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CRACOW OBSERVATIONS OF VARIABLE STARS

Observations of variable stars published by Szafraniec (Szafraniec 1959) cover the period 1920-1950 and were made by Cracow astronomers. There are also many observations made in Cracow during the period 1950-1960 and not published yet. Recently a group of Cracow astronomers (H. Brancewicz, T.Z.Dworak, J.M. Kreiner) has undertaken a treatment of these observations but only for eclipsing variables. The results will be published in very near future.

This material includes, however, observations of variable stars of other types and stars suspected in variability. For those interested in these observations we are giving a list of variable stars and suspected in variability with some informations about the observations. Table 1 gives information about 9 stars suspected in variability. In column 1 we have the name of star as given in Cracow notations, the second column gives the name according to the CSV Catalogue (Kukarkin et al., 1951), the third column gives the number of estimates of brightness and the fourth the period of observation.

Table 1

| List of stars suspected in variability |        |                        |                         |
|--|--------|------------------------|-------------------------|
| Name                                   | CSV    | Number of observations | Period of observation   |
| -6 <sup>o</sup> 6191 Aqr               | -      | 56                     | 27.07.1928 - 23.09.1949 |
| 711.1933 Aql                           | 101915 | 54                     | 9.07.1934 - 28.10.1934  |
| 796.1933 Aql                           | 101912 | 24                     | 9.05.1934 - 12.09.1934  |
| SVS 543 Cnc                            | 1401   | 315                    | 27.02.1936 - 17.03.1949 |
| SVS 546 Cnc                            | 1415   | 151                    | 22.02.1936 - 25.04.1947 |
| 6.1933 Cep                             | 102020 | 114                    | 12.12.1932 - 13.03.1933 |
| 2.1934 Mon                             | 931    | 37                     | 6.04.1934 - 5.12.1936   |
| 31.1938 Cyg                            | 5251   | 11                     | 24.08.1952 - 7.06.1958  |
| 7.1938 Oph                             | 4315   | 1                      | 15.06.1952              |

In Table 2 we have data for 41 variable stars known as no eclipsing. In successive column are given: 1. the name of the star, 2. the type of variability according to the GCVS (Kukarkin et al., 1969), 3. number of estimates of brightness, 4. the period of observations, 5. the number of volume in which Szafraniec (1959) published the observations made before 1950. It should be remembered that the observations made after 1950 have not yet been published.

Table 2

| Name     | Type of variability | Number of observations | Period of observations  | Vol. |
|----------|---------------------|------------------------|-------------------------|------|
| AU And   | Lb                  | 51                     | 12.08.1935 - 1.10.1935  | 3    |
| AD Aql   | RV                  | 270                    | 2.04.1925 - 19.09.1929  | 3    |
| KK Aql   | SRb                 | 142                    | 14.05.1937 - 29.01.1949 | 3    |
| OQ Aql   | SRb                 | 223                    | 14.05.1937 - 3.06.1950  | 3    |
| V441 Aql | SRd                 | 111                    | 30.07.1937 - 29.07.1948 | 3    |
| V464 Aql | L                   | 115                    | 8.05.1937 - 6.12.1948   | 3    |
| V830 Aql | Lb                  | 282                    | 8.05.1937 - 6.10.1950   | 3    |
| VZ Aur   | cst?                | 177                    | 9.11.1925 - 28.10.1934  | 3    |
| EL Aur   | Lb                  | 6                      | 11.11.1933 - 22.11.1933 | 3    |
| TZ Cnc   | Is?                 | 111                    | 22.02.1936 - 25.04.1937 | 3    |
| VX Cnc   | SRb                 | 131                    | 27.02.1936 - 25.04.1937 | 3    |
| AN Cnc   | RRab                | 530                    | 27.02.1936 - 13.04.1950 | 3    |
| RU CrB   | SRa                 | 9                      | 26.01.1928 - 27.03.1928 | 3    |
| R Crv    | M                   | 36                     | 13.03.1921 - 7.06.1921  | 3    |
| S Crv    | L                   | 45                     | 19.11.1925 - 12.04.1947 | 3    |
| T Crv    | M                   | 251                    | 14.12.1925 - 12.04.1947 | 3    |
| V386 Cyg | C                   | 170                    | 1.06.1935 - 17.12.1935  | 4    |
| TZ Del   | SR                  | 117                    | 30.07.1937 - 22.07.1948 | 4    |
| BX Del   | Cep                 | 278                    | 31.05.1937 - 6.10.1950  | 4    |
| BI Gem   | Lb                  | 25                     | 12.01.1934 - 3.01.1948  | 4    |
| AC Her   | RVa                 | 65                     | 14.08.1928 - 4.08.1930  | 4    |
| AE Leo   | RRab                | 26                     | 8.04.1936 - 20.05.1936  | 4    |
| V439 Oph | Cep                 | 97                     | 28.05.1933 - 6.06.1934  | 5    |
| BN Ori   | Inas                | 83                     | 27.11.1927 - 17.04.1931 | 5    |
| V346 Ori | Isa                 | 229                    | 12.11.1934 - 24.02.1951 | 5    |
| V350 Ori | Inas                | 290                    | 26.09.1929 - 7.11.1936  | 5    |
| VW Peg   | E?                  | 44                     | 2.01.1951 - 24.11.1954  | 5    |
| V351 Ori | Inas                | 126                    | 18.09.1934 - 1.10.1949  | 5    |
| AX Peg   | SR?                 | 142                    | 25.09.1933 - 29.10.1936 | 5    |
| EI Peg   | SRa                 | 51                     | 14.09.1934 - 2.07.1935  | 5    |
| XY Per   | In                  | 493                    | 12.08.1924 - 16.11.1936 | 5    |
| V Psc    | *                   | 4                      | 27.11.1927 - 22.10.1932 | 5    |
| SV Psc   | SRb                 | 292                    | 30.08.1933 - 27.07.1935 | 5    |
| EI Pup   | Lb                  | 37                     | 24.02.1930 - 26.03.1931 | 5    |
| RT Tau   | cst                 | 64                     | 15.01.1926 - 26.01.1928 | 6    |
| WW Tau   | SRd                 | 150                    | 21.12.1925 - 19.09.1930 | 6    |
| SZ UMa   | cst?                | 81                     | 8.12.1930 - 16.03.1931  | 6    |
| TY Vir   | SRd                 | 302                    | 14.12.1925 - 30.05.1937 | 6    |
| AU Vir   | RRc                 | 77                     | 25.03.1931 - 14.06.1931 | 6    |
| WW Vul   | Isa                 | 155                    | 20.05.1933 - 15.11.1934 | 6    |
| DV Vul   | Lb                  | 448                    | 14.11.1930 - 5.01.1939  | 6    |

If anybody would like to get observational material for the stars listed in Tables 1 and 2 he is asked to contact with any of the authors of this note.

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