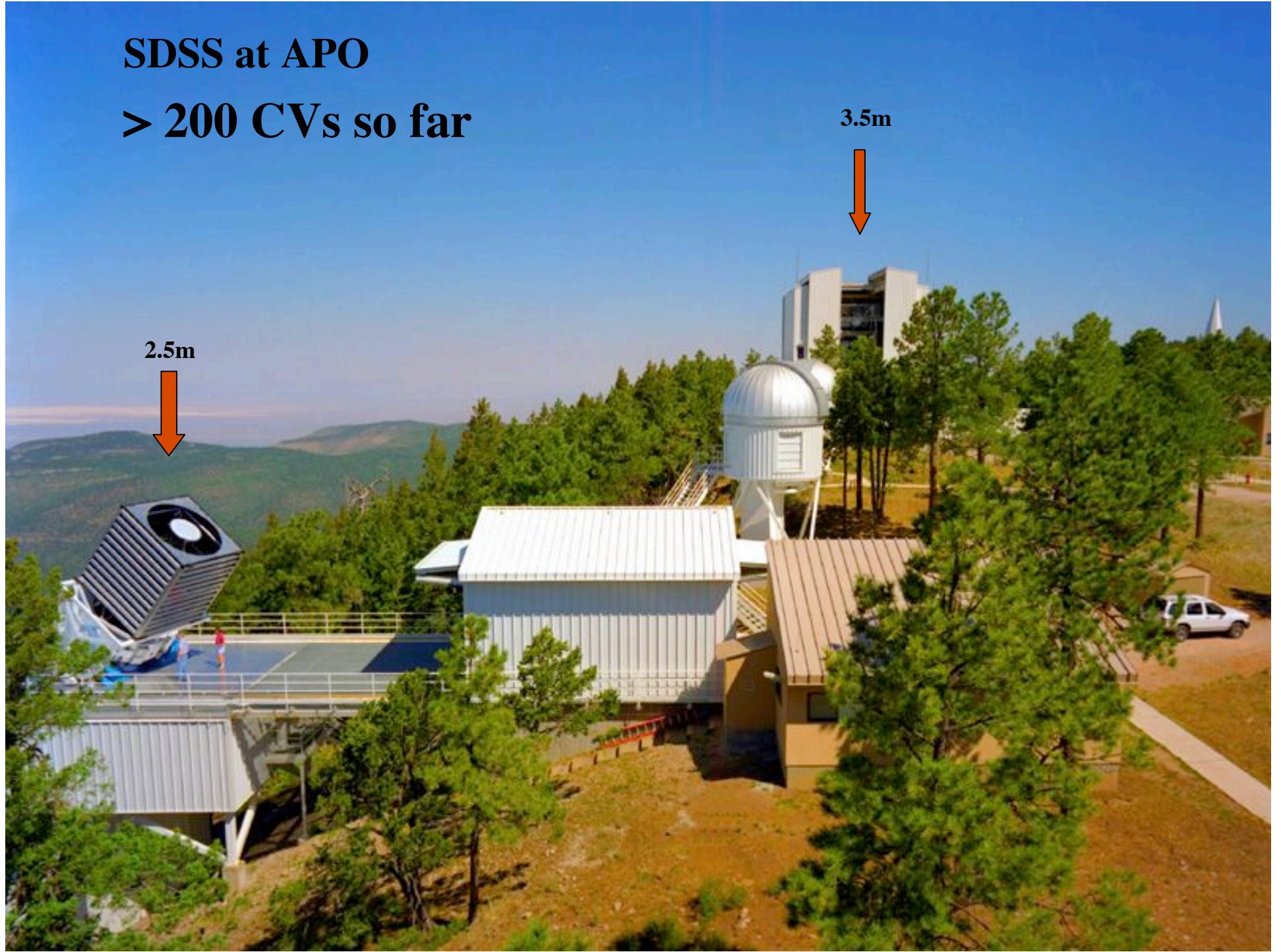


SDSS & GALEX databases

SDSS: <http://www.sdss.org> SkyServer

GALEX: <http://galex.stsci.edu/GR4/> GALEXView

SDSS at APO
> 200 CVs so far



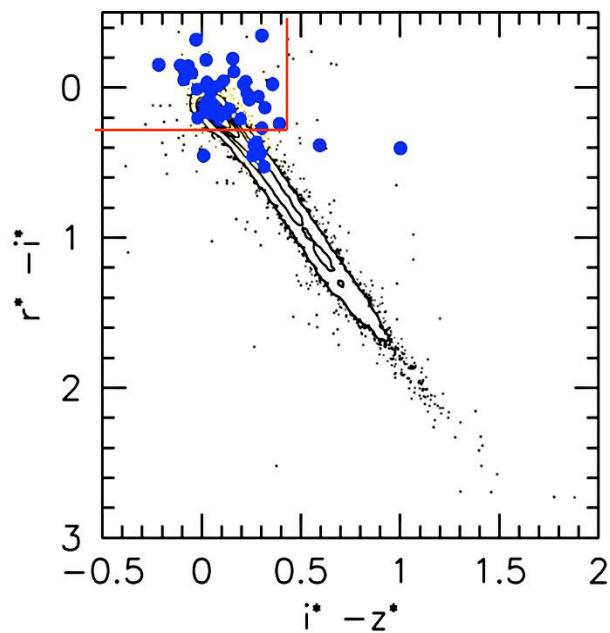
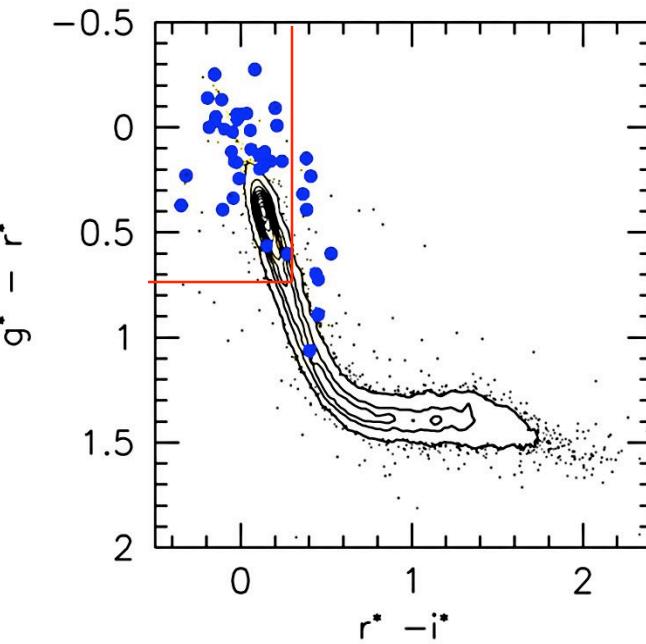
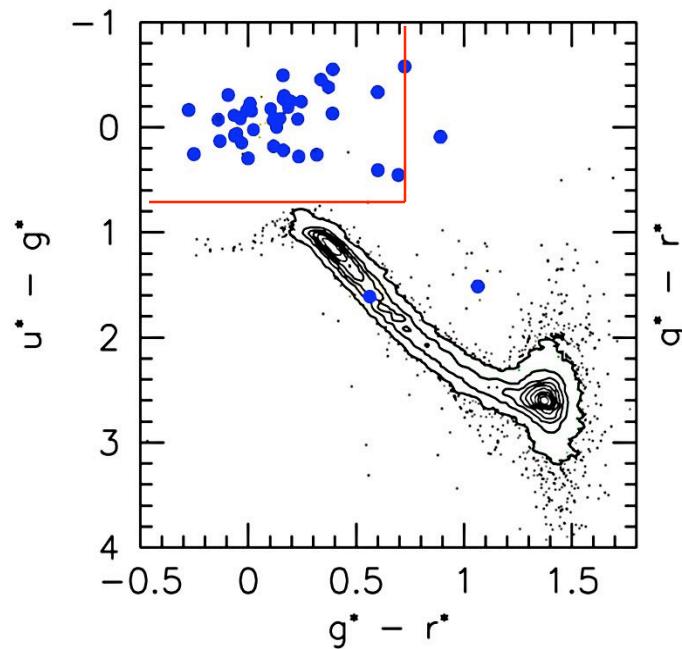
SDSS camera:

30 CCDs

5 filters:

u,g,r,i,z





QSO rejects
Serendip
Blue Cat_Var

SDSS fiber spectrograph

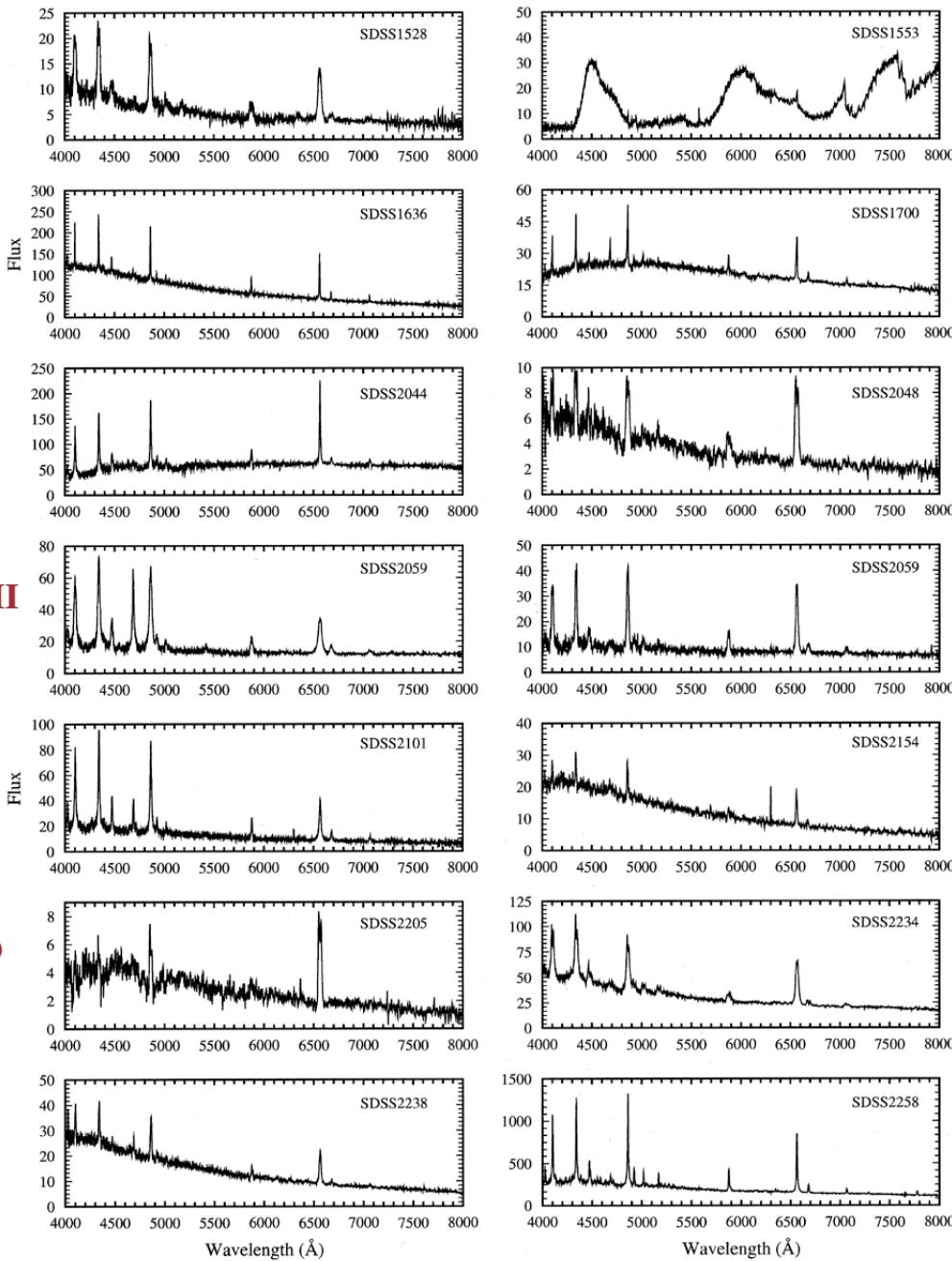


Typical CV spectra in DR1

CVs in DR1 in
Szkody et al.
2003, AJ, 126,
1499

Strong HeII
Polar

Shows WD
ZZ Cet



Cyclotron humps

Polar

Strong continuum

Strong lines

Possibilities with SkyServer:

- have fun with scrolling sky
- find mags of star + field objects
- find what field stars are [spectra]
- make a finding chart
- compare psf mags, fiber mags and DSS, GSC to determine variability

Available Data:

- DR7: 8420 sq deg imaging, 230 million objects; 1656 spectral plates, 640 spectra on each plate
- Stripe 82: 2.5 deg on CE from 22h24m to 4h08m RA; imaged Sept-Nov in 2005-2007, some back to 2002, 5-60 measurements with median of 10 observations for each object

GALEX
NUV
(1750-2800A)

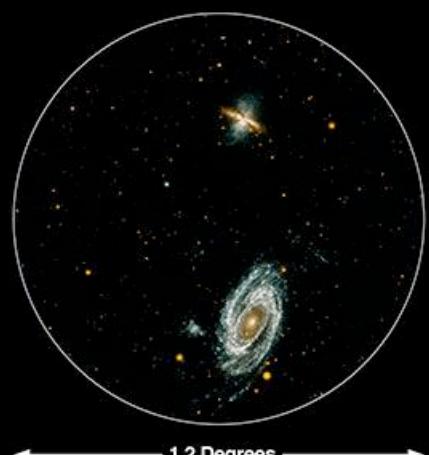
**19.7in
telescope with
1.2 deg diam
FOV**

EF Eri

GALEX Field of View



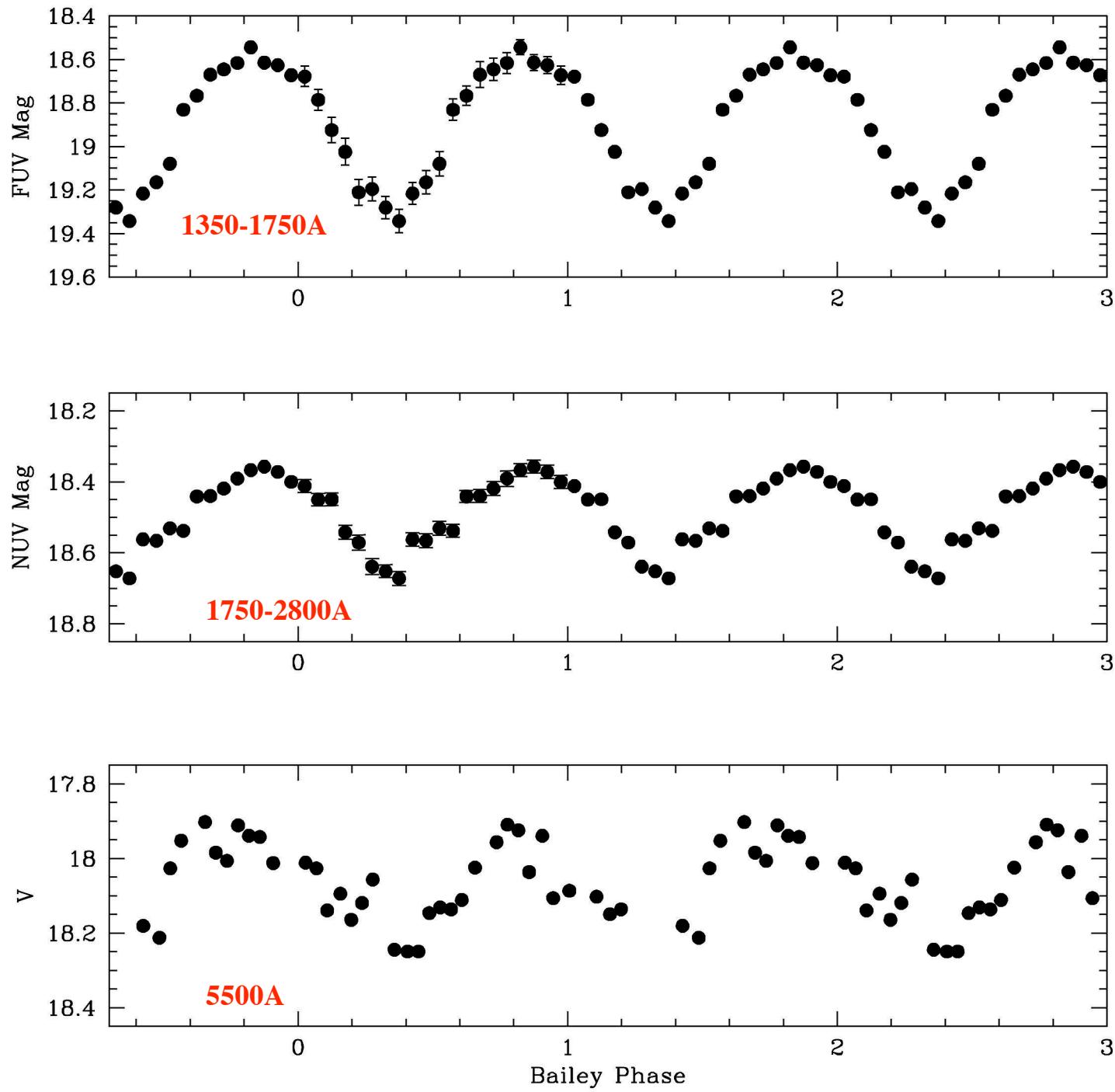
**Full Moon
(relative area)**



EF Eri

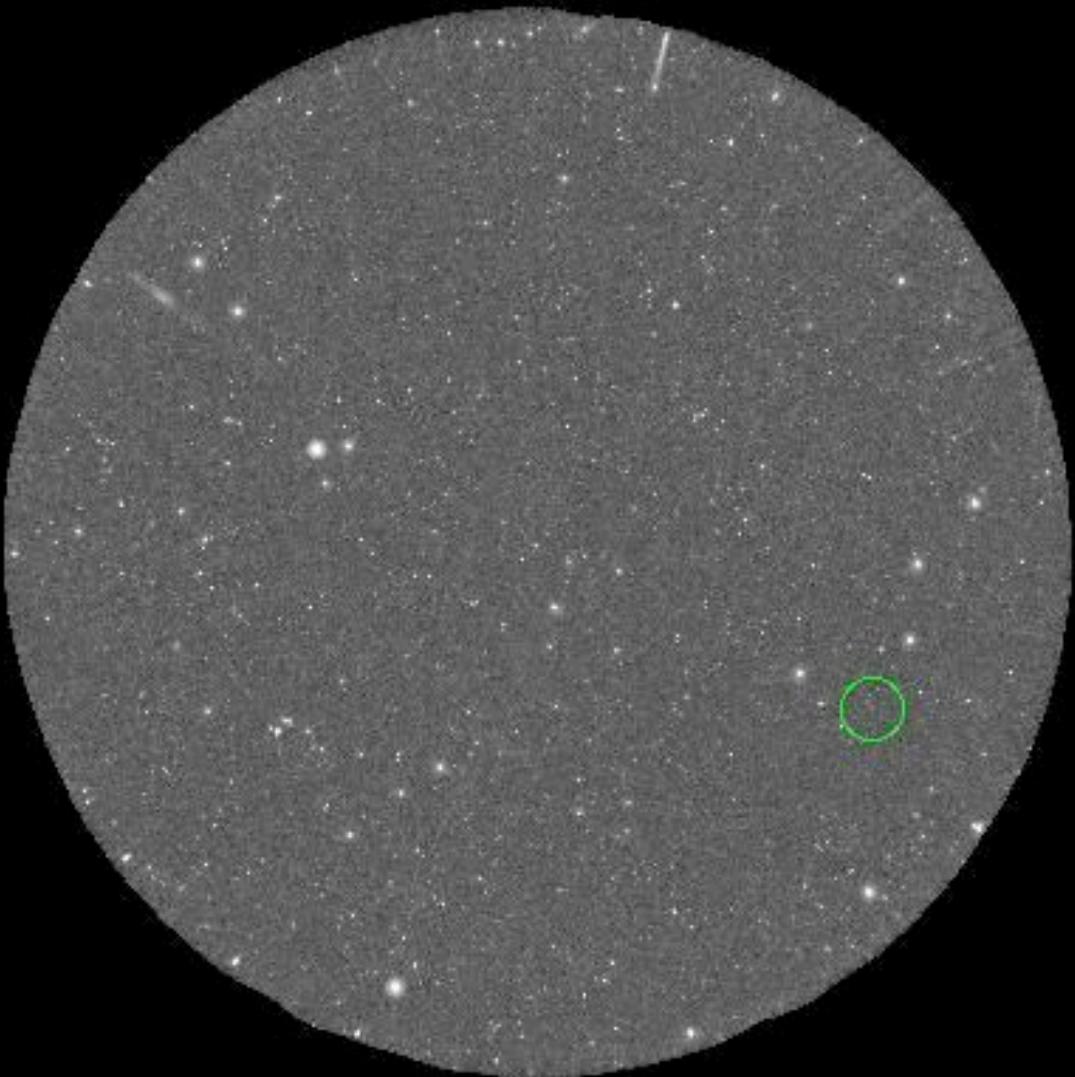
GALEX

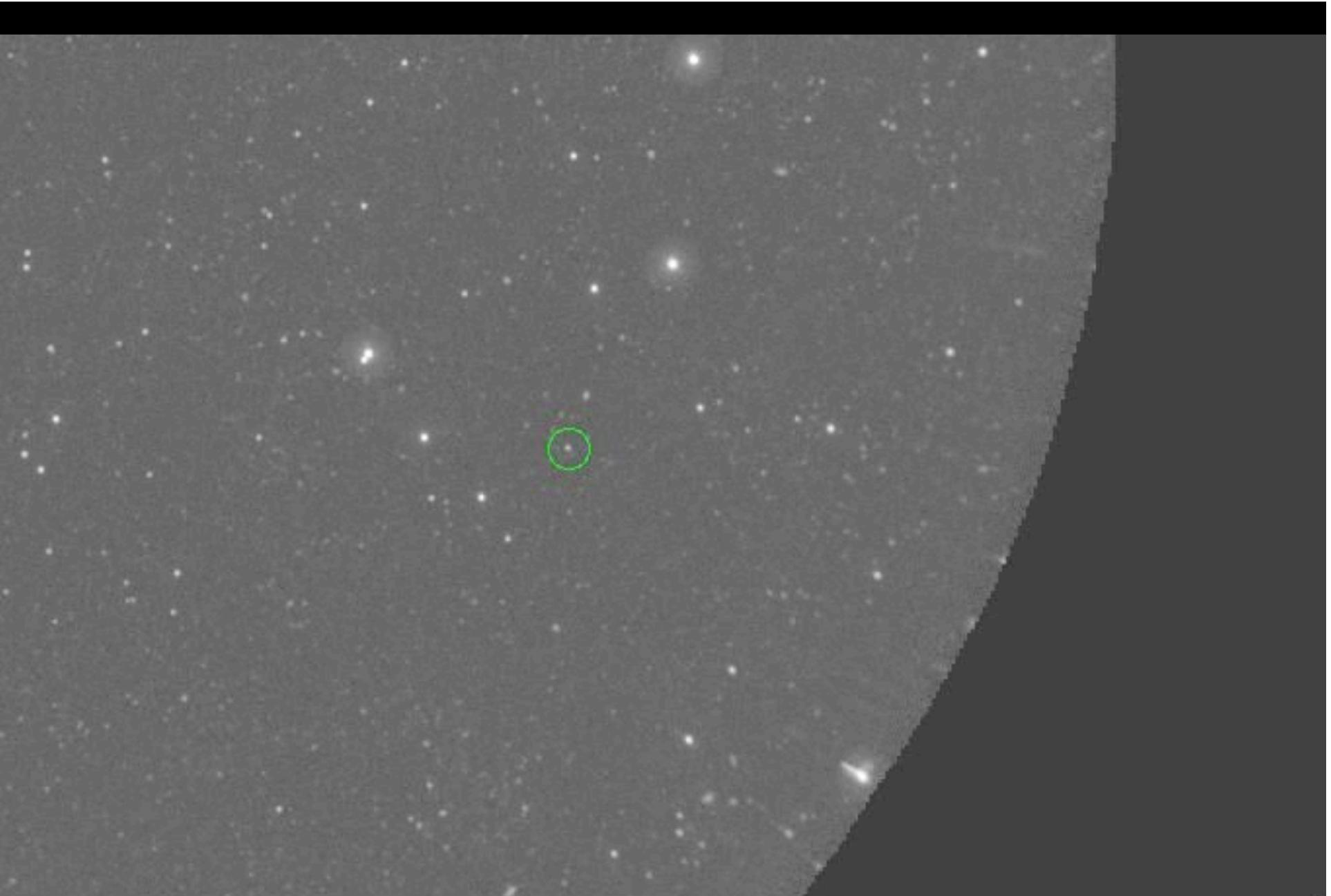
Szkody,
Harrison,
Plotkin,
Howell,
Seibert,
Bianchi, Ap,
646, L147, 2006

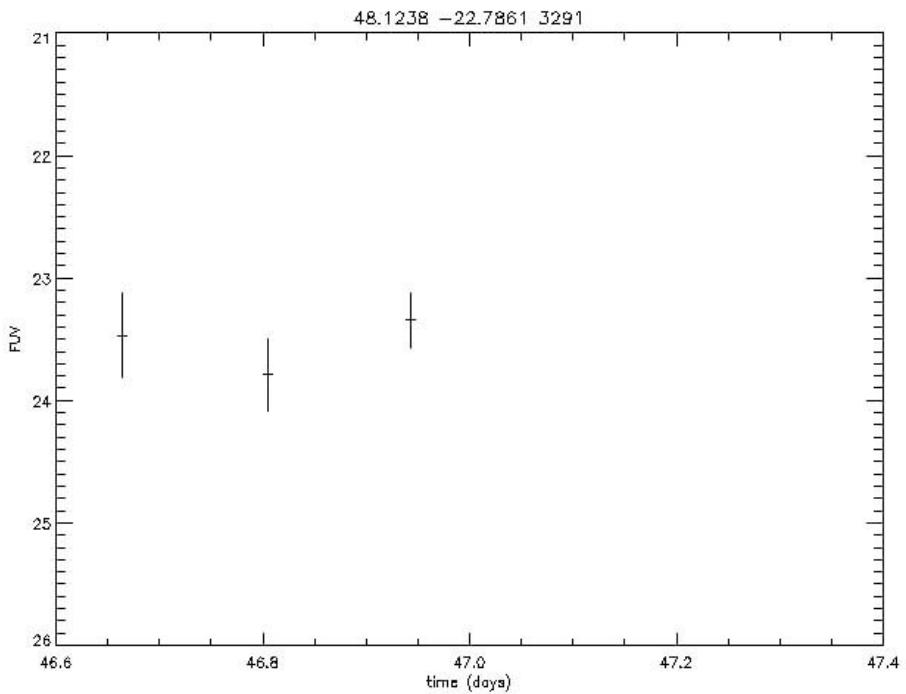
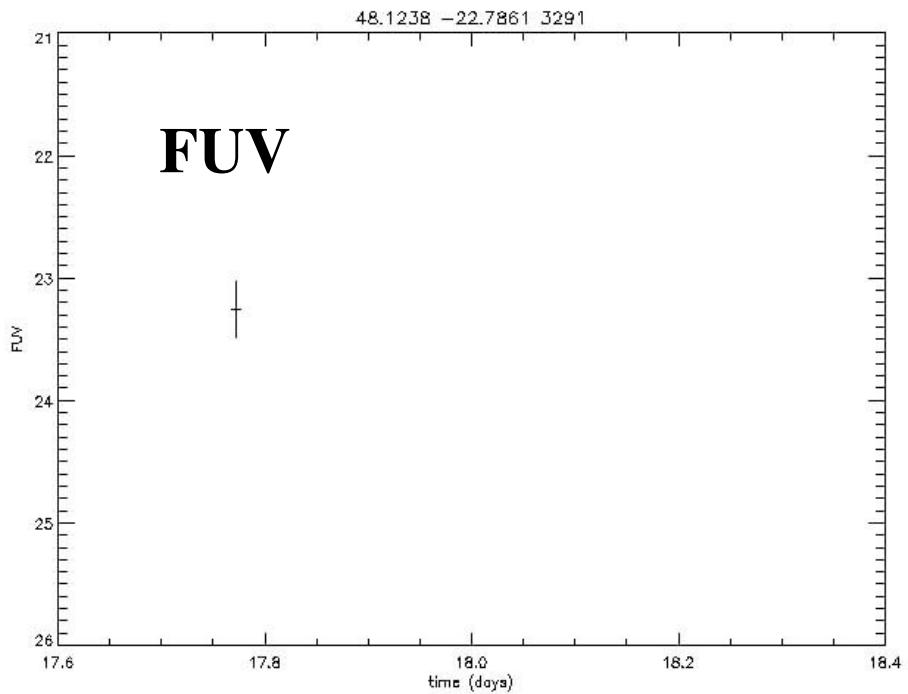
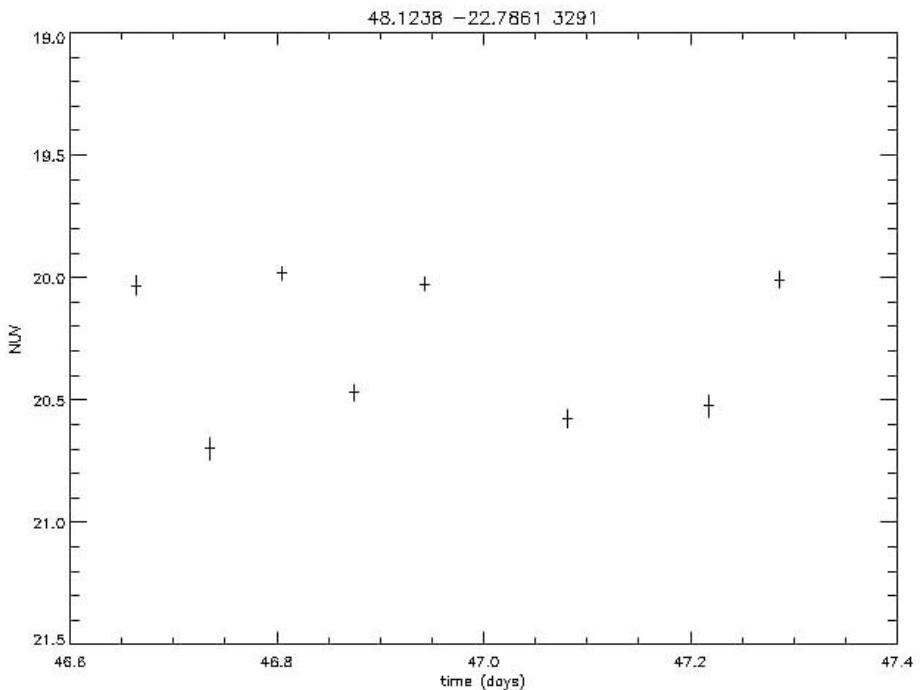
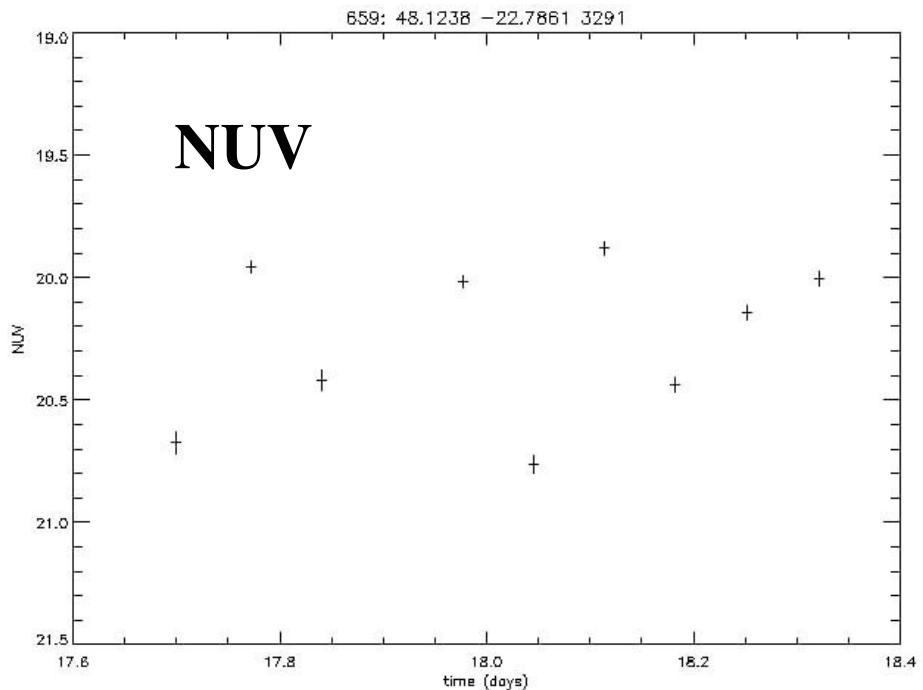


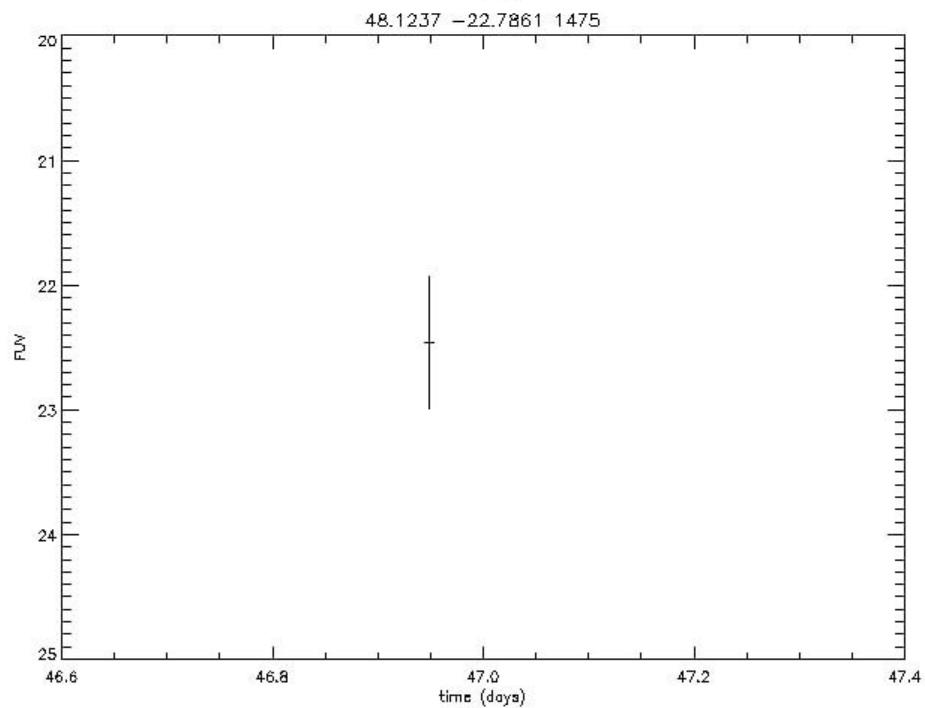
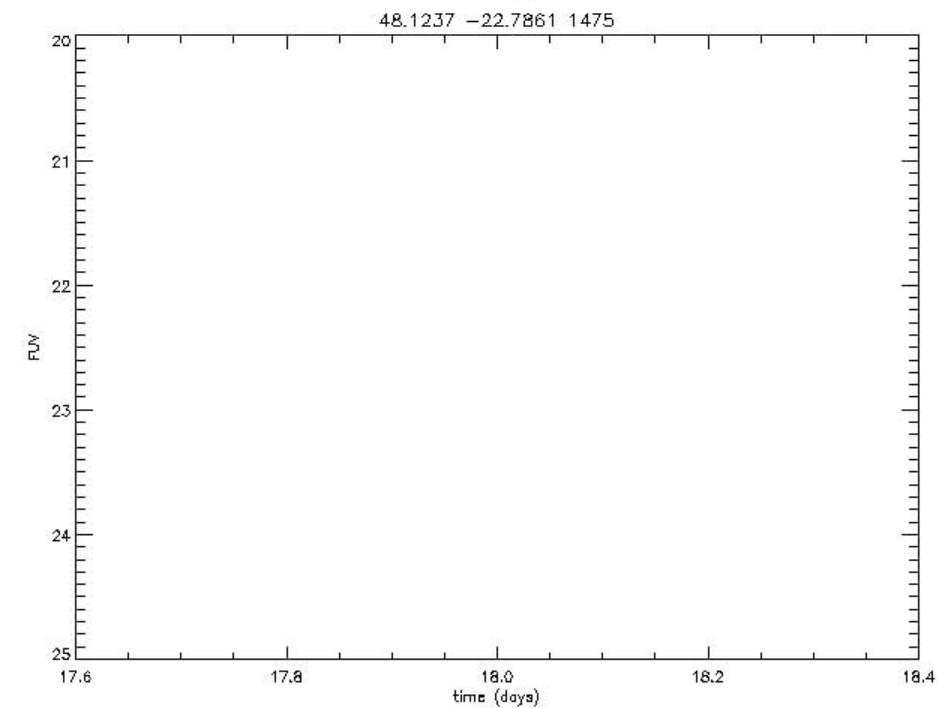
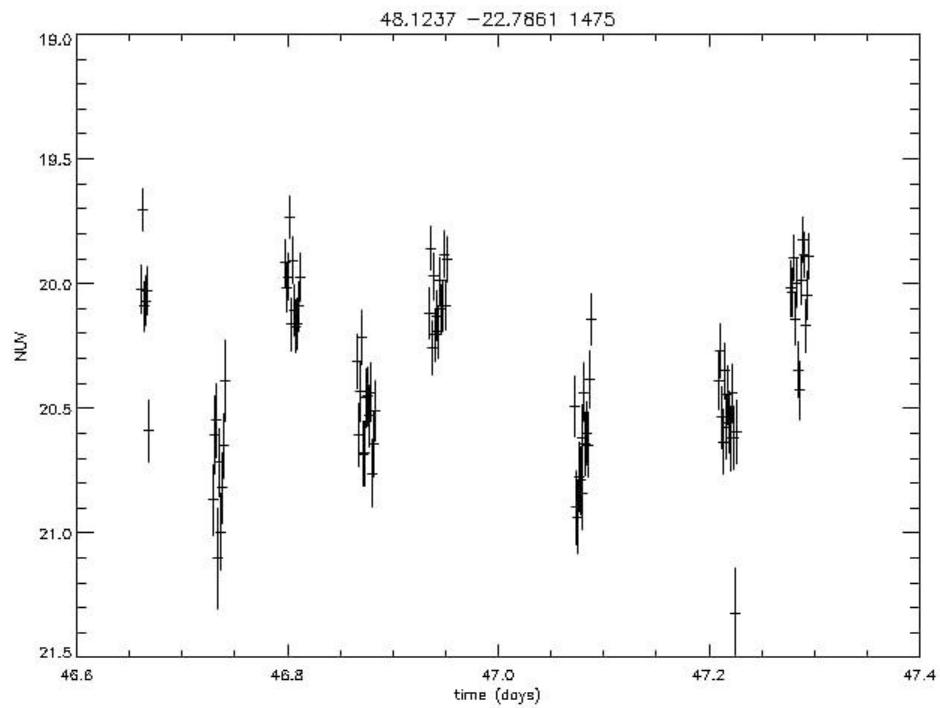
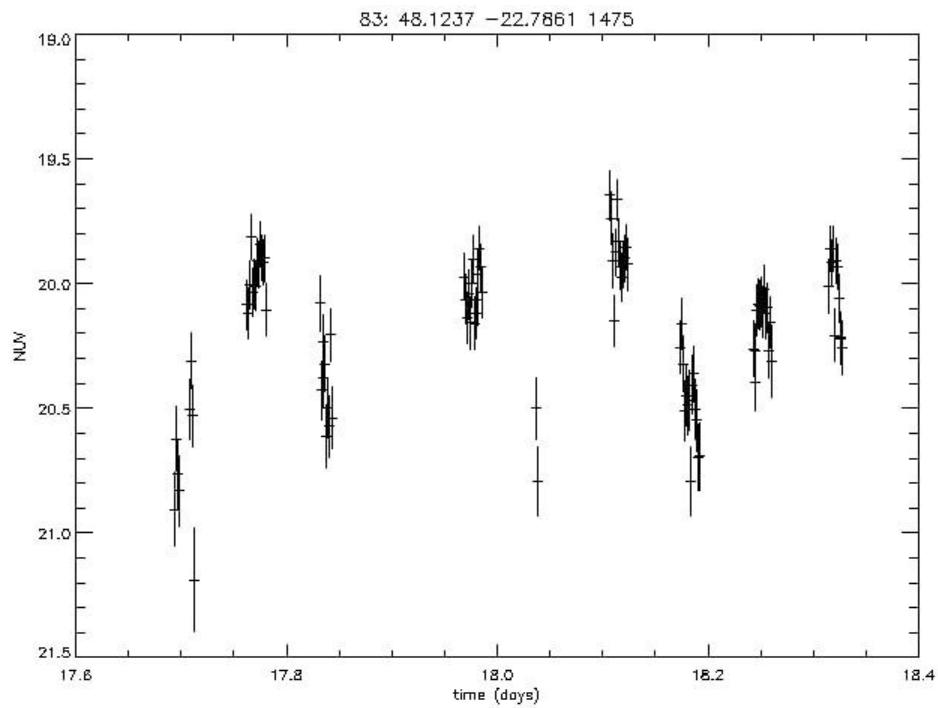
Possibilities with GALEX

- Find variables in wide field repeat obs
- identify their type
- Find UV brightness of your objects

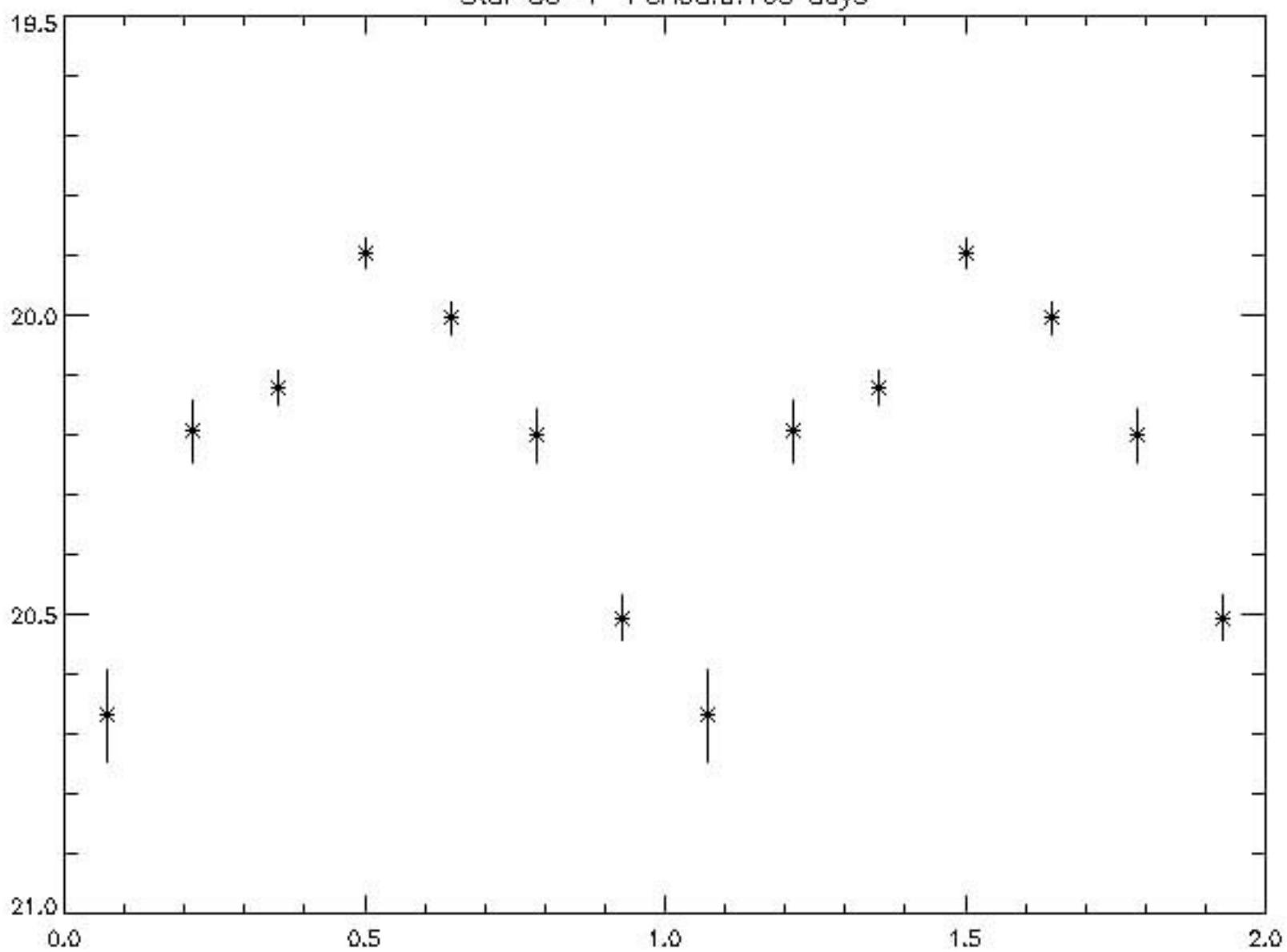








Star 83-1 Period:0.169 days



SDSS SkyServer things to look at:

- Tools (**Scrolling sky**)
- Visual Tools (**Finding chart, Navigate, Explore**)
- Help (**Cooking with Sloan - Stars, SQL Tutorial**)