

BINOCULAR OBSERVATIONS OF THREE CEPHEIDS

by

R. STEPHEN THOMPSON
 Pine Crest School
 1501 N.E. 62nd Street
 Fort Lauderdale, FL 33334

Abstract

The light curves of RV Sco, BF Oph, and AP Sgr are presented with visual comparison sequences. Recent values of O-C and M-m for the stars are included.

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During 1974 and 1975 the author made visual observations of three Cepheid variables. The stars were chosen by scanning the 1969 General Catalog of Variable Stars and picking stars within the range of binoculars. After the fields were plotted and step values assigned to likely comparison stars, observations were collected at random.

When all observations had been made, the data were ordered in phase using the elements from the GCVS Second Supplement. A running average of phase and step brightness was performed. Nine points were averaged at a time with five points exchanged.

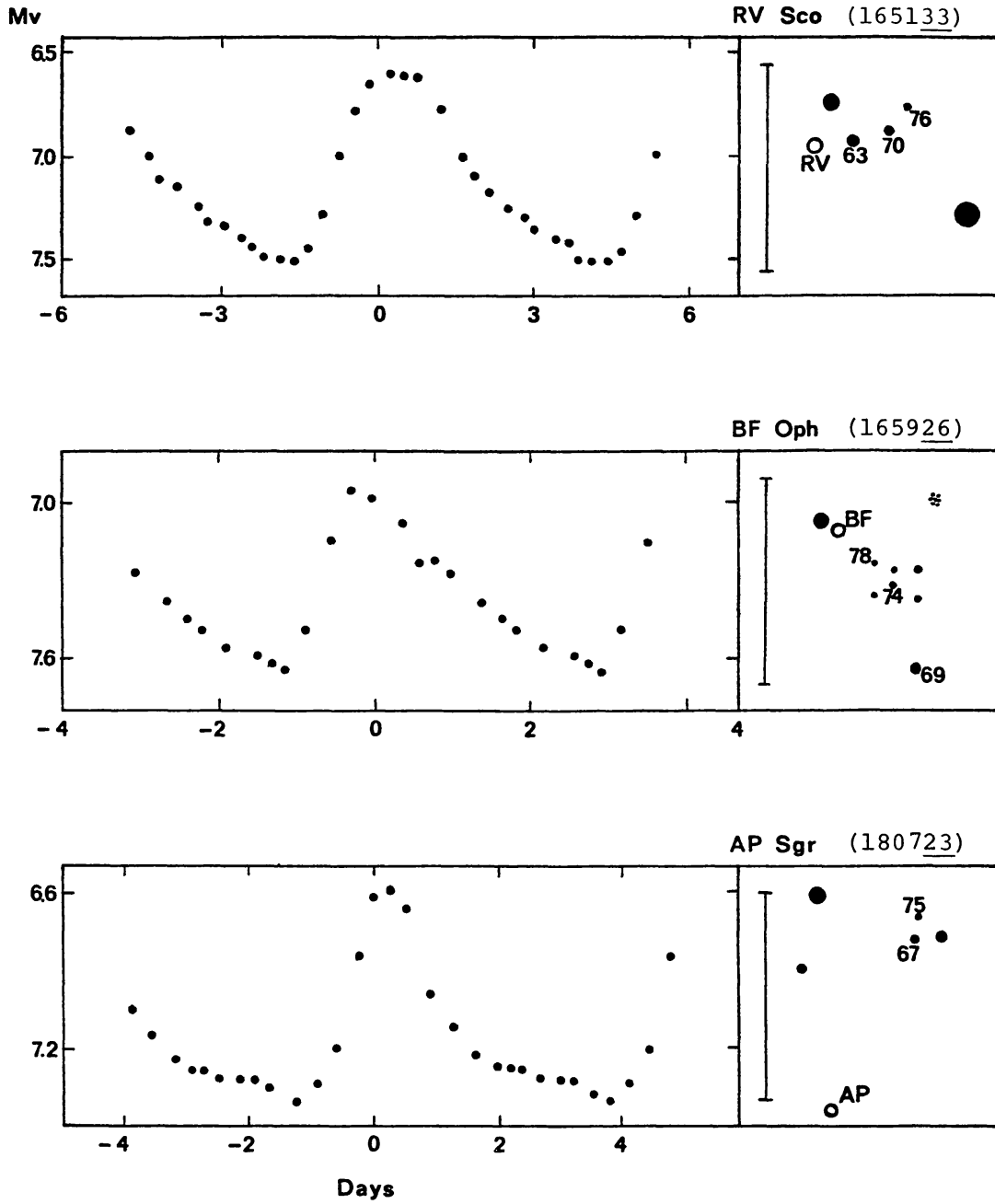
The magnitudes for the comparison stars were assigned in the manner reported by Small (1974). Pogson's method was used to determine the O-C and M-m values.

TABLE

| Variable | Epoch (JD) | Period (days) | Mean Date | No. Obs. | O-C (days) | M-m (P) |
|----------|---------------|------------------|--------------|-------------|---------------|------------|
| RV Sco | 2436046.87 | 6.06133 | 2442394 | 101 | + .30 | .33 |
| BF Oph | 2436055.67 | 4.06784 | 2442459 | 76 | - .22 | .23 |
| AP Sgr | 2440390.31 | 5.05793 | 2442441 | 83 | + .15 | .29 |

REFERENCES

- Kukarkin, B. V. et al. 1969, General Catalog of Variable Stars, Moscow.
 _____ 1974, General Catalog of Variable Stars,
Second Supplement, Moscow.
 Small, B. F. 1974, JAAVSO, 1, 15.



Light curves and sequences for three Cepheid variables.
Scale marks indicate 2°.