

BBSAG

BULLETIN

103

1993 May 31

136. List of Minima of Eclipsing Binaries

The following table lists 21 photoelectric (underlined), 23 CCD-measured and 193 visual heliocentric minima of eclipsing binaries obtained primarily from December 1992 to April 1993 by the following observers:

| | |
|-----|---|
| FAc | Francesco Acerbi, Codogno, Italy |
| EBl | Ernst Blättler, Wald, Switzerland |
| RD | Roger Diethelm, R. Szafraniec Observatory, Metzerlen, Switzerland |
| KL | Kurt Locher, Grüt, Switzerland |
| MMa | Massimiliano Martignoni, Busto Arsizio, Italy |
| APs | Anton Paschke, Rüti, Switzerland |
| MWö | Marek Wolf, Prague, Tchech Republic |

The O-C values generally refer to the linear elements of the GCVS 1985, with the remarked exceptions. For the reduction of the visual minima, the tracing paper method was employed, while most of the photoelectric observations were reduced with the Kwee-van Woerden algorithm.

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|---------------|------|-------------------|---------------|----------------|-----|-----|---|
| 30513 | 0041+306 | UU And | p | 48970.347 | 0.005 | -0.001 | 9 | HP | |
| 30514 | | | p | 48979.263 | 0.002 | -0.003 | 9 | KL | |
| 30515 | 0058+378 | WZ And | p | 49007.308 | 0.005 | -0.002 | 20 | APs | CCD |
| 30516 | 0153+418 | XZ And | p | 49001.352 | 0.004 | +0.026 | 7 | HP | |
| 30517 | | | p | 49009.498 | 0.004 | +0.028 | 6 | KL | |
| 30518 | 2309+366 | AB And | p | 49001.258 | 0.005 | -0.008 | 6 | HP | |
| 30519 | 2308+516 | BL And | p | 49003.360 | 0.006 | -0.001 | 6 | HP | |
| 30520 | | | p | 49024.286 | 0.007 | -0.025 | 7 | HP | |
| 30521 | 0205+405 | BX And | p | <u>48987.3125</u> | <u>0.0007</u> | <u>-0.0204</u> | 15 | RD | pe, B |
| 30522 | 0139+445 | EP And | p | 49003.269 | 0.006 | +0.054 | 6 | KL | |
| 30523 | 0212+223 | RX Ari | p | 48956.368 | 0.010 | +0.013 | 130 | APs | CCD |
| 30524 | 0514+382 | RY Aur | p | 48970.389 | 0.005 | +0.019 | 7 | HP | |
| 30525 | | | p | 49060.325 | 0.004 | +0.017 | 9 | HP | |
| 30526 | 0629+324 | WW Aur | s | <u>48975.627</u> | <u>0.005</u> | <u>0.006</u> | 26 | EBl | pe, B |
| 30527 | 0542+411 | ZZ Aur | p | 49043.290 | 0.005 | +0.013 | 7 | HP | |
| 30528 | | | p | 49058.320 | 0.004 | +0.013 | 8 | HP | |
| 30529 | 0509+334 | CL Aur | p | 49043.295 | 0.004 | +0.088 | 6 | KL | |
| 30530 | | | p | 49043.307 | 0.007 | +0.100 | 6 | HP | |
| 30531 | 0615+497 | HL Aur | p | 48970.369 | 0.004 | +0.002 | 7 | HP | |
| 30532 | | | p | 49003.359 | 0.005 | -0.001 | 8 | HP | |
| 30533 | | | p | 49059.382 | 0.004 | -0.004 | 7 | HP | |
| 30534 | 0507+357 | HP Aur | p | 49005.382 | 0.005 | +0.039 | 7 | HP | |
| 30535 | 0524+347 | IU Aur | s | <u>49066.360</u> | <u>0.005</u> | <u>-0.009</u> | 16 | RD | pe, B; $m_{\text{Min II, B}} = 8.91 \pm 0.02$ |
| 30536 | 0624+304 | KU Aur | p | 49057.316 | 0.004 | +0.035 | 6 | KL | |
| 30537 | | | p | 49057.324 | 0.005 | +0.043 | 9 | HP | |
| 30538 | 1402+302 | TU Boo | p | 49043.642 | 0.004 | -0.049 | 6 | KL | |
| 30539 | 1458+353 | TY Boo | p | 49059.445 | 0.004 | +0.058 | 8 | HP | |
| 30540 | | | p | 49066.423 | 0.005 | +0.058 | 8 | HP | |
| 30541 | 1353+261 | ZZ Boo | p | <u>49003.6957</u> | <u>0.0005</u> | <u>+0.0398</u> | 28 | EBl | pe, B |
| 30542 | | | p | <u>49023.6611</u> | <u>0.0012</u> | <u>+0.0383</u> | 32 | EBl | pe, B |
| 30543 | 0819+773 | AY Cam | p | 49056.364 | 0.005 | +0.007 | 12 | HP | elem. IBVS No. 3005 |
| 30544 | 0837+200 | RY Cnc | p | 49032.637 | 0.004 | +0.038 | 6 | KL | |
| 30545 | 0906+306 | WW Cnc | p | 49005.321 | 0.006 | -0.315 | 7 | HP | |
| 30546 | 0843+330 | WX Cnc | p | 49055.344 | 0.007 | +0.012 | 7 | HP | |
| 30547 | | | p | 49066.364 | 0.005 | +0.010 | 15 | HP | |
| 30548 | 0858+269 | WY Cnc | p | 49066.372 | 0.005 | -0.008 | 10 | HP | |
| 30549 | 1354+289 | YZ CVn | p | 49032.486 | 0.010 | -0.022 | 9 | KL | |
| 30550 | 0717-163 | R CMa | p | <u>49060.3523</u> | <u>0.0002</u> | <u>+0.0412</u> | 30 | EBl | pe, B |
| 30551 | 0656-187 | UU CMa | p | 49009.332 | 0.007 | -0.042 | 6 | KL | |
| 30552 | 0720+068 | RY CMi | p | 49031.390 | 0.005 | -0.817 | 23 | APs | CCD |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|----------|------|-------------------|---------------|----------------|----|-----|---------------------------|
| 30553 | 0734+056 | TT CMi | p | 48974.428 | 0.008 | -0.058 | 12 | APs | CCD |
| 30554 | 0734+079 | TU CMi | p | 49065.393 | 0.008 | +0.094 | 14 | APs | CCD |
| 30555 | 0737+048 | TX CMi | s | 48971.640 | 0.008 | -0.088 | 24 | APs | CCD |
| 30556 | | | p | 49032.550 | 0.005 | -0.057 | 16 | APs | CCD |
| 30557 | 0738+029 | TY CMi | p | 49032.340 | 0.007 | +0.642 | 18 | APs | CCD |
| 30558 | 0748+037 | UZ CMi | s | 49043.456 | 0.008 | -0.123 | 20 | APs | CCD |
| 30559 | 0705+063 | AG CMi | p | 49005.409 | 0.007 | -0.022 | 6 | HP | |
| 30560 | 0737+040 | AK CMi | s | 49007.65 | 0.01 | -0.01 | 96 | APs | CCD, see note on page 7 |
| 30561 | | | p | 49045.281 | 0.003 | -0.012 | 6 | KL | |
| 30562 | 0706+017 | AN CMi | p | 49044.35 | 0.01 | -0.45 | 19 | APs | CCD |
| 30563 | 0722-000 | AP CMi | p | 49019.440 | 0.007 | +0.276 | 20 | APs | CCD |
| 30564 | 0241+655 | TW Cas | p | <u>49024.3066</u> | <u>0.0006</u> | <u>-0.0082</u> | 14 | RD | pe, B |
| 30565 | | | p | 49024.316 | 0.005 | +0.001 | 7 | HP | |
| 30566 | 0232+710 | AB Cas | p | 49066.355 | 0.003 | +0.030 | 6 | KL | |
| 30567 | 0123+698 | AE Cas | p | 49054.325 | 0.009 | +0.064 | 6 | KL | |
| 30568 | 2304+538 | IR Cas | p | 49077.666 | 0.004 | +0.012 | 9 | KL | |
| 30569 | 0048+585 | KL Cas | p | 49054.354 | 0.008 | -0.020 | 5 | KL | |
| 30570 | 0045+605 | OR Cas | p | 49026.291 | 0.006 | -0.019 | 6 | KL | |
| 30571 | | | p | 49026.310 | 0.006 | 0.000 | 5 | HP | |
| 30572 | 0105+612 | OX Cas | s | <u>49005.2820</u> | <u>0.0012</u> | <u>+0.0140</u> | 16 | RD | pe,B; displaced secondary |
| 30573 | 2354+627 | V375 Cas | p | 49003.315 | 0.006 | -0.017 | 10 | HP | |
| 30574 | 0037+499 | V523 Cas | s | 48970.324 | 0.004 | +0.019 | 7 | HP | |
| 30575 | | | s | 49003.276 | 0.005 | +0.021 | 8 | HP | |
| 30576 | | | s | 49024.313 | 0.005 | +0.026 | 9 | HP | |
| 30577 | | | p | 49026.297 | 0.006 | +0.023 | 6 | KL | |
| 30578 | 0230+631 | V541 Cas | p | 49001.260 | 0.005 | -0.024 | 6 | HP | |
| 30579 | 0057+816 | U Cep | p | 49061.553 | 0.005 | +0.055 | 5 | KL | |
| 30580 | 2038+754 | VW Cep | s | 49039.389 | 0.002 | -0.079 | 17 | FAc | |
| 30581 | 2157+607 | DK Cep | p | 49001.304 | 0.007 | +0.038 | 6 | HP | |
| 30582 | 2017+766 | EG Cep | p | 48970.294 | 0.004 | +0.024 | 6 | HP | |
| 30583 | 2249+567 | GS Cep | p | 49002.309 | 0.006 | -0.009 | 8 | HP | |
| 30584 | | | p | 49005.268 | 0.006 | +0.006 | 8 | HP | |
| 30585 | 0140+798 | GW Cep | p | 49024.400 | 0.005 | +0.027 | 8 | HP | |
| 30586 | 2300+622 | NN Cep | s | <u>48987.306</u> | <u>0.003</u> | <u>+0.002</u> | 16 | RD | pe, B |
| 30587 | 2144+609 | V338 Cep | p | <u>48986.3089</u> | <u>0.0007</u> | <u>+0.0047</u> | 13 | RD | pe, B |
| 30588 | 0220+809 | V358 Cep | p | 49001.403 | 0.007 | -0.003 | 6 | KL | elem. BBSAG Bull. 96, 10 |
| 30589 | 0146-211 | TW Cet | p | 49001.270 | 0.003 | -0.016 | 6 | KL | |
| 30590 | 0147-198 | VY Cet | s | 49003.292 | 0.005 | -0.009 | 9 | KL | |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|----------|------|-------------------|---------------|----------------|----|-----|---------------------------------|
| 30591 | 0156-231 | AA Cet | s | 49026.250 | 0.002 | -0.014 | 6 | KL | |
| 30592 | 1230+269 | RW Com | s | 49060.420 | 0.006 | -0.009 | 8 | HP | |
| 30593 | | | s | 49066.359 | 0.005 | -0.005 | 6 | HP | |
| 30594 | 1209+228 | CC Com | p | 49058.400 | 0.004 | -0.003 | 7 | HP | |
| 30595 | 1205-128 | W Crv | p | 49019.535 | 0.005 | +0.005 | 6 | KL | |
| 30596 | 2021+430 | UW Cyg | p | 49090.538 | 0.003 | +0.031 | 6 | KL | |
| 30597 | 2022+467 | ZZ Cyg | p | 48971.315 | 0.004 | -0.012 | 10 | HP | |
| 30598 | 1941+326 | V370 Cyg | p | 49064.635 | 0.003 | -0.001 | 6 | KL | |
| 30599 | 2035+181 | W Del | p | 49076.613 | 0.004 | -0.032 | 7 | KL | |
| 30600 | 2037+142 | DM Del | p | <u>48950.2425</u> | <u>0.0014</u> | <u>-0.0562</u> | 28 | EBl | pe, B |
| 30601 | 1142+725 | Z Dra | p | 49009.582 | 0.004 | -0.068 | 6 | KL | |
| 30602 | | | p | 49058.447 | 0.006 | -0.072 | 7 | HP | |
| 30603 | 1214+651 | AR Dra | p | 48984.538 | 0.005 | -0.027 | 6 | KL | |
| 30604 | | | p | 49066.346 | 0.004 | +0.004 | 9 | HP | |
| 30605 | 1851+698 | BF Dra | p | <u>48868.3680</u> | <u>0.0004</u> | <u>+0.0082</u> | 53 | MWO | pe, V; elem. see note on page 7 |
| 30606 | 1922+698 | DW Dra | p | 49041.659 | 0.004 | -0.005 | 6 | KL | elem. BBSAG Bull. 84, 6 |
| 30607 | 0410-108 | ZZ Eri | p | 48972.407 | 0.003 | -0.012 | 15 | APs | CCD |
| 30608 | 0733+170 | TX Gem | p | 49055.358 | 0.006 | -0.001 | 8 | HP | |
| 30609 | 0609+235 | WW Gem | p | 49058.301 | 0.006 | +0.009 | 8 | HP | |
| 30610 | 0647+214 | AF Gem | p | 49055.379 | 0.004 | -0.053 | 8 | HP | |
| 30611 | | | p | 49060.349 | 0.004 | -0.057 | 9 | HP | |
| 30612 | | | p | 49075.282 | 0.007 | -0.046 | 5 | KL | |
| 30613 | 0654+209 | AL Gem | p | 49060.358 | 0.005 | +0.048 | 8 | HP | |
| 30614 | 0631+155 | BD Gem | p | 49004.287 | 0.005 | -0.017 | 7 | HP | |
| 30615 | 0622+180 | BO Gem | p | 49001.434 | 0.013 | +0.275 | 7 | KL | |
| 30616 | | | p | 49058.408 | 0.007 | +0.289 | 11 | HP | |
| 30617 | | | p | 49058.424 | 0.008 | +0.305 | 22 | APs | CCD |
| 30618 | 0644+169 | FG Gem | p | 49058.320 | 0.005 | -0.014 | 8 | HP | |
| 30619 | 0749+272 | GW Gem | p | 49043.321 | 0.007 | +0.008 | 5 | HP | |
| 30620 | | | p | 49066.402 | 0.004 | +0.009 | 8 | HP | |
| 30621 | 1737+329 | SZ Her | p | 49058.643 | 0.004 | -0.018 | 6 | KL | |
| 30622 | 1848+235 | GL Her | p | 49076.661 | 0.002 | +0.014 | 9 | KL | |
| 30623 | 1714+209 | V381 Her | p | 49078.641 | 0.006 | +0.114 | 7 | KL | |
| 30624 | 1341-265 | SX Hya | p | 49032.596 | 0.004 | -0.053 | 6 | KL | |
| 30625 | 0811+006 | WY Hya | p | 49056.394 | 0.006 | +0.015 | 8 | HP | |
| 30626 | | | s | 49065.338 | 0.004 | +0.019 | 7 | HP | |
| 30627 | 0912+030 | AL Hya | p | 49075.346 | 0.020 | +0.343 | 6 | KL | |
| 30628 | 0928-187 | AS Hya | p | 49032.466 | 0.003 | -0.022 | 12 | KL | elem. BBSAG Bull. 83, 5 |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|-----------------|------|-------------------|---------------|----------------|----|-----|---------------------|
| 30629 | 0932+055 | AV Hya | p | 49059.406 | 0.004 | -0.024 | 7 | HP | |
| 30630 | 2216+542 | AW Lac | p | 49001.324 | 0.006 | +0.102 | 9 | HP | |
| 30631 | 0933+264 | Y Leo | p | 49056.506 | 0.003 | -0.006 | 20 | APs | CCD |
| 30632 | | | p | 49061.566 | 0.003 | -0.005 | 6 | KL | |
| 30633 | 1037+092 | RW Leo | p | 49055.50 | 0.01 | -0.02 | 18 | APs | CCD |
| 30634 | 1114-063 | UX Leo | p | 49058.395 | 0.006 | -0.223 | 7 | HP | |
| 30635 | 0956+140 | XX Leo | s | 48755.226 | 0.007 | -0.361 | 40 | APs | CCD, normal minimum |
| 30636 | | | p | 49028.592 | 0.007 | -0.315 | 31 | APs | CCD |
| 30637 | 0958+176 | XY Leo | s | 49058.304 | 0.005 | +0.065 | 8 | HP | |
| 30638 | 0959+172 | XZ Leo | p | 49059.425 | 0.005 | +0.010 | 9 | HP | |
| 30639 | 1142+250 | BL Leo | s | 49043.631 | 0.003 | 0.000 | 6 | KL | |
| 30640 | 0507-149 | Z Lep | p | 49057.336 | 0.005 | -0.150 | 5 | KL | |
| 30641 | 0557-202 | RS Lep | p | 49008.306 | 0.003 | +0.012 | 6 | KL | |
| 30642 | 0652+509 | RV Lyn | p | 49090.435 | 0.005 | +0.547 | 10 | KL | |
| 30643 | 0851+466 | RY Lyn | p | 48977.511 | 0.003 | -0.021 | 8 | KL | |
| 30644 | 0933+415 | RZ Lyn | p | 49055.356 | 0.006 | +0.009 | 7 | HP | |
| 30645 | 0912+429 | UU Lyn | p | 49057.427 | 0.006 | -0.002 | 9 | HP | |
| 30646 | | | p | 49065.398 | 0.005 | +0.004 | 7 | HP | |
| 30647 | 0900+382 | UV Lyn | p | <u>49075.3443</u> | <u>0.0005</u> | <u>+0.0218</u> | 20 | EBl | pe, B |
| 30648 | 0753+408 | BG Lyn | p | 49059.333 | 0.005 | +0.015 | 7 | HP | elem. AJ 87, 314 |
| 30649 | | | p | 49065.332 | 0.006 | +0.015 | 8 | HP | |
| 30650 | 0632+088 | RW Mon | p | 48984.465 | 0.003 | -0.013 | 14 | KL | |
| 30651 | | | p | 49066.422 | 0.006 | -0.017 | 13 | HP | |
| 30652 | 0658-086 | BB Mon | p | 49060.371 | 0.005 | -0.012 | 7 | HP | |
| 30653 | 0706+007 | BM Mon | p | 49041.471 | 0.004 | +0.013 | 9 | KL | |
| 30654 | 0643-002 | DD Mon | p | 49057.409 | 0.005 | +0.082 | 8 | HP | |
| 30655 | | | p | 49065.366 | 0.005 | +0.087 | 7 | HP | |
| 30656 | 0654-052 | EP Mon | p | 49058.416 | 0.007 | +0.010 | 9 | HP | |
| 30657 | | | p | 49065.324 | 0.004 | +0.029 | 11 | HP | |
| 30658 | 0631+094 | GO Mon | p | 49004.504 | 0.010 | -0.265 | 6 | KL | |
| 30659 | 0635+036 | V396 Mon | s | 49009.492 | 0.006 | -0.006 | 5 | KL | |
| 30660 | 1704+078 | WZ Oph | s | <u>48883.3011</u> | <u>0.0008</u> | <u>+0.0049</u> | 32 | EBl | pe, B |
| 30661 | 1728+106 | V449 Oph | p | 49004.704 | 0.003 | +0.027 | 6 | KL | |
| 30662 | 1756+135 | V508 Oph | s | 49043.700 | 0.003 | +0.013 | 7 | KL | |
| 30663 | 0608+163 | EG Ori | p | 49055.365 | 0.010 | -0.053 | 17 | APs | CCD |
| 30664 | 0454-036 | EQ Ori | p | 49002.300 | 0.005 | -0.031 | 8 | HP | |
| 30665 | 0532+029 | FF Ori | p | 49005.380 | 0.007 | +0.024 | 38 | APs | CCD |
| 30666 | | | p | 49005.389 | 0.005 | +0.033 | 10 | HP | |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|----------|------|-------------------|---------------|----------------|----|-----|--------------------------|
| 30667 | 1728+106 | FK Ori | p | 49026.363 | 0.003 | -0.004 | 6 | KL | |
| 30668 | | | p | 49065.326 | 0.006 | +0.009 | 9 | HP | |
| 30669 | 0538+025 | FZ Ori | s | 49005.279 | 0.006 | -0.012 | 7 | HP | |
| 30670 | 0533+088 | OS Ori | p | 49028.370 | 0.005 | -0.005 | 18 | APs | CCD |
| 30671 | | | p | 49059.346 | 0.007 | -0.015 | 7 | HP | |
| 30672 | 0552-093 | V640 Ori | p | 49066.296 | 0.007 | -0.051 | 5 | KL | |
| 30673 | 2226+177 | UX Peg | p | 48970.299 | 0.004 | -0.001 | 6 | HP | |
| 30674 | 2220+160 | BB Peg | s | 49001.245 | 0.005 | +0.011 | 6 | HP | |
| 30675 | 2128+117 | BO Peg | p | 48971.264 | 0.005 | -0.008 | 6 | HP | |
| 30676 | 2146+278 | CW Peg | p | 48971.320 | 0.005 | +0.049 | 18 | APs | CCD, see note on page 7 |
| 30677 | 2148+150 | GH Peg | p | <u>48934.2973</u> | <u>0.0016</u> | <u>+0.0012</u> | 26 | EBl | pe, B |
| 30678 | 0236+419 | Z Per | p | 48984.425 | 0.004 | -0.081 | 7 | KL | |
| 30679 | 0320+463 | RT Per | p | 49003.360 | 0.006 | +0.035 | 8 | HP | |
| 30680 | | | p | 49020.347 | 0.004 | +0.034 | 6 | KL | |
| 30681 | | | p | 49043.286 | 0.004 | +0.038 | 7 | HP | |
| 30682 | | | p | 49065.364 | 0.005 | +0.032 | 6 | HP | |
| 30683 | 0256+389 | ST Per | p | 49065.374 | 0.009 | +0.054 | 6 | KL | |
| 30684 | 0335+425 | WY Per | p | 49043.375 | 0.008 | -0.010 | 6 | HP | |
| 30685 | 0405+464 | XZ Per | p | 49005.351 | 0.006 | -0.028 | 9 | HP | |
| 30686 | 0256+437 | IU Per | p | 49005.267 | 0.006 | +0.012 | 7 | HP | |
| 30687 | 0128+537 | IZ Per | p | <u>49032.2961</u> | <u>0.0004</u> | <u>-0.0003</u> | 30 | EBl | pe, B |
| 30688 | 0433+441 | KR Per | p | 48970.304 | 0.005 | -0.017 | 6 | HP | |
| 30689 | 0156+529 | KW Per | p | 49001.369 | 0.007 | 0.000 | 7 | KL | |
| 30690 | | | p | 49002.305 | 0.005 | +0.004 | 10 | HP | |
| 30691 | 0253+376 | LS Per | p | 49005.344 | 0.006 | -0.300 | 8 | HP | |
| 30692 | 0217+542 | V505 Per | s | 48946.424 | | -0.009 | 13 | MMa | elem. IBVS No. 3479 |
| 30693 | | | s | 48984.441 | | +0.010 | 16 | MMa | |
| 30694 | | | p | <u>49058.3179</u> | <u>0.0005</u> | <u>+0.0013</u> | 30 | EBl | pe, B |
| 30695 | 2331+076 | Y Psc | p | 48994.281 | 0.004 | -0.024 | 4 | KL | |
| 30696 | 0054+120 | SX Psc | p | 48971.249 | 0.005 | +0.008 | 6 | HP | |
| 30697 | | | p | 49004.279 | 0.006 | +0.003 | 7 | HP | |
| 30698 | 0114+065 | UV Psc | p | 49003.330 | 0.005 | -0.006 | 9 | HP | |
| 30699 | 0811-238 | XZ Pup | p | 49024.415 | 0.003 | +0.054 | 8 | KL | |
| 30700 | 0828-229 | SW Pyx | p | 49004.601 | 0.006 | +0.179 | 10 | KL | elem. BBSAG Bull. 91, 14 |
| 30701 | 2010+191 | UZ Sge | p | 49078.642 | 0.004 | -0.016 | 7 | KL | |
| 30702 | 1556+173 | AO Ser | p | 48992.688 | 0.003 | +0.011 | 11 | KL | |
| 30703 | 1554+224 | AU Ser | s | 48992.700 | 0.004 | -0.030 | 10 | KL | |
| 30704 | 1535+190 | LX Ser | p | 49004.645 | 0.002 | -0.001 | 5 | KL | |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|---------------|------|-------------------|---------------|----------------|----|-----|---------------------|
| 30705 | 0400+279 | RW Tau | p | 49023.348 | 0.002 | -0.071 | 8 | KL | |
| 30706 | | | p | 49059.343 | 0.004 | -0.071 | 10 | HP | |
| 30707 | 0433+186 | RZ Tau | p | 48971.307 | 0.005 | +0.027 | 7 | HP | |
| 30708 | | | p | <u>48986.2635</u> | <u>0.0012</u> | <u>+0.0192</u> | 16 | RD | pe, B |
| 30709 | | | p | 49003.308 | 0.005 | +0.021 | 11 | HP | |
| 30710 | | | p | 49057.349 | 0.006 | +0.024 | 6 | HP | |
| 30711 | 0548+281 | SV Tau | p | 49024.354 | 0.005 | -0.002 | 9 | HP | |
| 30712 | | | p | 49024.358 | 0.006 | +0.002 | 5 | KL | |
| 30713 | | | p | <u>49024.3605</u> | <u>0.0026</u> | <u>+0.0048</u> | 20 | RD | pe, unfiltered |
| 30714 | 0553+263 | WY Tau | p | 49005.313 | 0.005 | +0.045 | 9 | HP | |
| 30715 | | | p | 49059.326 | 0.006 | +0.023 | 8 | HP | |
| 30716 | 0344+249 | AH Tau | s | 48968.522 | 0.010 | -0.073 | 13 | APs | CCD |
| 30717 | | | p | 49001.292 | 0.004 | -0.071 | 6 | KL | |
| 30718 | | | p | 49002.296 | 0.004 | -0.065 | 7 | HP | |
| 30719 | | | s | 49056.352 | 0.007 | -0.070 | 8 | HP | |
| 30720 | | | s | 49057.345 | 0.006 | -0.074 | 6 | HP | |
| 30721 | 0549+162 | AM Tau | p | 48977.454 | 0.002 | +0.003 | 6 | KL | |
| 30722 | | | p | 49065.336 | 0.005 | -0.003 | 10 | HP | |
| 30723 | 0526+287 | ES Tau | p | 48979.306 | 0.005 | -0.008 | 6 | KL | |
| 30724 | 0427+254 | GW Tau | p | 49026.314 | 0.007 | -0.015 | 4 | HP | |
| 30725 | | | p | 49060.314 | 0.007 | -0.005 | 6 | HP | |
| 30726 | 0435+205 | HU Tau | p | 48984.394 | | +0.005 | 16 | MMA | |
| 30727 | 0128+301 | V Tri | p | 49021.352 | 0.004 | +0.009 | 5 | KL | |
| 30728 | | | p | 49024.273 | 0.005 | +0.004 | 7 | HP | |
| 30729 | 0157+276 | X Tri | p | 49001.303 | 0.004 | -0.017 | 8 | HP | |
| 30730 | 0210+367 | RV Tri | p | 48970.336 | 0.004 | -0.010 | 8 | HP | |
| 30731 | 0940+561 | W UMa | p | 49039.368 | 0.004 | -0.022 | 15 | FAc | |
| 30732 | 1042+458 | TX UMa | p | <u>49026.4067</u> | <u>0.0011</u> | <u>+0.1009</u> | 32 | EBI | pe, B |
| 30733 | 1206+563 | TY UMa | s | 49058.344 | 0.005 | +0.071 | 9 | HP | elem. IBVS No. 1949 |
| 30734 | | | s | 49065.412 | 0.005 | +0.047 | 7 | HP | |
| 30735 | 1334+521 | UX UMa | p | 49032.690 | 0.001 | +0.001 | 6 | KL | |
| 30736 | 0934+562 | VV UMa | p | 49056.324 | 0.006 | -0.009 | 8 | HP | |
| 30737 | | | p | 49058.388 | 0.006 | -0.008 | 7 | HP | |
| 30738 | 0906+546 | XY UMa | p | 49060.410 | 0.006 | +0.008 | 8 | HP | |
| 30739 | 0928+496 | XZ UMa | p | 49005.416 | 0.005 | -0.015 | 6 | HP | |
| 30740 | | | p | 49043.303 | 0.004 | -0.020 | 7 | HP | |
| 30741 | | | p | 49060.421 | 0.005 | -0.014 | 6 | HP | |
| 30742 | | | p | 49065.302 | 0.005 | -0.022 | 7 | HP | |
| 30743 | | | p | 49065.314 | 0.003 | -0.011 | 6 | KL | |
| 30744 | 1026+620 | ZZ UMa | p | 49057.288 | 0.006 | +0.022 | 6 | HP | |
| 30745 | 0943+459 | AA UMa | s | 49055.352 | 0.005 | +0.012 | 7 | HP | |
| 30746 | 0851+651 | AC UMa | p | 49054.363 | 0.010 | -0.002 | 6 | KL | |
| 30747 | 1402-099 | VV Vir | p | 49041.654 | 0.006 | -0.011 | 8 | KL | |
| 30748 | 1211+120 | AH Vir | s | <u>49061.3777</u> | <u>0.0010</u> | <u>+0.0692</u> | 18 | RD | pe, B |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|--------|------|-----------|-------|--------|---|-----|---------|
| 30749 | 1402-181 | AK Vir | p | 49075.518 | 0.008 | -0.032 | 7 | KL | |

Notes on some observations given in the table above

AK CMi: The 1985 edition of the GCVS states the existence of a secondary minimum of depth 0.2 mag at phase 0.55. The observation given above confirm the amplitude, but the secondary minimum is currently not displaced from phase 0.5.

CW Peg: Our light curve shows a time of totality amounting to $d = 0.04 \pm 0.01$. This is not mentioned in the GCVS.

A. Paschke

BF Dra: In IBVS No. 3867, Diethelm, Wolf and Agerer (1993) published a photoelectric light curve of this interesting eclipsing binary with a non-circular orbit. From all the times of minimum contained in the BAV databank on eclipsing binaries, F. Agerer has deduced the following elements for the primary minimum:

$$JD_{hel, \min I} = 2447276.3948 + 11.21102120 \cdot E.$$

These elements were used in the table.

R. Diethelm

The amplitude of DK Her

As mentioned in BBSAG Bulletin 84, the GCVS gives an amplitude for DK Her of approximately 0.5 mag. New CCD observations yield a value for the amplitude of 1.2 mag. This little observed star is therefore an easy object for visual observers.

A. Paschke

Errata

| Nr. | Bulletin | Star | Correction |
|-------|----------|-----------------|----------------------------------|
| 30145 | 101 | BH Vir | O=4878 <u>0</u> .427 |
| 30392 | 102 | AW Lac | erroneous, disregard observation |
| 30425 | 102 | V719 Oph | observation of V709 Oph . |

R. Diethelm

Final designations of variables contained in previous Bulletins

The 71st "Name-List of Variable Stars" (IBVS No. 3840) gives the following official designations:

HD197010 Aqr = HS Aqr
 DHK 16 Leo = DU Leo
 NSV1776 Ori = V1202 Ori
 DHK 11 Per = V505 Per
 DHK 14 Tau = V1061 Tau

R. Diethelm

