

TABLE OF OBSERVING ACTIVE REGIONS IN 2016 (Ca II K)

This document contains summary informations about events observed in Valašské Meziříčí Observatory.

We observe with these telescopes: refractor (diameter lens 80 mm, focal length 1 200 mm), telescope has ethalon CaK, 2,4 Å
- synoptic telescope CaK/B1200 60/500 mm, 2,4Å

Data are in fits format and available in our archiv.

If you want use this data, please write on email: slunecni.skupina@pozorovanislunce.eu or info@astrovm.cz.

LEGEND

criterion of quality: 1 - excellent data
2 - useful data - interference patterns, high clouds, fuzzy
3 - bad data - without flat field, with clouds, really bad image

number: number images in the archiv

series: number of series in observing day

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| DATE | YEAR | MONTH | DAY | REGION | SINCE | TO | NUMBER | SERIES | QUALITY |
|----------|------|-------|-----|--------|-------|-------|--------|--------|---------|
| 20160205 | 2016 | 02 | 05 | 12494 | 15:13 | 15:14 | 4 | 1 | 2- |
| 20160317 | 2016 | 03 | 17 | 12519 | 10:09 | 10:09 | 4 | 1 | 2- |
| | | | | 12523 | 10:13 | 10:13 | 4 | 1 | 2 |
| | | | | 12524 | 10:23 | 10:23 | 4 | 1 | 2- |
| | | | | 12525 | 10:19 | 10:19 | 4 | 1 | 2 |
| 20160327 | 2016 | 03 | 27 | 12524 | 09:45 | 11:32 | 7 | 2 | 1- |
| | | | | 12525 | 09:41 | 12:26 | 17 | 5 | 2+, 2 |
| 20160328 | 2016 | 03 | 28 | 12526 | 10:21 | 11:50 | 9 | 3 | 2+, 2 |
| 20160331 | 2016 | 03 | 31 | 12526 | 13:36 | 15:00 | 10 | 3 | 1-, 2+ |
| 20160402 | 2016 | 04 | 02 | 12526 | 07:37 | 08:47 | 7 | 2 | 2- |
| 20160404 | 2016 | 04 | 04 | 12526 | 09:01 | 09:01 | 3 | 1 | 2- |
| | | | | 12527 | 08:58 | 08:59 | 3 | 1 | 2+ |
| | | | | 12528 | 08:55 | 10:48 | 10 | 3 | 1- |
| 20160405 | 2016 | 04 | 05 | 12526 | 07:52 | 10:18 | 7 | 2 | 1 |
| | | | | 12528 | 07:58 | 10:12 | 6 | 2 | 1 |
| 20160413 | 2016 | 04 | 13 | 12529 | 09:18 | 12:21 | 8 | 2 | 2 |
| 20160415 | 2016 | 04 | 15 | 12529 | 08:13 | 10:21 | 11 | 3 | 2+ |
| | | | | 12530 | 08:33 | 10:24 | 7 | 2 | 2+ |
| | | | | 12531 | 08:29 | 10:28 | 8 | 2 | 2+ |
| 20160417 | 2016 | 04 | 17 | 12529 | 09:57 | 11:04 | 7 | 2 | 2 |
| | | | | 12532 | 10:05 | 10:06 | 4 | 1 | 2 |
| | | | | CWDISC | 09:26 | 10:53 | 6 | 2 | 2 |
| 20160419 | 2016 | 04 | 19 | 12529 | 06:53 | 08:08 | 7 | 2 | 2 |
| | | | | 12532 | 07:03 | 08:11 | 6 | 2 | 2 |
| | | | | CWDISC | 07:57 | 07:57 | 4 | 1 | 2 |
| 20160421 | 2016 | 04 | 21 | 12532 | 09:43 | 09:44 | 4 | 1 | 2- |
| | | | | 12533 | 09:49 | 09:50 | 3 | 1 | 2 |
| 20160422 | 2016 | 04 | 22 | 12533 | 07:13 | 08:52 | 10 | 3 | 2, 2- |
| | | | | CWDISC | 07:37 | 10:38 | 16 | 4 | 2 |
| 20160426 | 2016 | 04 | 26 | 12533 | 07:16 | 08:14 | 8 | 2 | 2+ |
| | | | | 12535 | 07:00 | 08:20 | 8 | 2 | 2, 2- |
| | | | | 12536 | 07:00 | 08:20 | 8 | 2 | 2, 2- |

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| DATE | YEAR | MONTH | DAY | REGION | SINCE | TO | NUMBER | SERIES | QUALITY |
|----------|------|-------|-----|--------|-------|-------|--------|--------|---------|
| 20160426 | 2016 | 04 | 26 | CWDISC | 07:40 | 08:29 | 6 | 2 | 1- |
| 20160428 | 2016 | 04 | 28 | 12533 | 07:30 | 07:30 | 3 | 1 | 2 |
| | | | | 12535 | 07:25 | 07:27 | 4 | 1 | 1- |
| | | | | 12536 | 07:25 | 07:27 | 4 | 1 | 1- |
| | | | | 12537 | 07:37 | 07:37 | 3 | 1 | 1- |
| | | | | CWDISC | 07:09 | 08:11 | 8 | 2 | 1 |
| 20160429 | 2016 | 04 | 29 | 12533 | 07:53 | 09:42 | 8 | 2 | 1, 2 |
| | | | | 12535 | 09:19 | 09:20 | 4 | 1 | 2 |
| | | | | 12536 | 07:46 | 13:37 | 11 | 3 | 1, 2- |
| | | | | 12537 | 07:53 | 09:42 | 8 | 2 | 1, 2 |
| | | | | 12539 | 08:33 | 08:33 | 4 | 1 | 2 |
| | | | | CWDISC | 09:03 | 12:59 | 19 | 5 | 1, 2+ |
| 20160430 | 2016 | 04 | 30 | 12533 | 08:14 | 08:14 | 4 | 1 | 1 |
| | | | | 12535 | 09:19 | 09:19 | 4 | 1 | 1- |
| | | | | 12536 | 08:37 | 09:26 | 8 | 2 | 2- |
| | | | | 12539 | 08:31 | 08:32 | 3 | 1 | 1 |
| | | | | CWDISC | 09:01 | 11:17 | 11 | 3 | 2+ |
| 20160506 | 2016 | 05 | 06 | 12536 | 07:17 | 07:17 | 4 | 1 | 2 |
| | | | | 12539 | 07:47 | 07:47 | 3 | 1 | 1 |
| | | | | 12541 | 07:57 | 07:58 | 4 | 1 | 1 |
| | | | | 12542 | 08:02 | 08:02 | 4 | 1 | 2+ |
| | | | | CWDISC | 07:24 | 10:11 | 12 | 3 | 1, 2 |
| 20160507 | 2016 | 05 | 07 | 12541 | 07:11 | 10:53 | 16 | 4 | 1, 2+ |
| | | | | 12542 | 07:15 | 11:03 | 16 | 4 | 1, 2- |
| | | | | CWDISC | 07:46 | 11:05 | 15 | 4 | 1, 2+ |
| 20160509 | 2016 | 05 | 09 | CWDISC | 09:07 | 16:57 | 82 | 22 | 2 |
| 20160510 | 2016 | 05 | 10 | 12542 | 07:43 | 07:43 | 3 | 1 | 1- |
| | | | | 12543 | 07:48 | 07:48 | 4 | 1 | 1- |
| 20160511 | 2016 | 05 | 11 | 12542 | 11:50 | 11:50 | 4 | 1 | 1- |
| | | | | 12543 | 12:01 | 12:01 | 4 | 1 | 2+ |
| | | | | 12544 | 12:06 | 12:07 | 4 | 1 | 2+ |
| | | | | CWDISC | 12:24 | 13:16 | 8 | 2 | 1 |

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| DATE | YEAR | MONTH | DAY | REGION | SINCE | TO | NUMBER | SERIES | QUALITY |
|----------|------|-------|-----|--------|-------|-------|--------|--------|---------|
| 20160512 | 2016 | 05 | 12 | 12542 | 08:41 | 08:41 | 3 | 1 | 1 |
| | | | | 12543 | 08:45 | 08:45 | 3 | 1 | 2+ |
| | | | | 12544 | 08:49 | 08:50 | 4 | 1 | 1 |
| 20160521 | 2016 | 05 | 21 | 12546 | 08:53 | 09:31 | 6 | 2 | 2+, 2 |
| 20160522 | 2016 | 05 | 22 | 12546 | 12:01 | 12:53 | 6 | 2 | 2 |
| 20160523 | 2016 | 05 | 23 | 12546 | 07:01 | 12:45 | 17 | 5 | 2+, 2 |
| | | | | CWDISC | 07:22 | 12:24 | 27 | 7 | 2 |
| 20160525 | 2016 | 05 | 25 | 12546 | 15:47 | 15:47 | 3 | 1 | 2 |
| | | | | 12548 | 15:49 | 15:49 | 4 | 1 | 2 |
| 20160530 | 2016 | 05 | 30 | CWDISC | 08:31 | 13:57 | 17 | 5 | 1- |
| 20160531 | 2016 | 05 | 31 | CWDISC | 09:53 | 15:27 | 23 | 6 | 2+ |
| 20160606 | 2016 | 06 | 06 | CWDISC | 08:02 | 13:57 | 23 | 6 | 2+ |
| 20160607 | 2016 | 06 | 07 | CWDISC | 06:47 | 14:20 | 36 | 9 | 2 |
| 20160610 | 2016 | 06 | 10 | 12552 | 07:38 | 08:45 | 8 | 2 | 2 |
| | | | | CWDISC | 07:16 | 08:36 | 7 | 2 | 2+ |
| 20160614 | 2016 | 06 | 14 | 12553 | 07:03 | 08:42 | 8 | 2 | 1-, 2 |
| | | | | 12554 | 07:00 | 08:37 | 8 | 2 | 1, 2+ |
| | | | | CWDISC | 06:36 | 08:30 | 12 | 3 | 1- |
| 20160616 | 2016 | 06 | 16 | 12553 | 08:55 | 10:32 | 8 | 2 | 1- |
| | | | | 12555 | 08:59 | 10:35 | 8 | 2 | 2+ |
| | | | | CWDISC | 07:27 | 12:23 | 19 | 5 | 2+ |
| 20160618 | 2016 | 06 | 18 | 12553 | 09:22 | 09:55 | 8 | 2 | 2 |
| | | | | 12556 | 09:27 | 09:59 | 8 | 2 | 2 |
| | | | | CWDISC | 09:09 | 09:47 | 8 | 2 | 2+ |
| 20160622 | 2016 | 06 | 22 | CWDISC | 08:43 | 12:04 | 6 | 2 | 2, 2- |
| 20160623 | 2016 | 06 | 23 | CWDISC | 07:05 | 10:57 | 10 | 3 | 1- |
| 20160624 | 2016 | 06 | 24 | CWDISC | 06:53 | 11:31 | 9 | 3 | 1- |
| 20160629 | 2016 | 06 | 29 | CWDISC | 07:34 | 10:13 | 6 | 2 | 1- |
| 20160630 | 2016 | 06 | 30 | CWDISC | 07:12 | 12:32 | 24 | 6 | 1- |
| 20160701 | 2016 | 07 | 01 | CWDISC | 07:12 | 09:48 | 6 | 2 | 1- |
| 20160702 | 2016 | 07 | 02 | CWDISC | 07:45 | 10:07 | 9 | 3 | 1- |
| 20160703 | 2016 | 07 | 03 | CWDISC | 11:56 | 11:56 | 4 | 1 | 2+ |

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| DATE | YEAR | MONTH | DAY | REGION | SINCE | TO | NUMBER | SERIES | QUALITY |
|----------|------|-------|-----|--------|-------|-------|--------|--------|---------|
| 20160704 | 2016 | 07 | 04 | CWDISC | 06:07 | 14:05 | 24 | 8 | 2 |
| 20160705 | 2016 | 07 | 05 | CWDISC | 06:37 | 11:50 | 18 | 6 | 1, 2 |
| 20160707 | 2016 | 07 | 07 | 12561 | 09:56 | 11:52 | 6 | 2 | 2 |
| | | | | 12562 | 08:25 | 11:56 | 10 | 3 | 3+ |
| | | | | CWDISC | 06:43 | 13:57 | 24 | 8 | 2, 2- |
| 20160708 | 2016 | 07 | 08 | CWDISC | 08:35 | 08:35 | 3 | 1 | 2+ |
| 20160709 | 2016 | 07 | 09 | CWDISC | 09:38 | 10:51 | 6 | 2 | 3 |
| 20160710 | 2016 | 07 | 10 | CWDISC | 10:06 | 13:01 | 12 | 4 | 2 |
| 20160711 | 2016 | 07 | 11 | 12562 | 07:01 | 08:58 | 6 | 2 | 2 |
| | | | | 12563 | 06:56 | 08:49 | 6 | 2 | 2- |
| | | | | 12564 | 06:50 | 09:03 | 6 | 2 | 2- |
| | | | | CWDISC | 06:35 | 10:41 | 18 | 5 | 1, 2- |
| 20160712 | 2016 | 07 | 12 | CWDISC | 11:17 | 11:17 | 3 | 1 | 1 |
| 20160713 | 2016 | 07 | 13 | 12562 | 12:32 | 12:32 | 3 | 1 | 2- |
| | | | | 12564 | 12:28 | 12:28 | 3 | 1 | 2 |
| | | | | 12565 | 12:23 | 12:24 | 3 | 1 | 2 |
| | | | | CWDISC | 12:31 | 12:31 | 3 | 1 | 1- |
| 20160720 | 2016 | 07 | 20 | CWDISC | 11:43 | 11:43 | 3 | 1 | 1 |
| 20160721 | 2016 | 07 | 21 | CWDISC | 06:49 | 12:42 | 12 | 4 | 1, 2 |
| 20160722 | 2016 | 07 | 22 | CWDISC | 07:02 | 12:58 | 15 | 5 | 1 |
| 20160723 | 2016 | 07 | 23 | CWDISC | 07:10 | 15:30 | 24 | 8 | 1 |
| 20160725 | 2016 | 07 | 25 | CWDISC | 11:04 | 14:58 | 12 | 4 | 1- |
| 20160726 | 2016 | 07 | 26 | CWDISC | 09:31 | 15:28 | 18 | 6 | 2 |
| 20160727 | 2016 | 07 | 27 | CWDISC | 06:36 | 09:32 | 9 | 3 | 1- |
| 20160729 | 2016 | 07 | 29 | 12570 | 08:05 | 08:05 | 4 | 1 | 1 |
| | | | | CWDISC | 07:49 | 07:49 | 4 | 1 | 1 |
| 20160730 | 2016 | 07 | 30 | 12570 | 11:07 | 12:25 | 6 | 2 | 1, 2 |
| | | | | CWDISC | 07:06 | 07:06 | 3 | 1 | 1 |
| 20160802 | 2016 | 08 | 02 | CWDISC | 07:02 | 14:00 | 12 | 4 | 1- |
| 20160804 | 2016 | 08 | 04 | CWDISC | 11:49 | 11:49 | 3 | 1 | 2+ |
| 20160805 | 2016 | 08 | 05 | CWDISC | 07:27 | 11:40 | 12 | 4 | 1, 2 |
| 20160807 | 2016 | 08 | 07 | CWDISC | 10:05 | 16:02 | 21 | 7 | 2+ |

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| DATE | YEAR | MONTH | DAY | REGION | SINCE | TO | NUMBER | SERIES | QUALITY |
|----------|------|-------|-----|--------|-------|-------|--------|--------|---------|
| 20160808 | 2016 | 08 | 08 | 12571 | 12:11 | 16:06 | 9 | 2 | 1-, 2+ |
| | | | | 12573 | 14:27 | 14:27 | 3 | 1 | 2 |
| | | | | 12574 | 14:27 | 14:27 | 3 | 1 | 2 |
| | | | | CWDISC | 06:54 | 15:55 | 24 | 8 | 1 |
| 20160812 | 2016 | 08 | 12 | CWDISC | 11:26 | 12:52 | 6 | 2 | 1, 2 |
| 20160814 | 2016 | 08 | 14 | CWDISC | 08:02 | 14:43 | 18 | 6 | 1, 2 |
| 20160815 | 2016 | 08 | 15 | CWDISC | 07:14 | 15:04 | 28 | 9 | , 2 |
| 20160817 | 2016 | 08 | 17 | 12576 | 13:16 | 13:16 | 4 | 1 | 2- |
| | | | | 12578 | 13:12 | 13:13 | 4 | 1 | 2- |
| | | | | CWDISC | 12:03 | 12:56 | 8 | 2 | 1- |
| 20160819 | 2016 | 08 | 19 | CWDISC | 08:17 | 08:17 | 4 | 1 | 1 |
| 20160823 | 2016 | 08 | 23 | 12579 | 08:33 | 08:33 | 3 | 1 | 2 |
| | | | | 12580 | 09:37 | 09:38 | 3 | 1 | 1 |
| | | | | CWDISC | 08:30 | 12:46 | 12 | 3 | 1- |
| 20160825 | 2016 | 08 | 25 | CWDISC | 07:16 | 10:15 | 11 | 3 | 1, 1- |
| 20160827 | 2016 | 08 | 27 | 12579 | 11:31 | 11:31 | 4 | 1 | 2+ |
| | | | | 12580 | 06:58 | 11:25 | 11 | 3 | 2, 2- |
| | | | | 12581 | 06:52 | 12:57 | 16 | 4 | 1+, 2+ |
| | | | | CWDISC | 07:5 | 13:15 | 24 | 6 | 2 |
| 20160828 | 2016 | 08 | 28 | 12580 | 08:42 | 08:42 | 4 | 1 | 1- |
| | | | | 12581 | 08:35 | 08:36 | 4 | 1 | 2+ |
| | | | | 12582 | 08:39 | 08:39 | 4 | 1 | 2+ |
| | | | | CWDISC | 09:06 | 13:19 | 15 | 4 | 1- |
| 20160831 | 2016 | 08 | 31 | 12580 | 10:27 | 10:27 | 3 | 1 | 2- |
| | | | | 12581 | 10:36 | 10:37 | 3 | 1 | 2- |
| | | | | 12582 | 08:37 | 08:38 | 3 | 1 | 1- |
| | | | | 12584 | 08:45 | 10:20 | 6 | 2 | 2 |
| | | | | CWDISC | 11:57 | 12:44 | 8 | 2 | 2 |
| 20160901 | 2016 | 09 | 01 | 12580 | 10:38 | 10:38 | 4 | 1 | 2- |
| | | | | 12581 | 11:02 | 12:16 | 6 | 2 | 2+ |
| | | | | 12584 | 09:27 | 09:27 | 4 | 1 | 1- |
| | | | | 12585 | 08:50 | 12:06 | 7 | 2 | 1 |

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| DATE | YEAR | MONTH | DAY | REGION | SINCE | TO | NUMBER | SERIES | QUALITY |
|----------|------|-------|-----|--------|-------|-------|--------|--------|---------|
| 20160901 | 2016 | 09 | 01 | 12586 | 12:35 | 12:36 | 3 | 1 | 1- |
| | | | | CWDISC | 09:24 | 13:53 | 20 | 5 | 1+ |
| 20160904 | 2016 | 09 | 04 | CWDISC | 09:35 | 10:06 | 8 | 2 | 1- |
| 20160908 | 2016 | 09 | 08 | CWDISC | 12:25 | 13:16 | 8 | 2 | 1 |
| 20160909 | 2016 | 09 | 09 | 12585 | 07:30 | 10:35 | 15 | 4 | 2 |
| | | | | 12588 | 07:30 | 10:35 | 15 | 4 | 2 |
| | | | | 12589 | 08:20 | 10:38 | 8 | 2 | 1- |
| | | | | CWDISC | 07:07 | 12:49 | 28 | 7 | 1 |
| 20160911 | 2016 | 09 | 11 | 12585 | 08:04 | 09:00 | 8 | 2 | 1 |
| | | | | 12588 | 08:04 | 09:00 | 8 | 2 | 1 |
| | | | | 12589 | 08:00 | 08:57 | 8 | 2 | 1 |
| | | | | 12591 | 08:08 | 08:53 | 8 | 2 | 1 |
| | | | | CWDISC | 08:32 | 09:29 | 8 | 2 | 1- |
| 20160913 | 2016 | 09 | 13 | 12589 | 08:10 | 08:10 | 3 | 1 | 3+ |
| | | | | 12591 | 08:17 | 08:17 | 3 | 1 | 2- |