

FA-GSW Report DOY 6 (January 6, 2010)

Flare-Advocate/Gamma-ray-Sky-Watcher report: DOY 6 (January 6, 2010)

On Duty Flare Advocates:

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Highlights

Extragalactic Science

- 3C273 extremely bright at flux $(5.0 \pm 0.7) \times 10^{-6}$ ph/cm²/s, and TS=381 for the day.
- PKS 1510?08 still bright at flux 1.6 ± 0.5
- PKS 0727?11 detected at flux 0.67 ± 0.24
- 4C +38.41 detected at flux 0.95 ± 0.30
- 3C 454.3 at flux 2.6 ± 0.4

Galactic Science

- ASPJ180224m251551, listed as 53' from HESS J1800?240B, shows up in ASP with flux 1.6 ± 1.0 . However with TS=5, and that large an error bar, it seems likely to be spurious
- Usual pulsars

UFOs

- No UFOs in the daily run. However, ASPJ114402m032728 shows up in one six hour run with a TS of 34 and a flux of 3.3 ± 1.2 .

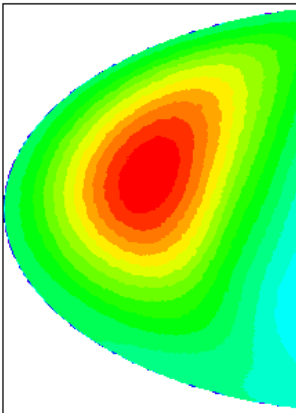


Technical notes

- Fluxes are given in units of ph $\times$ cm⁻² s⁻¹ in the 0.1 ÷ 300 GeV energy band.
- Science Tools: v9r15p2
- Results are obtained with unbinned likelihood using iLat and FA-dedicated scripts, \ mainly following the *email* approach suggested by Andrea.
- IRF used : P6_V3_DIFFUSE

Likelihood Analysis results:

Daily Run (n. 00561)

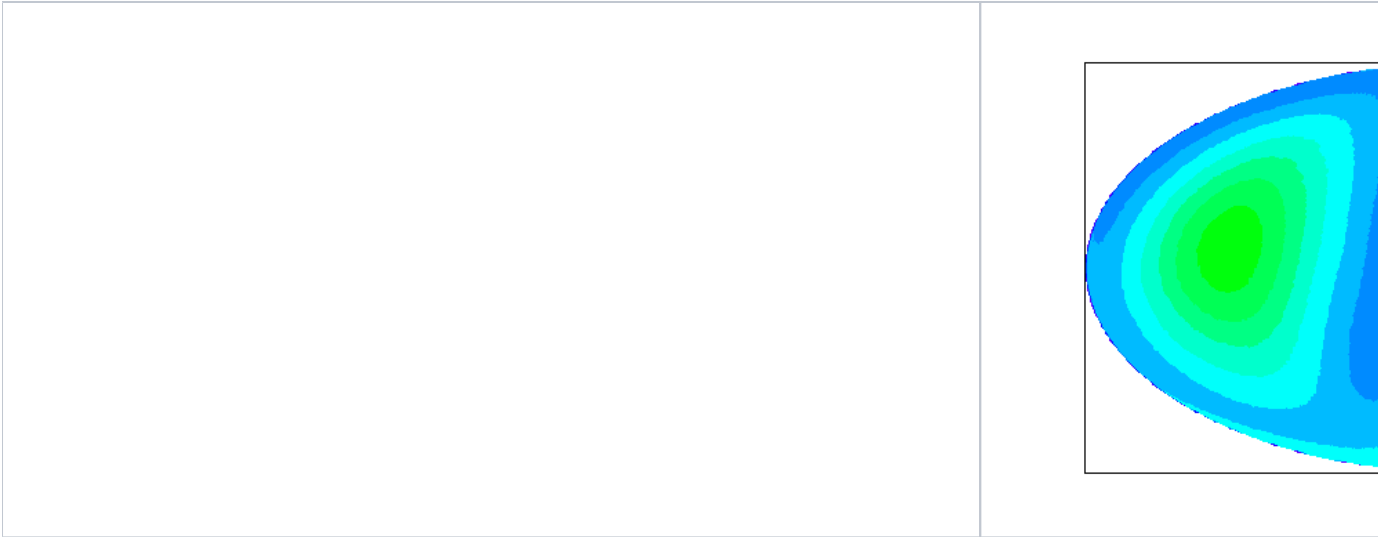


Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ072946m113635	111.982	-11.678	227.48 1	2.6302 4	26	22	0.67	0.24	2.23	0.29		0°35.0' BZQ J0730?1141 PKS 0727? 11

3C273	187.093	1.8878	289.61 1	64.161 4	381	112	4.99	0.65	2.56	0.13		0°14.5'	3C 273
1510m089	228.297	-9.2498	351.24	39.970 6	72	32	1.61	0.45	2.39	0.23		0°10.4'	PKS 1510?08
1633p382	248.22	38.2159	61.154 3	42.807 9	33	22	0.95	0.30	3.15	0.40		0°24.6'	4C +38.41
3C454.3	343.49	16.1743	86.129 3	-38.162	247	67	2.59	0.43	2.33	0.15		0° 1.5'	3C 454.3

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID	
ASPJ000659p725318	1.4072	73.1373	119.57 3	10.565	54	21	0.46	0.18	1.92	0.22		0° 7.8'	LAT PSR J0007+7303
CrabPulsar	83.9678	22.0794	184.66 9	-5.4874 4	72	44	1.69	0.46	2.22	0.20		0°19.2'	Crab
Geminga	98.5254	17.6978	195.22	4.27494	655	161	5.46	0.60	1.99	0.07		0° 5.0'	Geminga
VelaPulsar	128.881	-45.1729	263.56 8	-2.7598 3	1964	579	12.91	0.71	2.05	0.04		0° 1.7'	Vela
ASPJ170900m444500	257.41	-44.4275	343.13 7	-2.6406 7	130	72	2.51	0.53	2.00	0.13		0° 3.8'	PSR J1709?4429
ASPJ180224m251551	271.026	-24.3909	6.0082 4	-1.2652 6	5	22	1.58	0.99	2.56	0.47		0°53.8'	HESS J1800?240B
ASPJ183525p591857	279.157	59.4699	88.935	24.9587	164	46	1.04	0.20	1.96	0.14		0° 4.0'	LAT PSR J1836+5925
ASPJ202214p402203	305.364	40.3431	78.135 9	2.03717	80	74	2.22	0.47	2.19	0.15		0° 6.2'	LAT PSR J2021+4026

Six hours run (n. 02241)

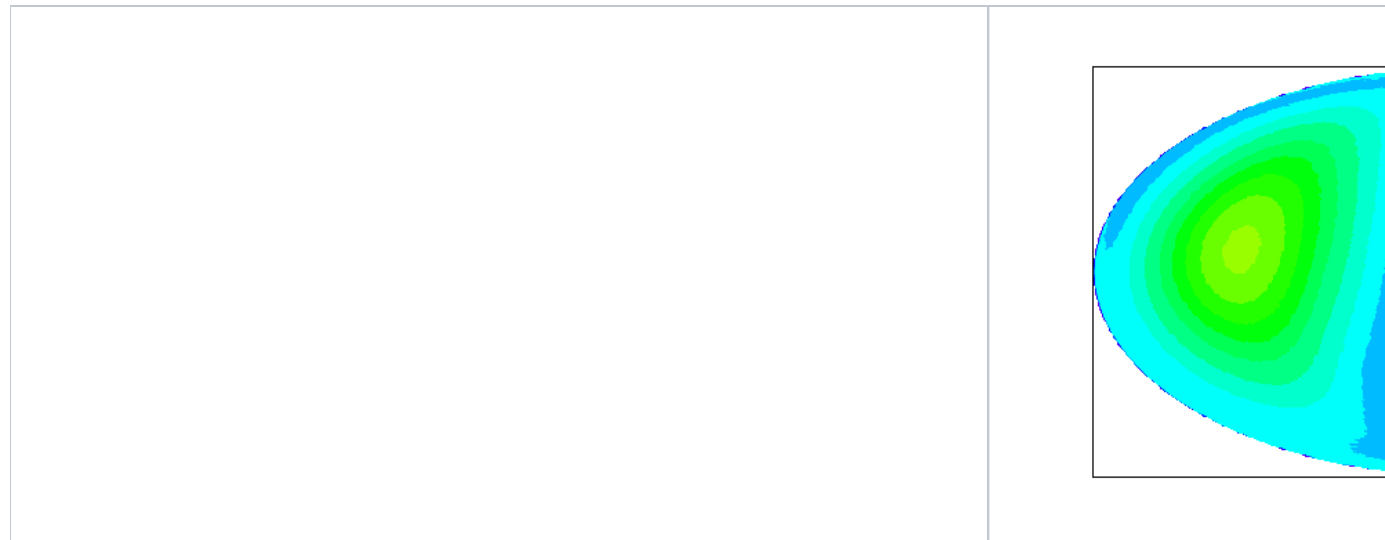


Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID	
3C454.3	344.044	15.7875	86.422 9	-38.778 6	46	15	3.14	1.06	2.70	0.37		0°38.4'	3C 454.3

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID	
ASPJ024507p601601	41.7986	59.8917	136.98	0.21532 2	6	7	0.95	0.62	2.07	0.42		0°29.3'	PSR J0248+6021
Geminga	98.2905	17.5605	195.24	4.01307	89	23	3.50	1.00	1.88	0.18		0°16.6'	Geminga
VelaPulsar	128.886	-45.2135	263.60 3	-2.78127	539	156	12.58	1.33	2.05	0.08		0° 3.0'	Vela
ASPJ201550p405426	305.209	40.6027	78.282 8	2.28161	24	21	3.59	1.30	2.41	0.30		0°12.4'	LAT PSR J2021+4026

UFOs or ID not found	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID	
ASPJ114402m032728	176.008	-3.4577	272.33 2	55.358	34	15	3.33	1.18	3.96	0.58		-	??
ASPJ190137p013256	285.403	1.549	35.471 2	-1.5561 8	20	20	5.85	2.35	2.66	0.38		-	??

Six hours run (n. 02242)

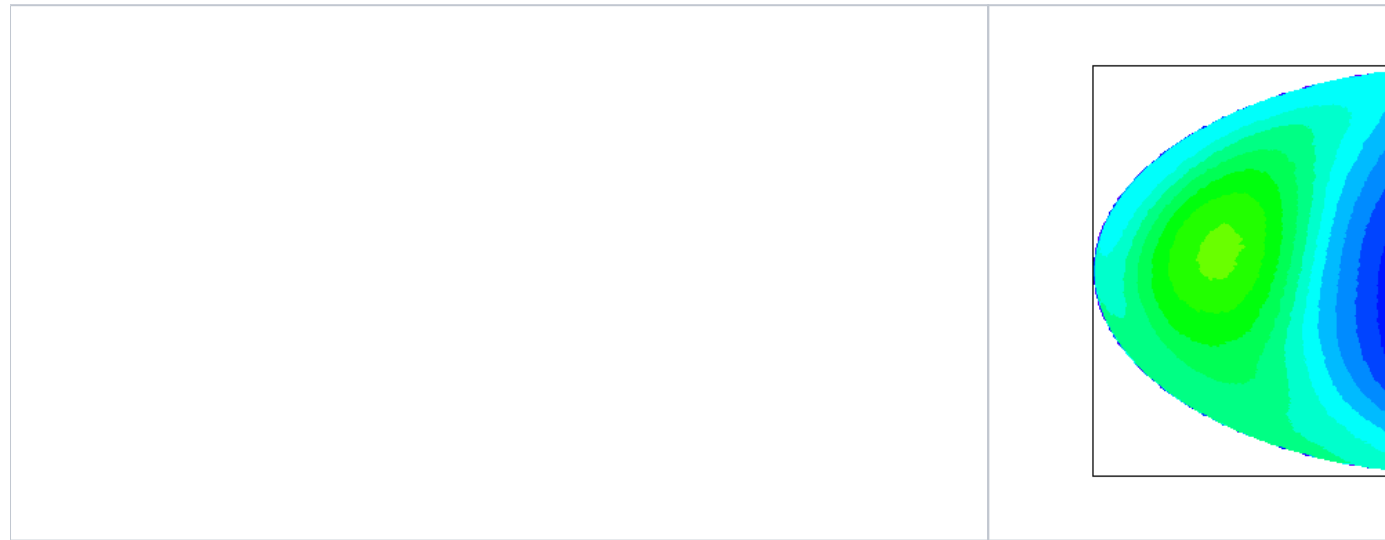


Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
3C454.3	343.498	16.1879	86.1462	-38.1545	0	0	0.00	0.00	2.87	676.77		0° 2.3' 3C 454.3

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
CrabPulsar	83.9937	22.0019	184.748	-5.50845	41	13	2.44	1.02	1.92	0.26		0°20.3' Crab
Geminga	98.3522	17.7521	195.096	4.15293	121	32	7.47	1.85	2.06	0.17		0° 7.4' Geminga
VelaPulsar	128.906	-45.1206	263.537	-2.71443	236	74	12.49	1.93	2.14	0.12		0° 4.3' Vela
ASPJ170900m444500	257.362	-44.3989	343.14	-2.59656	57	23	3.16	1.06	1.91	0.20		0° 6.2' PSR J1709?4429
ASPJ183525p591857	279.103	59.2684	88.7113	24.9447	36	9	2.05	0.83	2.21	0.34		0° 9.6' LAT PSR J1836+5925

UFOs or ID not found	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ105407m605658	163.619	-61.1663	289.302	-1.42863	10	11	1.85	0.93	2.27	0.39		0°46.8' EMS0704
ASPJ141410m621049	214.28	-61.2459	313.051	-0.0688586	25	30	4.05	1.35	2.33	0.26		0°20.3' LAT PSR J1418? 6058 0°34.4' PSR J1420?6048 0°51.2' (u) J1410?6132 0°55.0' EMS0925

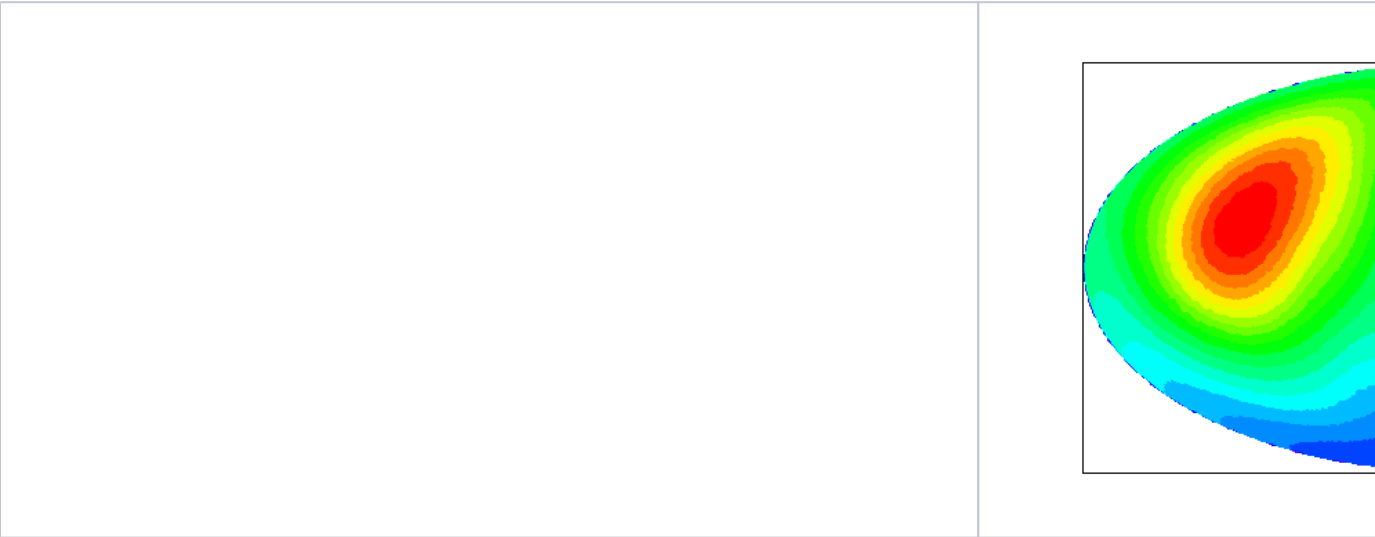
Six hours run (n. 02243)



Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
3C273	187.186	1.8159	289.853	64.1098	149	42	7.10	1.05	2.59	0.17		0°14.9' 3C 273
1510m089	227.763	-9.3874	350.608	40.2212	21	7	1.32	0.67	2.07	0.38		0°31.4' PKS 1510? 08
3C454.3	343.289	16.4058	86.0884	-37.862	34	9	2.12	0.90	2.30	0.38		0°19.4' 3C 454.3

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
Geminga	98.5563	17.8398	195.107	4.36588	156	41	6.80	1.47	2.11	0.16		0° 6.0' Geminga
VelaPulsar	128.887	-45.2054	263.597	-2.77603	699	199	15.75	1.45	2.10	0.07		0° 2.7' Vela

Six hours run (n. 02244)



Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ122438p023006	187.024	2.0669	289.371	64.3224	179	39	12.36	2.51	2.64	0.21		0°15.0' 3C 273
3C454.3	343.128	16.1771	85.7639	-37.9655	31	8	2.30	1.06	2.10	0.36		0°21.2' 3C 454.3

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
CrabPulsar	83.8306	22.163	184.53	-5.55029	21	6	1.59	1.03	1.95	0.41		0°14.2' Crab
Geminga	98.59	17.9425	195.03	4.44122	68	16	3.93	1.30	1.95	0.22		0°12.1' Geminga
VelaPulsar	128.863	-45.2161	263.595	-2.79569	253	76	11.96	1.83	2.03	0.11		0° 2.6' Vela
ASPJ183525p591857	279.16	59.3155	88.7686	24.9261	56	14	2.10	0.72	2.16	0.28		0° 7.3' LAT PSR J1836+5925
ASPJ201550p405426	305.073	40.439	78.0892	2.27411	3	9	2.01	1.39	2.57	0.57		0°14.3' LAT PSR J2021+4026

UFOs or ID not found	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ163816m471942	249.812	-47.1335	337.699	-0.231322	2	7	1.76	1.93	2.50	0.76		0°37.2' 0°38.3' 0°44.9' G337.2+0.1 IGR J16358? 4726 HESS J1640?465 G338.3? 0.0 EMS1081

* F(E>100MeV) × 10^?6^ ph cm^?2^ s^?1^