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PHOTOGRAPHIC OBSERVATIONS OF OLD NOVAE II

Using the 30 cm f/5 four lens astrograph of the Observatorium Hoher List, blue plates (103 a-O) of some novae which were also observed last year (Hopp et al., 1979) were taken. The magnitudes listed in the Table were determined with an iris photometer, using the indicated sequences. The accuracy of the magnitudes is about ± 0.05 . In addition, an ESO 3.6 m telescope plate (III a-J + GG385) taken by W. Seitter and H. Duerbeck, of CP Pup was measured. The resulting magnitude, however, is only approximately a photographic one. A comparison with the results of the last year shows that:

- i) the decline of V1500 Cyg still continues,
- ii) HR Del and NQ Vul have reached their prae-nova magnitudes,
- iii) V533 Her and CP Lac seem to be variable.

| Nova | Outburst | Observing date | m_{pg} | Reference |
|-----------|----------|---------------------------|----------|---|
| IV Cep | 1971 | 244 4147.517 ^d | 17.00 | Astron. Astrophys. Suppl. <u>11</u> , 360 |
| V1500 Cyg | 1975 | 4142.441 | 15.76 | US Naval Obs. Publ. <u>17</u> , 462 |
| HR Del | 1967 | 4143.449 | 12.33 | J. Obs. <u>51</u> , 354 |
| DQ Her | 1934 | 3374.471 | 14.59 | Astron. J. <u>61</u> , 36 |
| | | 4156.285 | 14.45 | |
| V533 Her | 1963 | 4156.285 | 14.73 | Acta Astron. <u>19</u> , 82 |
| CP Lac | 1936 | 4147.517 | 16.15 | Astron. Astrophys. Suppl. <u>11</u> , 360 |
| DI Lac | 1910 | 3374.564 | 13.74 | " " " |
| | | 4147.517 | 13.81 | |
| CP Pup | 1942 | 3895.7 | 14.32 | Publ. Astr. Soc. Pacific <u>66</u> , 142 |
| NQ Vul | 1976 | 4143.317 | 17.55 | US Naval Obs. Publ. <u>17</u> , 440 |

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Reference:

Hopp, U., Kiehl, M., Witzigmann, S., Duerbeck, H.W., 1979
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