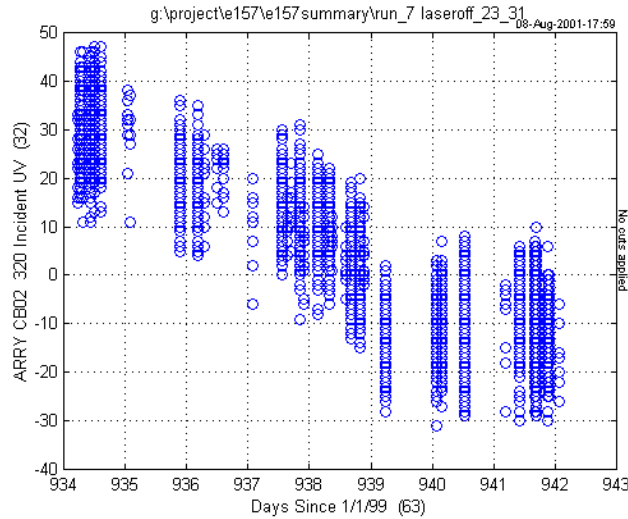


Zero of Incident UV Energy Measurement

The laser off calibration runs for 7/23/2001 through 7/31/2001 were combined into a single file and plotted. The result is below



The results can be parametrized by

$$I_0 = \begin{cases} 33.9 - 6.217 \times (D_s - 934) & 934 \leq D_s \leq 939 \\ -10.6 & D_s > 939 \end{cases} \quad (1.1)$$

where I_0 is the zero of the incident intensity and D_s is the days since 1/1/99.

The data for $D_s > 939$ has been histogrammed. The result is below. The RMS fluctuations of a single measurement $\sigma_{I_0} = 6.93$. That should be taken as the accuracy of any individual UV measurement.

