

FA-GSW Report DOY 222 (August 10, 2009)

Flare-Advocate/Gamma-ray-Sky-Watcher report: DOY 222 (August 10, 2009)

On Duty Flare Advocates:

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Highlights

Extragalactic Science

- 3C273 at 1.09 +/- 0.31
- 3C279 at 1.04 +/- 0.29
- 3C454.3 at 1.08 +/- 0.32
- ASPJ080630m080403 at 0.62 +/- 0.24 associated with EMS0540 - PKS 0805-07
- ASPJ205731m471323 at 0.85 +/- 0.26 associated with EMS1413 - PKS 2052-47
- ASPJ201610p371125 at 2.55 +/- 0.70 associated with EMS1359 - 3EG J2016+3657
- ASPJ111615m054219 at 1.62 +/- 0.84 associated with EMS0732 - PKS 1118-05
- Unknown source ASPJ183323p602605 at 1.24 +/- 0.30 with TS=126

Galactic Science

- Usual PSR (Crab, Geminga, Vela)
- Detection of PSR J0007+7313, PSR J1708-4522, PSR J1020-5921, PSR J0007+7303, PSR J1028-5819, PSR J1709-4429, PSR J0248+6021, PSR J2021+4026
- Detection of LSI 61303

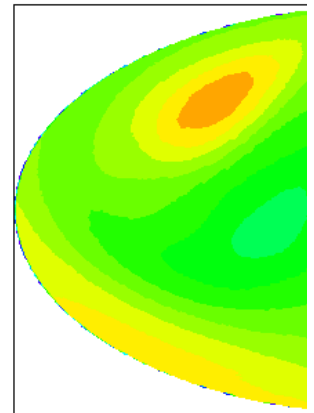
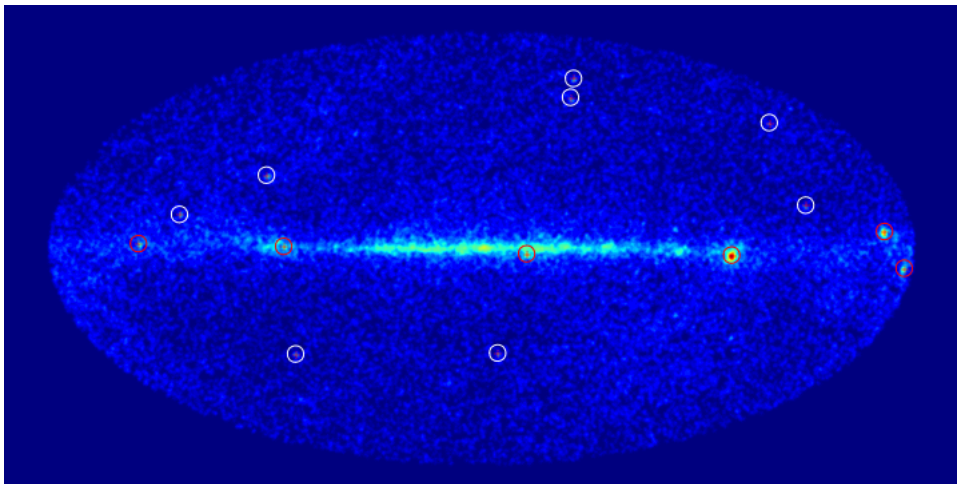


Technical notes

- Fluxes are given in units of 1E-6 ph/cm2/s in the 0.1-300 GeV energy band.
- Science Tools: v9r15p2
- iLat and FA-dedicated scripts.
- IRF used : P6_V3_DIFFUSE

Likelihood Analysis results:

Daily Run (n. 412)

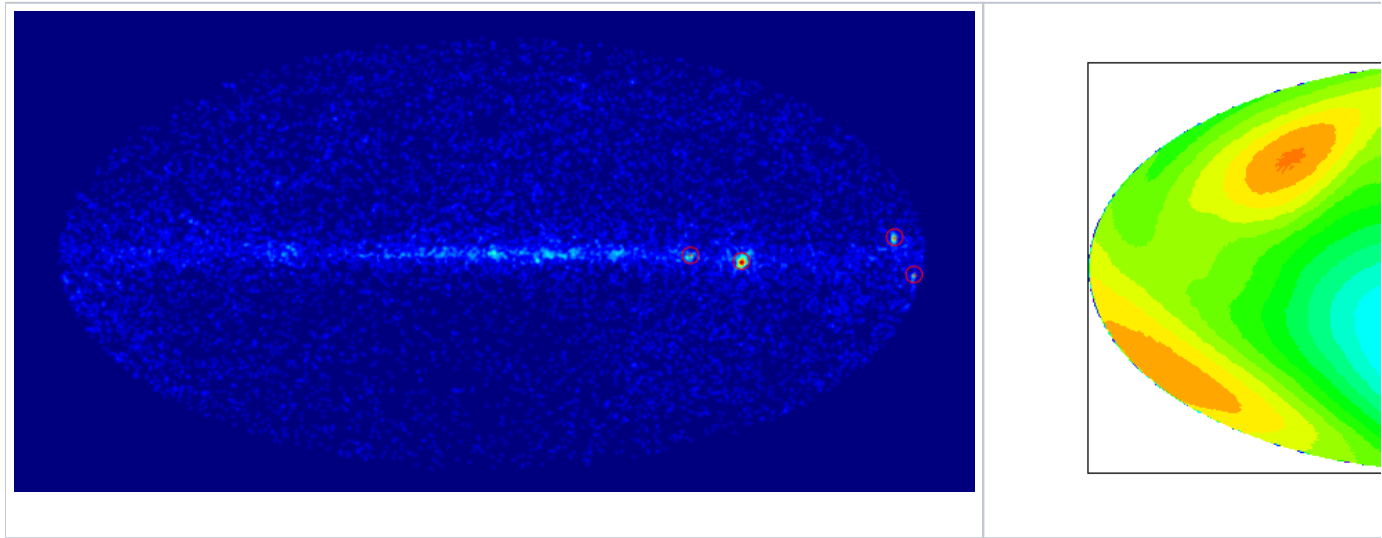


Extragalactic sources	RA (J2000)	DEC (J2000)	L	B	Delta*	TS	Npred	Flux**	Flux err	index	index err	comment
3C273	187.315	2.1318	289.997	64.4451		72	27	1.09	0.31	2.38	0.24	
3C279	194.06	-5.83	305.126	57.0213		76	29	1.04	0.29	2.22	0.22	

3C454.3	343.57	16.1518	86.1946	-38.2233		45	23	1.08	0.32	2.47	0.27	
ASPJ080630m080403	122.01	-7.8159	228.981	13.1348		47	18	0.62	0.24	2.12	0.27	EMS0540 - PKS 0805-07
ASPJ091836p152445	139.649	15.4125	214.915	39.4209		30	13	0.44	0.19	2.11	0.29	Unknown
ASPJ183323p602605	278.983	59.597	89.0531	25.0704		126	36	1.24	0.30	2.04	0.17	Unknown
ASPJ205731m471323	314.133	-47.3672	352.43	-40.4207		80	25	0.85	0.26	2.10	0.22	EMS1413 - PKS 2052-47
ASPJ201610p371125	305.149	36.8025	75.1254	0.164947		45	54	2.55	0.70	2.42	0.21	EMS1359 - 3EG J2016+3657

Galactic sources	RA (J2000)	DEC (J2000)	L	B	Delta*	TS	Npre d	Flux**	Flux err	index	index err	comment
ASPJ000659p725318	1.8248	73.1175	119.691	10.5241		55	25	0.88	0.28	2.15	0.23	PSR J0007+7313
ASPJ170900m444500	257.217	-44.4963	343	-2.57099		97	67	2.42	0.57	2.11	0.15	PSR J1708-4522
CrabPulsar	83.6358	22.0269	184.548	-5.77559		200	74	2.29	0.43	2.11	0.13	
Geminga	98.4874	17.8477	195.07	4.31111		620	180	5.46	0.57	2.06	0.07	
LSlp61303	40.4033	61.065	135.862	0.989883		49	44	1.67	0.45	2.25	0.20	
VelaPulsar	128.809	-45.1733	263.538	-2.80044		1780	452	13.21	0.83	2.00	0.04	

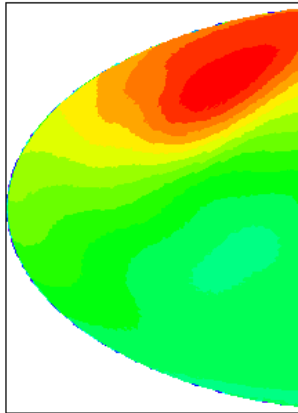
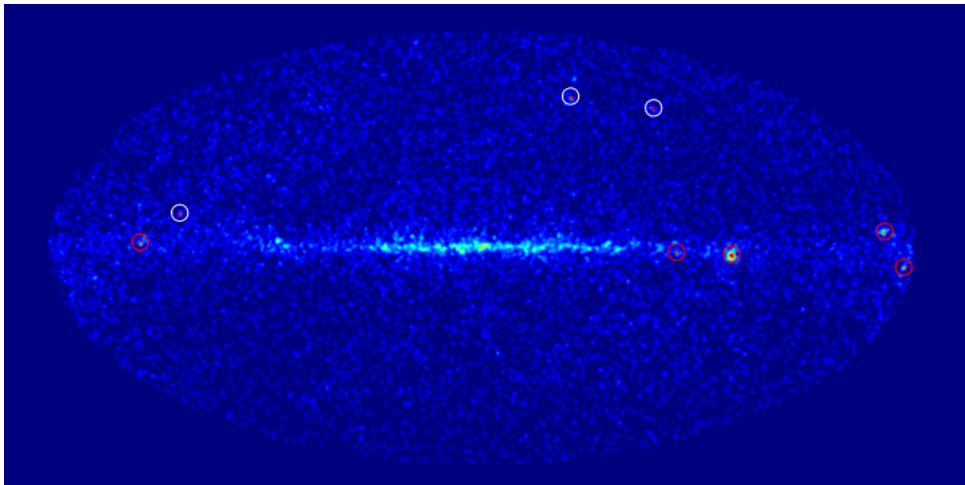
Six hours run (n. 1645)



Extragalactic sources	RA (J2000)	DEC (J2000)	L	B	Delta*	TS	Npre d	Flux**	Flux err	index	index err	comment
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Galactic sources	RA (J2000)	DEC (J2000)	L	B	Delta*	TS	Npre d	Flux**	Flux err	index	index err	comment
ASPJ101714m590136	155.217	-58.1604	284.134	-0.893653		26	27	2.90	0.94	2.33	0.26	PSR J1020-5921
CrabPulsar	83.5848	21.9822	184.561	-5.83946		85	26	2.39	0.75	2.00	0.20	
Geminga	98.5228	18.0073	194.943	4.41386		196	65	7.09	1.20	2.22	0.14	
VelaPulsar	128.815	-45.1703	263.538	-2.79526		768	191	14.99	1.42	2.04	0.07	

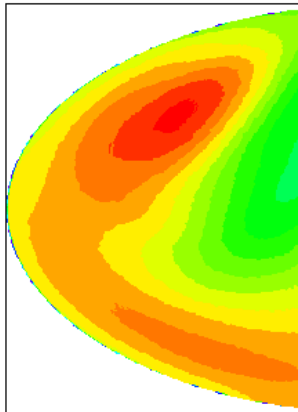
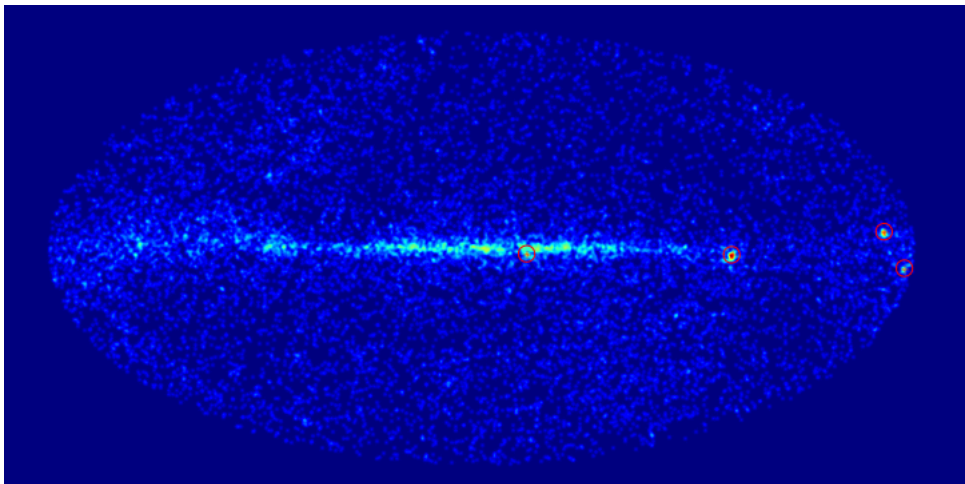
Six hours run (n. http://glast-ground.slac.stanford.edu/ASPDataViewer/pgwave.jsp?process_id=271404000&dataSourceMode=Prod1646)



Extragalactic sources	RA (J2000)	DEC (J2000)	L	B	Delta*	T S	Npre d	Flux**	Flux err	index	index err	comment
3C279	194.017	-5.8273	305.048	57.0254		52	14	1.49	0.28	2.06	0.13	
ASPJ111615m054219	169.382	-6.2707	265.263	49.6076		21	9	1.62	0.84	2.87	0.55	EMS0732 - PKS 1118-05

Galactic sources	RA (J2000)	DEC (J2000)	L	B	Delta*	T S	Npre d	Flux**	Flux err	index	index err	comment
ASPJ000659p725318	1.4586	73.2533	119.609	10.6764		17	8	1.19	0.70	2.35	0.48	PSR J0007+7303
ASPJ023300p614500	39.128	61.5013	135.125	1.14238		20	15	2.27	0.95	2.39	0.35	LSI 61303
ASPJ102900m591500	156.335	-60.0899	285.655	-2.21348		15	12	2.00	1.04	2.30	0.39	PSR J1028-5819
CrabPulsar	83.8046	21.8074	184.819	-5.76061		40	16	2.21	0.90	2.07	0.27	
Geminga	98.2773	17.7781	195.04	4.10137		109	34	4.76	1.15	2.18	0.19	
VelaPulsar	128.77	-45.1941	263.538	-2.83525		405	101	15.25	1.98	2.04	0.10	

Six hours run (n. 1647)

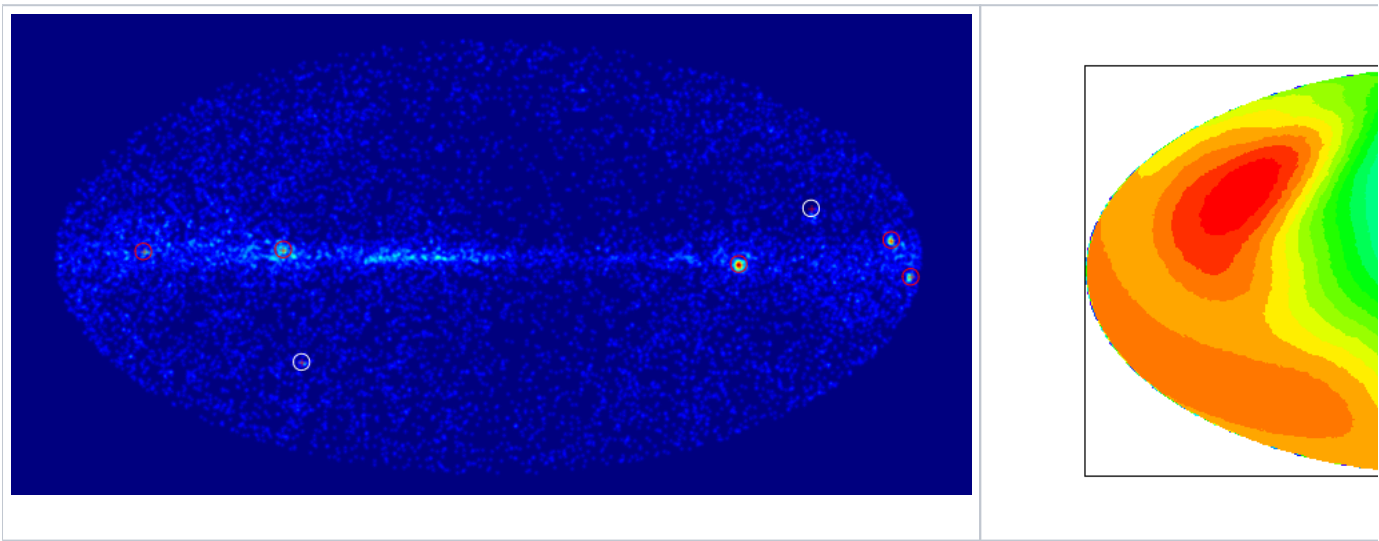


Extragalactic sources	RA (J2000)	DEC (J2000)	L	B	Delta*	T S	Npre d	Flux**	Flux err	index	index err	comment
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Galactic sources	RA (J2000)	DEC (J2000)	L	B	Delta*	T S	Npre d	Flux**	Flux err	index	index err	comment
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ASPJ170900m444500	257.221	-44.5148	342.986	-2.58442		38	22	2.56	0.98	2.05	0.23	PSR J1709-4429
CrabPulsar	83.5795	22.1323	184.431	-5.7632		66	21	2.27	0.75	2.06	0.23	
Geminga	98.5404	17.6434	195.275	4.26284		165	44	4.81	0.96	1.92	0.13	
VelaPulsar	128.907	-45.0927	263.515	-2.69726		282	69	10.66	1.70	1.93	0.11	

Six hours run (n. 1648)



Extragalactic sources	RA (J2000)	DEC (J2000)	L	B	Delta* *	T S	Npre d	Flux** *	Flux err	inde x	index err	comment
ASPJ081358m063647	123.493	-6.613	228.678	15.0123		6	8	1.05	0.64	2.47	0.50	EMS0540 - PKS 0805-07
ASPJ225344p172649	343.464	16.5202	86.3457	-37.86		39	15	1.65	0.57	2.40	0.31	3C 454.3

Galactic sources	RA (J2000)	DEC (J2000)	L	B	Delta* *	T S	Npre d	Flux** *	Flux err	inde x	index err	comment
ASPJ024507p601601	42.6309	60.9505	136.888	1.34725		20	20	2.11	0.82	2.48	0.34	PSR J0248+6021
ASPJ202214p402203	305.131	40.4253	78.1026	2.23033		24	23	2.38	0.90	2.23	0.26	PSR J2021+4026
CrabPulsar	83.9113	21.8161	184.865	-5.67219		60	24	1.93	0.63	1.98	0.21	
Geminga	98.6744	17.8432	195.155	4.4675		251	64	5.23	0.92	2.02	0.12	
VelaPulsar	128.818	-45.1164	263.496	-2.76142		463	119	13.15	1.59	1.96	0.08	

* Results are obtained with unbinned likelihood and P6_V3_DIFFUSE irfs.
 ** Distance in arc min from ASDC tools
 *** $F(E>100\text{MeV}) \times 10^{-6} \text{ ph cm}^{-2} \text{ s}^{-1}$