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BVRI OBSERVATIONS OF TWO SUSPECTED VARIABLES

Observations on the Johnson BVRI system are reported for two suspected variables. The Purdue High Speed Photometer, described by Barnes *et al.* (1978), was used in making the observations. The instrumental system and reduction procedures are discussed by Moffett and Barnes (1979).

Most of the observations were obtained on the 91-cm and 76-cm reflectors at McDonald Observatory and a few were also made on the 61-cm reflector at the Table Mountain Observatory and the No. 2, 91-cm telescope at Kitt Peak National Observatory.

The results for the two suspected variables: BS2018 and BS8726 are given in Table I. The estimated uncertainties for a single observation are: $V = \pm 0.014$, $(B-V) = \pm 0.009$, $(V-R) = \pm 0.009$, and $(R-I) = \pm 0.012$.

The General Catalogue of Variable Stars does not list BS2018 as a suspected variable but the results reported here clearly show variability over the 444 days covered. The GCVS lists BS8726 as suspected variable #102221 but over the 141 days covered by our observations, no strong variability was detected.

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References :

- Barnes, T.G., Evans, D.S., and Moffett, T.J., 1978, M.N.R.A.S., 183, 285.
Moffett, T.J., and Barnes, T.G., 1979, P.A.S.P., (submitted).

TABLE I
SUSPECTED VARIABLES

BS2018

| HJD | V | (B-V) | (V-R) | (R-I) |
|-------------|-------|-------|-------|-------|
| (2440000.+) | | | | |
| 3128.79 | 6.195 | 1.675 | 1.683 | 1.387 |
| 3129.70 | 6.206 | 1.768 | 1.692 | 1.386 |
| 3130.82 | 6.202 | 1.714 | 1.585 | 1.383 |
| 3132.73 | 6.192 | 1.729 | 1.573 | 1.410 |
| 3135.87 | 6.195 | 1.727 | 1.590 | 1.372 |
| 3138.86 | 6.200 | 1.725 | 1.585 | 1.364 |
| 3144.77 | 6.243 | 1.744 | 1.596 | 1.374 |
| 3429.96 | 6.259 | 1.732 | 1.589 | 1.391 |
| 3508.82 | 6.251 | 1.724 | 1.633 | 1.325 |
| 3511.66 | 6.219 | 1.729 | 1.641 | 1.345 |
| 3516.67 | 6.248 | 1.728 | 1.638 | 1.317 |
| 3517.77 | 6.273 | 1.718 | 1.640 | 1.320 |
| 3564.59 | 6.268 | 1.768 | 1.654 | 1.275 |
| 3572.62 | 6.294 | 1.703 | 1.707 | 1.288 |

BS8726 = # 102221

| | | | | |
|---------|-------|-------|-------|-------|
| 3367.00 | 4.977 | 1.779 | 1.363 | 1.027 |
| 3371.00 | 4.966 | 1.771 | 1.368 | 1.016 |
| 3376.99 | 4.960 | 1.778 | 1.353 | 1.044 |
| 3377.88 | 4.982 | 1.779 | 1.382 | 1.013 |
| 3397.86 | 4.986 | 1.771 | 1.370 | 1.024 |
| 3398.85 | 4.997 | 1.766 | 1.362 | 1.040 |
| 3427.68 | 5.004 | 1.809 | 1.375 | 1.016 |
| 3496.60 | 5.006 | 1.797 | 1.394 | 1.015 |
| 3508.56 | 5.022 | 1.804 | 1.415 | 1.007 |