**Table A1**
Log of WFC observations of each of 60 fields.

| Galaxy | Date (y m d) | E | F | $t_{\rm exp}$ (sec) | Airmass | seeing (arcsec) | Galaxy | Date (y m d) | E | F | $t_{\rm exp}$ (sec) | Airmass | seeing (arcsec) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| And I | 2016 02 09 | 2 | $i$ | 540 | 1.475 | 1.35 | And VII | 2017 09 02 | 8 | $i$ | 555 | 1.089 | 1.21 |
| And I | 2016 06 14 | 3 | $i$ | 555 | 1.568 | 1.68 | And VII | 2017 09 02 | 8 | $V$ | 735 | 1.080 | 1.31 |
| And I | 2016 08 10 | 4 | $i$ | 555 | 1.077 | 1.39 | And VII | 2017 10 06 | 9 | $i$ | 555 | 1.185 | 1.34 |
| And I | 2016 08 12 | 4 | $V$ | 735 | 1.015 | 1.30 | And VII | 2017 10 08 | 9 | $V$ | 735 | 1.196 | 1.66 |
| And I | 2016 10 20 | 5 | $i$ | 555 | 1.205 | 1.48 | And IX | 2015 06 21 | 1 | $I$ | 45 | 1.265 | 1.65 |
| And I | 2016 10 20 | 5 | $V$ | 735 | 1.286 | 1.53 | And IX | 2015 06 21 | 1 | $V$ | 72 | 1.253 | 1.76 |
| And I | 2017 01 29 | 6 | $i$ | 555 | 2.425 | 1.77 | And IX | 2016 02 09 | 2 | $i$ | 540 | 1.854 | 1.32 |
| And I | 2017 08 01 | 7 | $i$ | 555 | 1.018 | 1.18 | And IX | 2016 06 15 | 3 | $i$ | 555 | 1.409 | 1.76 |
| And I | 2017 08 01 | 7 | $V$ | 735 | 1.014 | 1.25 | And IX | 2016 08 11 | 4 | $i$ | 555 | 1.045 | 1.20 |
| And I | 2017 09 01 | 8 | $i$ | 555 | 1.084 | 1.25 | And IX | 2016 08 13 | 4 | $V$ | 735 | 1.033 | 1.50 |
| And I | 2017 09 01 | 8 | $V$ | 735 | 1.051 | 1.34 | And IX | 2016 10 21 | 5 | $i$ | 555 | 1.320 | 1.00 |
| And I | 2017 10 06 | 9 | $i$ | 555 | 1.278 | 1.44 | And IX | 2017 01 29 | 6 | $i$ | 435 | 1.655 | 1.53 |
| And I | 2017 10 08 | 9 | $V$ | 735 | 1.014 | 1.21 | And IX | 2017 08 01 | 7 | $i$ | 555 | 1.306 | 1.22 |
| And II | 2016 02 09 | 2 | $i$ | 540 | 1.968 | 1.28 | And IX | 2017 08 01 | 7 | $V$ | 735 | 1.227 | 1.48 |
| And II | 2016 06 13 | 3 | $i$ | 565 | 2.550 | 1.78 | And IX | 2017 09 02 | 8 | $i$ | 555 | 1.070 | 1.23 |
| And II | 2016 08 12 | 4 | $i$ | 555 | 1.335 | 1.42 | And IX | 2017 09 02 | 8 | $V$ | 735 | 1.047 | 1.24 |
| And II | 2016 08 13 | 4 | $V$ | 735 | 1.052 | 1.70 | And IX | 2017 10 06 | 9 | $i$ | 555 | 1.341 | 1.04 |
| And II | 2016 10 20 | 5 | $i$ | 555 | 1.522 | 1.28 | And X | 2016 02 08 | 2 | $i$ | 810 | 1.827 | 1.77 |
| And II | 2016 10 22 | 5 | $V$ | 735 | 1.405 | 1.34 | And X | 2016 06 13 | 3 | $i$ | 615 | 2.488 | 2.68 |
| And II | 2017 01 29 | 6 | $i$ | 495 | 1.723 | 1.61 | And X | 2016 08 10 | 4 | $i$ | 555 | 1.052 | 1.17 |
| And II | 2017 08 02 | 7 | $i$ | 555 | 1.091 | 1.16 | And X | 2016 08 12 | 4 | $V$ | 735 | 1.102 | 1.45 |
| And II | 2017 09 01 | 8 | $i$ | 555 | 1.046 | 1.40 | And X | 2016 10 21 | 5 | $i$ | 555 | 1.368 | 0.90 |
| And II | 2017 09 01 | 8 | $V$ | 735 | 1.022 | 1.39 | And X | 2016 10 22 | 5 | $V$ | 735 | 1.238 | 1.20 |
| And II | 2017 10 06 | 9 | $i$ | 555 | 1.061 | 1.00 | And X | 2017 01 29 | 6 | $i$ | 555 | 1.424 | 1.46 |
| And II | 2017 10 08 | 9 | $V$ | 735 | 1.402 | 1.29 | And X | 2017 08 01 | 7 | $i$ | 555 | 1.104 | 1.20 |
| And III | 2016 02 09 | 2 | $i$ | 540 | 1.676 | 1.39 | And X | 2017 08 01 | 7 | $V$ | 735 | 1.074 | 1.29 |
| And III | 2016 06 15 | 3 | $i$ | 555 | 1.455 | 1.69 | And X | 2017 09 02 | 8 | $i$ | 555 | 1.049 | 1.14 |
| And III | 2016 08 10 | 4 | $i$ | 555 | 1.020 | 1.22 | And X | 2017 09 02 | 8 | $V$ | 735 | 1.041 | 1.19 |
| And III | 2016 08 12 | 4 | $V$ | 735 | 1.034 | 1.51 | And X | 2017 10 06 | 9 | $i$ | 555 | 1.148 | 0.87 |
| And III | 2016 10 20 | 5 | $i$ | 555 | 1.166 | 1.10 | And X | 2017 10 09 | 9 | $V$ | 735 | 1.159 | 1.09 |
| And III | 2016 10 22 | 5 | $V$ | 735 | 1.061 | 0.95 | And XI | 2016 08 09 | 4 | $i$ | 555 | 1.024 | 2.61 |
| And III | 2017 01 30 | 6 | $i$ | 495 | 1.650 | 1.81 | And XI | 2016 08 09 | 4 | $V$ | 735 | 1.008 | 2.84 |
| And III | 2017 01 31 | 6 | $i$ | 540 | 2.281 | 2.76 | And XI | 2016 08 11 | 4 | $i$ | 555 | 1.032 | 1.24 |
| And III | 2017 08 02 | 7 | $i$ | 555 | 1.109 | 1.14 | And XI | 2016 08 13 | 4 | $V$ | 735 | 1.053 | 1.76 |
| And III | 2017 09 01 | 8 | $i$ | 975 | 1.095 | 1.44 | And XI | 2016 10 19 | 5 | $i$ | 555 | 1.295 | 1.06 |
| And III | 2017 09 01 | 8 | $V$ | 735 | 1.165 | 1.41 | And XI | 2016 10 22 | 5 | $V$ | 735 | 1.081 | 1.05 |
| And III | 2017 10 06 | 9 | $i$ | 555 | 1.013 | 1.16 | And XI | 2017 01 30 | 6 | $i$ | 555 | 2.556 | 2.41 |
| And III | 2017 10 09 | 9 | $V$ | 735 | 1.485 | 1.55 | And XI | 2017 08 01 | 7 | $i$ | 555 | 1.133 | 1.44 |
| And V | 2016 02 08 | 2 | $i$ | 540 | 1.572 | 1.60 | And XI | 2017 08 01 | 7 | $V$ | 735 | 1.083 | 1.43 |
| And V | 2016 06 15 | 3 | $i$ | 555 | 1.386 | 1.56 | And XI | 2017 09 02 | 8 | $i$ | 555 | 1.014 | 1.03 |
| And V | 2016 08 12 | 4 | $i$ | 555 | 1.168 | 1.18 | And XI | 2017 09 02 | 8 | $V$ | 735 | 1.033 | 1.17 |
| And V | 2016 08 13 | 4 | $V$ | 555 | 1.071 | 1.49 | And XI | 2017 10 06 | 9 | $i$ | 555 | 1.029 | 1.09 |
| And V | 2016 10 21 | 5 | $i$ | 300 | 1.433 | 1.22 | And XI | 2017 10 08 | 9 | $V$ | 735 | 1.282 | 1.11 |
| And V | 2016 10 22 | 5 | $V$ | 735 | 1.319 | 1.11 | And XII | 2016 02 10 | 2 | $i$ | 630 | 2.159 | 1.67 |
| And V | 2017 01 29 | 6 | $i$ | 555 | 2.558 | 1.86 | And XII | 2016 06 14 | 3 | $i$ | 480 | 1.283 | 1.83 |
| And V | 2017 08 03 | 7 | $i$ | 555 | 1.060 | 1.48 | And XII | 2016 08 11 | 4 | $i$ | 555 | 1.062 | 1.26 |
| And V | 2017 08 03 | 7 | $V$ | 735 | 1.057 | 1.40 | And XII | 2016 08 13 | 4 | $V$ | 735 | 1.097 | 1.85 |
| And V | 2017 09 02 | 8 | $i$ | 555 | 1.614 | 1.32 | And XII | 2016 10 21 | 5 | $i$ | 555 | 1.068 | 0.93 |
| And V | 2017 09 02 | 8 | $V$ | 735 | 1.477 | 1.56 | And XII | 2016 10 21 | 5 | $V$ | 735 | 1.110 | 1.03 |
| And V | 2017 10 06 | 9 | $i$ | 555 | 1.214 | 0.99 | And XII | 2017 01 31 | 6 | $i$ | 555 | 1.664 | 2.00 |
| And V | 2017 10 09 | 9 | $V$ | 735 | 1.311 | 1.34 | And XII | 2017 08 03 | 7 | $i$ | 555 | 1.021 | 1.47 |
| And VI | 2016 06 13 | 3 | $i$ | 555 | 2.270 | 2.22 | And XII | 2017 09 02 | 8 | $i$ | 555 | 1.063 | 1.01 |
| And VI | 2016 08 10 | 4 | $i$ | 555 | 1.132 | 1.35 | And XII | 2017 09 02 | 8 | $V$ | 735 | 1.104 | 1.10 |
| And VI | 2016 08 13 | 4 | $V$ | 735 | 1.356 | 1.74 | And XII | 2017 10 06 | 9 | $i$ | 555 | 1.038 | 0.99 |
| And VI | 2016 10 20 | 5 | $i$ | 555 | 1.003 | 1.30 | And XII | 2017 10 09 | 9 | $V$ | 735 | 1.276 | 1.36 |
| And VI | 2016 10 22 | 5 | $V$ | 735 | 1.015 | 1.26 | And XIII | 2016 02 09 | 2 | $i$ | 540 | 1.759 | 1.43 |
| And VI | 2017 01 30 | 6 | $i$ | 480 | 1.731 | 1.55 | And XIII | 2016 06 14 | 3 | $i$ | 555 | 1.478 | 1.47 |
| And VI | 2017 02 01 | 6 | $i$ | 540 | 1.701 | 1.33 | And XIII | 2016 08 11 | 4 | $i$ | 555 | 1.134 | 1.29 |
| And VI | 2017 08 02 | 7 | $i$ | 555 | 1.408 | 1.34 | And XIII | 2016 08 13 | 4 | $V$ | 735 | 1.235 | 1.80 |
| And VI | 2017 08 02 | 7 | $V$ | 735 | 1.289 | 1.40 | And XIII | 2016 10 21 | 5 | $i$ | 555 | 1.159 | 0.99 |
| And VI | 2017 09 02 | 8 | $i$ | 555 | 1.129 | 1.34 | And XIII | 2016 10 21 | 5 | $V$ | 735 | 1.233 | 1.03 |
| And VI | 2017 09 02 | 8 | $V$ | 735 | 1.072 | 1.32 | And XIII | 2017 01 31 | 6 | $i$ | 555 | 1.473 | 1.75 |
| And VI | 2017 10 06 | 9 | $i$ | 555 | 1.080 | 1.10 | And XIII | 2017 08 02 | 7 | $i$ | 555 | 1.012 | 1.00 |
| And VI | 2017 10 09 | 9 | $V$ | 735 | 1.471 | 1.83 | And XIII | 2017 09 02 | 8 | $i$ | 555 | 1.148 | 1.00 |
| And VII | 2015 06 18 | 1 | $I$ | 540 | 1.328 | 1.21 | And XIII | 2017 09 02 | 8 | $V$ | 735 | 1.217 | 1.11 |
| And VII | 2015 06 18 | 1 | $V$ | 1200 | 1.174 | 1.29 | And XIII | 2017 10 06 | 9 | $i$ | 555 | 1.004 | 1.27 |
| And VII | 2016 02 10 | 2 | $i$ | 630 | 1.894 | 1.45 | And XIII | 2017 10 09 | 9 | $V$ | 735 | 1.433 | 1.40 |
| And VII | 2016 06 13 | 3 | $i$ | 615 | 2.214 | 2.84 | And XIV | 2016 08 11 | 4 | $i$ | 555 | 1.000 | 1.15 |
| And VII | 2016 08 10 | 4 | $i$ | 555 | 1.198 | 1.54 | And XIV | 2016 08 13 | 4 | $V$ | 735 | 1.006 | 1.64 |
| And VII | 2016 08 12 | 4 | $i$ | 555 | 1.287 | 1.37 | And XIV | 2016 10 19 | 5 | $i$ | 555 | 1.394 | 1.09 |
| And VII | 2016 08 12 | 4 | $V$ | 735 | 1.076 | 1.24 | And XIV | 2016 10 22 | 5 | $V$ | 735 | 1.123 | 1.01 |
| And VII | 2016 10 20 | 5 | $i$ | 555 | 1.103 | 1.55 | And XIV | 2017 01 31 | 6 | $i$ | 555 | 1.268 | 1.65 |
| And VII | 2017 01 30 | 6 | $i$ | 495 | 1.581 | 1.23 | And XIV | 2017 08 02 | 7 | $i$ | 555 | 1.001 | 1.09 |
| And VII | 2017 08 01 | 7 | $i$ | 555 | 1.724 | 1.23 | And XIV | 2017 09 03 | 8 | $i$ | 555 | 1.439 | 1.25 |
| And VII | 2017 08 01 | 7 | $V$ | 735 | 1.571 | 1.44 | And XIV | 2017 09 03 | 8 | $V$ | 735 | 1.310 | 1.43 |

| Galaxy | Date (y m d) | E | F | $t_{\rm exp}$ (sec) | Airmass | seeing (arcsec) |
|---|---|---|---|---|---|---|
| And XIV | 2017 10 07 | 9 | $i$ | 555 | 1.006 | 1.80 |
| And XIV | 2017 10 08 | 9 | $V$ | 735 | 1.404 | 1.15 |
| And XV | 2016 02 08 | 2 | $i$ | 540 | 1.455 | 1.59 |
| And XV | 2016 08 11 | 4 | $i$ | 555 | 1.021 | 1.09 |
| And XV | 2016 08 13 | 4 | $V$ | 735 | 1.021 | 1.54 |
| And XV | 2016 10 19 | 5 | $i$ | 555 | 1.502 | 1.07 |
| And XV | 2017 01 29 | 6 | $i$ | 555 | 1.288 | 1.43 |
| And XV | 2017 08 02 | 7 | $i$ | 555 | 1.061 | 1.06 |
| And XV | 2017 09 03 | 8 | $i$ | 555 | 1.285 | 1.07 |
| And XV | 2017 09 03 | 8 | $V$ | 735 | 1.187 | 1.30 |
| And XV | 2017 10 06 | 9 | $i$ | 555 | 1.044 | 1.05 |
| And XV | 2017 10 08 | 9 | $V$ | 735 | 1.128 | 1.17 |
| And XVI | 2016 02 10 | 2 | $i$ | 540 | 2.322 | 1.64 |
| And XVI | 2016 08 12 | 4 | $i$ | 465 | 1.174 | 1.12 |
| And XVI | 2016 10 19 | 5 | $i$ | 465 | 1.472 | 1.09 |
| And XVI | 2016 10 22 | 5 | $V$ | 735 | 1.168 | 1.07 |
| And XVI | 2017 01 31 | 6 | $i$ | 465 | 1.322 | 1.56 |
| And XVI | 2017 08 03 | 7 | $i$ | 465 | 1.012 | 1.55 |
| And XVI | 2017 09 03 | 8 | $i$ | 555 | 1.082 | 1.07 |
| And XVI | 2017 09 03 | 8 | $V$ | 735 | 1.041 | 1.28 |
| And XVI | 2017 10 06 | 9 | $i$ | 465 | 1.074 | 1.18 |
| And XVI | 2017 10 08 | 9 | $V$ | 735 | 1.082 | 1.17 |
| And XVII | 2015 06 21 | 1 | $I$ | 104 | 1.312 | 1.57 |
| And XVII | 2015 06 21 | 1 | $V$ | 126 | 1.259 | 1.60 |
| And XVII | 2016 02 10 | 2 | $i$ | 630 | 1.889 | 1.69 |
| And XVII | 2016 06 15 | 3 | $i$ | 555 | 1.591 | 1.70 |
| And XVII | 2016 08 11 | 4 | $i$ | 555 | 1.226 | 1.26 |
| And XVII | 2016 08 13 | 4 | $V$ | 735 | 1.385 | 1.66 |
| And XVII | 2016 10 21 | 5 | $i$ | 555 | 1.078 | 0.98 |
| And XVII | 2017 01 30 | 6 | $i$ | 360 | 2.760 | 2.55 |
| And XVII | 2017 08 03 | 7 | $i$ | 555 | 1.069 | 1.47 |
| And XVII | 2017 09 03 | 8 | $i$ | 555 | 1.596 | 1.32 |
| And XVII | 2017 09 03 | 8 | $V$ | 735 | 1.456 | 1.39 |
| And XVII | 2017 10 07 | 9 | $i$ | 555 | 1.049 | 1.27 |
| And XVIII | 2015 06 21 | 1 | $I$ | 269 | 1.343 | 1.67 |
| And XVIII | 2015 06 21 | 1 | $V$ | 195 | 1.279 | 1.81 |
| And XVIII | 2016 06 14 | 3 | $i$ | 2730 | 2.117 | 1.62 |
| And XVIII | 2016 10 20 | 5 | $i$ | 2715 | 1.128 | 1.40 |
| And XVIII | 2017 08 03 | 7 | $i$ | 2730 | 1.285 | 1.55 |
| And XVIII | 2017 08 03 | 7 | $V$ | 3180 | 1.085 | 1.76 |
| And XVIII | 2017 10 07 | 9 | $i$ | 900 | 1.157 | 1.61 |
| And XVIII | 2017 10 08 | 9 | $i$ | 2730 | 1.053 | 1.43 |
| And XIX | 2016 02 10 | 2 | $i$ | 630 | 1.962 | 1.70 |
| And XIX | 2016 06 14 | 3 | $i$ | 555 | 1.780 | 1.72 |
| And XIX | 2016 08 11 | 4 | $i$ | 555 | 1.032 | 1.13 |
| And XIX | 2016 08 13 | 4 | $V$ | 320 | 1.089 | 1.50 |
| And XIX | 2016 10 20 | 5 | $i$ | 555 | 1.145 | 1.13 |
| And XIX | 2016 10 22 | 5 | $V$ | 735 | 1.039 | 1.04 |
| And XIX | 2017 01 30 | 6 | $i$ | 555 | 2.536 | 1.77 |
| And XIX | 2017 08 02 | 7 | $i$ | 555 | 1.126 | 1.21 |
| And XIX | 2017 09 03 | 8 | $i$ | 555 | 1.006 | 1.20 |
| And XIX | 2017 09 03 | 8 | $V$ | 735 | 1.010 | 1.14 |
| And XIX | 2017 10 06 | 9 | $i$ | 555 | 1.020 | 1.04 |
| And XIX | 2017 10 09 | 9 | $V$ | 1135 | 1.166 | 1.35 |
| And XX | 2016 02 09 | 2 | $i$ | 540 | 1.570 | 1.39 |
| And XX | 2016 06 15 | 3 | $i$ | 555 | 1.638 | 1.60 |
| And XX | 2016 08 10 | 4 | $i$ | 555 | 1.059 | 1.32 |
| And XX | 2016 08 12 | 4 | $V$ | 735 | 1.010 | 1.31 |
| And XX | 2016 10 21 | 5 | $i$ | 540 | 1.037 | 1.09 |
| And XX | 2016 10 22 | 5 | $V$ | 735 | 1.025 | 1.12 |
| And XX | 2017 01 30 | 6 | $i$ | 555 | 2.302 | 2.99 |
| And XX | 2017 08 02 | 7 | $i$ | 555 | 1.225 | 1.11 |
| And XX | 2017 08 02 | 7 | $V$ | 735 | 1.155 | 1.34 |
| And XX | 2017 09 03 | 8 | $i$ | 555 | 1.033 | 1.04 |
| And XX | 2017 09 03 | 8 | $V$ | 735 | 1.061 | 1.08 |
| And XX | 2017 10 07 | 9 | $i$ | 555 | 1.018 | 1.44 |
| And XX | 2017 10 09 | 9 | $V$ | 735 | 1.441 | 1.39 |
| And XXI | 2015 06 20 | 1 | $I$ | 490 | 1.256 | 1.58 |
| And XXI | 2015 06 20 | 1 | $V$ | 540 | 1.187 | 1.61 |
| And XXI | 2016 02 10 | 2 | $i$ | 630 | 1.911 | 1.66 |
| And XXI | 2016 06 13 | 3 | $i$ | 615 | 2.296 | 1.70 |
| And XXI | 2016 08 09 | 4 | $i$ | 555 | 1.088 | 2.46 |
| And XXI | 2016 08 09 | 4 | $V$ | 735 | 1.060 | 2.66 |
| And XXI | 2016 08 10 | 4 | $i$ | 555 | 1.099 | 1.37 |
| And XXI | 2016 08 13 | 4 | $V$ | 735 | 1.452 | 1.75 |
| And XXI | 2016 10 21 | 5 | $i$ | 555 | 1.070 | 1.40 |
| And XXI | 2016 10 22 | 5 | $i$ | 540 | 1.031 | 0.98 |
| And XXI | 2017 01 31 | 6 | $i$ | 540 | 2.443 | 2.05 |
| And XXI | 2017 08 01 | 7 | $i$ | 555 | 1.590 | 1.49 |
| And XXI | 2017 08 01 | 7 | $V$ | 735 | 1.446 | 1.79 |
| And XXI | 2017 09 03 | 8 | $i$ | 555 | 1.141 | 0.97 |
| And XXI | 2017 09 03 | 8 | $V$ | 735 | 1.201 | 1.14 |
| And XXI | 2017 10 07 | 9 | $i$ | 555 | 1.060 | 1.73 |
| And XXI | 2017 10 08 | 9 | $V$ | 735 | 1.125 | 0.99 |
| And XXII | 2017 01 29 | 6 | $i$ | 555 | 2.422 | 1.68 |
| And XXII | 2017 08 02 | 7 | $i$ | 555 | 1.174 | 1.18 |
| And XXII | 2017 09 03 | 8 | $i$ | 555 | 1.059 | 1.00 |
| And XXII | 2017 09 03 | 8 | $V$ | 735 | 1.104 | 1.16 |
| And XXII | 2017 10 07 | 9 | $i$ | 555 | 1.070 | 1.57 |
| M 32 | 2016 06 14 | 3 | $i$ | 555 | 1.703 | 1.68 |
| M 32 | 2016 10 21 | 5 | $i$ | 555 | 1.065 | 1.03 |
| M 32 | 2016 10 21 | 5 | $V$ | 735 | 1.042 | 1.32 |
| M 32 | 2017 01 31 | 6 | $i$ | 555 | 2.416 | 2.80 |
| M 32 | 2017 10 07 | 9 | $i$ | 555 | 1.358 | 1.76 |
| M 110 | 2016 10 21 | 5 | $i$ | 465 | 1.031 | 1.13 |
| M 110 | 2016 10 21 | 5 | $V$ | 915 | 1.026 | 1.19 |
| M 110 | 2017 01 31 | 6 | $i$ | 180 | 2.792 | 2.50 |
| M 110 | 2017 10 07 | 9 | $i$ | 555 | 1.251 | 1.70 |
| IC 10 | 2015 06 21 | 1 | $I$ | 430 | 1.748 | 1.87 |
| IC 10 | 2015 06 21 | 1 | $V$ | 430 | 1.634 | 1.90 |
| IC 10 | 2016 06 13 | 3 | $i$ | 555 | 1.450 | 1.10 |
| IC 10 | 2016 06 15 | 3 | $i$ | 555 | 2.271 | 1.82 |
| IC 10 | 2016 08 10 | 4 | $i$ | 555 | 1.168 | 1.11 |
| IC 10 | 2016 08 13 | 4 | $V$ | 735 | 1.331 | 1.69 |
| IC 10 | 2016 08 13 | 4 | $V$ | 735 | 1.331 | 1.69 |
| IC 10 | 2016 10 19 | 5 | $i$ | 555 | 1.303 | 1.55 |
| IC 10 | 2016 10 19 | 5 | $V$ | 735 | 1.361 | 1.62 |
| IC 10 | 2017 08 01 | 7 | $i$ | 555 | 1.496 | 1.35 |
| IC 10 | 2017 08 01 | 7 | $V$ | 735 | 1.411 | 1.40 |
| IC 10 | 2017 09 01 | 8 | $i$ | 555 | 1.263 | 1.47 |
| IC 10 | 2017 09 01 | 8 | $V$ | 735 | 1.225 | 1.62 |
| IC 10 | 2017 09 02 | 8 | $i$ | 555 | 1.634 | 1.18 |
| IC 10 | 2017 09 02 | 8 | $V$ | 735 | 1.525 | 1.43 |
| IC 10 | 2017 10 06 | 9 | $i$ | 555 | 1.263 | 1.24 |
| IC 10 | 2017 10 08 | 9 | $V$ | 735 | 1.184 | 1.11 |
| NGC 2419 | 2016 02 07 | 2 | $i$ | 45 | 1.171 | 1.09 |
| NGC 2419 | 2016 02 07 | 2 | $V$ | 45 | 1.145 | 1.15 |
| NGC 2419 | 2016 02 08 | 2 | $i$ | 180 | 1.061 | 1.43 |
| NGC 2419 | 2016 10 20 | 5 | $i$ | 45 | 1.143 | 1.51 |
| NGC 2419 | 2016 10 20 | 5 | $V$ | 45 | 1.117 | 1.57 |
| NGC 2419 | 2017 01 29 | 6 | $i$ | 45 | 1.016 | 1.19 |
| NGC 2419 | 2017 01 31 | 6 | $V$ | 60 | 1.016 | 1.55 |
| NGC 2419 | 2017 10 06 | 9 | $i$ | 45 | 1.185 | 1.41 |
| NGC 2419 | 2017 10 09 | 9 | $V$ | 45 | 1.108 | 1.25 |
| NGC 2419 | 2018 02 24 | 10 | $i$ | 45 | 1.032 | 1.79 |
| NGC 2419 | 2018 02 24 | 10 | $V$ | 45 | 1.041 | 2.44 |
| Cetus | 2016 10 21 | 5 | $i$ | 540 | 1.323 | 1.00 |
| Cetus | 2016 10 21 | 5 | $V$ | 720 | 1.357 | 1.07 |
| Cetus | 2017 10 08 | 9 | $i$ | 555 | 1.299 | 1.42 |
| Palomar 4 | 2017 01 31 | 6 | $i$ | 45 | 1.009 | 2.47 |
| Palomar 4 | 2017 02 01 | 6 | $V$ | 54 | 1.127 | 1.81 |
| UGC 4879 | 2016 02 07 | 2 | $i$ | 2700 | 1.105 | 1.29 |
| UGC 4879 | 2016 02 07 | 2 | $V$ | 1400 | 1.095 | 1.49 |
| UGC 4879 | 2016 02 08 | 2 | $V$ | 3150 | 1.131 | 1.65 |
| UGC 4879 | 2016 06 15 | 3 | $i$ | 70 | 2.500 | 1.48 |
| UGC 4879 | 2016 10 19 | 5 | $i$ | 2700 | 1.318 | 1.51 |
| UGC 4879 | 2016 10 22 | 5 | $V$ | 1050 | 1.510 | 1.56 |
| UGC 4879 | 2018 02 24 | 10 | $i$ | 2400 | 1.150 | 2.86 |
| Sextans A | 2016 02 09 | 2 | $i$ | 2700 | 1.213 | 1.33 |
| Sextans A | 2016 02 09 | 2 | $V$ | 3150 | 1.207 | 1.40 |
| Sextans A | 2017 01 29 | 6 | $i$ | 1815 | 1.297 | 1.65 |
| Sextans B | 2016 02 08 | 2 | $i$ | 2700 | 1.126 | 1.65 |
| Sextans B | 2016 02 08 | 2 | $V$ | 2700 | 1.090 | 1.70 |
| Sextans B | 2017 01 29 | 6 | $i$ | 2715 | 1.092 | 1.41 |
| Sextans C | 2016 02 10 | 2 | $i$ | 165 | 1.159 | 1.02 |
| Sextans C | 2016 02 10 | 2 | $V$ | 165 | 1.172 | 1.15 |
| Sextans C | 2017 01 29 | 6 | $i$ | 45 | 1.186 | 1.42 |
| Sextans C | 2017 01 31 | 6 | $V$ | 45 | 1.165 | 1.88 |
| Sextans | 2016 02 10 | 2 | $i$ | 90 | 1.217 | 0.94 |
| Sextans | 2016 02 10 | 2 | $V$ | 180 | 1.239 | 1.25 |
| Sextans | 2017 01 29 | 6 | $i$ | 45 | 1.340 | 1.88 |
| Sextans | 2017 01 31 | 6 | $V$ | 45 | 1.165 | 2.80 |
| Sextans | 2018 02 22 | 10 | $i$ | 45 | 1.165 | 1.94 |
| Willman 1 | 2016 02 07 | 2 | $i$ | 100 | 1.705 | 1.32 |

| Galaxy | Date (y m d) | E | F | $t_{\rm exp}$ (sec) | Airmass | seeing (arcsec) | Galaxy | Date (y m d) | E | F | $t_{\rm exp}$ (sec) | Airmass | seeing (arcsec) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Willman 1 | 2016 02 07 | 2 | $V$ | 135 | 1.612 | 1.39 | Aquarius | 2016 08 12 | 4 | $i$ | 558 | 1.360 | 1.38 |
| Willman 1 | 2016 02 08 | 2 | $i$ | 90 | 1.105 | 1.13 | Aquarius | 2016 10 20 | 5 | $i$ | 2715 | 1.382 | 1.67 |
| Willman 1 | 2016 02 08 | 2 | $V$ | 90 | 1.116 | 1.52 | Aquarius | 2017 10 06 | 9 | $i$ | 555 | 1.362 | 1.78 |
| Willman 1 | 2016 06 14 | 3 | $i$ | 107 | 1.471 | 1.08 | Aquarius | 2017 10 08 | 9 | $V$ | 735 | 1.351 | 1.71 |
| Willman 1 | 2016 10 21 | 5 | $i$ | 45 | 1.496 | 1.41 | CVn I | 2016 02 07 | 2 | $i$ | 450 | 1.024 | 1.19 |
| Willman 1 | 2016 10 21 | 5 | $V$ | 45 | 1.445 | 1.76 | CVn I | 2016 02 07 | 2 | $V$ | 675 | 1.014 | 1.48 |
| Willman 1 | 2017 01 30 | 6 | $i$ | 45 | 1.192 | 2.46 | CVn I | 2016 06 14 | 3 | $i$ | 47 | 1.178 | 1.58 |
| Willman 1 | 2017 01 31 | 6 | $V$ | 45 | 1.081 | 2.57 | CVn I | 2016 08 12 | 4 | $i$ | 48 | 1.534 | 1.11 |
| Willman 1 | 2018 02 22 | 10 | $i$ | 90 | 1.081 | 2.47 | CVn I | 2016 08 13 | 4 | $V$ | 45 | 1.541 | 1.29 |
| WLM | 2016 10 20 | 5 | $i$ | 1095 | 1.399 | 1.46 | CVn I | 2017 02 01 | 6 | $i$ | 45 | 1.227 | 1.48 |
| WLM | 2016 10 20 | 5 | $V$ | 1455 | 1.446 | 1.65 | CVn I | 2017 08 02 | 7 | $i$ | 45 | 1.439 | 1.17 |
| WLM | 2016 10 06 | 9 | $i$ | 1095 | 1.474 | 1.45 | CVn I | 2017 08 02 | 7 | $V$ | 45 | 1.381 | 1.44 |
| Pegasus | 2016 06 14 | 3 | $i$ | 555 | 1.830 | 2.01 | CVn I | 2018 02 22 | 10 | $i$ | 45 | 1.007 | 2.18 |
| Pegasus | 2016 08 11 | 4 | $i$ | 555 | 1.256 | 1.49 | CVn I | 2018 02 22 | 10 | $V$ | 25 | 1.010 | 2.57 |
| Pegasus | 2016 08 11 | 4 | $V$ | 735 | 1.169 | 1.46 | CVn II | 2015 06 19 | 1 | $I$ | 660 | 1.087 | 0.82 |
| Pegasus | 2016 10 20 | 5 | $i$ | 915 | 1.041 | 1.59 | CVn II | 2015 06 19 | 1 | $V$ | 430 | 1.143 | 1.22 |
| Pegasus | 2016 10 20 | 5 | $V$ | 1095 | 1.030 | 1.60 | CVn II | 2016 02 08 | 2 | $i$ | 90 | 1.005 | 1.73 |
| Pegasus | 2017 09 03 | 8 | $i$ | 555 | 1.809 | 1.32 | CVn II | 2016 02 08 | 2 | $V$ | 135 | 1.005 | 1.65 |
| Pegasus | 2017 09 03 | 8 | $V$ | 735 | 1.568 | 1.50 | CVn II | 2016 02 10 | 2 | $i$ | 240 | 1.015 | 1.35 |
| Pegasus | 2017 10 07 | 9 | $i$ | 555 | 1.073 | 2.34 | CVn II | 2016 02 10 | 2 | $V$ | 360 | 1.022 | 1.40 |
| Pisces I | 2016 08 13 | 4 | $i$ | 555 | 1.225 | 1.48 | CVn II | 2016 06 14 | 3 | $i$ | 47 | 1.188 | 1.40 |
| Pisces I | 2016 10 20 | 5 | $i$ | 555 | 1.378 | 1.32 | CVn II | 2017 02 01 | 6 | $i$ | 45 | 1.127 | 1.58 |
| Pisces I | 2016 10 20 | 5 | $V$ | 735 | 1.527 | 1.66 | CVn II | 2018 02 22 | 10 | $i$ | 45 | 1.016 | 2.97 |
| Pisces I | 2017 01 29 | 6 | $i$ | 555 | 1.279 | 1.55 | CVn II | 2018 02 22 | 10 | $V$ | 60 | 1.009 | 2.87 |
| Pisces I | 2017 10 07 | 9 | $i$ | 555 | 1.477 | 1.66 | Coma Ber | 2015 06 20 | 1 | $I$ | 100 | 1.114 | 0.81 |
| Pisces II | 2015 06 17 | 1 | $I$ | 450 | 1.468 | 1.02 | Coma Ber | 2015 06 20 | 1 | $V$ | 270 | 1.231 | 1.18 |
| Pisces II | 2015 06 17 | 1 | $V$ | 630 | 1.341 | 1.29 | Coma Ber | 2016 02 08 | 2 | $i$ | 45 | 1.023 | 1.19 |
| Pisces II | 2016 06 15 | 3 | $i$ | 55 | 1.595 | 1.66 | Coma Ber | 2016 02 08 | 2 | $V$ | 45 | 1.033 | 1.52 |
| Pisces II | 2016 08 11 | 4 | $i$ | 72 | 1.502 | 1.34 | Coma Ber | 2016 02 10 | 2 | $i$ | 120 | 1.022 | 1.37 |
| Pisces II | 2016 08 11 | 4 | $V$ | 72 | 1.361 | 1.52 | Coma Ber | 2016 02 10 | 2 | $V$ | 120 | 1.030 | 1.30 |
| Pisces II | 2016 08 13 | 4 | $i$ | 47 | 1.553 | 1.43 | Coma Ber | 2016 06 14 | 3 | $i$ | 38 | 1.266 | 1.42 |
| Pisces II | 2016 10 21 | 5 | $i$ | 90 | 1.113 | 1.16 | Coma Ber | 2017 02 01 | 6 | $i$ | 36 | 1.227 | 1.58 |
| Pisces II | 2016 10 21 | 5 | $V$ | 135 | 1.101 | 1.55 | Coma Ber | 2017 02 01 | 6 | $V$ | 20 | 1.239 | 2.24 |
| Pisces II | 2017 10 07 | 9 | $i$ | 45 | 1.522 | 1.91 | Coma Ber | 2018 02 22 | 10 | $i$ | 36 | 1.007 | 2.64 |
| Segue I | 2016 02 08 | 2 | $i$ | 45 | 1.199 | 1.32 | Coma Ber | 2018 02 22 | 10 | $V$ | 36 | 1.004 | 2.80 |
| Segue I | 2016 02 08 | 2 | $V$ | 45 | 1.232 | 1.70 | Leo I | 2016 02 09 | 2 | $i$ | 135 | 1.109 | 1.01 |
| Segue I | 2016 02 09 | 2 | $i$ | 45 | 1.197 | 1.16 | Leo I | 2016 02 09 | 2 | $V$ | 180 | 1.089 | 1.15 |
| Segue I | 2016 02 09 | 2 | $V$ | 45 | 1.158 | 1.23 | Leo I | 2016 02 10 | 2 | $i$ | 180 | 1.245 | 1.37 |
| Segue I | 2016 06 14 | 3 | $i$ | 40 | 1.759 | 1.22 | Leo I | 2016 02 10 | 2 | $V$ | 240 | 1.280 | 1.47 |
| Segue I | 2016 10 20 | 5 | $i$ | 45 | 1.360 | 1.66 | Leo I | 2016 06 15 | 3 | $i$ | 25 | 2.825 | 1.31 |
| Segue I | 2017 01 29 | 6 | $i$ | 36 | 1.203 | 1.78 | Leo I | 2016 10 19 | 5 | $i$ | 135 | 1.381 | 1.66 |
| Segue I | 2017 01 31 | 6 | $V$ | 36 | 1.030 | 1.72 | Leo I | 2017 01 29 | 6 | $i$ | 35 | 1.317 | 1.98 |
| Segue I | 2018 02 22 | 10 | $i$ | 36 | 1.026 | 2.01 | Leo I | 2017 01 31 | 6 | $V$ | 73 | 1.044 | 1.57 |
| Segue II | 2016 02 08 | 2 | $i$ | 45 | 1.192 | 1.78 | Leo II | 2016 02 07 | 2 | $i$ | 90 | 1.022 | 1.01 |
| Segue II | 2016 10 19 | 5 | $i$ | 45 | 1.356 | 0.91 | Leo II | 2016 02 07 | 2 | $V$ | 135 | 1.039 | 1.22 |
| Segue II | 2016 10 19 | 5 | $V$ | 49 | 1.430 | 1.05 | Leo II | 2016 02 08 | 2 | $i$ | 90 | 1.209 | 1.07 |
| Segue II | 2017 01 29 | 6 | $i$ | 50 | 1.056 | 1.73 | Leo II | 2016 02 08 | 2 | $V$ | 135 | 1.250 | 1.01 |
| Segue II | 2017 09 01 | 8 | $i$ | 36 | 1.042 | 1.19 | Leo II | 2016 02 10 | 2 | $i$ | 240 | 1.262 | 1.00 |
| Segue II | 2017 09 01 | 8 | $V$ | 45 | 1.056 | 1.35 | Leo II | 2016 02 10 | 2 | $V$ | 360 | 1.307 | 1.37 |
| Segue II | 2017 10 07 | 9 | $i$ | 36 | 1.251 | 1.55 | Leo II | 2016 06 14 | 3 | $i$ | 47 | 1.610 | 1.44 |
| Segue III | 2015 06 17 | 1 | $I$ | 45 | 1.209 | 0.99 | Leo II | 2017 01 29 | 6 | $i$ | 68 | 1.135 | 1.55 |
| Segue III | 2015 06 17 | 1 | $V$ | 450 | 1.264 | 1.25 | Leo II | 2017 02 01 | 6 | $V$ | 63 | 1.227 | 2.08 |
| Segue III | 2016 06 13 | 3 | $i$ | 30 | 2.330 | 1.62 | Leo II | 2018 02 22 | 10 | $i$ | 15 | 1.008 | 2.54 |
| Segue III | 2016 06 13 | 3 | $V$ | 27 | 2.132 | 1.98 | Leo A | 2016 02 09 | 2 | $i$ | 540 | 1.252 | 1.56 |
| Segue III | 2016 08 10 | 4 | $i$ | 27 | 1.031 | 0.82 | Leo A | 2016 02 09 | 2 | $V$ | 720 | 1.180 | 1.69 |
| Segue III | 2016 08 10 | 4 | $V$ | 27 | 1.021 | 1.42 | Leo A | 2016 02 10 | 2 | $i$ | 600 | 1.192 | 1.68 |
| Segue III | 2016 08 13 | 4 | $i$ | 27 | 1.171 | 1.58 | Leo A | 2016 02 10 | 2 | $V$ | 900 | 1.143 | 1.67 |
| Segue III | 2016 10 21 | 5 | $i$ | 42 | 1.016 | 1.32 | Leo A | 2016 06 15 | 3 | $i$ | 555 | 2.050 | 1.20 |
| Segue III | 2016 10 21 | 5 | $V$ | 45 | 1.021 | 1.22 | Leo A | 2016 10 20 | 5 | $i$ | 555 | 1.448 | 1.87 |
| Segue III | 2017 08 02 | 7 | $i$ | 27 | 1.070 | 1.16 | Leo A | 2016 10 20 | 5 | $V$ | 735 | 1.322 | 1.84 |
| Segue III | 2017 08 02 | 7 | $V$ | 27 | 1.055 | 1.09 | Leo A | 2017 01 29 | 6 | $i$ | 555 | 1.049 | 1.56 |
| Segue III | 2017 10 07 | 9 | $i$ | 27 | 1.025 | 2.87 | Leo A | 2017 01 31 | 6 | $V$ | 735 | 1.041 | 1.86 |
| SAG dig | 2016 06 13 | 3 | $i$ | 719 | 1.711 | 2.61 | Leo A | 2018 02 22 | 10 | $i$ | 555 | 1.019 | 1.86 |
| SAG dig | 2016 08 09 | 4 | $i$ | 555 | 1.449 | 2.22 | Leo T | 2016 02 07 | 2 | $i$ | 270 | 1.141 | 1.23 |
| SAG dig | 2016 08 09 | 4 | $V$ | 735 | 1.460 | 2.38 | Leo T | 2016 02 07 | 2 | $V$ | 360 | 1.109 | 1.32 |
| SAG dig | 2016 08 10 | 4 | $i$ | 555 | 1.564 | 1.23 | Leo T | 2016 02 10 | 2 | $i$ | 360 | 1.092 | 1.60 |
| SAG dig | 2016 08 10 | 4 | $V$ | 735 | 1.471 | 1.64 | Leo T | 2016 02 10 | 2 | $V$ | 480 | 1.072 | 1.85 |
| SAG dig | 2016 08 12 | 4 | $i$ | 558 | 1.449 | 1.37 | Leo T | 2016 10 19 | 5 | $i$ | 285 | 1.267 | 1.50 |
| SAG dig | 2016 10 21 | 5 | $i$ | 2715 | 1.595 | 1.84 | Leo T | 2016 10 21 | 5 | $V$ | 360 | 1.455 | 1.77 |
| SAG dig | 2017 08 02 | 7 | $i$ | 555 | 1.453 | 1.44 | Leo T | 2017 01 29 | 6 | $i$ | 365 | 1.080 | 1.71 |
| SAG dig | 2017 08 02 | 7 | $V$ | 735 | 1.450 | 1.37 | Leo T | 2017 01 31 | 6 | $V$ | 375 | 1.071 | 1.90 |
| SAG dig | 2017 09 02 | 8 | $i$ | 555 | 1.457 | 1.08 | Leo T | 2018 02 22 | 10 | $i$ | 285 | 1.022 | 1.99 |
| SAG dig | 2017 09 02 | 8 | $V$ | 735 | 1.449 | 1.18 | Leo V | 2016 02 09 | 2 | $i$ | 90 | 1.150 | 1.13 |
| SAG dig | 2017 10 06 | 9 | $i$ | 555 | 1.511 | 1.61 | Leo V | 2016 02 09 | 2 | $V$ | 135 | 1.166 | 1.41 |
| SAG dig | 2017 10 08 | 9 | $V$ | 735 | 1.542 | 1.82 | Leo V | 2016 02 10 | 2 | $i$ | 140 | 1.169 | 1.33 |
| Aquarius | 2016 08 10 | 4 | $i$ | 555 | 1.618 | 1.22 | Leo V | 2016 02 10 | 2 | $V$ | 180 | 1.155 | 1.50 |
| Aquarius | 2016 08 11 | 4 | $V$ | 735 | 1.649 | 1.62 | Leo V | 2016 06 14 | 3 | $i$ | 45 | 1.299 | 1.04 |

| Galaxy | Date (y m d) | E | F | $t_{\rm exp}$ (sec) | Airmass | seeing (arcsec) | Galaxy | Date (y m d) | E | F | $t_{\rm exp}$ (sec) | Airmass | seeing (arcsec) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Leo V | 2017 01 30 | 6 | $i$ | 45 | 1.379 | 2.14 | Bootes II | 2017 08 01 | 7 | $V$ | 45 | 1.718 | 1.66 |
| Leo V | 2017 02 01 | 6 | $V$ | 63 | 1.327 | 2.08 | Bootes III | 2016 02 09 | 2 | $i$ | 45 | 1.001 | 0.96 |
| Leo V | 2018 02 22 | 10 | $i$ | 45 | 1.124 | 1.88 | Bootes III | 2016 02 09 | 2 | $V$ | 45 | 1.003 | 1.15 |
| Leo IV | 2016 02 09 | 2 | $i$ | 90 | 1.217 | 1.08 | Bootes III | 2016 06 13 | 3 | $i$ | 58 | 1.007 | 1.12 |
| Leo IV | 2016 02 09 | 2 | $V$ | 135 | 1.241 | 1.06 | Bootes III | 2016 06 13 | 3 | $V$ | 42 | 1.013 | 1.13 |
| Leo IV | 2016 02 10 | 2 | $i$ | 120 | 1.220 | 1.13 | Bootes III | 2016 08 12 | 4 | $i$ | 39 | 1.580 | 1.12 |
| Leo IV | 2016 02 10 | 2 | $V$ | 180 | 1.239 | 1.75 | Bootes III | 2016 08 13 | 4 | $V$ | 45 | 1.660 | 1.31 |
| Leo IV | 2016 06 14 | 3 | $i$ | 45 | 1.382 | 1.02 | Bootes III | 2017 01 29 | 6 | $i$ | 36 | 1.002 | 2.31 |
| Leo IV | 2017 01 30 | 6 | $i$ | 45 | 1.375 | 3.33 | Bootes III | 2017 08 01 | 7 | $i$ | 36 | 1.633 | 1.55 |
| Leo IV | 2017 02 01 | 6 | $V$ | 63 | 1.325 | 1.62 | Bootes III | 2017 08 01 | 7 | $V$ | 36 | 1.732 | 1.73 |
| Leo IV | 2018 02 22 | 10 | $i$ | 45 | 1.148 | 1.91 | Hercules | 2015 06 18 | 1 | $I$ | 90 | 1.165 | 0.89 |
| Leo P | 2016 02 10 | 2 | $i$ | 2400 | 1.066 | 1.46 | Hercules | 2015 06 18 | 1 | $V$ | 450 | 1.274 | 0.82 |
| Leo P | 2016 02 10 | 2 | $V$ | 2250 | 1.027 | 1.57 | Hercules | 2016 02 09 | 2 | $i$ | 63 | 1.187 | 1.12 |
| UMa I | 2016 02 09 | 2 | $i$ | 45 | 1.206 | 1.12 | Hercules | 2016 02 09 | 2 | $V$ | 90 | 1.159 | 1.25 |
| UMa I | 2016 02 09 | 2 | $V$ | 45 | 1.186 | 1.37 | Hercules | 2016 06 13 | 3 | $i$ | 50 | 1.088 | 1.13 |
| UMa I | 2016 02 10 | 2 | $i$ | 120 | 1.144 | 1.06 | Hercules | 2016 06 14 | 3 | $i$ | 47 | 1.042 | 1.35 |
| UMa I | 2016 02 10 | 2 | $V$ | 120 | 1.155 | 1.09 | Hercules | 2016 08 09 | 4 | $i$ | 45 | 1.059 | 1.44 |
| UMa I | 2016 06 14 | 3 | $i$ | 49 | 1.465 | 1.01 | Hercules | 2016 08 09 | 4 | $V$ | 45 | 1.070 | 2.66 |
| UMa I | 2016 10 21 | 5 | $i$ | 45 | 1.544 | 1.41 | Hercules | 2016 08 10 | 4 | $i$ | 45 | 1.059 | 0.99 |
| UMa I | 2016 10 21 | 5 | $V$ | 45 | 1.490 | 1.97 | Hercules | 2016 08 11 | 4 | $i$ | 27 | 1.103 | 1.02 |
| UMa I | 2017 01 29 | 6 | $i$ | 45 | 1.227 | 1.42 | Hercules | 2016 08 11 | 4 | $V$ | 51 | 1.126 | 1.15 |
| UMa I | 2017 01 31 | 6 | $V$ | 45 | 1.090 | 2.05 | Hercules | 2016 08 12 | 4 | $i$ | 48 | 1.304 | 1.02 |
| UMa I | 2018 02 22 | 10 | $i$ | 45 | 1.087 | 2.28 | Hercules | 2016 10 22 | 5 | $i$ | 63 | 1.873 | 1.68 |
| UMa II | 2016 02 07 | 2 | $i$ | 45 | 1.431 | 1.19 | Hercules | 2017 02 01 | 6 | $i$ | 45 | 1.127 | 1.29 |
| UMa II | 2016 02 07 | 2 | $V$ | 45 | 1.404 | 1.52 | Hercules | 2017 08 02 | 7 | $i$ | 45 | 1.152 | 1.21 |
| UMa II | 2016 02 10 | 2 | $i$ | 120 | 1.277 | 1.40 | Hercules | 2017 08 02 | 7 | $V$ | 45 | 1.127 | 1.46 |
| UMa II | 2016 02 10 | 2 | $V$ | 120 | 1.267 | 1.43 | Hercules | 2017 09 03 | 8 | $i$ | 555 | 1.198 | 0.96 |
| UMa II | 2016 10 20 | 5 | $i$ | 45 | 1.406 | 1.35 | Hercules | 2017 09 03 | 8 | $V$ | 735 | 1.281 | 1.00 |
| UMa II | 2016 10 20 | 5 | $V$ | 45 | 1.379 | 1.70 | Ursa minor | 2015 06 20 | 1 | $I$ | 130 | 1.284 | 1.02 |
| UMa II | 2017 01 29 | 6 | $i$ | 36 | 1.230 | 1.17 | Ursa minor | 2015 06 20 | 1 | $V$ | 450 | 1.309 | 1.12 |
| UMa II | 2017 01 31 | 6 | $V$ | 36 | 1.225 | 1.83 | Ursa minor | 2016 02 10 | 2 | $i$ | 165 | 1.286 | 1.41 |
| UMa II | 2017 10 06 | 9 | $i$ | 36 | 1.490 | 1.40 | Ursa minor | 2016 02 10 | 2 | $V$ | 165 | 1.282 | 1.55 |
| UMa II | 2017 10 09 | 9 | $V$ | 36 | 1.394 | 1.27 | Ursa minor | 2016 06 13 | 3 | $i$ | 40 | 1.276 | 0.86 |
| UMa II | 2018 02 22 | 10 | $i$ | 36 | 1.210 | 1.81 | Ursa minor | 2016 08 12 | 4 | $i$ | 78 | 1.447 | 1.12 |
| UMa II | 2018 02 24 | 10 | $V$ | 36 | 1.272 | 3.99 | Ursa minor | 2016 08 12 | 4 | $V$ | 36 | 1.474 | 1.73 |
| Bootes I | 2015 06 18 | 1 | $I$ | 50 | 1.032 | 0.92 | Ursa minor | 2016 10 22 | 5 | $i$ | 45 | 2.083 | 1.48 |
| Bootes I | 2015 06 18 | 1 | $V$ | 540 | 1.046 | 1.55 | Ursa minor | 2017 02 01 | 6 | $i$ | 36 | 1.227 | 0.92 |
| Bootes I | 2016 02 09 | 2 | $i$ | 45 | 1.049 | 1.17 | Ursa minor | 2017 08 02 | 7 | $i$ | 36 | 1.385 | 1.09 |
| Bootes I | 2016 02 09 | 2 | $V$ | 45 | 1.041 | 1.25 | Ursa minor | 2017 08 02 | 7 | $V$ | 36 | 1.366 | 1.29 |
| Bootes I | 2016 06 14 | 3 | $i$ | 38 | 1.130 | 1.45 | Draco | 2015 06 19 | 1 | $I$ | 210 | 1.192 | 0.92 |
| Bootes I | 2016 08 10 | 4 | $i$ | 45 | 1.572 | 1.14 | Draco | 2015 06 19 | 1 | $V$ | 420 | 1.247 | 1.15 |
| Bootes I | 2016 08 13 | 4 | $V$ | 36 | 1.601 | 1.23 | Draco | 2016 06 13 | 3 | $i$ | 56 | 1.193 | 1.73 |
| Bootes I | 2017 02 01 | 6 | $i$ | 36 | 1.227 | 1.72 | Draco | 2016 06 13 | 3 | $V$ | 45 | 1.178 | 2.38 |
| Bootes I | 2017 08 01 | 7 | $i$ | 36 | 1.422 | 1.42 | Draco | 2016 08 09 | 4 | $i$ | 135 | 1.150 | 2.51 |
| Bootes I | 2017 08 01 | 7 | $V$ | 36 | 1.492 | 1.67 | Draco | 2016 08 09 | 4 | $V$ | 135 | 1.153 | 2.84 |
| Bootes II | 2015 06 19 | 1 | $I$ | 95 | 1.215 | 0.76 | Draco | 2016 08 10 | 4 | $i$ | 45 | 1.149 | 1.22 |
| Bootes II | 2015 06 19 | 1 | $V$ | 380 | 1.327 | 1.32 | Draco | 2016 08 11 | 4 | $i$ | 27 | 1.145 | 0.86 |
| Bootes II | 2016 02 09 | 2 | $i$ | 54 | 1.043 | 1.06 | Draco | 2016 08 11 | 4 | $V$ | 51 | 1.146 | 1.13 |
| Bootes II | 2016 02 09 | 2 | $V$ | 72 | 1.041 | 1.19 | Draco | 2016 08 12 | 4 | $i$ | 48 | 1.173 | 1.06 |
| Bootes II | 2016 06 15 | 3 | $i$ | 30 | 1.122 | 1.25 | Draco | 2016 10 20 | 5 | $i$ | 45 | 1.485 | 1.63 |
| Bootes II | 2016 08 12 | 4 | $i$ | 48 | 1.647 | 1.09 | Draco | 2017 02 01 | 6 | $i$ | 45 | 1.227 | 1.02 |
| Bootes II | 2016 08 13 | 4 | $V$ | 45 | 1.752 | 1.24 | Draco | 2017 08 02 | 7 | $i$ | 45 | 1.151 | 1.07 |
| Bootes II | 2017 01 29 | 6 | $i$ | 45 | 1.047 | 3.30 | Draco | 2017 08 02 | 7 | $V$ | 45 | 1.148 | 0.93 |
| Bootes II | 2017 08 01 | 7 | $i$ | 45 | 1.616 | 1.49 | Draco | 2017 10 07 | 9 | $i$ | 45 | 1.331 | 1.63 |