

FA-GSW Report DOY 220 (August 8, 2009)

Flare-Advocate/Gamma-ray-Sky-Watcher report: DOY 220 (August 8, 2009)

On Duty Flare Advocates:

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Highlights

Extragalactic Science

- **3C273** at 2.03 +/- 0.51
- 3C454.3 at 1.33 +/- 0.33
- ASPJ040213m355246 at 0.28 +/- 0.12 associated with EMS0252 - CRATES J040353-360513
- ASPJ080630m080403 at 0.55 +/- 0.20 associated with EMS0540 - CRATES J080815-075109 - PKS 0805-07
- ASPJ152111p314420 at 0.53 +/- 0.18 associated with EMS0994 - CRATES J152209+314418
- ASPJ205731m471323 at 0.48 +/- 0.20 associated with EMS1413 - CRATES J205615-471445
- PMNJ2250m2806 at 0.65 +/- 0.20

Galactic Science

- Possible flare of **1E 1743.1-2843** during 6 hr run? (best fit pos. 266.02, -28.7333, r95=0.5 deg)
- **ASPJ174500m291500** detected at 2.97 +/- 0.90 associated with EMS1172 - 1E 1743.1-2843, EMS1168 - PWN G359.95-0.04 (best fit pos. 266.484, -29.0639, r95=0.24 deg)
- **ASPJ185300p011500** detected at 1.88 +/- 0.69 associated with EMS1267 - unidentified object
- Usual PSR (Crab, Geminga, Vela)
- detection of PSRJ1836+5925, PSRJ2021+4026, PSRJ1709-4429

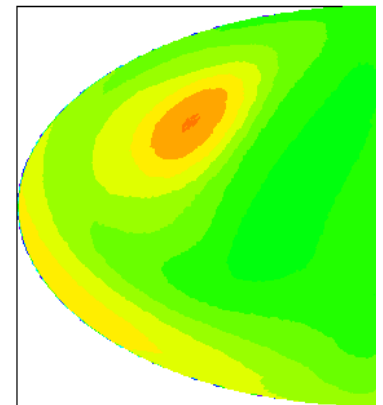
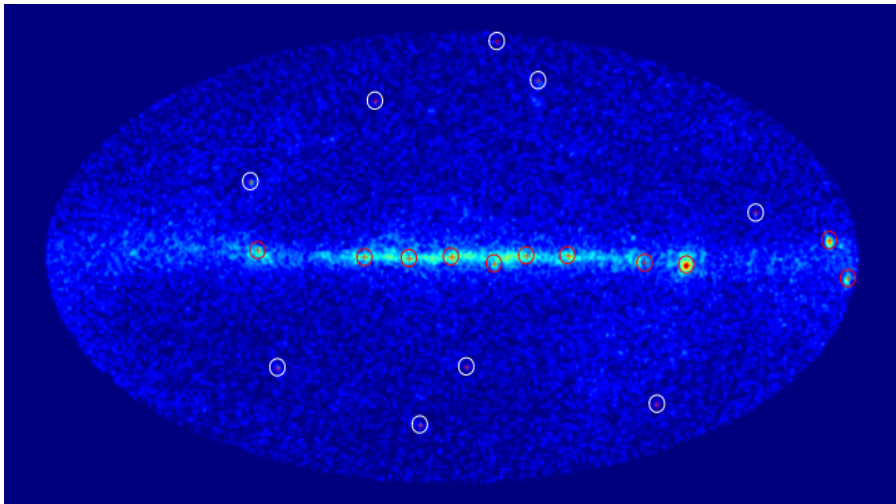


Technical notes

- Fluxes are given in units of 1E-6 ph/cm2/s in the 0.1-300 GeV energy band.
- Science Tools: v9r11
- iLat and FA-dedicated scripts.
- IRF used : P6_V3_DIFFUSE

Likelihood Analysis results:

Daily Run (n. **410**)

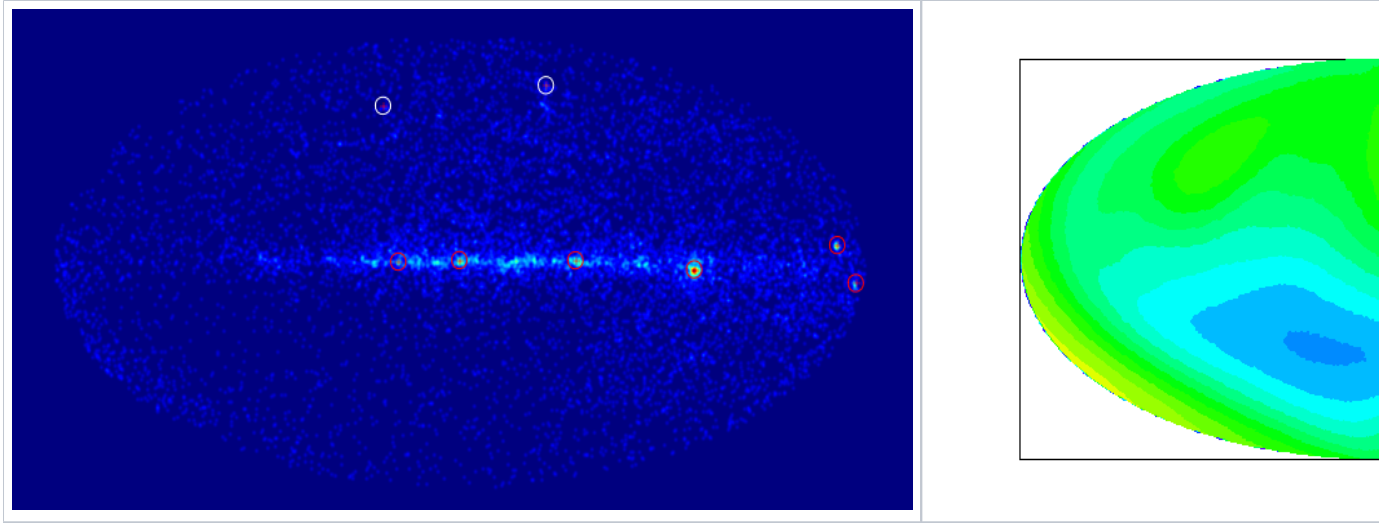


Extragalactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	TS	Npred	Flux**	Flux err	index	index err	comment
3C273	187.1397	2.2810	289.5295	64.5557		69	36	2.03	0.51	3.17	0.32	

3C454.3	343.4947	16.1725	86.1324	-38.1658		82	33	1.33	0.33	2.30	0.20	
ASPJ040213m355246	60.8248	-35.8617	237.4021	-48.5974		32	12	0.28	0.12	2.01	0.30	EMS0252 - CRATES J040353-360513
ASPJ080630m080403	121.9784	-7.7986	228.9493	13.1163		52	21	0.55	0.20	2.06	0.24	EMS0540 - CRATES J080815-075109
ASPJ152111p314420	230.4788	31.6663	50.0302	57.0738		69	17	0.53	0.18	1.96	0.23	EMS0994 - CRATES J152209+314418
ASPJ205731m471323	314.0699	-47.1688	352.6925	-40.3855		44	14	0.48	0.20	1.92	0.26	EMS1413 - CRATES J205615-471445
BM_4C21_35	185.9807	21.7149	252.2989	81.7248		18	9	0.29	0.16	1.91	0.34	
PMNJ2250m2806	342.7382	-27.9981	24.0116	-63.3510		106	24	0.65	0.20	1.77	0.18	

Galactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	TS	Npred	Flux**	Flux err	index	index err	comment
ASPJ100403m571429	149.6067	-57.7657	281.4766	-2.2901		0	0	0.01	1.43	2.66	36.95	
ASPJ141900m611500	214.9277	-60.7324	313.5163	0.3124		22	49	1.75	0.59	2.28	0.21	PSRJ1420-6048
ASPJ160207m525005	241.0633	-52.1748	330.1383	0.2054		4	10	0.32	0.35	1.92	0.45	
ASPJ170900m444500	257.3457	-44.5134	343.0406	-2.6550		69	59	2.15	0.52	2.11	0.15	PSRJ1709-4429
ASPJ174500m291500	266.7351	-28.8280	0.2427	-0.1907		26	66	2.97	0.90	2.50	0.25	EMS1168 - PWN G359.95-0.04, EMS1172 - 1E 1743.1-2843
ASPJ182300m134500	276.1228	-14.5048	16.9868	-0.7525		14	43	2.76	1.00	3.17	0.46	
ASPJ183323p602605	278.9210	59.4928	88.9335	25.0805		156	42	1.10	0.26	1.93	0.15	PSRJ1836+5925
ASPJ185300p011500	284.1164	1.4435	34.7898	-0.4601		31	45	1.88	0.69	2.19	0.22	EMS1267 - unidentified object 3EG J1856+0114
ASPJ202138p413136	305.9161	40.8040	78.7540	1.9561		25	43	1.54	0.55	2.27	0.24	PSRJ2021+4026
CrabPulsar	83.7035	21.9618	184.6373	-5.7574		182	79	2.12	0.38	2.11	0.12	
Geminga	98.4935	17.7317	195.1760	4.2634		812	200	4.69	0.44	1.93	0.06	
VelaPulsar	128.8085	-45.1421	263.5128	-2.7823		1925	538	13.38	0.78	2.09	0.04	

Six hours run (n. 1637)

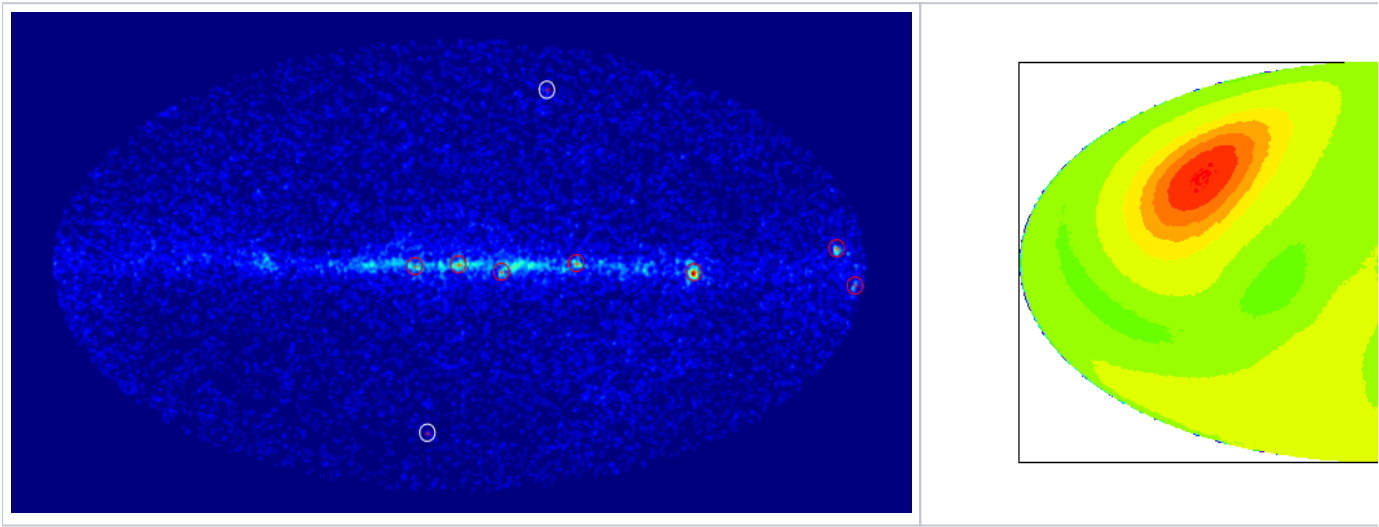


Extragalactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	TS	Npred	Flux**	Flux err	index	index err	comment
3C273	187.2500	2.2500	289.7953	64.5479		28	13	2.76	1.08	3.28	0.53	
ASPJ152111p314420	230.5301	31.6081	49.9260	57.0282		26	5	0.65	0.38	1.98	0.41	

Galactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	TS	Npred	Flux**	Flux err	index	index err	comment
ASPJ141900m611500	214.9225	-60.8420	313.4773	0.2100		26	25	3.34	1.33	2.18	0.25	
ASPJ174100m281500	266.1392	-28.7720	0.0185	0.2843		29	35	9.31	2.74	2.94	0.36	EMS1168, EMS1172

ASPJ183430m075230	279.1810	-7.7136	24.3950	-0.2647		8	12	2.69	1.61	2.19	0.35	
CrabPulsar	83.7454	21.9185	184.6950	-5.7477		60	23	2.66	0.86	2.20	0.25	
Geminga	98.5252	17.6815	195.2346	4.2673		289	64	5.77	0.94	1.88	0.11	
VelaPulsar	128.8301	-45.1592	263.5356	-2.7803		565	160	12.75	1.37	2.09	0.08	

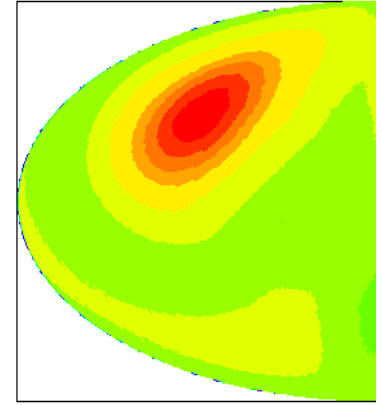
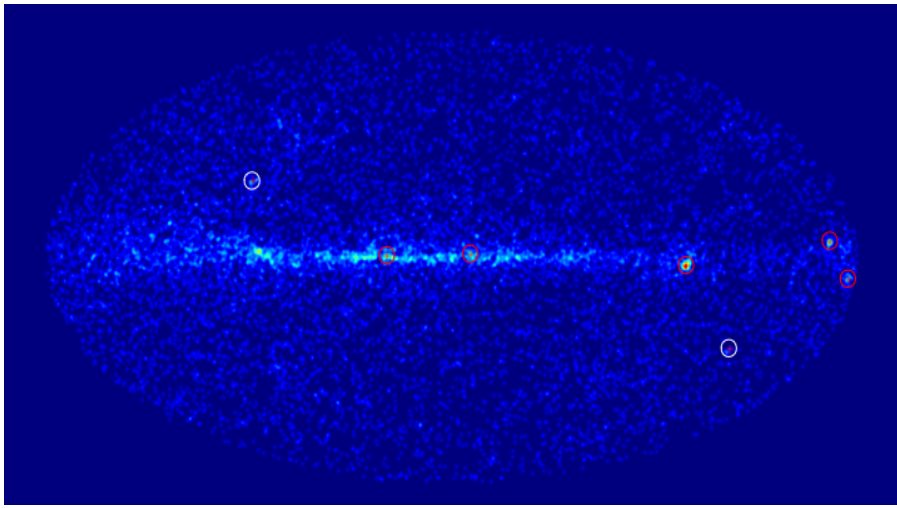
Six hours run (n. 1638)



Extragalactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	T S	Npre d	Flux** *	Flux err	inde x	index err	comment
3C273	187.0581	1.6087	289.6635	63.8810		22	10	2.56	1.18	2.84	0.52	
PMNJ2250m2806	342.8632	-28.1799	23.6288	-63.4769		32	7	0.91	0.49	1.74	0.30	

Galactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	T S	Npre d	Flux** *	Flux err	inde x	index err	comment
ASPJ140636m610614	213.6080	-61.0095	312.8187	0.2591		17	16	2.70	1.26	2.06	0.28	
ASPJ170900m444500	257.4145	-44.6642	342.9483	-2.7841		39	24	4.65	1.52	2.21	0.24	
ASPJ174500m291500	266.6363	-28.8682	0.1634	-0.1376		10	19	3.40	1.77	2.18	0.31	
ASPJ182300m134500	276.4752	-14.0392	17.5581	-0.8370		8	15	4.51	2.39	3.19	0.67	
CrabPulsar	83.8736	21.9781	184.7082	-5.6153		16	7	1.49	0.82	2.25	0.43	
Geminga	98.4042	17.7734	195.0999	4.2067		125	31	4.87	1.19	1.96	0.16	
VelaPulsar	128.8491	-45.0755	263.4765	-2.7195		366	98	14.81	1.99	2.05	0.10	

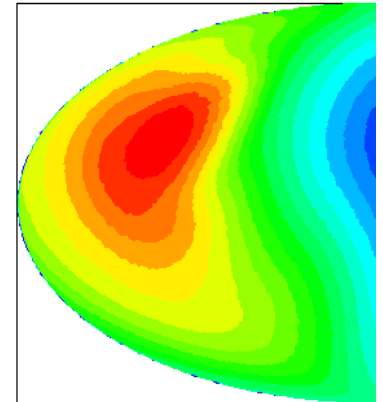
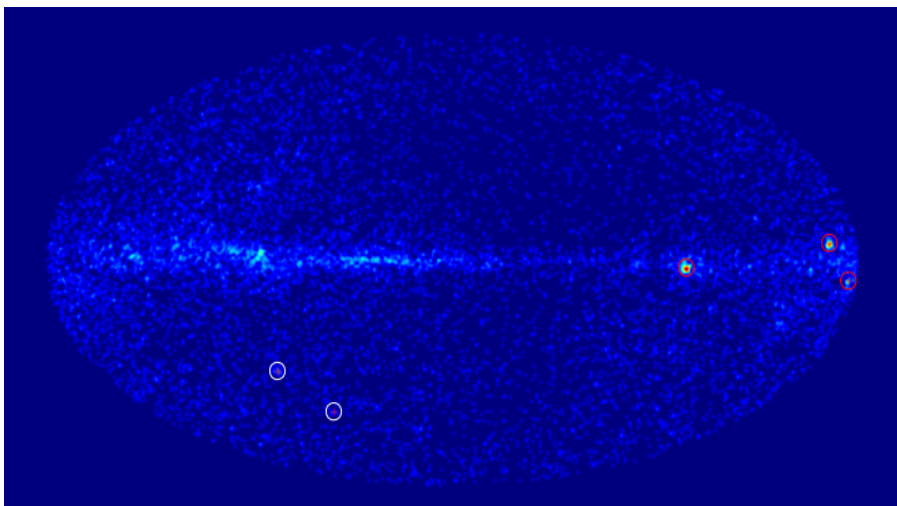
Six hours run (n. 1639)



Extragalactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	T S	Npre d	Flux** *	Flux err	index	index err	comment
ASPJ053031m261018	82.6287	-26.1718	229.5309	-28.5108		11	3	0.49	0.35	1.89	0.50	

Galactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	TS	Npre d	Flux** *	Flux err	index	index err	comment
ASPJ171856m342837	260.7969	-34.8342	352.4647	0.7984		7	12	2.96	1.80	2.59	0.45	
ASPJ183525p591857	278.3187	58.9675	88.2977	25.2801		9	5	0.84	0.63	2.04	0.51	
ASPJ183721m064224	279.3619	-6.2342	25.7915	0.2554		10	16	3.35	1.82	2.26	0.41	
CrabPulsar	83.5413	21.9488	184.5674	-5.8914		37	15	3.39	1.22	2.37	0.31	
Geminga	98.2323	17.8492	194.9573	4.0958		82	25	4.33	1.22	2.00	0.20	
VelaPulsar	128.6195	-45.3366	263.5893	-3.0052		248	74	12.56	1.95	2.18	0.12	

Six hours run (n. 1640)



Extragalactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	T S	Npre d	Flux** *	Flux err	index	index err	comment
3C454.3	343.7636	16.0804	86.3414	-38.3855		51	14	1.83	0.65	2.52	0.34	
ASPJ230722m012523	347.1188	-1.7887	74.3361	-54.6384		7	5	0.96	0.63	3.00	0.70	

Galactic sources	RA(J2000)	DEC(J2000)	L	B	Delta**	TS	Npre d	Flux** *	Flux err	index	index err	comment
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ASPJ053216p230319	83.6605	22.2446	184.375 8	-5.639 7		43	13	1.26	0.58	1.73	0.24	CrabPulsa r
Geminga	98.5099	17.7767	195.143 0	4.2978		214	46	4.97	0.97	1.86	0.12	
VelaPulsar	128.7598	-45.1686	263.513 5	-2.825 7		253	63	13.40	2.24	1.99	0.12	

* Results are obtained with unbinned likelihood and P6_V3_DIFFUSE irfs.

** Distance in arc min from ASDC tools

*** $F(E>100\text{MeV}) \times 10^{-6} \text{ ph cm}^{-2} \text{ s}^{-1}$