Physics 21 - – Strings and Webs

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Introduction

We attempt to obtain time-dependent intensity data for the variable system Her X-1 from the Catalina (CTRS) Surveys. Two methods were used, which are described under the two separate sections below. The first involves scarping the webpage in *.html* format and using string manipulations to generate two lists and plot them. The second involves downloading the data in *VOTable* format, and attempting to obtain the same plot as under (taken from the CRTS website). Source code is available in the file *lab1.py*, while the VOTable *.xml* file is attached as Appendix at the end of this document.
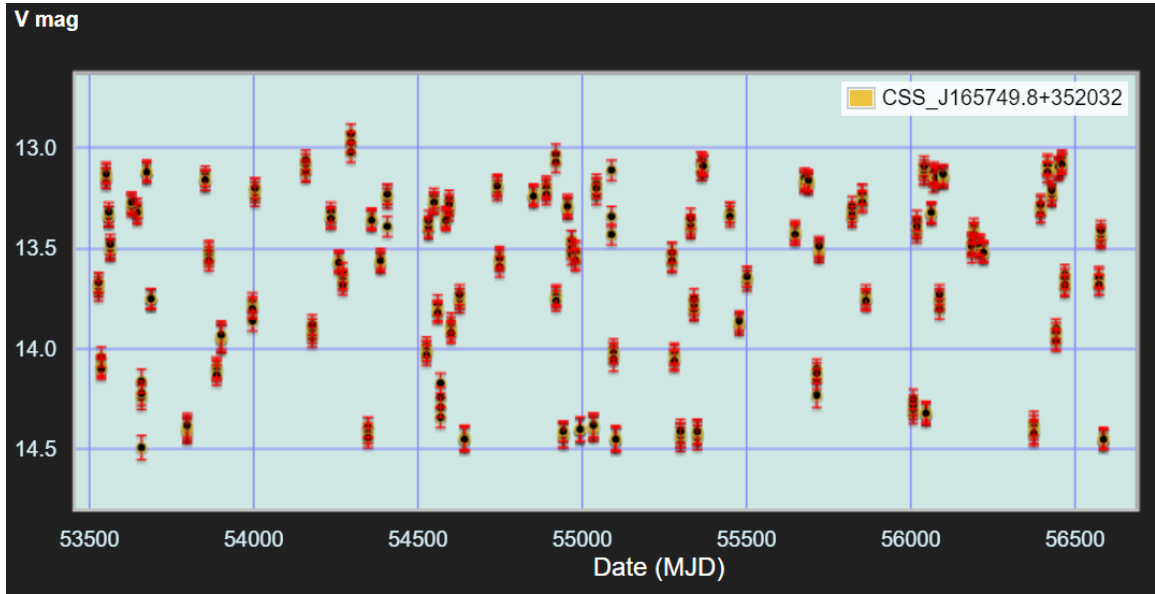

Figure 1: Original magnitude versus time (in mean Julian days) plot.

Part 1: HTML format

HTML data for the system Her X-1, from the photcal survey in short form, was obtained from *http://nesssi.cacr.caltech.edu/cgi-bin/getcssconedbid_release2.cgi*. The file was decoded to text, and string manipulations were used to get the below plot.
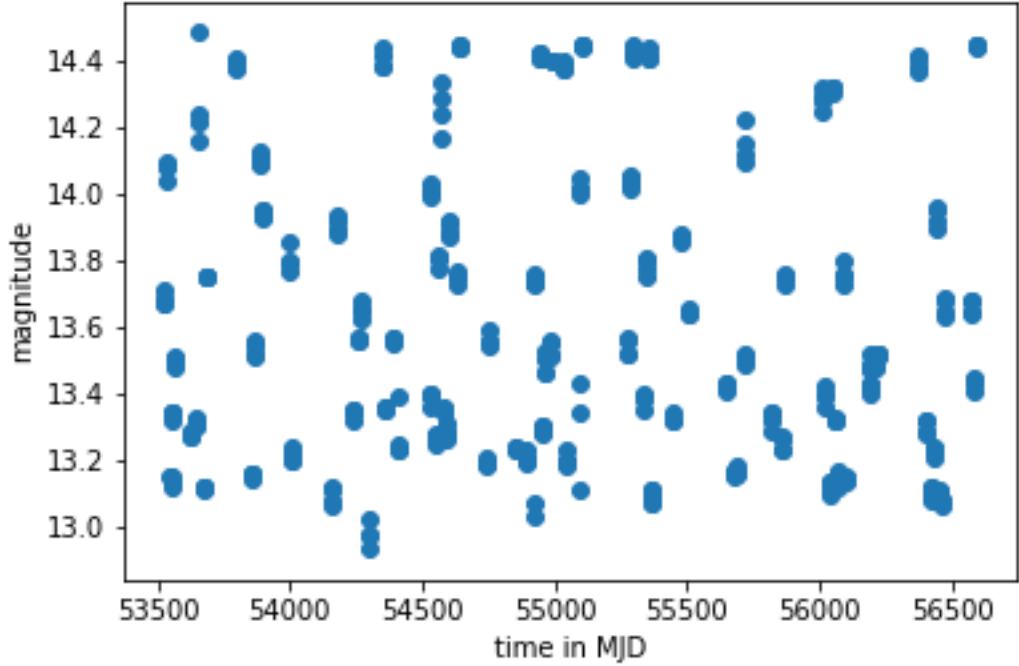

Figure 2: Magnitude versus Time (in mean Julian days) plot, obtained using the *getValues()* function.

Part 2: VOTable format

VOTable data for the system Her X-1, from the photcal survey in short form, was obtained from *http://nesssi.cacr.caltech.edu/DataR* The file was saved as .xml, and array manipulations were used to get the below plot.
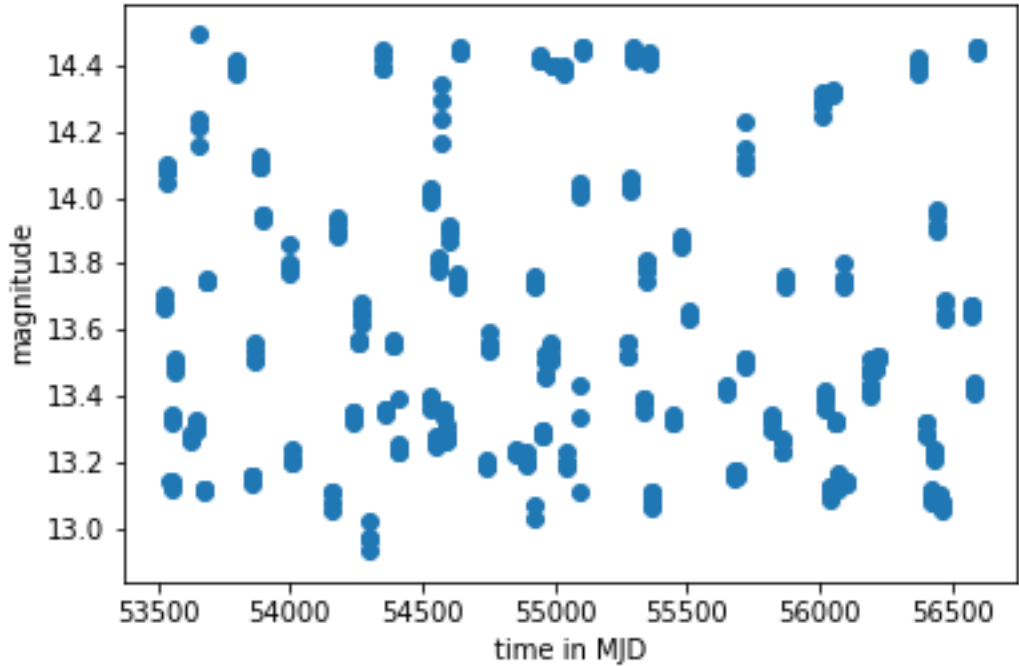

Figure 3: Magnitude versus Time (in mean Julian days) plot, obtained using the *getVOTvalues()* function.

Result

The two graphs obtained from the scarped data are similar to the plot given on the CRTS site.

Appendix

Listing 1: VOTable file (in .xml format) obtained and used.

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