## Eclipsing Binary On-Line Atlas (EBOLA)



The Bradstreet Observatory at Eastern University D.H. Bradstreet, D.P. Steelman, S.J. Sanders (Eastern University) J.R. Hargis (San Diego State University)

In conjunction with the upcoming release of **Binary Maker 3.0, an extensive on-line database of eclipsing binaries is being made available.** The purposes of the atlas are:

1) Allow quick and easy access to information on published eclipsing binaries.

2) Amass a consistent database of light and radial velocity curve solutions to aid in solving new systems.

3) Provide invaluable querying capabilities on all parameters of the systems so that informative research can be quickly accomplished on a multitude of published results.

4) Aid observers in establishing new observing programs based upon stars needing new light and/or radial velocity curves.

5) Encourage workers to submit their published results so that others may have easy access to their work.

6) Provide a vast but easily accessible storehouse of information on eclipsing binaries to accelerate the process of understanding analysis techniques and current work in the field.

The database will eventually consist of all published eclipsing binaries with light curve solutions. The following information and data will be supplied whenever available for each binary: original light curves in all bandpasses, original radial velocity observations, light curve parameters, RA and Dec, V-magnitudes, spectral types, color indices, periods, binary type, 3D representation of the system near quadrature, plots of the original light curves and synthetic models, plots of the radial velocity observations with theoretical models, and *Binary Maker 3.0* data files (parameter, light curve, radial velocity). The pertinent references for each star are also given with hyperlinks directly to the original papers via the NASA searching options so that workers can search binaries with specific characteristics.

The website has nearly 200 systems already uploaded. The URL for the site is *http://ebola.eastern.edu/* 

