Requirements for DC2

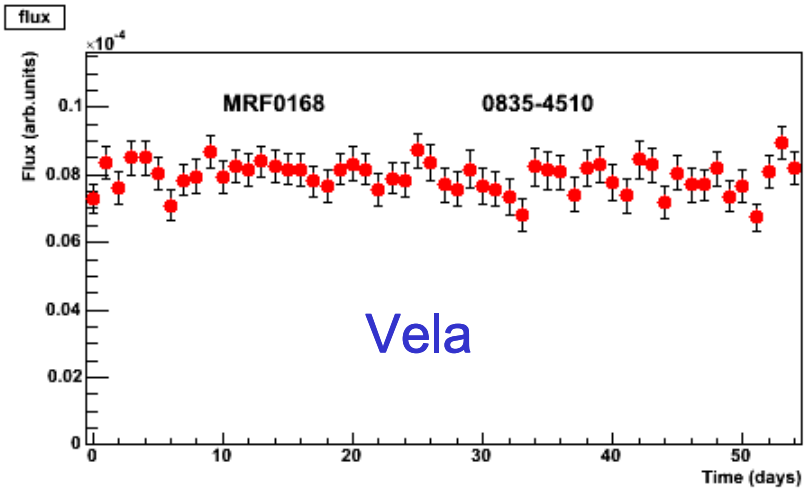
Requirements: - light curves for the 20 (18) sources mentioned in the Year 1 data release plan
- EBL study
- 1 variable source which is neither an AGN/pulsar/ GRB

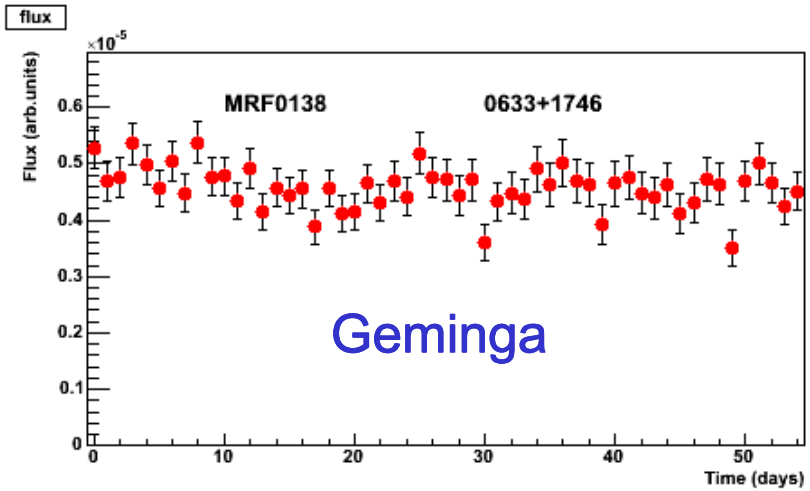
Source type	Source name	other name	Average or min. flux (10^{-8} γ cm^{-2} s^{-1})	Latitude
Sources from 3rd EGRET Catalog				
Blazar	0208-512	3EGJ0210-5055	85.5 ± 4.5	-61.9
	PKS 0528+134	3EGJ0530+1323	93.5 ± 3.6	-11.1
	0827+243	3EGJ0829+2413	24.9 ± 3.9	31.7
	Mrk 421	3EGJ1104+3809	13.9 ± 1.8	65.0
	3C 273	3EGJ1229+0210	15.4 ± 1.8	64.5
	3C 279	3EGJ1255-0549	74.2 ± 2.8	57.0
	1406-076	3EGJ1409-0745	27.4 ± 2.8	50.3
	PKS 1622-297	3EGJ1625-2955	47.4 ± 3.7	13.4
	1633+383	3EGJ1635+3813	58.4 ± 5.2	42.3
	1730-130 NRAO 530	3EGJ1733-1313	36.1 ± 3.4	10.6
	3C 454.3	3EGJ2254+1601	53.7 ± 4.0	-38.3
HMXB	LSI +61 303/ 2CG135+01	3EGJ0241+6103	69.3 ± 6.1	1.0
any source (except Crab, Vela and Geminga pulsars)			**monitor if flux exceeds 2×10^{-6} cm^{-2} s^{-1} and report flux down to 2×10^{-7} cm^{-2}s^{-1}**	
After confirmed detection by LAT				
Blazar	Mrk 501			
	W Com 1219+285	3EG J1222+2841	11.5 ± 1.8	83.5
	1ES 1959+650	TeV		
	1ES 2344+514	TeV		
	H 1426+428	TeV		
	PKS 2155-304	TeV		

Crude light curves

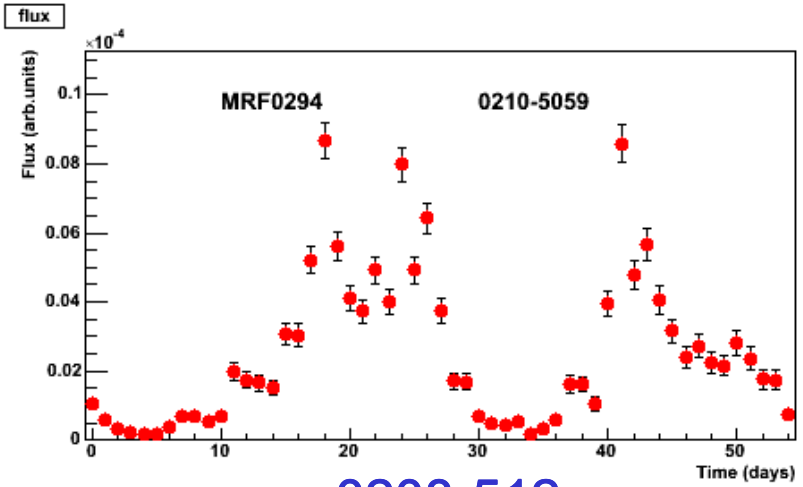
Crude light curves were produced by:
- integrating the counts over a 2x2 deg.^{2} area
- correcting for the energy dependent exposure (6 bins betw.100 MeV and 100 GeV).
Contributions from galactic and extragalactic diffuse emission have not been subtracted.

Available at:
http://www.cenbg.in2p3.fr/ftp/astropart/glast/DC2/light_curves/variable
http://www.cenbg.in2p3.fr/ftp/astropart/glast/DC2/light_curves/non_variable
a crude variability criterion being implied.
The files are ordered according to ra and dec. These light curves are meant to help figure out which sources exhibit strong variability.

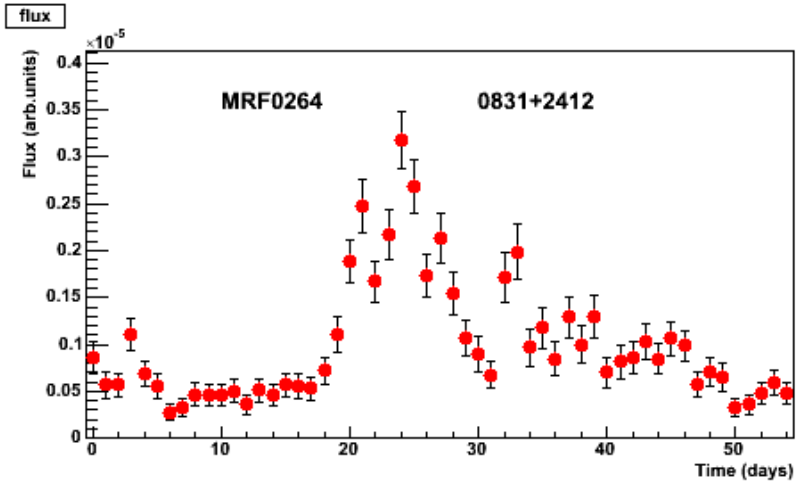




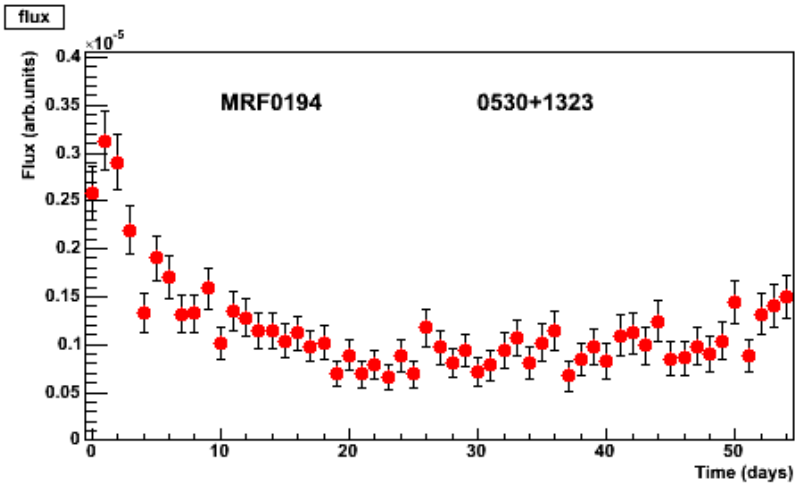
First four sources in the Year1 data release plan



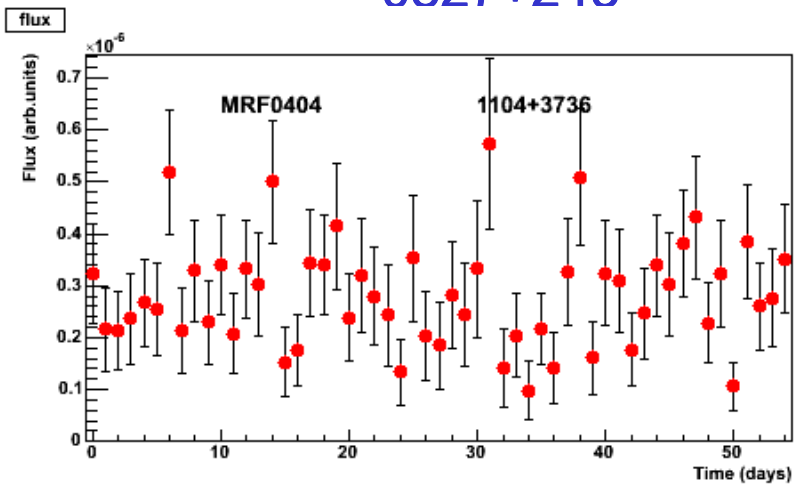
0208-512



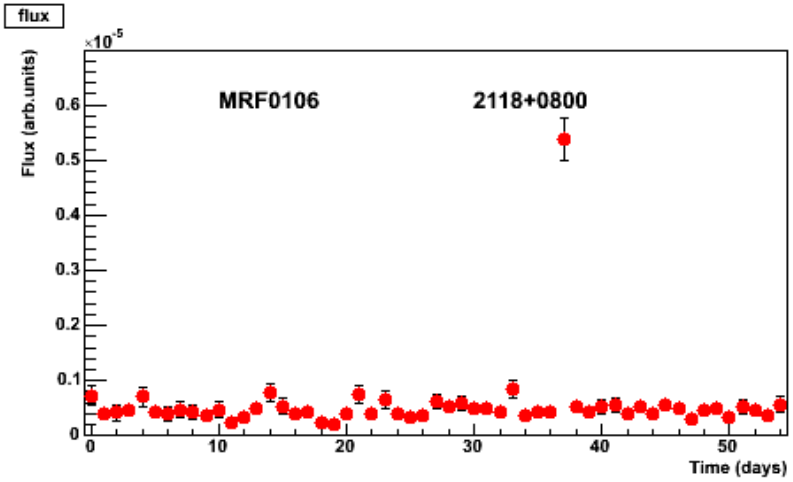
0827+243

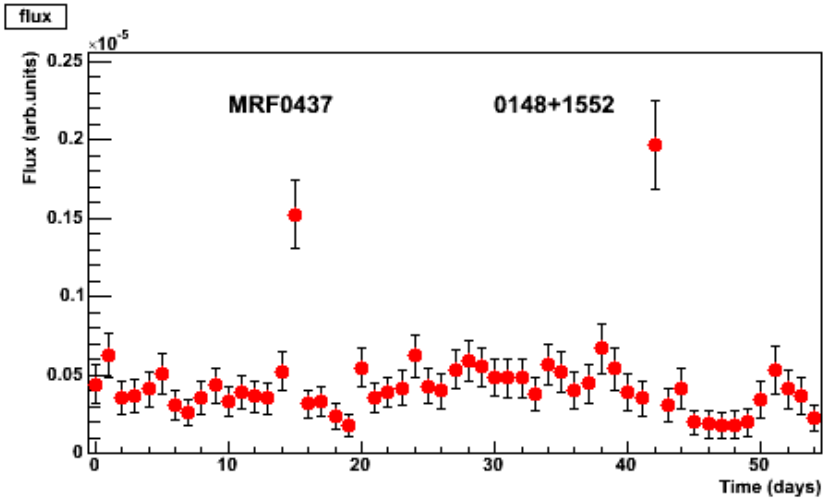


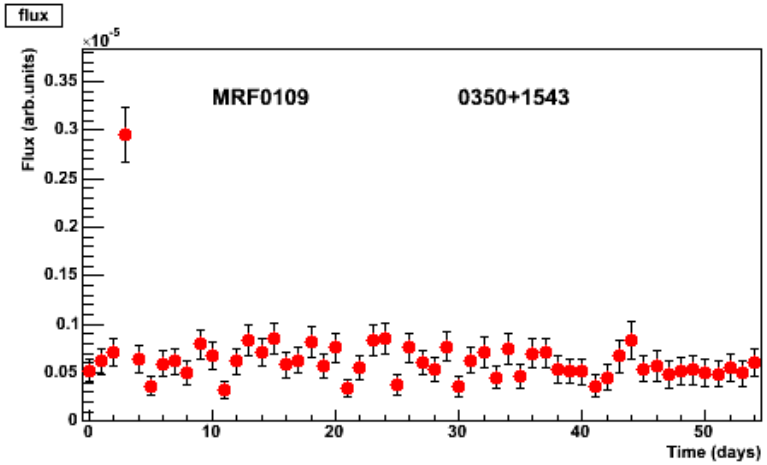
0528+134



Mkn 421







Some sources are GRB-like.

Finding DC2 source counterparts in 3EG

Use of gtsrcid (J. Knoedlseder, V. Lonjou)

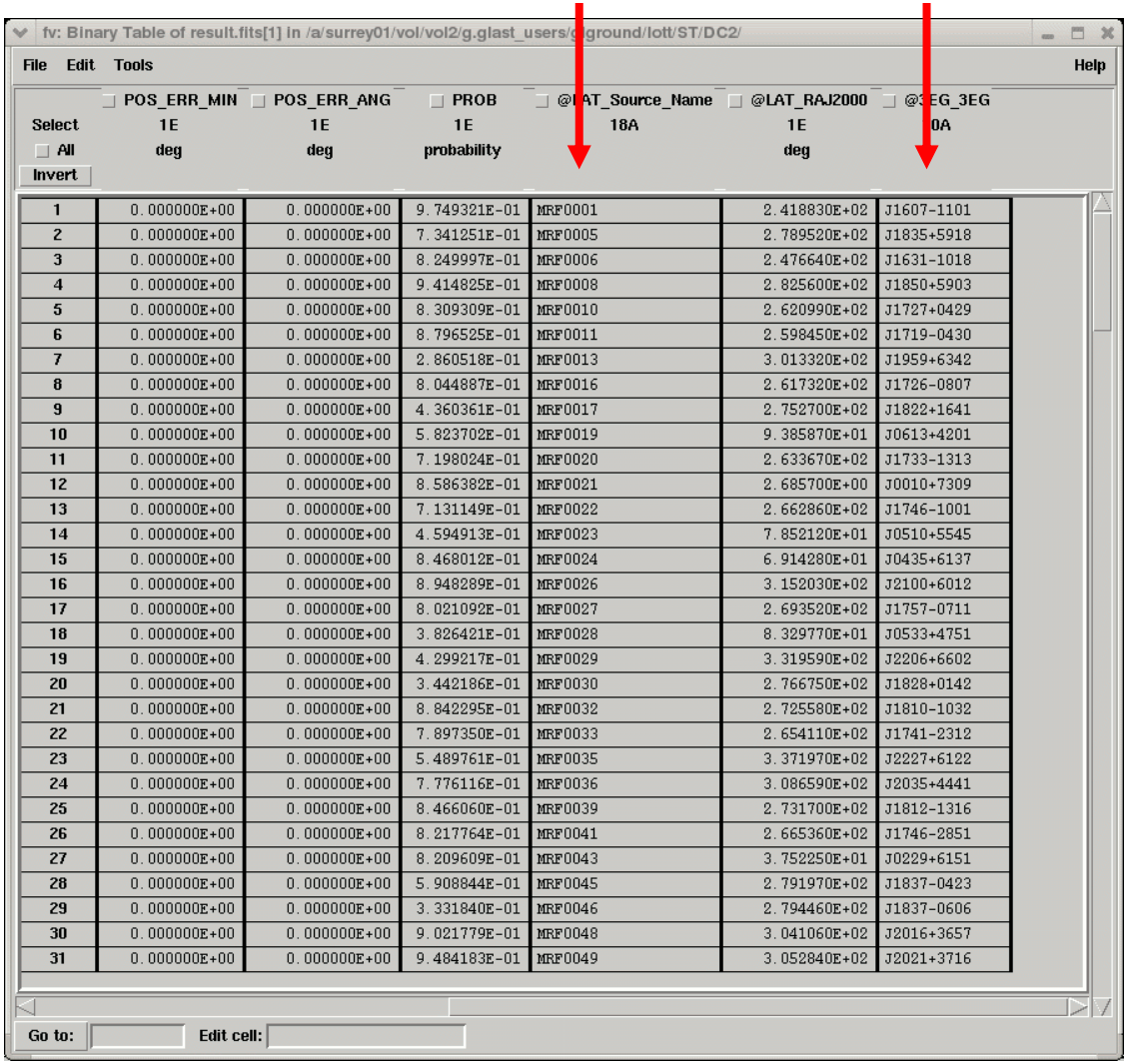
LATSourceCatalog_v0r2.fits
3EG.fits (code/sourceIdentify/v1r0p3/data)

The tool runs fine but there is a slight bug:
RA, DEC in the fits file must be changed into RAJ2000 and DECJ2000
("No position information for MRF***" in gtsrcid.log)

Simple position coincidence: ThreshProb=0.2

204 EGRET sources found in the DC2 catalog

DC2 source name 3EG counterpart



	POS_ERR_MIN	POS_ERR_ANG	PROB	@LAT_Source_Name	@LAT_RAJ2000	@3EG_3EG
	1E	1E	1E	18A	1E	10A
	deg	deg	probability		deg	
1	0.000000E+00	0.000000E+00	9.749321E-01	MRF0001	2.418830E+02	J1607-1101
2	0.000000E+00	0.000000E+00	7.341251E-01	MRF0005	2.789520E+02	J1835+5918
3	0.000000E+00	0.000000E+00	8.249997E-01	MRF0006	2.476640E+02	J1631-1018
4	0.000000E+00	0.000000E+00	9.414825E-01	MRF0008	2.825600E+02	J1850+5903
5	0.000000E+00	0.000000E+00	8.309309E-01	MRF0010	2.620990E+02	J1727+0429
6	0.000000E+00	0.000000E+00	8.796525E-01	MRF0011	2.598450E+02	J1719-0430
7	0.000000E+00	0.000000E+00	2.860518E-01	MRF0013	3.013320E+02	J1959+6342
8	0.000000E+00	0.000000E+00	8.044887E-01	MRF0016	2.617320E+02	J1726-0807
9	0.000000E+00	0.000000E+00	4.360361E-01	MRF0017	2.752700E+02	J1822+1641
10	0.000000E+00	0.000000E+00	5.823702E-01	MRF0019	9.385870E+01	J0613+4201
11	0.000000E+00	0.000000E+00	7.198024E-01	MRF0020	2.633670E+02	J1733-1313
12	0.000000E+00	0.000000E+00	8.586382E-01	MRF0021	2.685700E+00	J0010+7309
13	0.000000E+00	0.000000E+00	7.131149E-01	MRF0022	2.662860E+02	J1746-1001
14	0.000000E+00	0.000000E+00	4.594913E-01	MRF0023	7.852120E+01	J0510+5545
15	0.000000E+00	0.000000E+00	8.468012E-01	MRF0024	6.914280E+01	J0435+6137
16	0.000000E+00	0.000000E+00	8.948289E-01	MRF0026	3.152030E+02	J2100+6012
17	0.000000E+00	0.000000E+00	8.021092E-01	MRF0027	2.693520E+02	J1757-0711
18	0.000000E+00	0.000000E+00	3.826421E-01	MRF0028	8.329770E+01	J0533+4751
19	0.000000E+00	0.000000E+00	4.299217E-01	MRF0029	3.319590E+02	J2206+6602
20	0.000000E+00	0.000000E+00	3.442186E-01	MRF0030	2.766750E+02	J1828+0142
21	0.000000E+00	0.000000E+00	8.842295E-01	MRF0032	2.725580E+02	J1810-1032
22	0.000000E+00	0.000000E+00	7.897350E-01	MRF0033	2.654110E+02	J1741-2312
23	0.000000E+00	0.000000E+00	5.489761E-01	MRF0035	3.371970E+02	J2227+6122
24	0.000000E+00	0.000000E+00	7.776116E-01	MRF0036	3.086590E+02	J2035+4441
25	0.000000E+00	0.000000E+00	8.466060E-01	MRF0039	2.731700E+02	J1812-1316
26	0.000000E+00	0.000000E+00	8.217764E-01	MRF0041	2.665360E+02	J1746-2851
27	0.000000E+00	0.000000E+00	8.209609E-01	MRF0043	3.752250E+01	J0229+6151
28	0.000000E+00	0.000000E+00	5.908844E-01	MRF0045	2.791970E+02	J1837-0423
29	0.000000E+00	0.000000E+00	3.331840E-01	MRF0046	2.794460E+02	J1837-0606
30	0.000000E+00	0.000000E+00	9.021779E-01	MRF0048	3.041060E+02	J2016+3657
31	0.000000E+00	0.000000E+00	9.484183E-01	MRF0049	3.052840E+02	J2021+3716