## Search for time-dependent fluctuations in cosmic rays spectra with the AMS01 detector

Flux fluctuation frequence vs Geomagnetic indices:

Data taking period: 8/06/98 18h00-> 12/06/98 2h30

## AMS Z-axis pointing

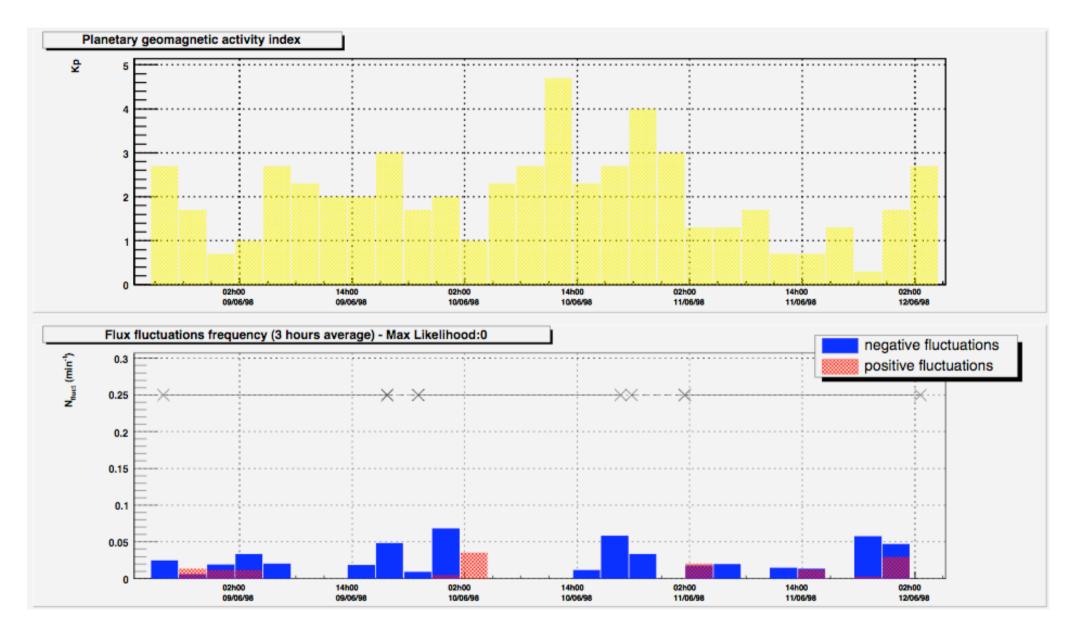
```
8/06/98 17h53 UT -> 9/06/98 17h42 UT Zenith
9/06/98 17h46 UT -> 9/06/98 21h03 UT 45° to Zenith
9/06/98 21h06 UT -> 10/06/98 18h39 UT 20° to Zenith
10/06/98 19h49 UT -> 11/06/98 1h27 UT 30° to Zenith
11/06/98 1h29 UT -> 12/06/98 2h36 UT 45° to Zenith
```

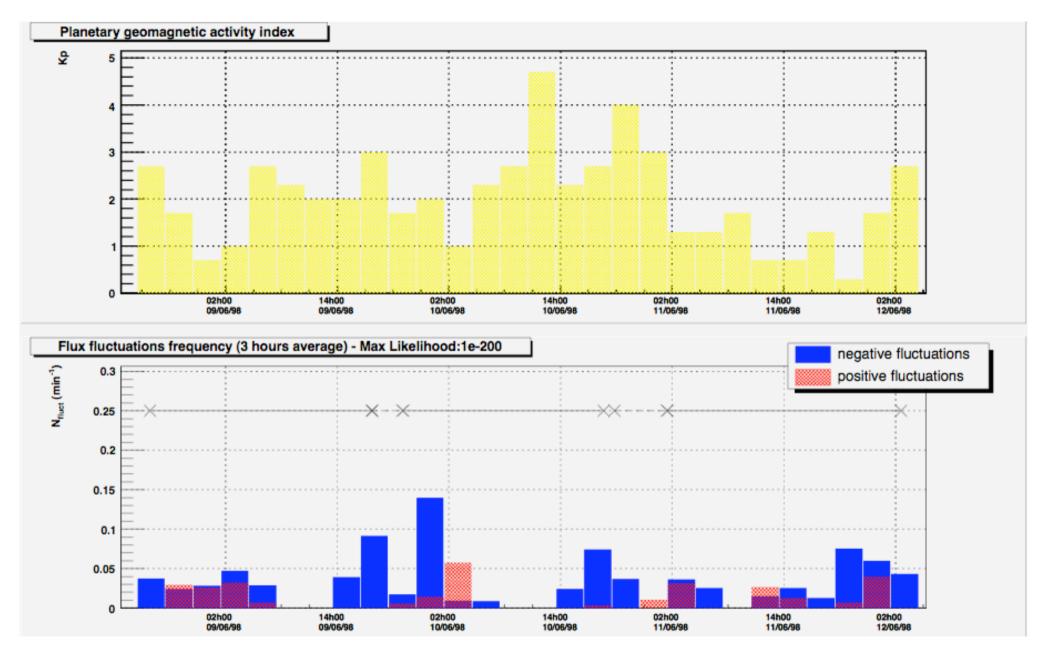
All fluctuations events occurred inside SAA B<0.26 Gauss contour have been excluded

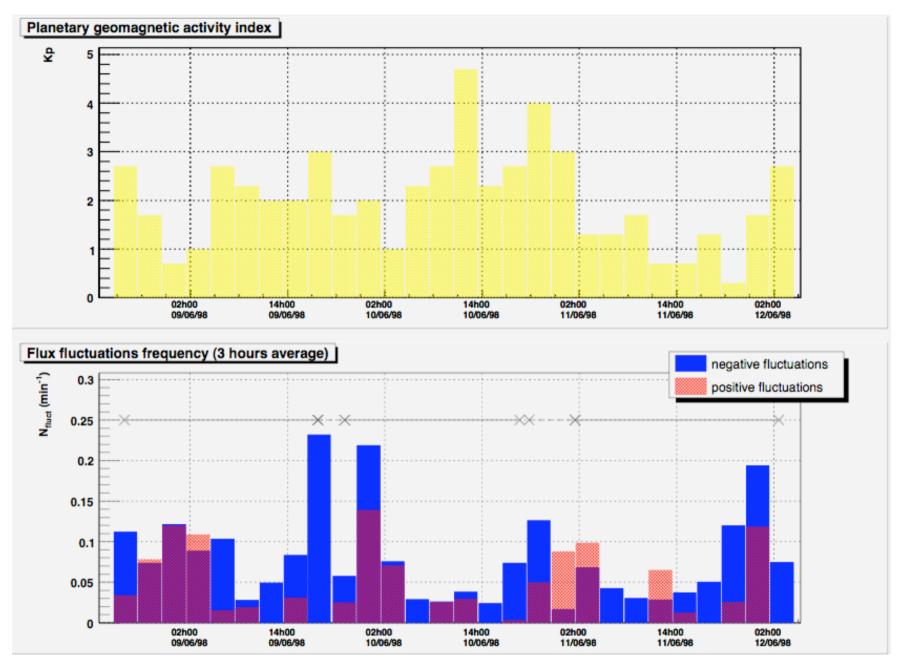
## Geomagnetic indices

(from ground-based stations)

- AE: auroral electrojet index derived from 12 northern-hemisphere auroral-latitude (70°) measures the intensity of substorms expansion phase activity in the magnetosphere
- Kp: planetary geomagnetic index
   quasi-logarithmic scale of geomagnetic activity ranging from 0 to 9, computed
   form 13 geomagnetic observatories in subauroral latitudes (44° 60°)
- Ap: averaged planetary geomagnetic index averaged planetary index based on data from a set of Kp stations
- DST: disturbence Storm Time derived from 4 midlatitude stations (20° - 40°), characterizes magnetic storm intensity

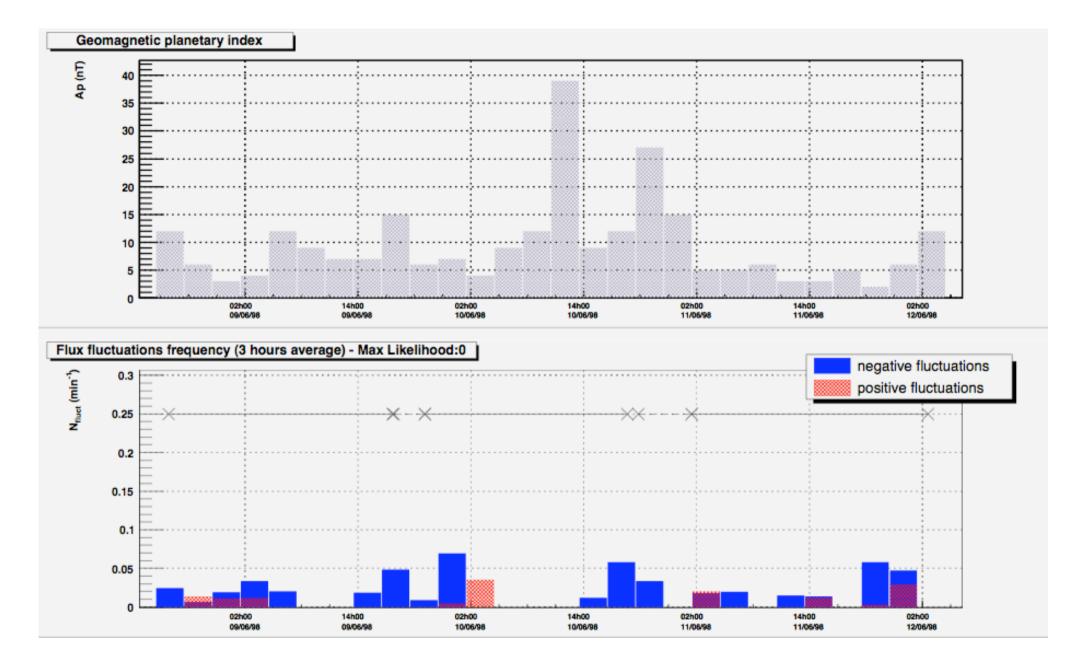


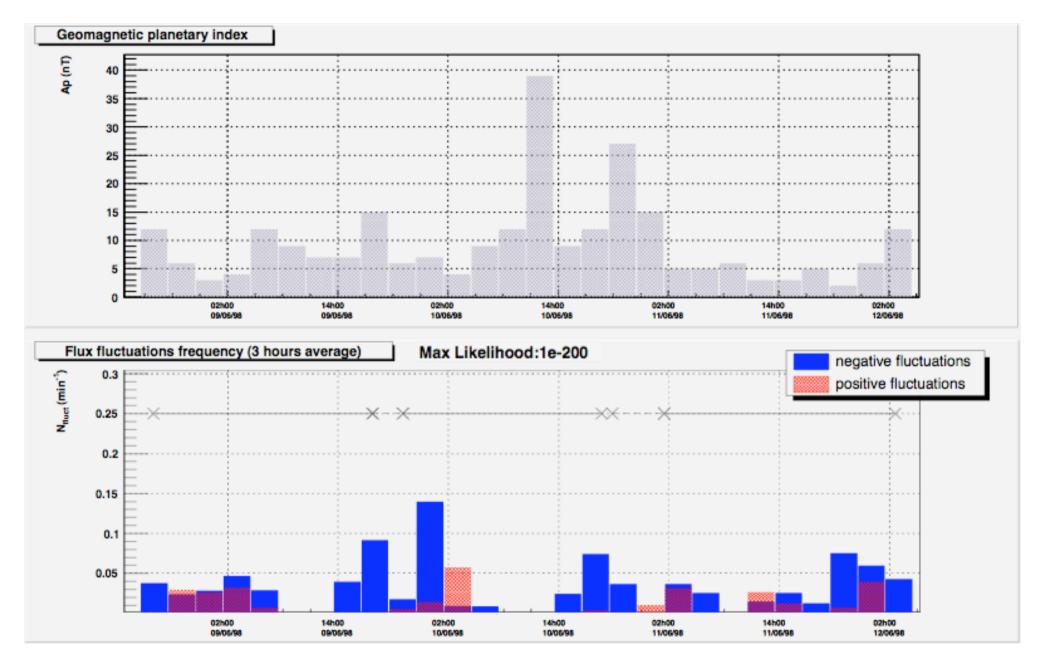




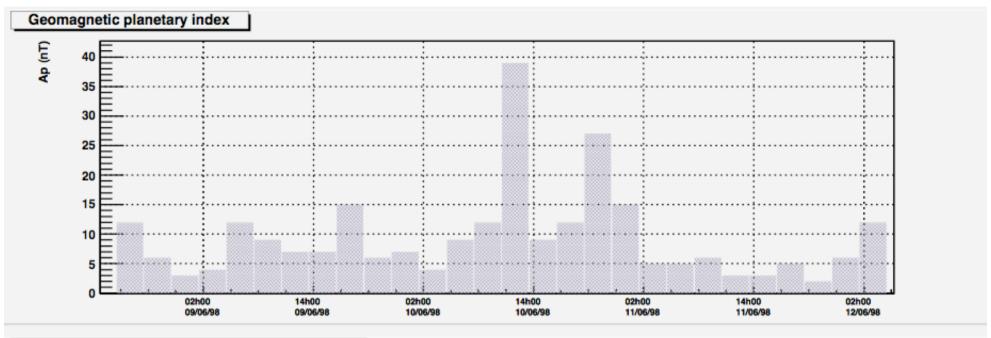
December 12, 2007

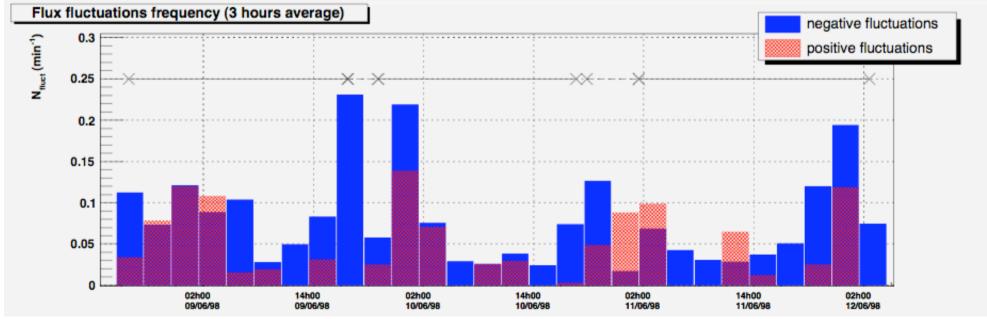
AMS-unige meeting





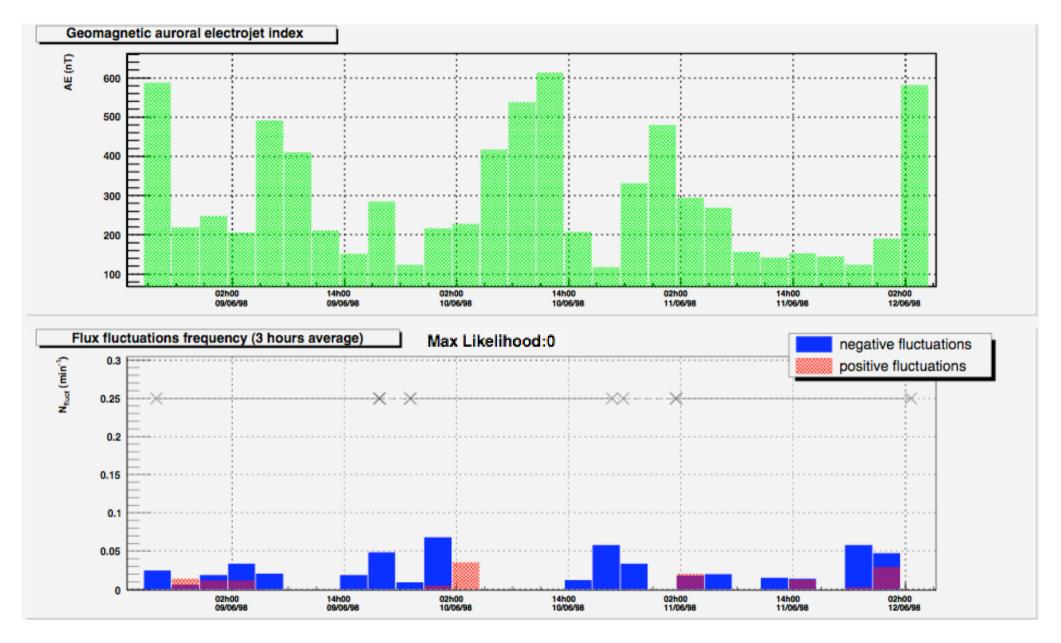
AMS-unige meeting

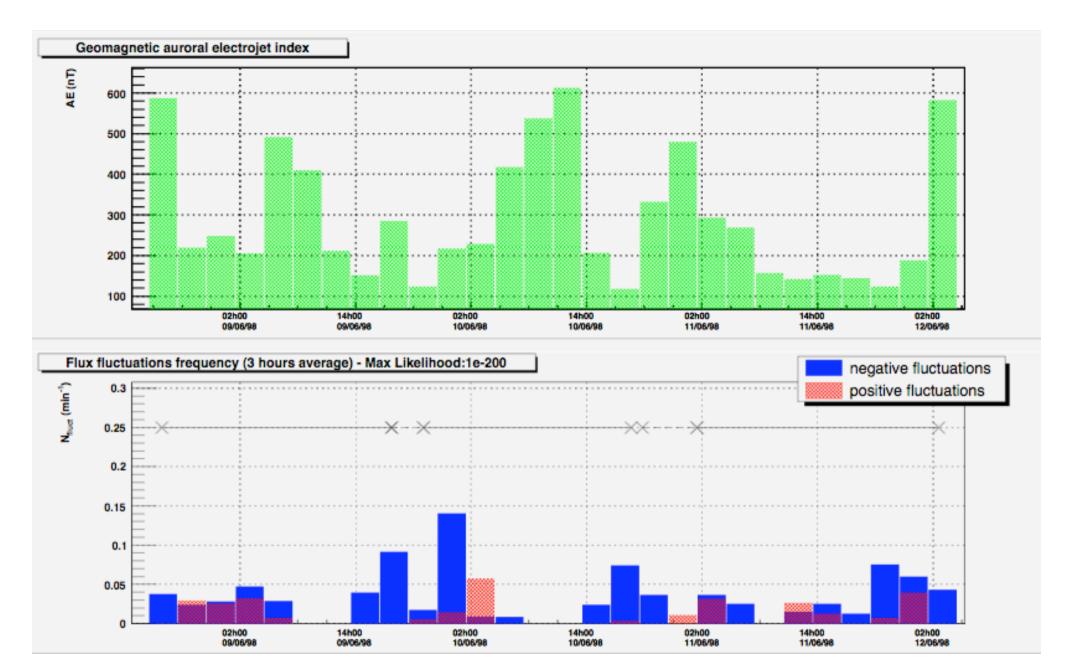




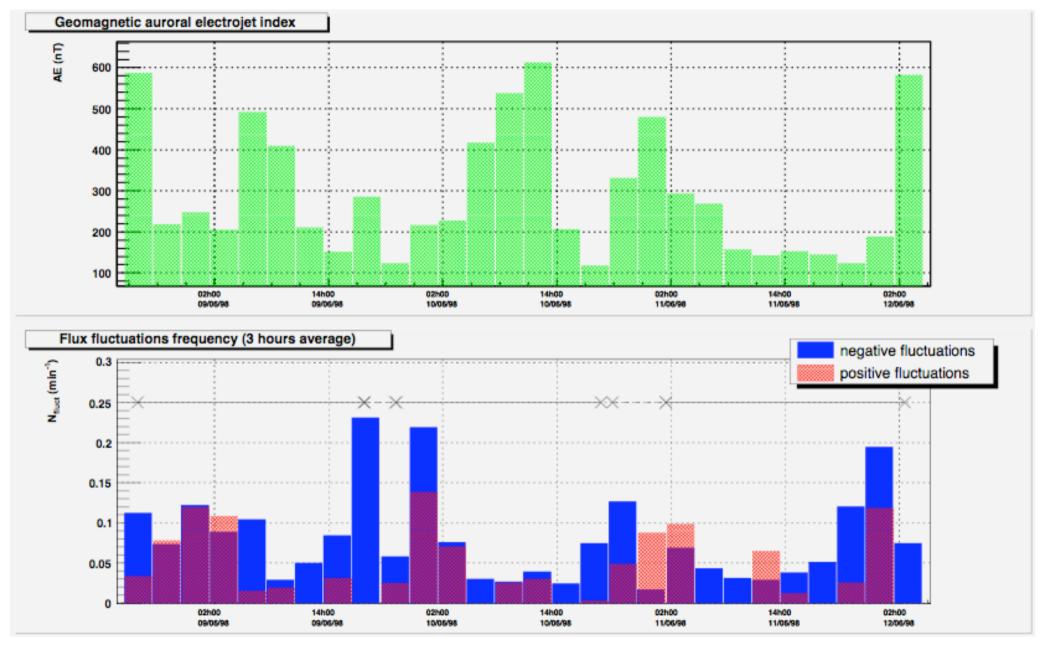
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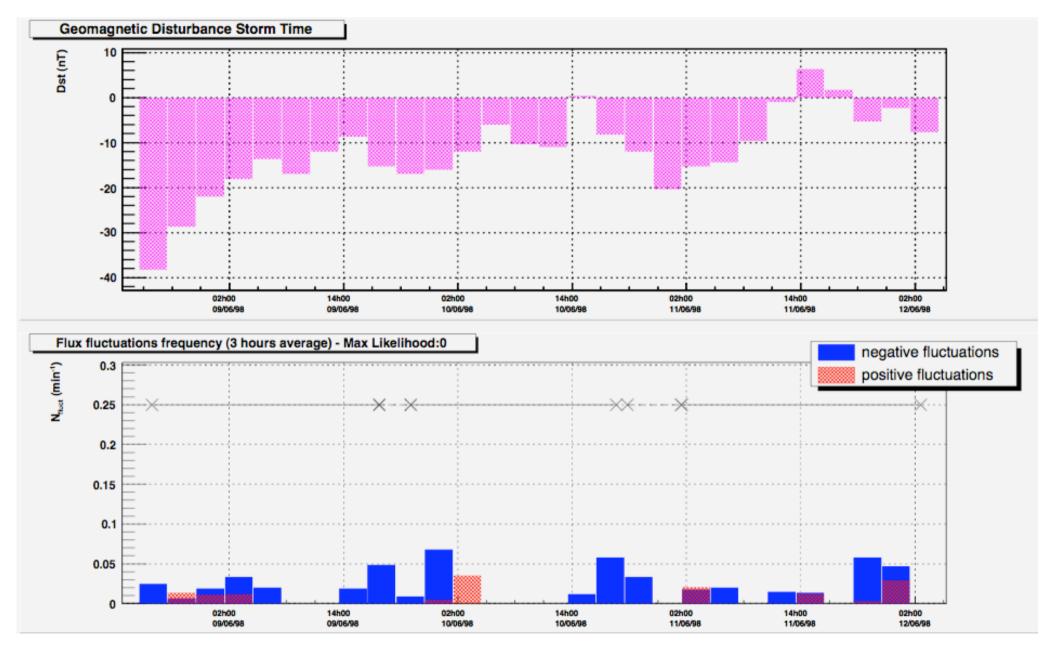


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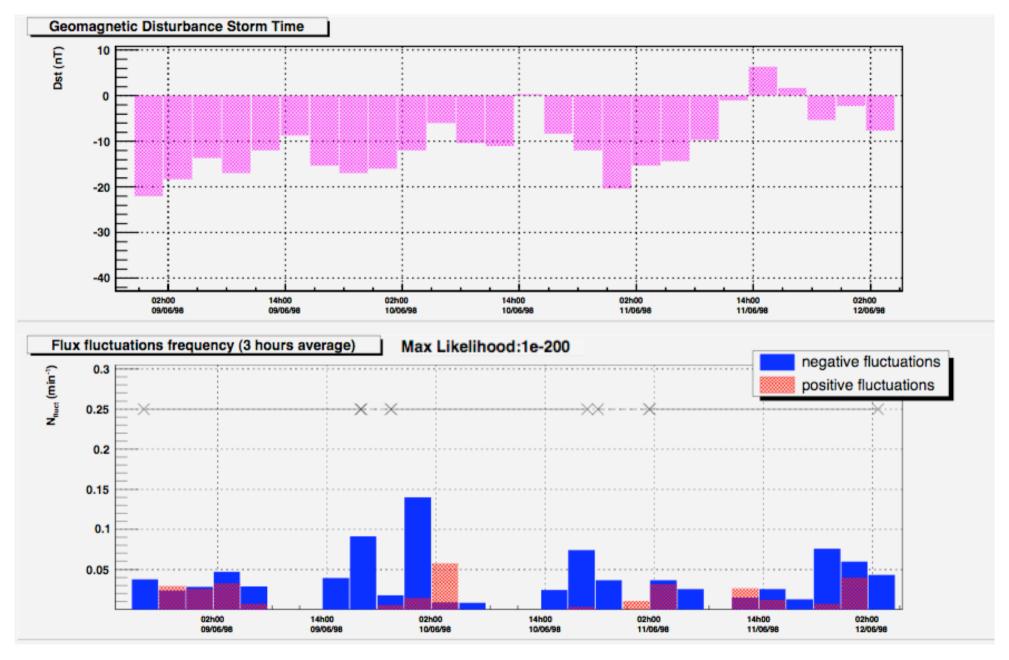


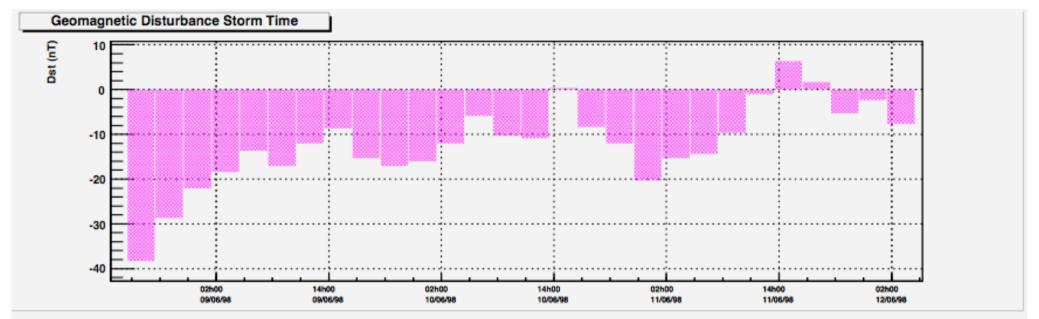
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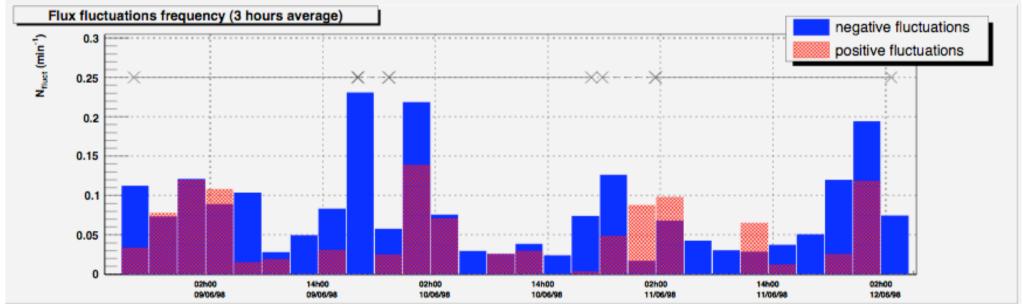
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