Updates on Activities for the DC2

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Which DATA/ST we are using

ST: v6r3p1

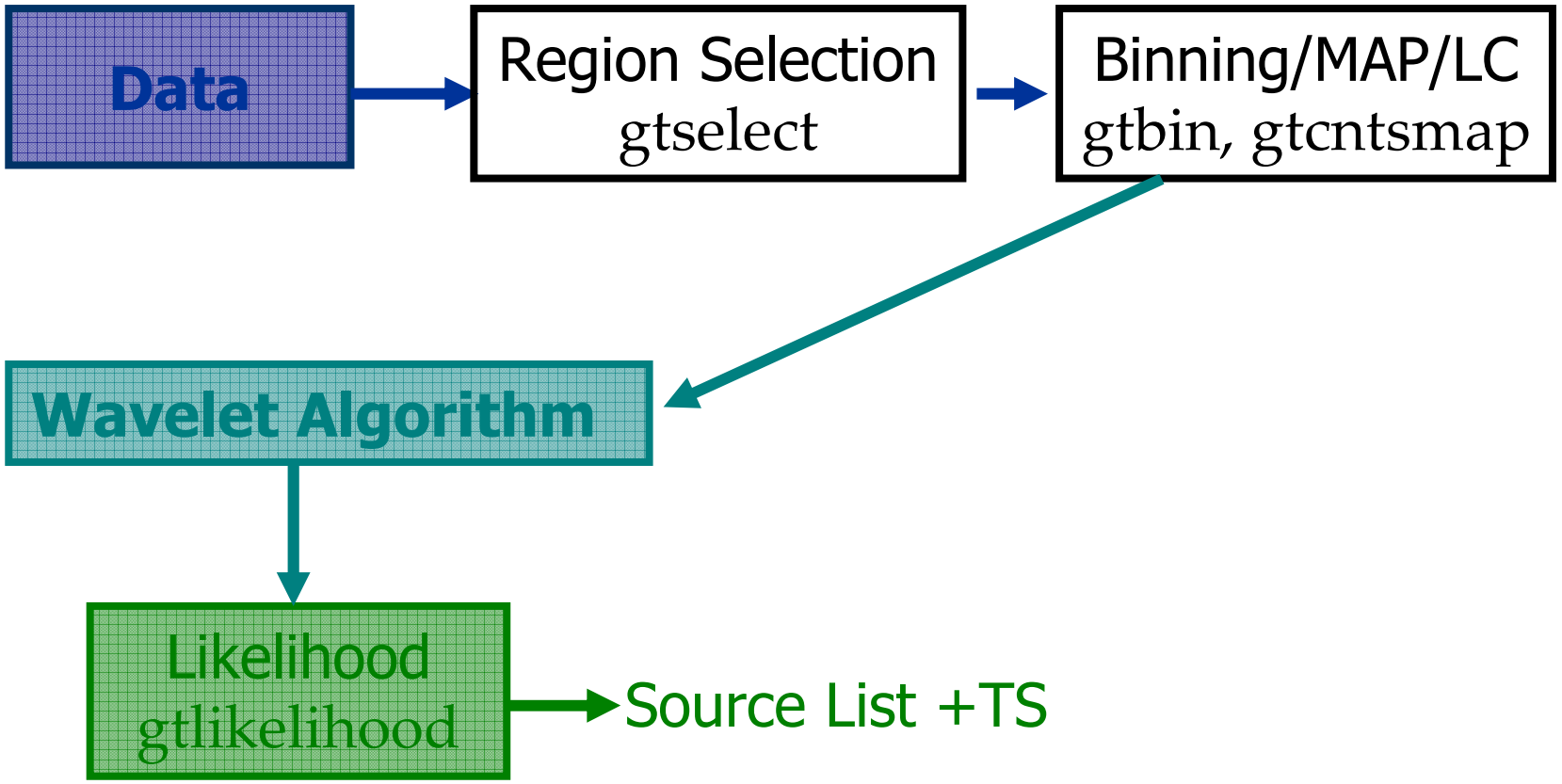
DATA: Regenerated Checkout 3 data

FT2: FT2_51910.fits
FT1 files: ftp://ftp-glast.slac.stanford.edu/glast.u06/checkout3/Checkout3_v2_fits/

All the FT1 files were merged using standard FTOOLS (fmerge, fappend)

The result was a 800 MB file, that was then processed using convertFT1 and gtmaketime to make it compatible with the new FT1 format.

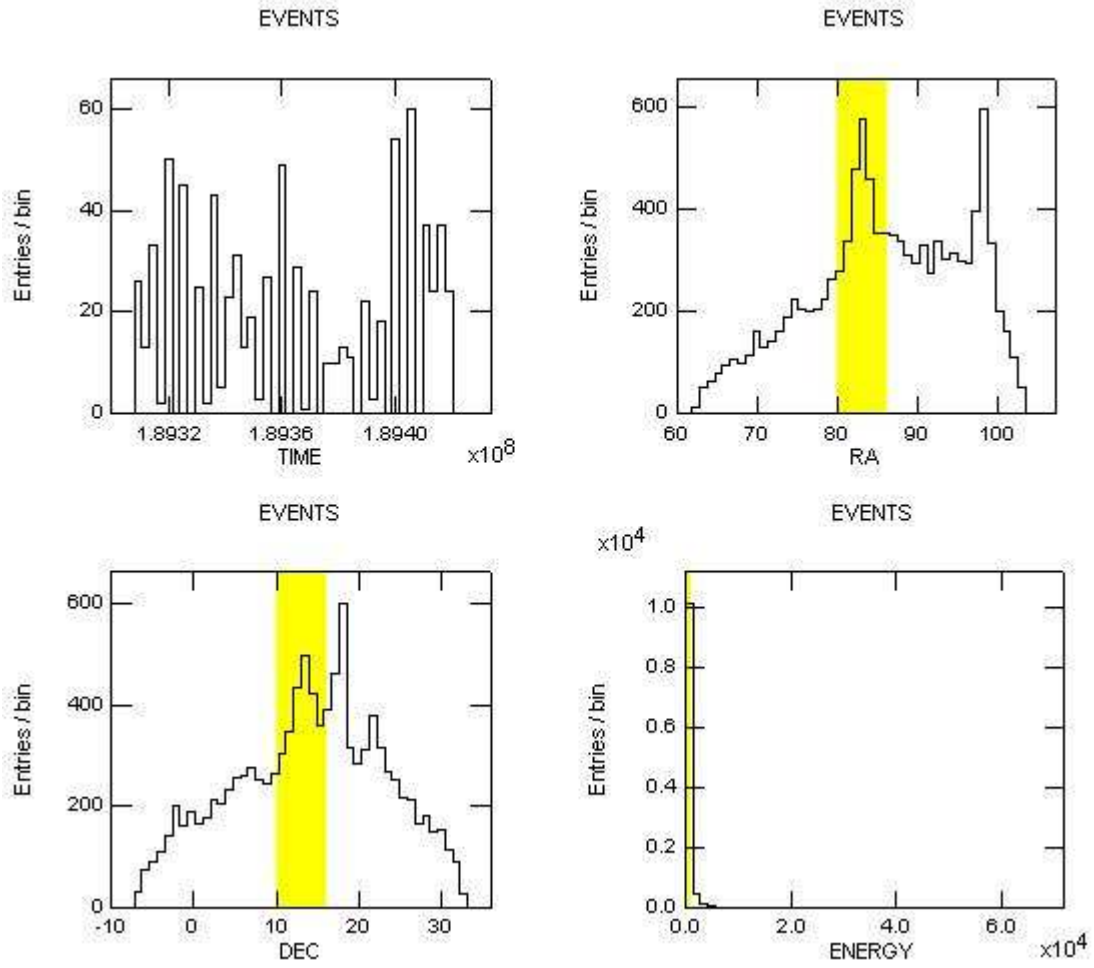
What we are doing



gtlivetimecube
gtexpmap
ModelSource

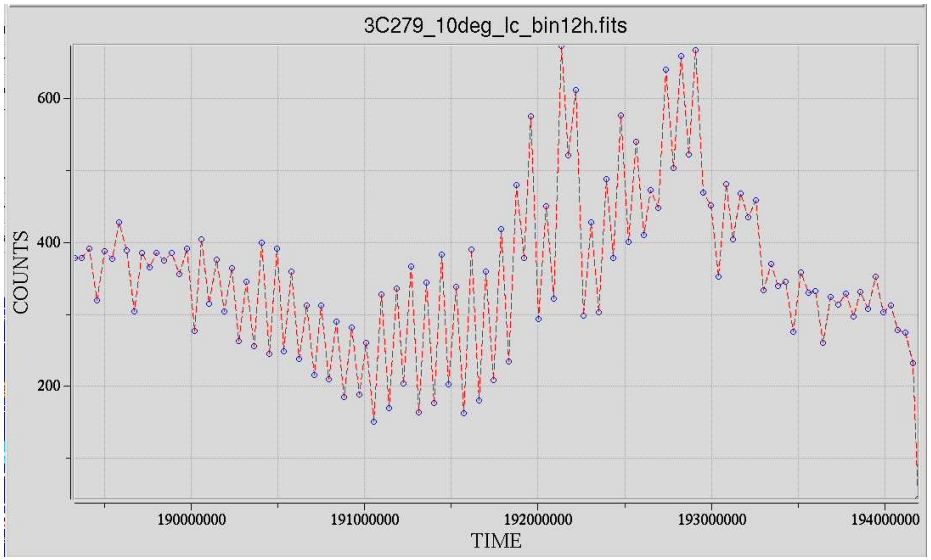
All tools were used setting the parameter
sctable=Ext1 (the extention name of the FT2 table)

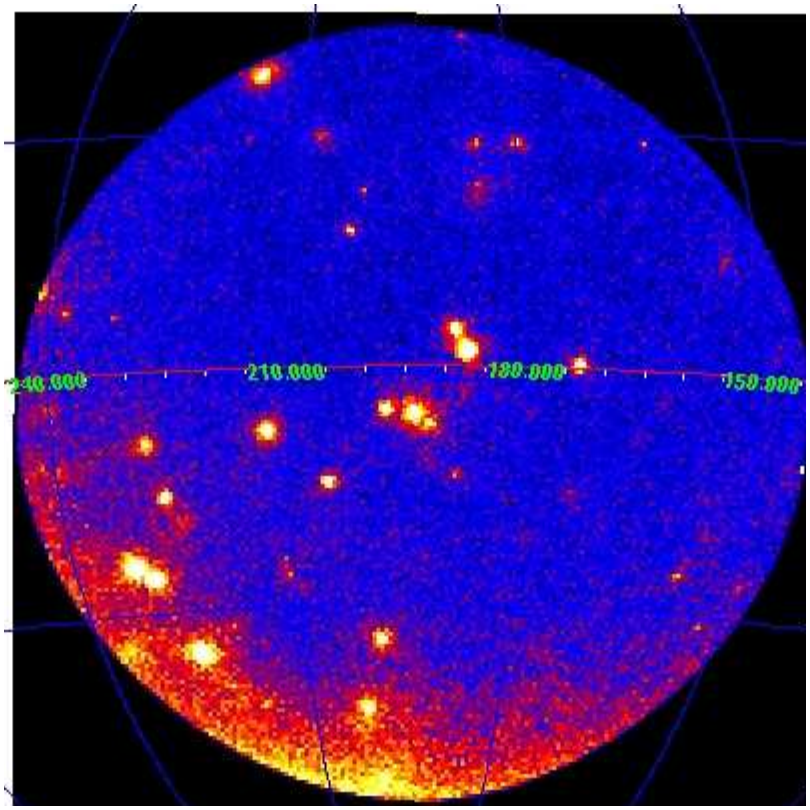
Data Inspection



We found Hippodraw a very useful tool

Analysis of a large region (100° x 100°) around 3C 279



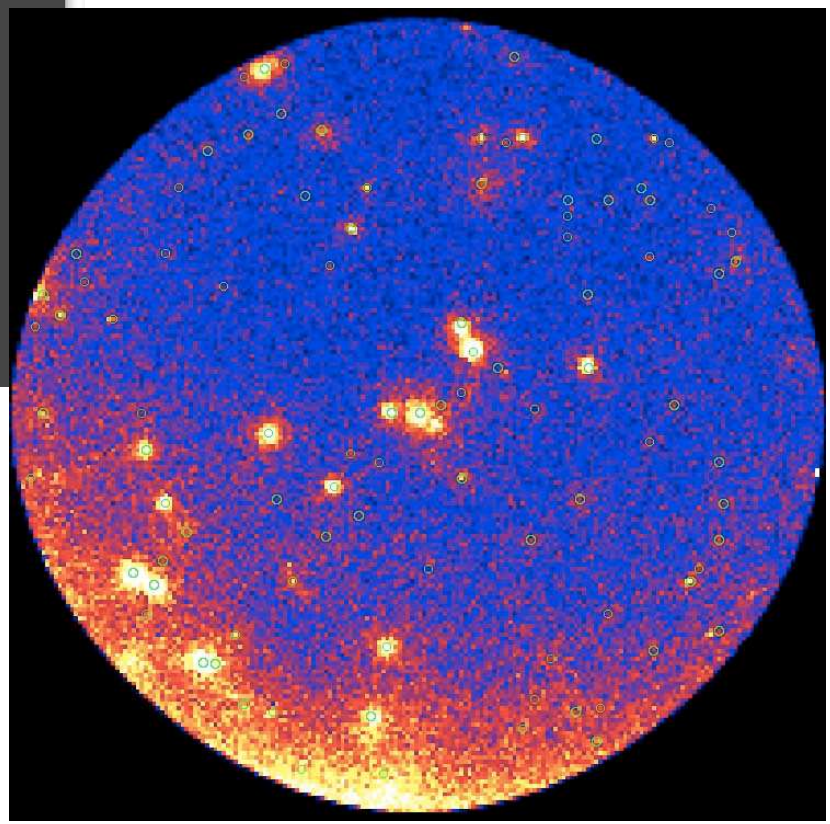


Perugia Wavelet tools

```
**********************************************************************
***                    WAVELET ANALYSIS                            ***
***     -- Programm for detection of point-like sources --         ***
**********************************************************************

Enter the input image file name: [/home/stglast/Wavelet/Replace_11Gen/bin/countsMap.fits] :
Enter number of scanning iterations: [3] :
Enter the signal-to-noise ratios (separated by an empty space): [0.4 -5 -10] : 0 -20 -20
Enter number of wavelet scales: [5] : 10
Enter the MH scales (separated by an empty space): [2 3 4 5 6] : 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6
Enter number of sigmas for the gaussian filter: [5.0] : 20
Enter the box coefficient for the median filter: [2.0] : 5
Enter the radius coefficient for the threshold area: [1.0] : 0.5
Enter the number of sigmas relatively to statistical confidence: [4] :
Do you want to print all the intermediate fitsio files? (y o n) [n] :
Enable the consecutive-scale condition option? (y o n) [n] :
```

Test of the 2D Wavelet program



To do:
test of the 3D Wavelet on the same region (→useful hints to discover variable sources)

Likelihood

Unbinned likelihood was tested for a smaller region around the Crab

Ok on Linux

We had some problems to use of the Jim's GUI for the likelihood under Windows

After some corrections to the .vbs script and the installation of two Python packages:

RO & pywin32 (we suggest to include these files in the External Libraries)

All was fine

More next time.....