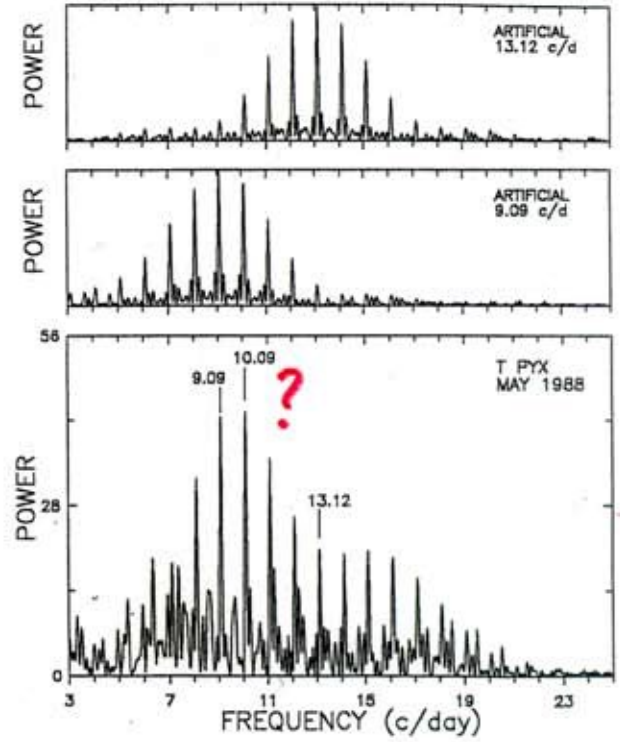
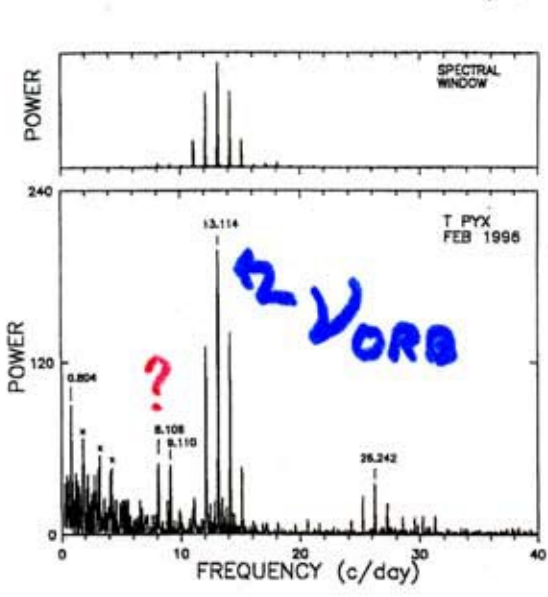
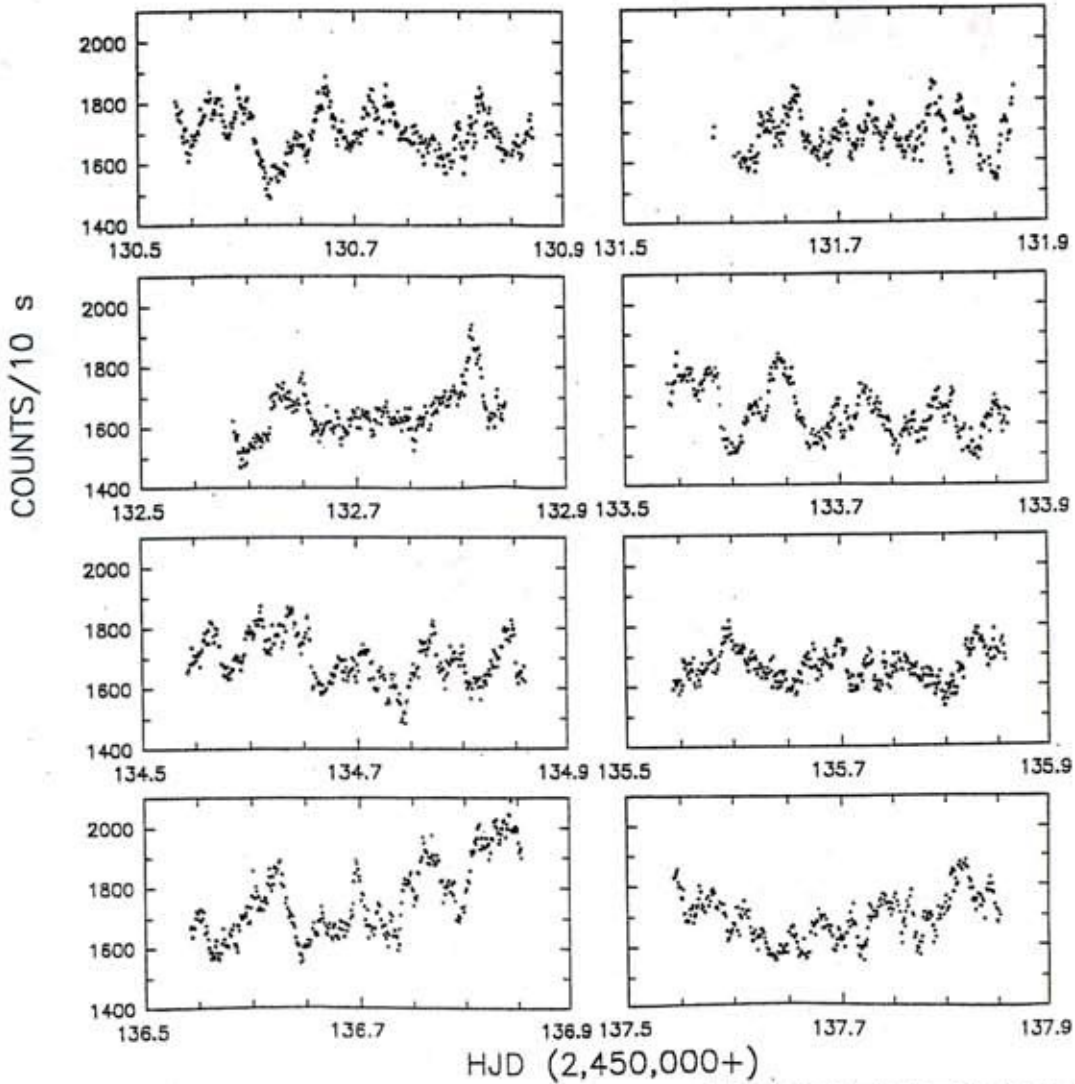
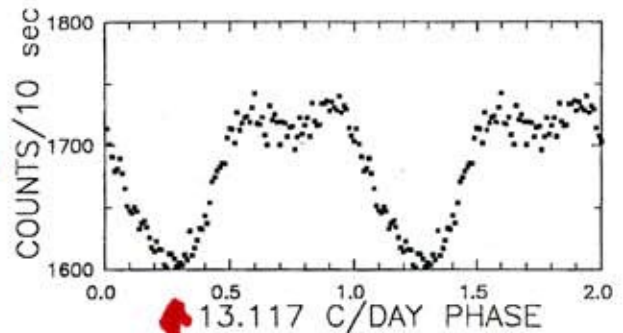


QUIESCENT T PYX - NIGHTLY

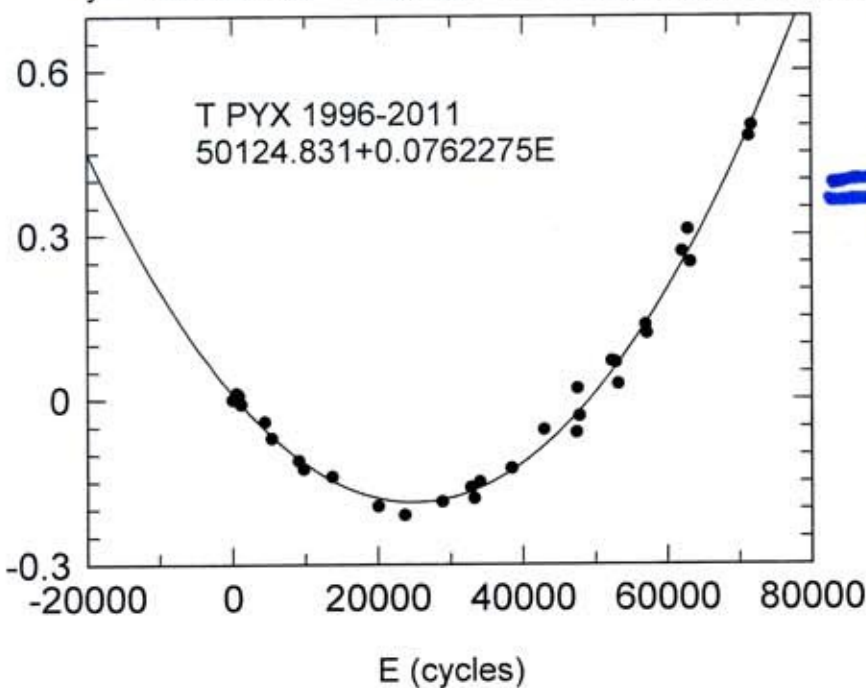


ORBITAL LIGHT CURVE →



CBA = SSTT

$$y = +3.17E-10x^2 - 1.58E-5x^1 + 0.00973, \text{ max dev: } 0.04$$



$$\Rightarrow P/\dot{P} = 3.1 \times 10^5 \text{ yrs}$$

CONSERVATIVE MASS TRANSFER: $\dot{M} = \frac{M_1 M_2}{3(M_1 - M_2) P/\dot{P}} \approx 1 \times 10^{-7} M_{\odot}/\text{yr}$

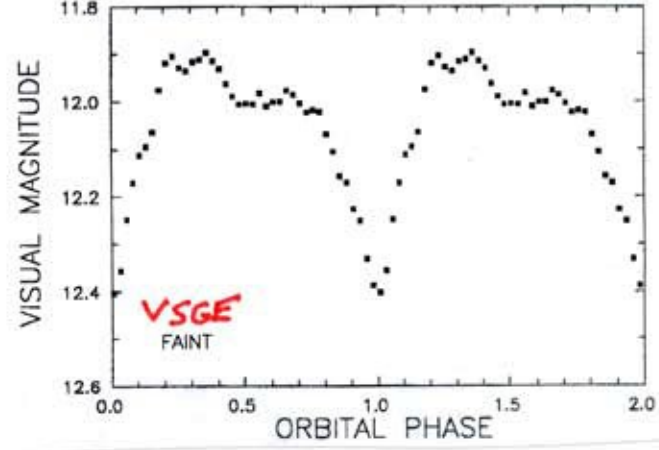
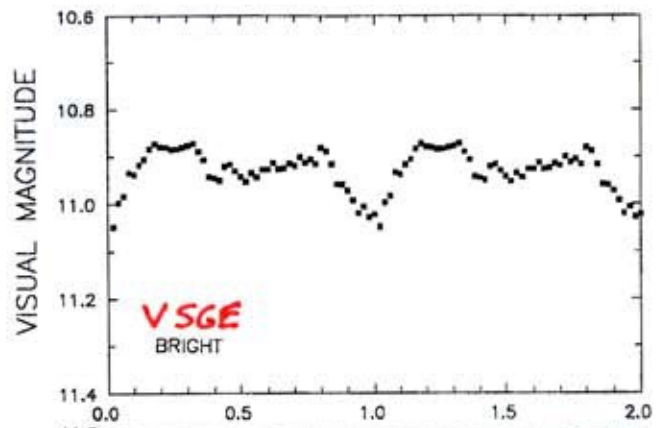
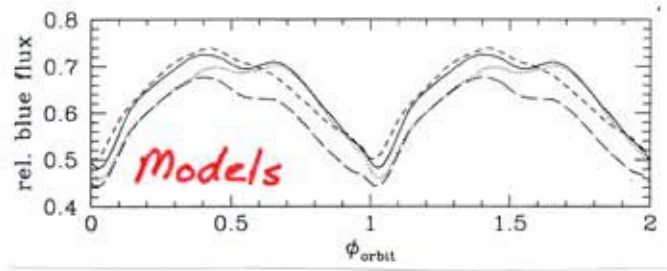
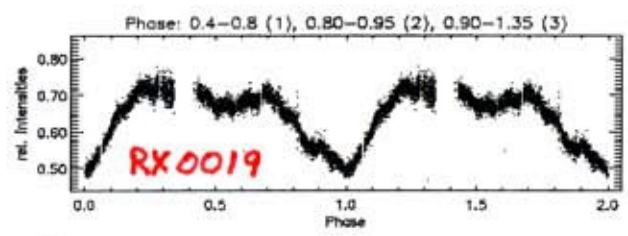
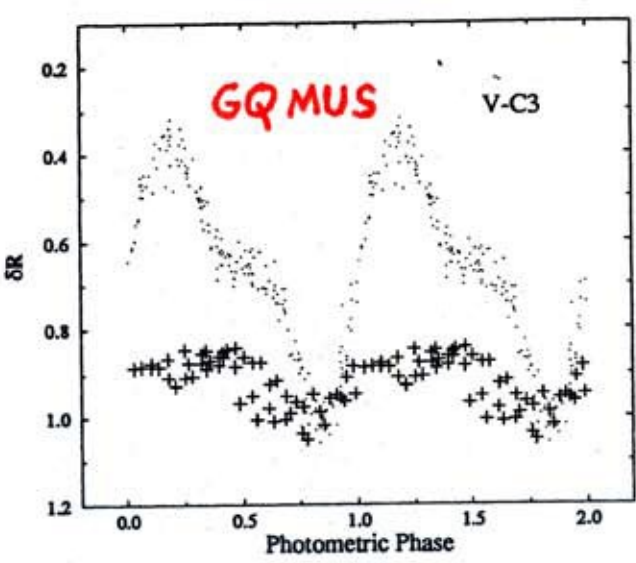
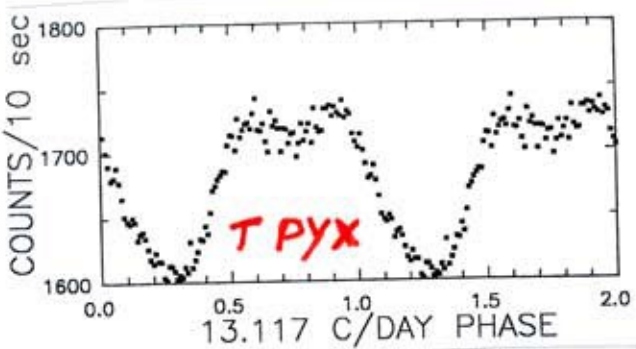
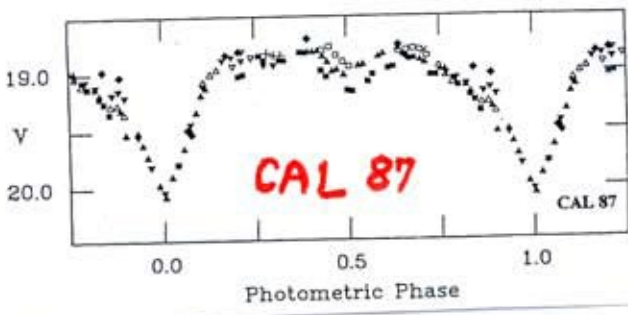
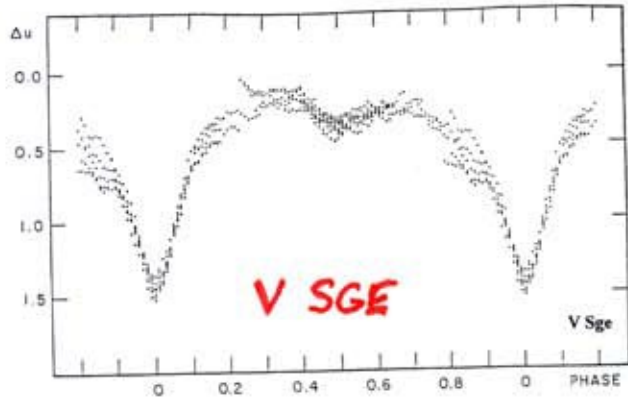
CF SCORECARD:

$$15.3 \xrightarrow{V} 15.9 \xrightarrow{A_V} 14.8 \xrightarrow{d} 1.4 \xrightarrow{BC} -1.3 \Rightarrow L_{bol} = 1.1 \times 10^{36} \frac{\text{erg}}{\text{s}}$$

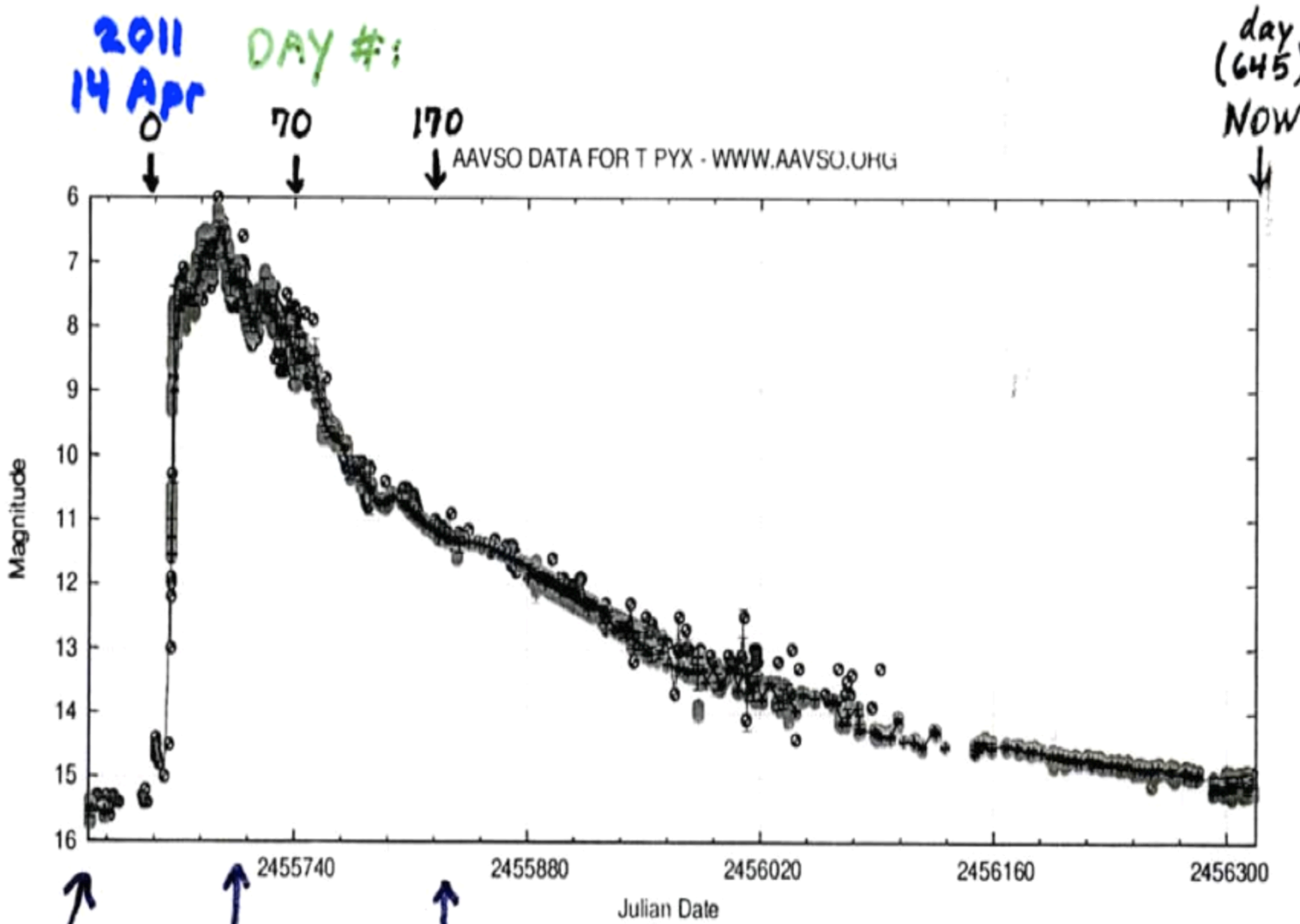
$$\Rightarrow \dot{M} = \frac{2RL}{GM} \approx \frac{1.3 \times 10^{-7} M_{\odot}/\text{yr}}{m_1^2}$$



SSS LIGHT CURVES



T PYX IN ERUPTION (2011-13)



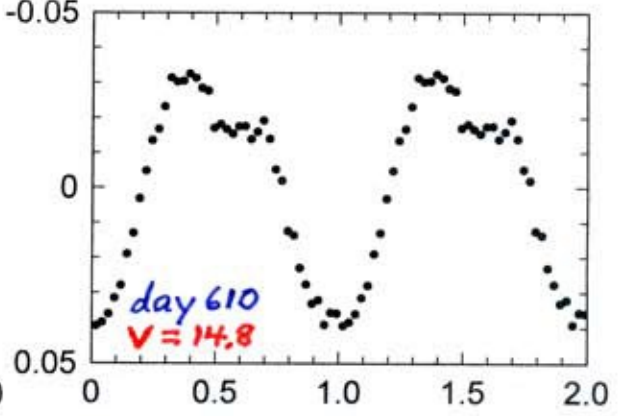
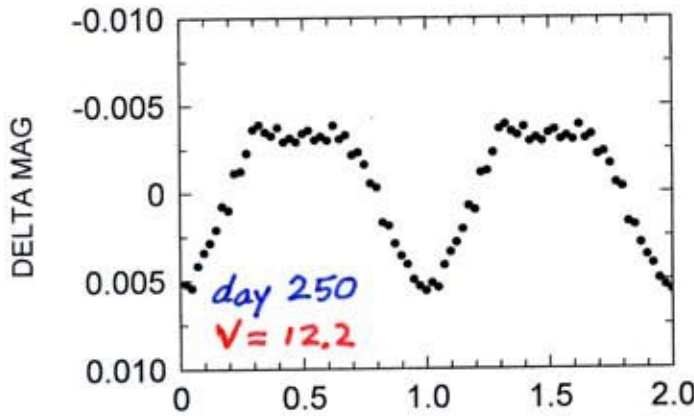
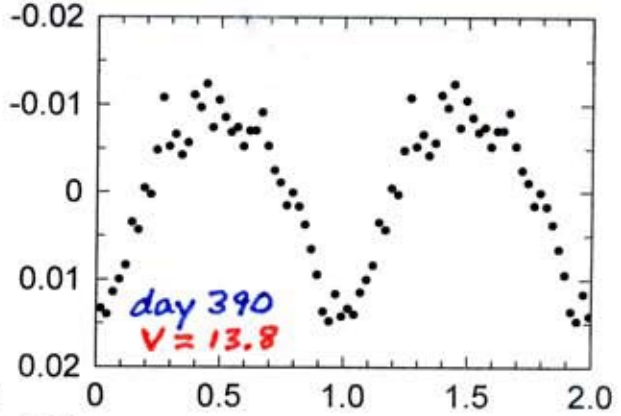
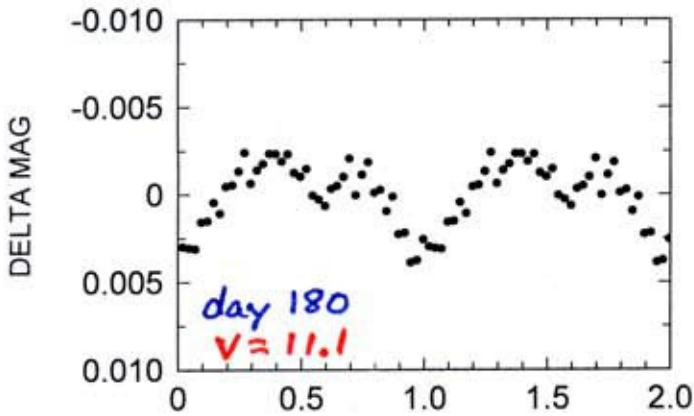
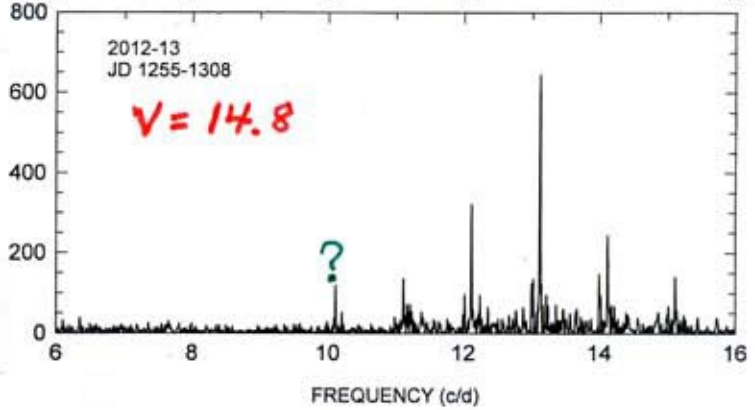
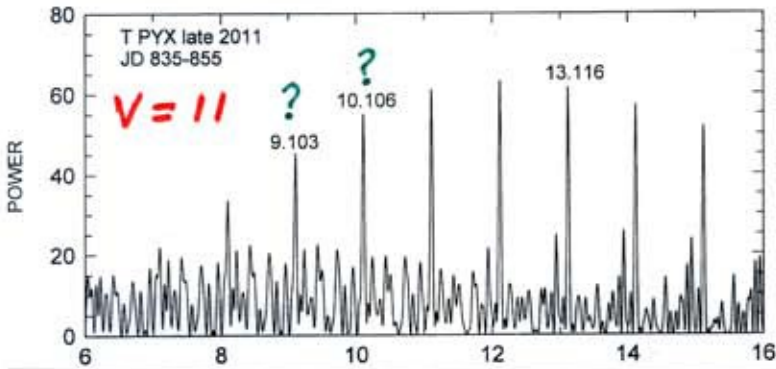
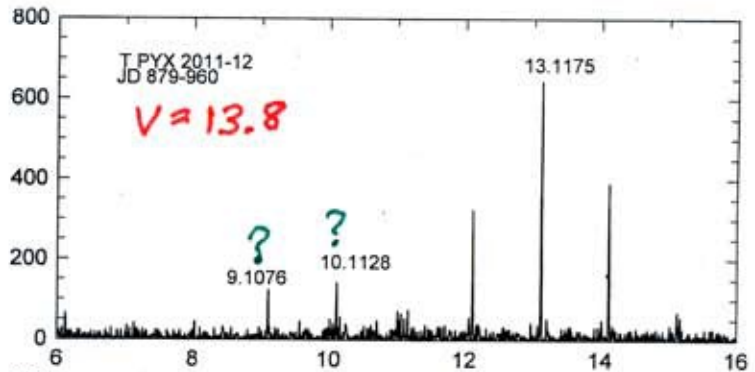
$a \approx .03 \text{ AU}$

$R \sim 5 \text{ AU}$
 $T \sim 10^4 \text{ K}$

$T \sim 4 \times 10^5 \text{ K}$

POWER SPECTRA AND LIGHT CURVES IN DECLINE

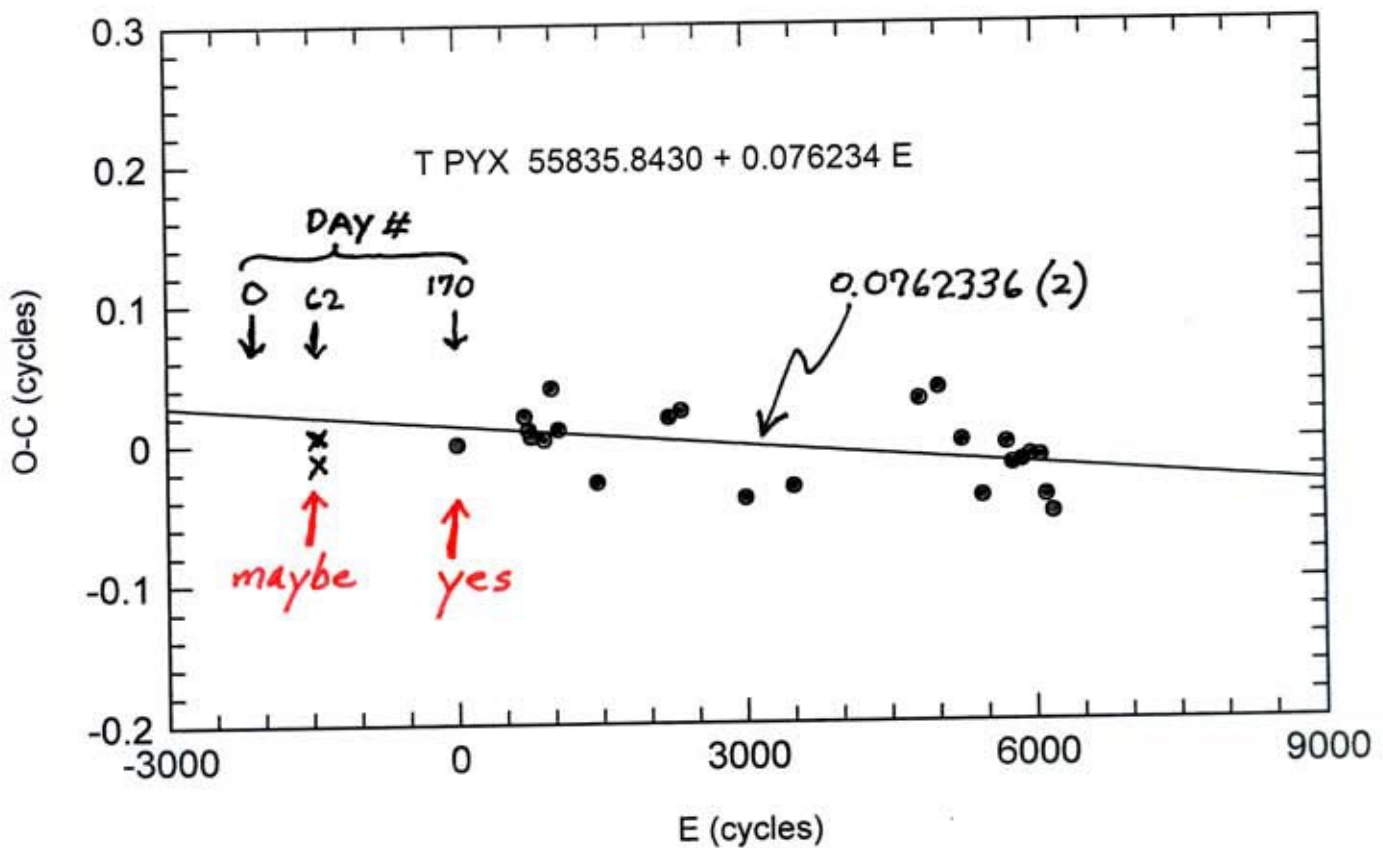
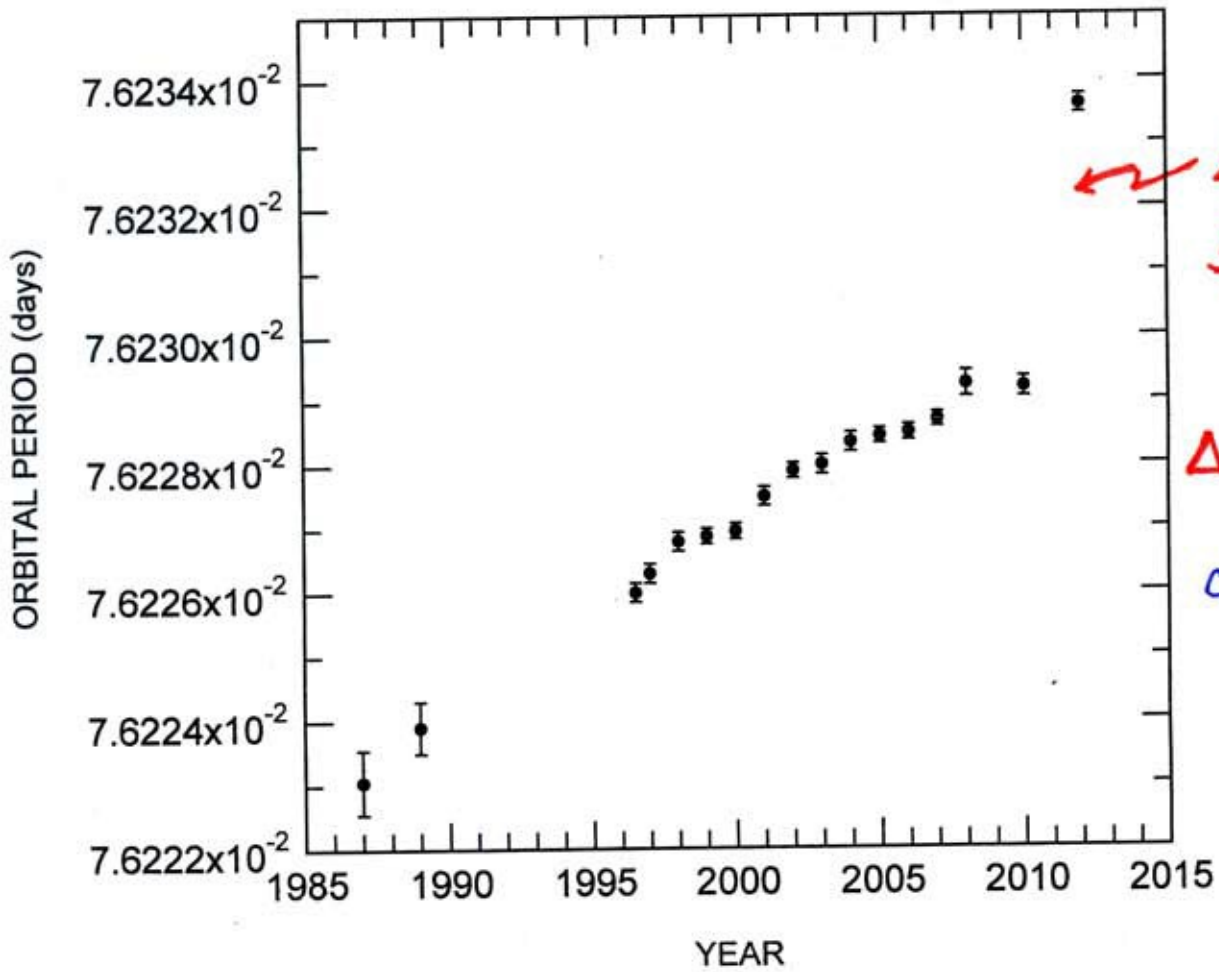
ALIASES!

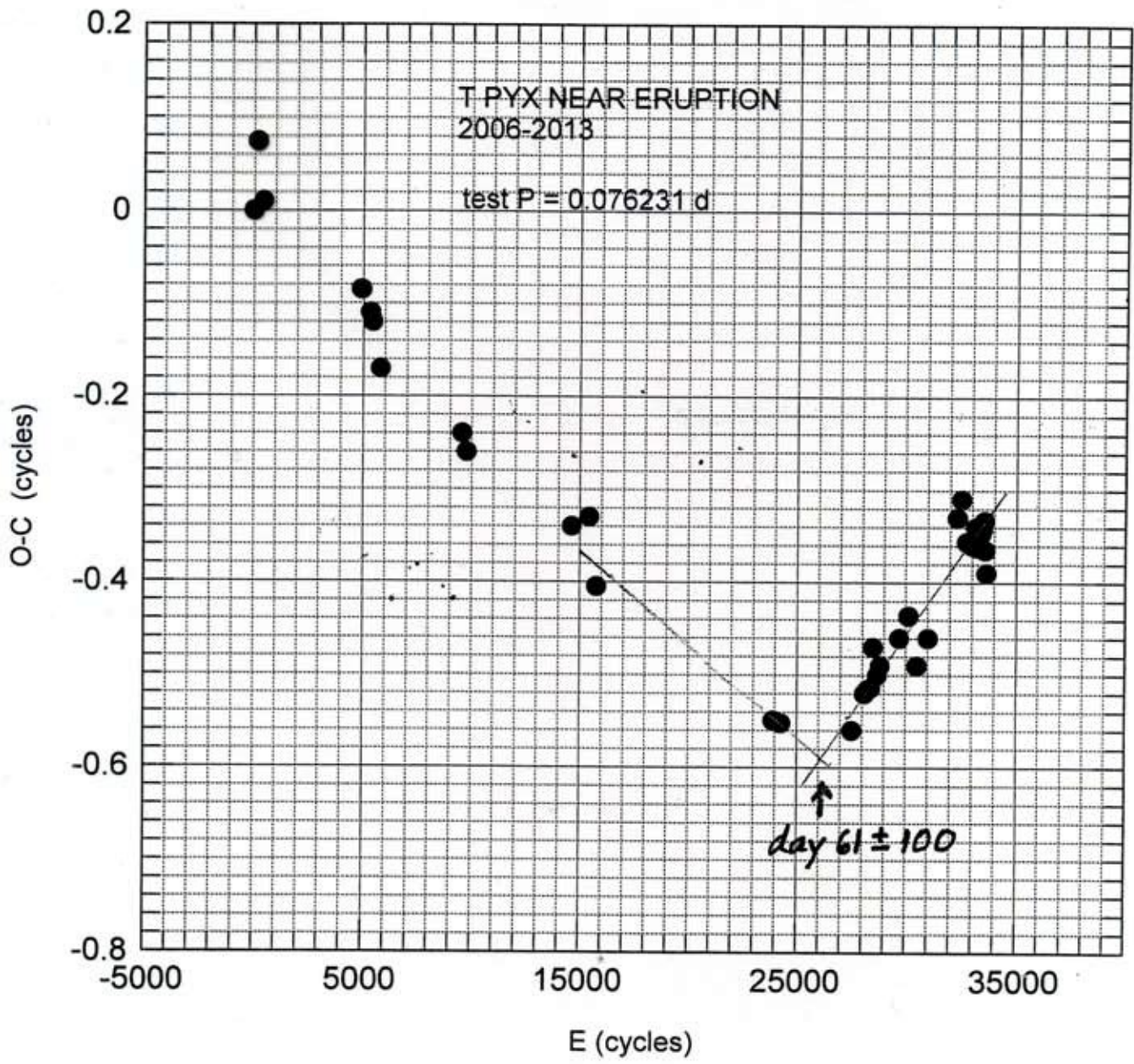


PHASE

PHASE

P_{ORB} VERSUS TIME...





⇒ PHASE AGREEMENT!

$\rho = .5 \triangleleft$



$\triangleleft \varphi = 0$