.79	0.09	41.7	0.81	780 ± 32	Pulsar	VelaPSR	3EGJ0834-4511
1AGL J1022-5822	10 22 08.8	-58 22 17.0	284.39	-0.98	0.36	10.1	4.85	59 ± 7	Unclassified	(C)	3EGJ1013-5915 PSRJ1016-5857
1AGL J1043-5931	10 43 24.7	-59 31 44.7	287.34	-0.59	0.68	5.2	4.85	26 ± 6	Unclassified	(C)	3EGJ1048-5840 EtaCar PSRJ1048-5937
1AGL J1058-5239	10 58 31.1	-52 39 47.5	286.15	6.49	0.30	8.7	4.85	29 ± 4	Unclassified	—	3EG J1058-5234 PSRJ1057-5226
1AGL J1104+3754	11 04 38.5	+37 54 33.6	180.48	65.16	0.66	4.7	0.51	42 ± 13	Blazar-BLLac	Mkn421	3EGJ1104+3809 BZBJ1104+3812
1AGL J1108-6103	11 08 43.6	-61 03 54.3	290.83	-0.63	0.57	6.1	4.85	30 ± 6	Unclassified	—	3EGJ1102-6103 PSRJ1119-6127
1AGL J1222+2851	12 22 39.7	+28 51 02.3	196.09	83.42	0.74	4.7	0.50	38 ± 11	Blazar-BLLac	WComae	3EGJ1222+2841 BZBJ1221+2813 ON +231
1AGL J1228+0142	12 28 59.5	+01 42 41.3	290.04	64.02	0.71	4.7	1.98	24 ± 6	Blazar-FSRQ	3C273	3EGJ1229+0210 BZQJ1229+0203
1AGL J1238+0406	12 38 31.0	+04 06 14.2	294.74	66.77	1.23	4.7	1.98	25 ± 6	Blazar-FSRQ	—	3EGJ1236+0457 BZQJ1239+0443
1AGL J1256-0549	12 56 33.1	-05 49 42.6	305.27	57.02	0.32	10.2	1.98	65 ± 9	Blazar-FSRQ	3C279	3EGJ1255-0549 BZQJ1256-0547
1AGL J1412-6149	14 12 06.1	-61 49 32.5	312.3	-0.43	0.44	6.3	5.44	43 ± 7	Unclassified	(C)	3EGJ1410-6147 PSRJ1410-6132 G312.4-0.4

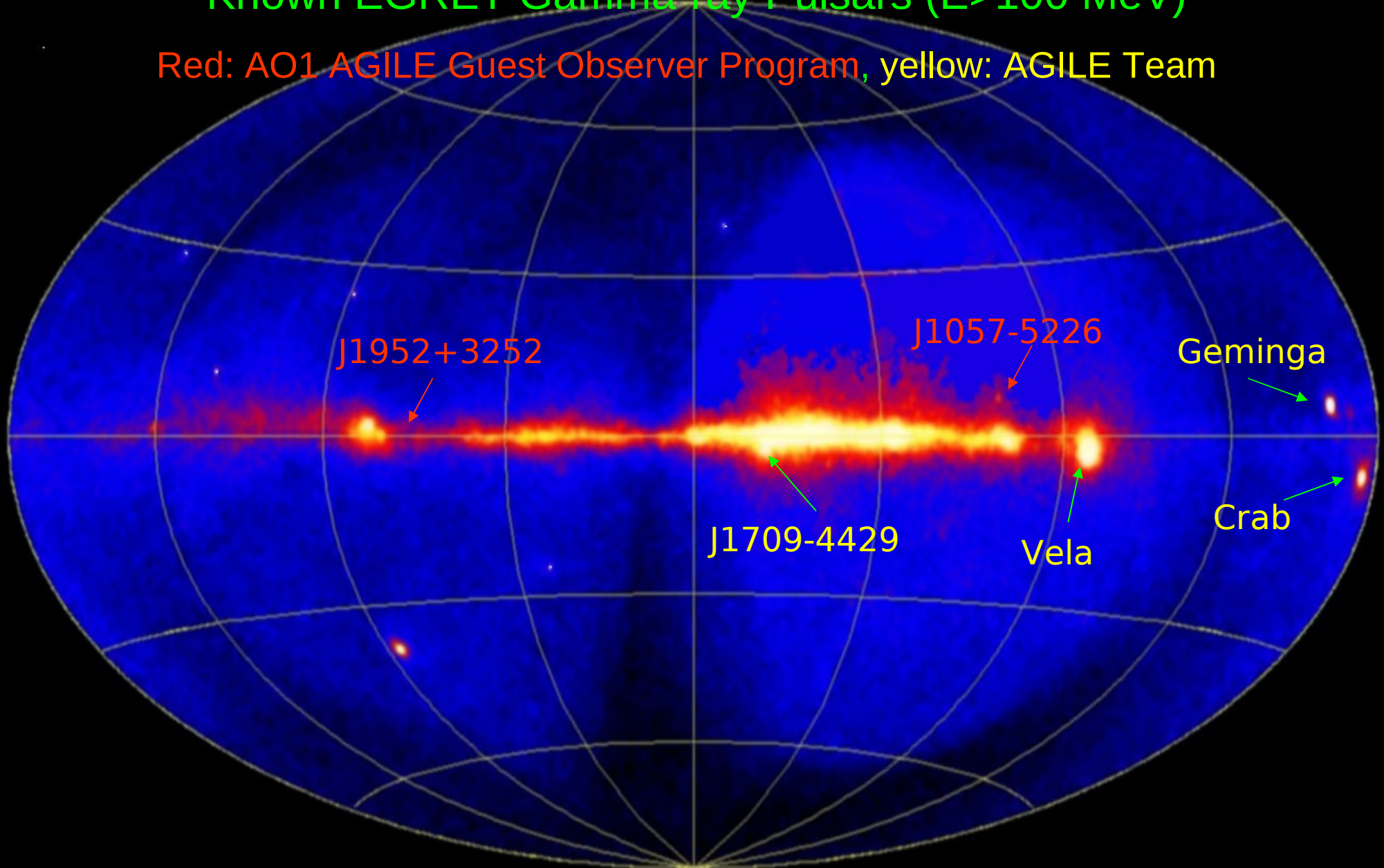
AGILE name	RA (J2000.0) (hh mm ss)	Dec (J2000.0) (dd mm ss)	LJI (deg)	BLI (deg)	^a Pos. Error (95%) (deg)	sqrt(TS)	^b Mean Ring Exp ($\times 10^6$ cm ² s)	^c Mean Flux & Error ($\times 10^{-11}$ ph cm ⁻² s ⁻¹)	Classification	Confirmed Counterp.	Possible Counterp. & Other Names
1AQL J1419-6055	14 19 51.2	-60 55 11.2	313.47	0.13	0.31	7.5	5.44	52 \pm 7	Undecided	(C)	3EQJ1420-6038 PSRJ1420-6048
1AQL J1506-5859	15 06 01.5	-58 59 13.5	319.52	-0.52	0.48	6.9	5.44	41 \pm 7	Undecided	—	PSRJ1509-5850
1AQL J1511-0908	15 11 38.5	-09 08 12.8	350.97	40.31	0.33	11.2	0.39	220 \pm 32	Blazar-PSRQ	PKS1510-089	3EQJ1512-0849 BZQJ1512-0905
1AQL J1634-4946	16 24 26.9	-49 46 51.9	334.09	-0.25	0.58	5.7	2.18	67 \pm 13	Undecided	—	PSRJ1623-4949
1AQL J1639-4702	16 39 05.5	-47 02 28.2	337.75	-0.15	0.53	6.4	2.18	76 \pm 13	Undecided	—	3EQJ1639-4702 PSRJ1637-4642
1AQL J1709-4428	17 09 12.6	-44 28 44.5	343.07	-2.64	0.20	13.8	2.18	120 \pm 11	Pulsar	PSRJ1709-4429	3EQJ1710-4439
1AQL J1736-3235	17 36 19.9	-32 35 00.8	355.85	-0.24	0.59	5.1	1.56	69 \pm 15	Undecided	(C)	3EQJ1734-3232
1AQL J1746-3017	17 46 01.5	-30 17 23.7	358.89	-0.78	0.68	4.4	1.56	66 \pm 16	Undecided	(C)	3EQJ1744-3011
1AQL J1803-2255	18 03 11.8	-22 55 00.6	7.19	-0.36	0.49	7.6	1.56	110 \pm 16	Undecided	(C)	3EQJ1800-2338 PSRJ1809-2306
1AQL J1824-1414	18 24 35.2	-14 14 30.9	17.23	-0.65	0.8	6.4	1.56	90 \pm 16	Undecided	—	3EQJ1823-1314 LS 5039 PSRJ1826-1334
1AQL J1836+5923	18 36 14.8	+59 23 30.4	88.84	24.99	0.17	15.6	5.52	45 \pm 4	Undecided	—	3EQJ1835+5918 BZBJ1841+5906 S41834+61
1AQL J1846+6714	18 46 19.6	+67 14 17.4	97.59	25.35	0.43	7.0	5.52	20 \pm 4	Blazar-PSRQ	—	BZQJ1849+6705 4C5620
1AQL J1857+0136	18 57 10.2	+01 36 42.6	35.02	-0.54	0.34	10.2	3.06	130 \pm 14	Undecided	—	3EQJ1856+0114 PSRJ1856+0113
1AQL J1908+0613	19 08 11.5	+06 13 29.3	40.38	-0.87	0.49	7.2	3.06	78 \pm 12	Undecided	—	3EQJ1903+0550 PSRJ1905+0616
1AQL J2021+3652	20 21 25.3	+36 52 32.6	75.28	0.07	0.19	14.2	8.31	65 \pm 5	Pulsar	PSRJ2021+3651	3EQJ2021+3716
1AQL J2024+4032	20 22 08.5	+40 32 13.4	78.37	2.04	0.12	23.4	8.31	120 \pm 7	Undecided	—	3EQJ2024+4017 SNR Gamma Cygni
1AQL J2026-0732	20 26 30.7	-07 32 45.3	37.05	-24.55	0.53	6.9	3.06	39 \pm 7	Blazar-PSRQ	—	3EQJ2025-0744 BZQJ2025-0735 PKS2023-07
1AQL J2032+4102	20 32 27.7	+41 02 00.0	79.91	0.74	0.41	6.8	8.31	37 \pm 6	Undecided	—	3EQJ2034+4118 CygX-3
1AQL J2231+6109	22 31 07.1	+61 09 46.7	106.82	2.76	0.29	8.4	6.26	32 \pm 5	Pulsar	PSRJ2229+6114	3EQJ2227+6122
1AQL J2254+1602	22 54 10.3	+16 02 32.6	86.09	-38.3	0.17	23.0	1.16	200 \pm 14	Blazar-PSRQ	3C4543	3EQJ2254+1601 BZQJ2253+1608

Gamma-ray brighter blazars detected by AGILE during first year



Known EGRET Gamma-ray Pulsars ($E > 100$ MeV)

Red: AO1 AGILE Guest Observer Program, yellow: AGILE Team



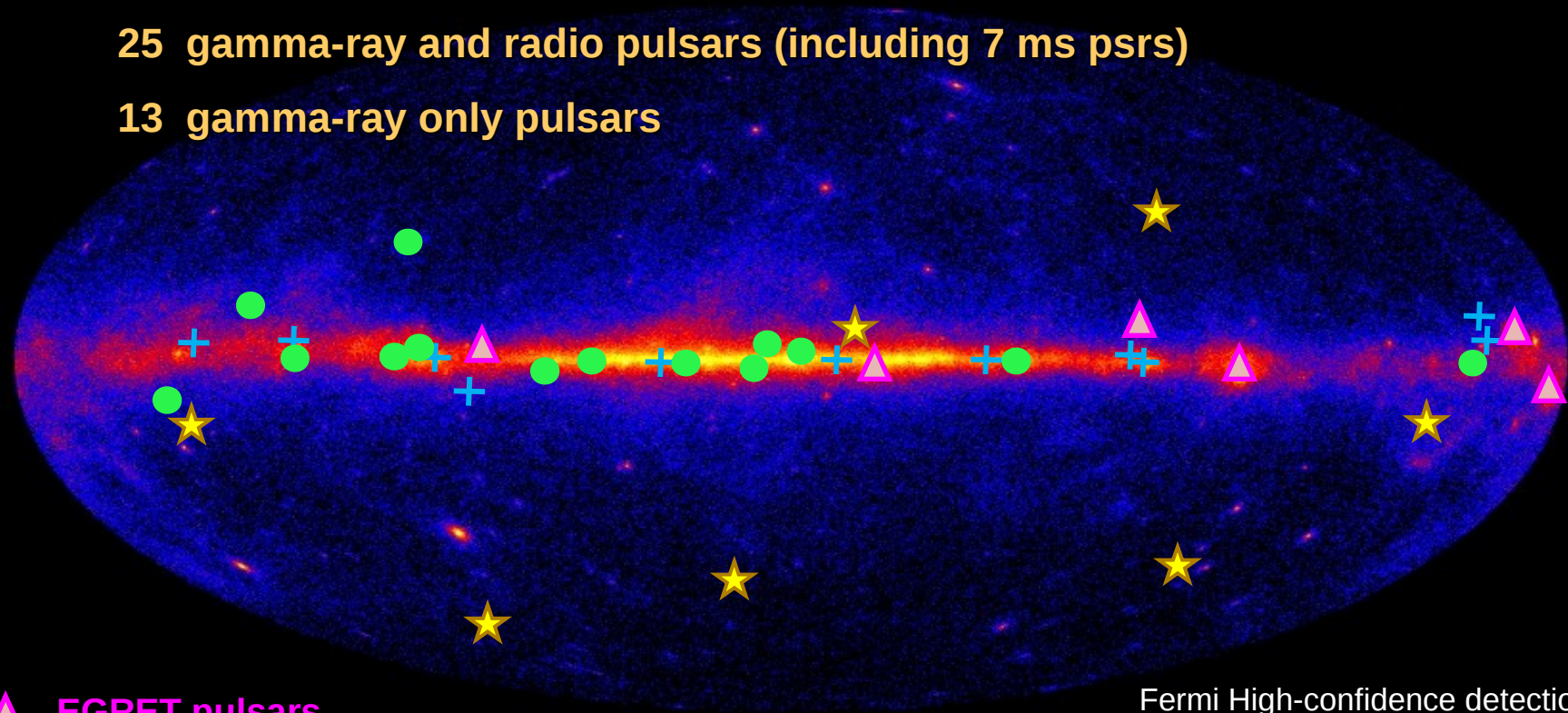
Also: study of Gamma-ray emission from pulsar glitches

AGILE Cat-1 detections: all EGRET pulsars + 2 new confirmed pulsars + 13 candidates

From Timing analysis: 3 new pulsars (Pellizzoni et al.)
Fermi pulsars:

25 gamma-ray and radio pulsars (including 7 ms psrs)

13 gamma-ray only pulsars



- ▲ EGRET pulsars
- + young pulsars discovered using radio ephemeris
- pulsars discovered in blind search
- ★ millisecond pulsars discovered using radio ephemeris

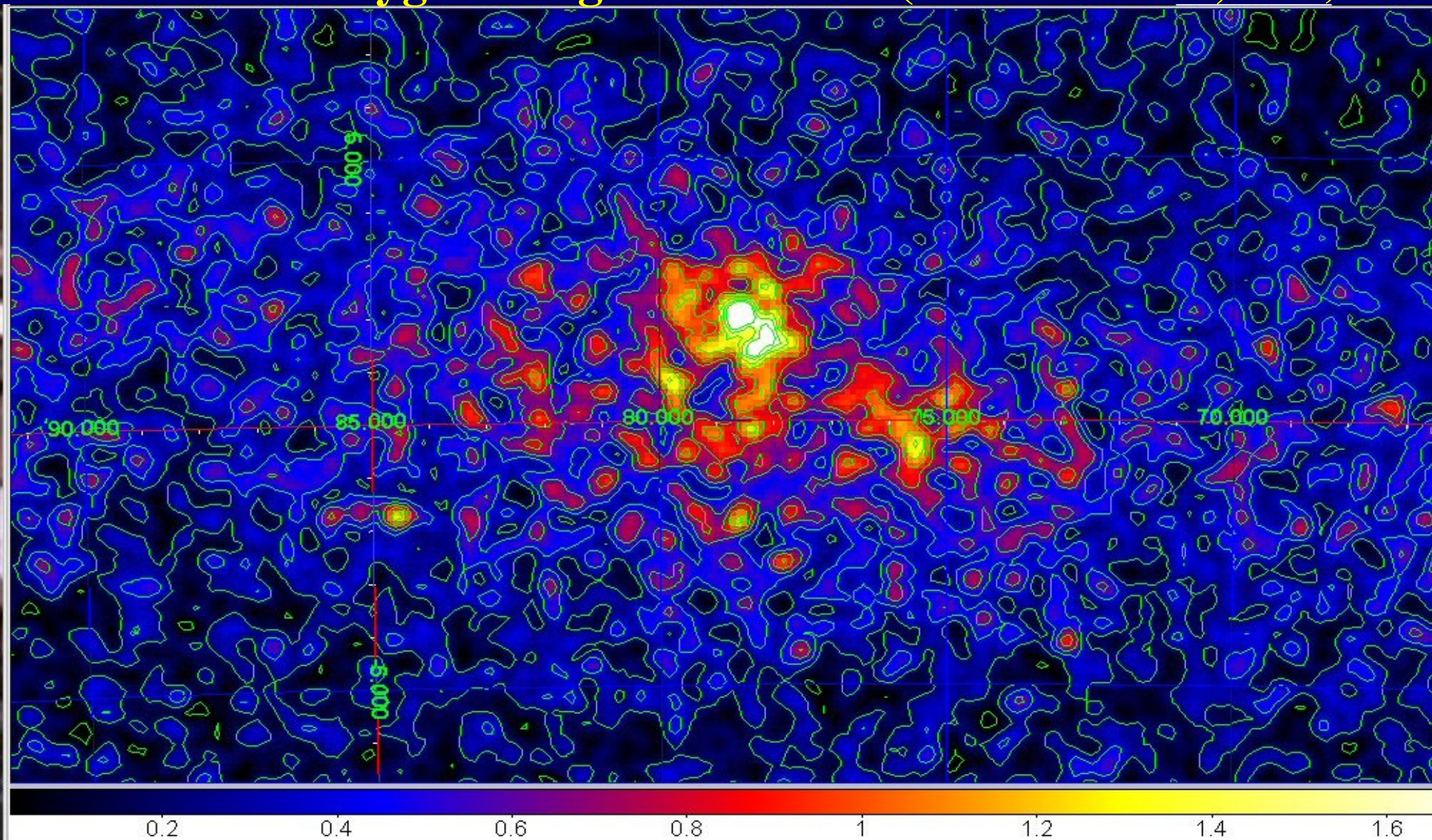
Fermi High-confidence detections through 10/31/2008

AGILE study of galactic transients
(see AGILE Galactic Working Group talk)

Cygnus Region: EGRET, VP 1-2-3-4 (1991-1996)



Cygnus Region: AGILE (Nov. 2 – Dec. 16, 2007)



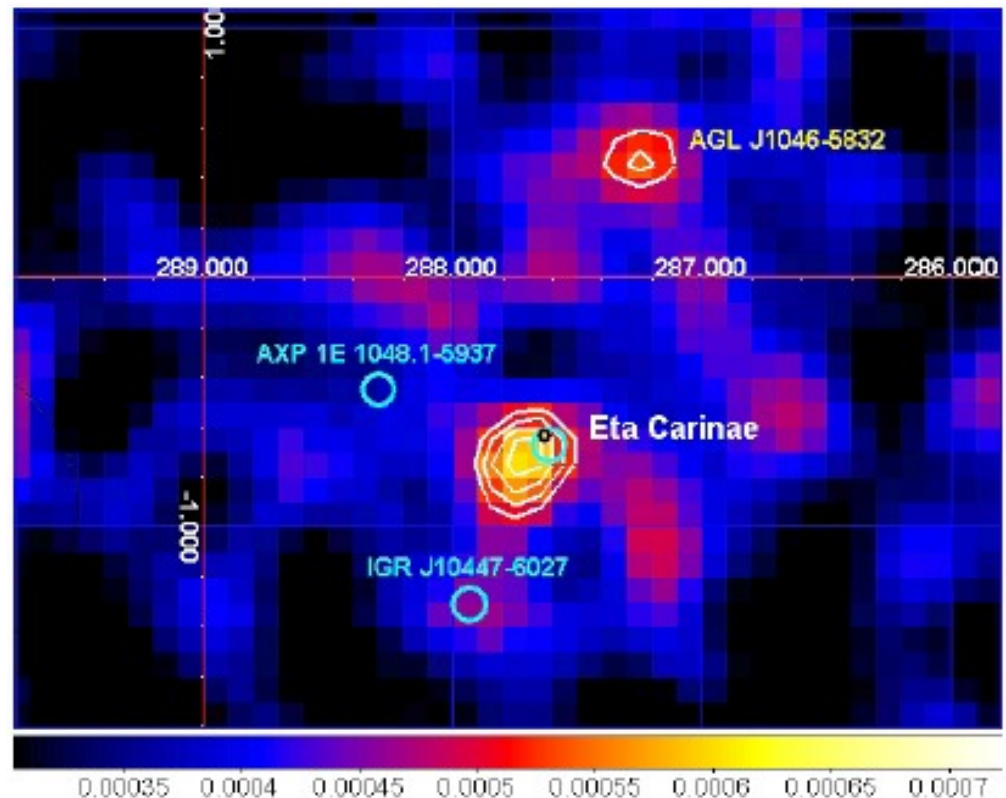
The Eta Carinae region

(see Viotti talk)

Extensive AGILE observations of the Galactic region hosting the Carina nebula and the remarkable colliding wind binary Eta Carinae (η Car)

Complex region. Delicate multi source analysis needed.

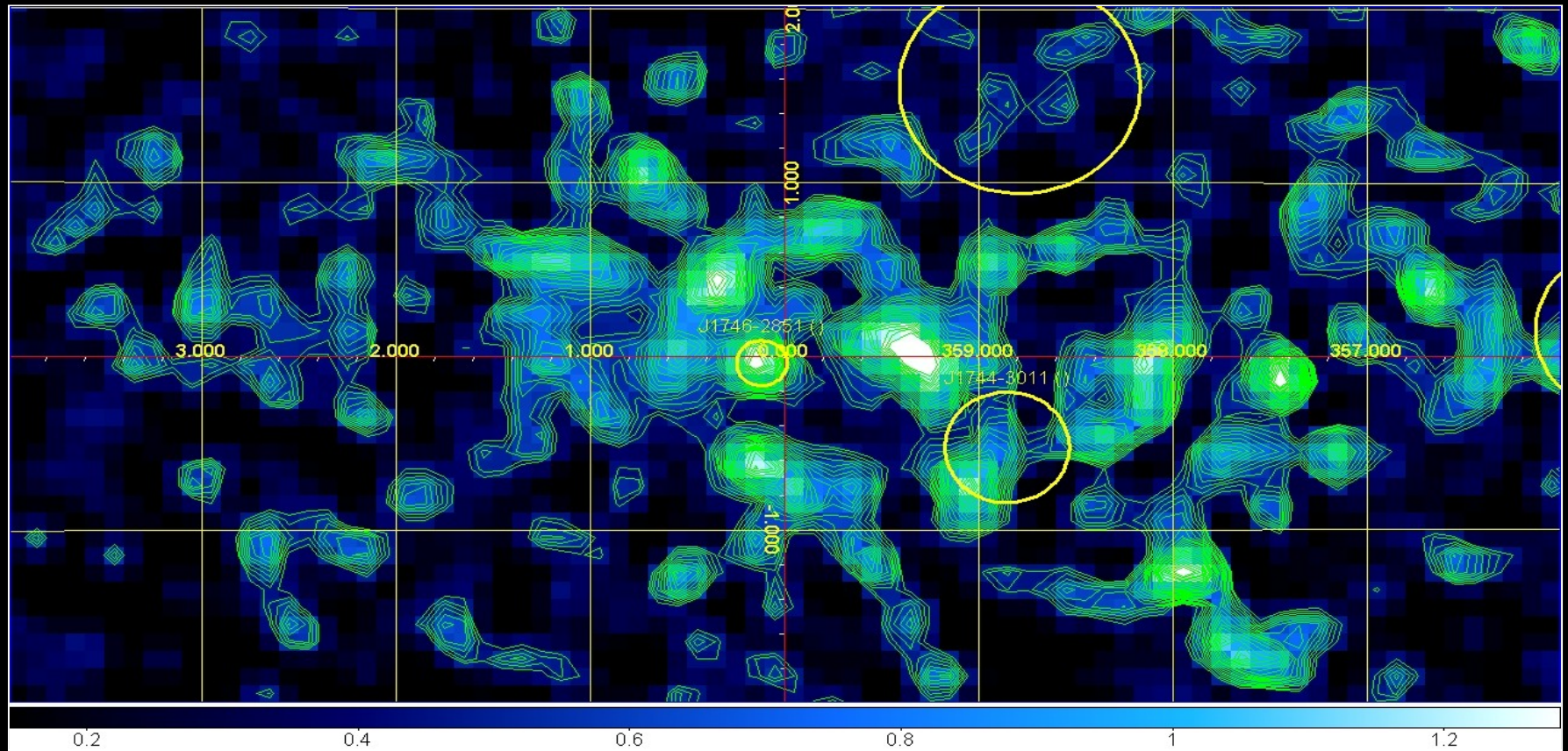
Gamma-ray detection of the colliding wind massive binary system η Car with AGILE!



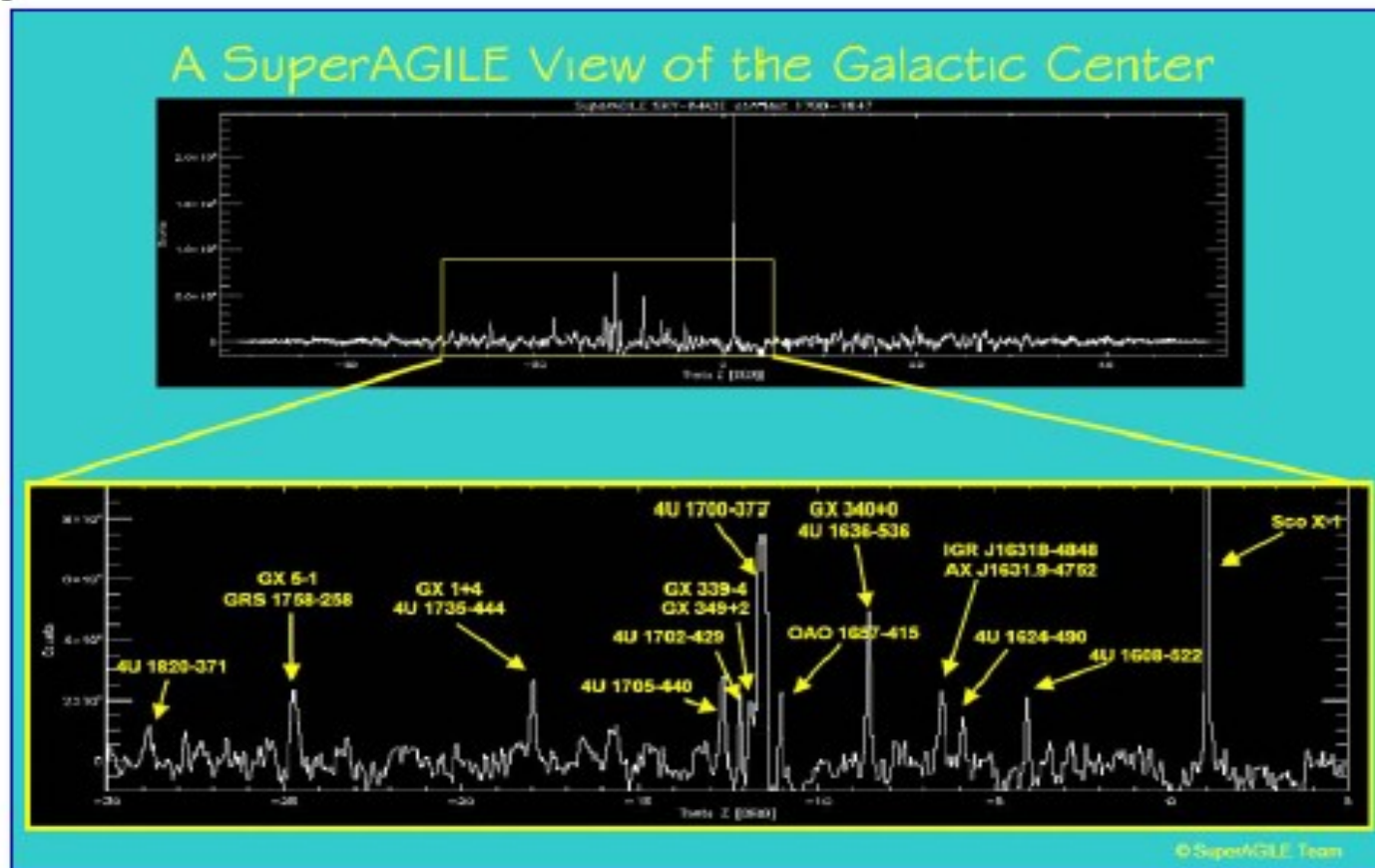
Tavani et al., accepted for publication on ApJ

AGILE's look at the Galactic Center

GRID E > 100 MeV (March 2008)



The X-ray imager SuperAGILE:



Credit: ASI/ASDC

Grand Central Scan

Mysterious beasts lurk at the center of the Milky Way. They require new and varied methods to be monitored - no one knows when they will act up. A new observatory run by the Agenzia Spaziale Italiana called AGILE is one new tool in the astronomer's toolbox. AGILE (*Astro-rivelatore Gamma a Immagini LEggero*, which roughly translates as "Star imaging detector in Gamma-Ray Light") was [launched](#) on April 23, 2007 and is already returning important science during its check-out phase. The image above is a scan by the X-ray monitor on AGILE, called Super-AGILE (which roughly translates as "Above-AGILE"), dedicated to monitoring hard X-ray sources with high sensitivity. This scan, performed shortly after the launch of AGILE, identifies more than a dozen high energy sources (in the range 20-60 keV) in the Galactic center.

Impulsive events: GRBs and TGFs

(see AGILE GRB working group talk)

- **SuperAGILE** detects several other GRBs in its energy band (20-60 keV) at a rate of about **1 per month** while the **AGILE Minicalorimeter** (MCAL) observes about **1 GRB per week** in the energy range 0.7-1.4 MeV on several time scales (Marisaldi et al.). **GRID energies: only two GRBs up to now with HE component $E > 50$ MeV.**
- The AGILE Minicalorimeter also detects very interesting events on timescales < 5 ms, which are currently under study as **Terrestrial gamma-ray flash candidates**

Back Forward Reload Stop <http://agile.asdc.asi.it/ao.html> Print

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AGILE



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Agile AO-1

The official list of all AGILE AO-1 approved targets is now available [here](#)

The Italian Space Agency (ASI) announces the release of the first Announcement of Opportunity to solicit proposals for the Guest Observer Program (GOP) of the AGILE mission.

This announcement solicits proposals for observations to be carried out during the observing time beginning on December 1st, 2007, and lasting twelve months.

Proposals may be submitted at any time during the period starting 1 October 2007 and ending 31 October 2007.

Top level documentation regarding this AO can be found [here](#).

Proposals may be prepared and submitted using a set of dedicated ASDC GOP [on-line services \(Proposal Preparation\)](#).

Please remember that **users must register in order to access the "proposal submission tool"** and to prepare and update their proposals before final submission.

AGILE BASELINE POINTING PLAN (ABPP) - Cycle 1 :

The table provides the coordinates of the pointing centroids at the beginning of the pointing periods.

Scientific program open to the community: **AO1 completed**

Cycle-1 Guest Observer Program: Dec. 1, 2007 - Nov. 30, 2008

Agile AO1 Approved Targets

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Approved Targets [Show as PDF in a new window](#)

Target Name	RA (J2000)	Dec (J2000)	RA (J2000)	Dec (J2000)	l	b	PI Name	Proposal ID	TargetClass	Title
3EG J0010+7309	0h 9m 36.48s	73 10' 55.20"	2.402	73.182	119.870	10.559	Diego Torres	39	3EG Sources	AGILE GRID observations of Unidentified EGRET sources likely related to supernov
J0030+0451	0h 30m 27.35s	4 51' 39.59"	7.614	4.861	113.141	-57.611	Andrea Possenti	6	Pulsars	Investigating the gamma-ray properties of a sample of northern radio pulsars
1ES 0033+595	0h 35m 52.55s	59 50' 6.00"	8.969	59.835	120.975	-2.978	David Williams	7	Active Galactic Nuclei	Multiwavelength Studies of Candidate TeV Blazars with AGILE
PSR J0108-1431	1h 8m 8.15s	-14 31' 47.99"	17.034	-14.530	140.927	-76.815	Patrick Weltevrede	21	Pulsars	Searching and studying gamma-ray counterparts of a sample of southern pulsars
1ES 0120+340	1h 23m 8.64s	34 20' 49.20"	20.786	34.347	130.346	-28.068	David Williams	7	Active Galactic Nuclei	Multiwavelength Studies of Candidate TeV Blazars with AGILE
J0205+6449	2h 5m 37.92s	64 49' 44.39"	31.408	64.829	130.719	3.085	Andrea Possenti	6	Pulsars	Investigating the gamma-ray properties of a sample of northern radio pulsars
PKS 0208-512	2h 10m 46.31s	-50 58' 58.79"	32.693	-50.983	276.055	-61.804	Elena Pian	13	Active Galactic Nuclei	Multiwavelength Variability of Gamma-Ray-Loud Blazars
J0218+4232	2h 18m 6.24s	42 32' 16.79"	34.526	42.538	139.508	-17.527	Andrea Possenti	6	Pulsars	Investigating the gamma-ray properties of a sample of northern radio pulsars
3C 66A	2h 22m 39.59s	43 2' 5.99"	35.665	43.035	140.143	-16.767	David Williams	7	Active Galactic Nuclei	Multiwavelength Studies of Candidate TeV Blazars with AGILE
J0323+5122	3h 23m 35.99s	51 22' 11.99"	50.900	51.370	145.636	-4.667	Vincenzo Vitale	31	3EG Sources	AGILE study of gamma ray sources possibly associated with the Gould Belt
B2 0321+33B	3h 24m 41.3s	34 10' 44.40"	51.171	34.179	155.727	-18.757	David Williams	7	Active Galactic Nuclei	Multiwavelength Studies of Candidate TeV Blazars with AGILE
Per OB2	3h 40m 0.0s	33 0' 0.00"	55.000	33.000	159.152	-17.765	Elena Orlando	36	3EG Sources	Search for gamma-ray emission from star-forming regions

Cycle-1 GOP Schedule

AGILE AO1:

Submitted proposals: 29

Approved/P. Approved: 24

Requested Targets: 122

Approved Targets: 100

Pulsars: 39

AGN: 31

3EG sources: 30

- SW build GO 1.0 + test dataset: *released on May 22, 2008*
- Cycle-1 data distribution:
 - *first delivery (17 OBs) on June 5, 2008*
 - *second delivery (3 OB) on July 17, 2008*
 - *last complete data release on Dec 23, 2008*

Agile Services



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[Guest Observer Program](#) [Back to Agile home page](#)

Session	Documentation	Tools
Login	Agile AO1 Approved Targets	Visibility & Flux Limit Computation
	Letter by ASI-OSU Announcing AO1	AO1 Pointings and 3EG sources in the AGILE f.o.v.
	Agile AO1 Polices and Procedures	
	Agile AO1 Pointing Plan	
	AGILE Team Source List	
	Template for the Scientific Justification	
	Proposal Generation Tool Manual	

AGILE Cycle-2 Baseline Pointing Plan: December 1, 2008 - November 30, 2009

Pointing number	Start date	End date	Pointing name	L II	B II	weeks
1	01 Dec.08	20 Dec.08	Cygnus Field 4	82.7	-10.1	3
2	20 Dec.08	15 Gen.09	Cygnus Field 5	95.7	-10.2	3.5
3	15 Gen.09	28 Feb.09	Cygnus Field 6	105.1	10.5	6
4	28 Feb.09	25 Mar.09	Gal. Center 4	350.5	12.7	4
5	25 Mar.09	01 Apr.09	Crab Field	190.6	3.3	1
6	01 Apr.09	15 Apr.09	Aquila Field 1	15.0	-8.8	2
7	15 Apr.09	30 Apr.09	Aquila Field 2	51.1	0.6	2
8	30 Apr.09	15 Mag.09	Cygnus Field 7	66.8	0.0	2
9	15 Mag.09	31 Mag.09	Vela Field 1	256.6	0.8	2
10	31 Mag.09	15 Jun.09	Virgo Field 1	237.0	59.4	2
11	15 Jun.09	25 Jun.09	Cygnus Field 8	92.8	-10.0	1.5
12	25 Jun.09	15 Jul.09	Cygnus Field 9	99.7	-20.1	4
13	15 Jul.09	12 Aug.09	Cygnus Field 10	112.2	9.6	4
14	12 Aug.09	31 Aug.09	Vela Field 2	307.2	0.3	3.5
15	31 Aug.09	10 Sep.09	Norma Field 1	343.6	10.3	2
16	10 Sep.09	22 Sep.09	Gal. Center 5	0.3	10.5	2
17	22 Sep.09	30 Sep.09	Crab Field 2	187.0	-0.8	1
18	30 Sep.09	15 Oct.09	Aquila Field 3	10.6	-7.3	2
19	15 Oct.0-9	31 Oct.09	Aquila Field 4	60.1	10.4	2
20	31 Oct.0-9	30 Nov.09	Cygnus Field 11	65.1	0.2	4

AGILE Public Data Distribution Schedule

AGILE AO2:

Submitted proposals: 15

14 PI, 74 co-PI

Requested Targets: 93

Pulsars: 21

AGN: 62

3EG sources: 10

**AO2 DAC valuation:
on-going
(results within the end
of this month - TBC)**

- Public SW build + test dataset: *May 8, 2009*
- Publication of Cycle-1 data:
 - *first public delivery (17 OBs): June 5, 2009*
 - *second delivery (3 OBs): July 17, 2009*
 - *complete Cycle-1 data release: Dec 23, 2009*

Scientific Observation (SO)													
					SO Name	Num. Of Obs. Blocks	Rqstd Start Date (UTC)	Rqstd End Date (UTC)	Initial RA (deg)	Initial DEC (deg)	Total Time (s)	Content Type	Note
					Cygnus Field 5	1	2009-12-20 12:00:00	2009-01-12 18:00:00	334.096	44.049	2008800.000	NORMAL	ABPP2 l=95.698 b=-10.471 Note: ACCORCIATO, precedenti coord RA, Dec=334.096, 44.049 Polar=220.25 con fine al 2009-01-15 12:00:00
					ToO Carina Field	1	2009-01-12 18:00:00	2009-01-19 18:00:00	161.669	-59.861	604800.000	TOO	ToO su l=287.859 b=-0.691 Target Eta Carina: l=287.6 b=-0.6 Delta=0.2 deg
					Cygnus Field 6	2	2009-01-19 18:00:00	2009-02-28 12:00:00	325.749	68.106	3434400.000	NORMAL	ABPP2 l=105.322 b=10.745 OB 6700 dal 2009-01-15 annullato e POSTPOSTO con OB 6710 per ToO precedente l=106.75 b=11.375 +OB 6710 l=349.755 b=13.586
					Galactic Center 4	2	2009-02-28 12:00:00	2009-03-31 12:00:00	247.204	-29.033	2678400.000	NORMAL	OB 6800 l=349.853 b=13.432 Prolonged: dal 2009-03-25 al 2009-03-31 OB 6810 per la FKS 1510
					Crab Field	2	2009-03-31 12:00:00	2009-04-07 12:00:00	102.703	31.710	604800.000	NORMAL	ABPP2 l=190.746 b=2.855 OB 6900 l=190.89 b=3.121 Shifted: start dal 2009-03-25 al 2009-03-31 per prolungamento OB precedente end dal 2009-04-01 al 2009-04-07
					Aquila Field	3	2009-04-07 12:00:00	2009-04-30 12:00:00	288.881	-19.310	1987200.000	NORMAL	ABPP2 l=14.628 b=-8.246 OB 7000: l=14.945 b=-8.774 ABPP2: l=50.381 b=1.109 OB 7100: l=50.919 b=0.442 Postponed a seguito dello shift precedente start dal 2009-04-01 al 2009-04-07

Final remarks on AGILE First Catalog :

- The AGILE First Catalog includes only high-significance sources characterized by a prominent mean gamma-ray flux above 100 MeV when integrated over the total exposure period 2007 July - 2008 June and it is not a complete sample due to the non-uniform first year sky coverage.
- The AGILE-GRID spatial resolution reached with long exposures is substantially better than that of EGRET, and the total exposure accumulated by AGILE in several sky regions, particularly near the Galactic plane, is comparable with that obtained by EGRET in 6 years effective time.
- Cat-1 exposure mostly in the Carina-Crux and in the Cygnus regions, with relatively low exposure at the Galactic center. This explains the relatively small number of sources in the Galactic center region included in this First Catalog.

- With the one-year long integration time scale only sources with “steady” flux values above $\sim 20 \times 10^{-8} \text{ ph cm}^{-2} \text{ s}^{-1}$ are detected over 4 sigma. Source detections during flaring state and determination of peak fluxes are not included in this Catalog and will be the subject of a forthcoming publication.
- This should be taken into account when comparing with the results of the Third EGRET Catalog which includes detections over 4 sigma in each of the EGRET viewing periods during its effective 6-year lifetime.
- AGILE in the First Catalog detected five sources that were not present in the 3EG Catalog: 3 Blazars and 2 candidate pulsars.
- A variability study of the sources of the First AGILE Catalog over different timescales is in progress (F. Verrecchia et al. 2009).

THE END