



ECLIPSING BINARY CCD PHOTOMETRY

X. Miret, T. Tobal. *Garraf Astronomical Observatory*

www.oagarraf.net : contact: xmi1963@gmail.com

1. Introduction

The focus of this study is to obtain the main data from the light curves of eclipsing binary stars. These data are fundamental in order to detect orbit period changes as well as to understand the intrinsic structure and behaviour of stars.

One of the main parameters in this analysis is the time of minima. Our goal is to obtain the time of minima as accurate as possible. Other parts of the light curves are analyzed as well in order to refine periods and detect anomalies.

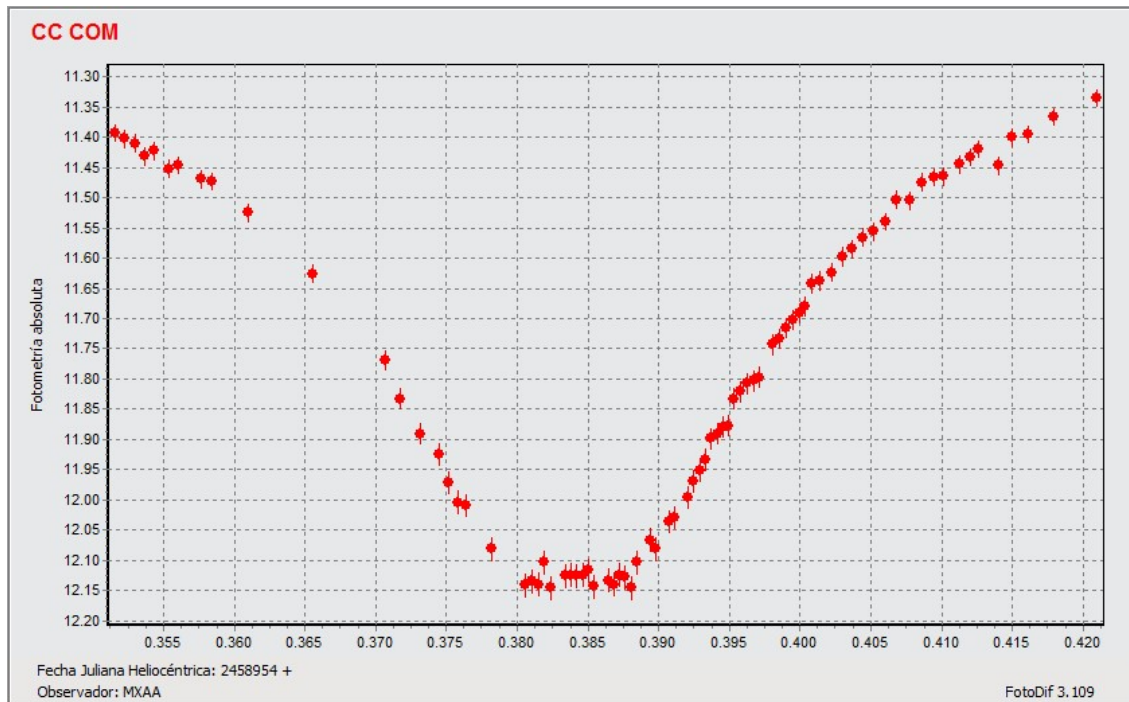
2. Observatory

This project is carried out with the following equipment:

- Meade 10" ACS Telescope. SC 250 mm F/10 & F/6,3 (with focal reducer) on a fix column and sliding roof.
- CCD SBIG ST9 XE.
- Filters: Johnson & Coussins B, V, Rc, Ic (Baader Instruments).

3. Location

- OAG/XMI Station. Sant Pere de Ribes. Barcelona, Catalonia (Spain)
Long. 01° 46' 35.9" Lat 41° 15' 51.9" N.



Minima observations and field image for eclipsing binary CC Com by X.Miret

Acknowledgements

To Albert Sánchez (Gualba Observatory) for his advice on observation techniques and methods, Gerry Samolyk and the AAVSO Eclipsing Binary Committee for their support, Còsmik Astronomia SL for the efficient supply of equipment and J.A.Soldevilla (Canyellas Observatory) for his telescope installation designs.

(c) OAG / Barcelona, April 2020- Readme_v3