

Result of the IMO Video Meteor Network – August 2018

Sirko Molau, Abenstalstr. 13b, 84072 Seysdorf

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In August, the number of IMO network video cameras grew to 85 again. Jure Zakrajšek started to operate his second camera PETKA, which is just like the first one a Mintron with a 8mm f/0.8 Computar lens. During the Perseids, Peter Slansky experimented with a Sony $\alpha 7S$ to determine the population index of the shower – also his HD video data were analyzed in a complex multi-pass process with MetRec and inserted into the video database.

The weather in August was nearly perfect. Looking at the statistics we see only a few individual cameras which were for technical reasons not constantly in operation, and a short phase of instable weather around August 25. Other than this, all cameras were in operation without any longer break. In all days but five, almost 70 IMO network cameras scanned the night sky. Highlight was August 22/23, when 81 of 85 cameras managed to capture meteors, but even at the worst day of the month more than half of all cameras were in operation.

65 cameras managed to be observed in twenty or more observing nights, 23 of these even in 30 or more nights. So, it is no surprise that the effective observing time summed to overall more than 13,100 hours, which is our best August outcome ever. We recorded 88,000 meteors, which is slightly less than in 2015 and 2016. This implies, that the average rate of 6.7 meteors per hour was below the average of previous years. This in turn is surprising since the Perseid peak coincided roughly with new moon. Our experience from previous years is, that the flux density is by tendency higher in years with new moon and dark skies, and it is lower in years with full moon illuminated skies (because of systematic effects in the limiting magnitude determination algorithm).

Figure 1 shows the activity profile of the Perseids close to the maximum, compared to the average Perseid rate 2011-2017 (without 2016). The flux density of August 11/12 is indeed a little, of August 12/13 significantly below the long-term average.

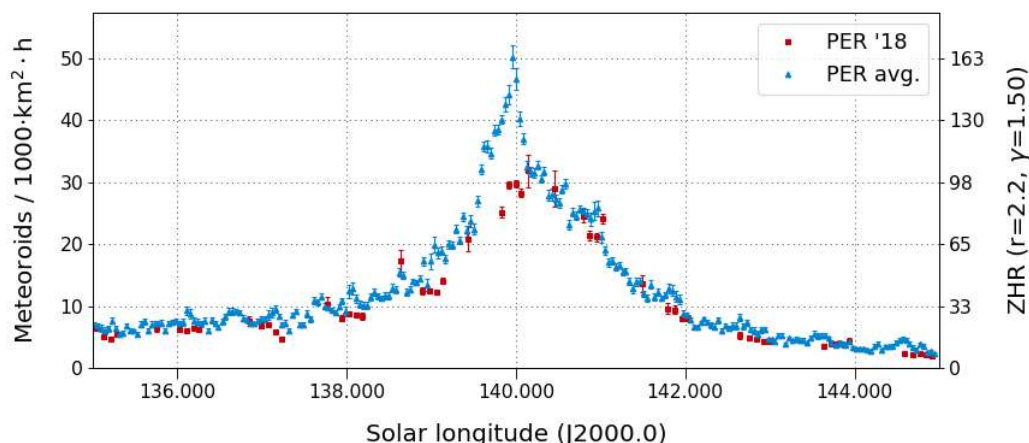


Figure 1: Flux density profile of the Perseids 2018 (red) and in the average of 2011-2017 (without 2016, blue), derived from video data of the IMO Network.

Even if we consider only the years 2012 and 2015 with similar good lunar conditions, and if we restrict the analysis to cameras, which were active in all three years, the picture does not change: The activity level in 2018 remains clearly below average (figure 2).

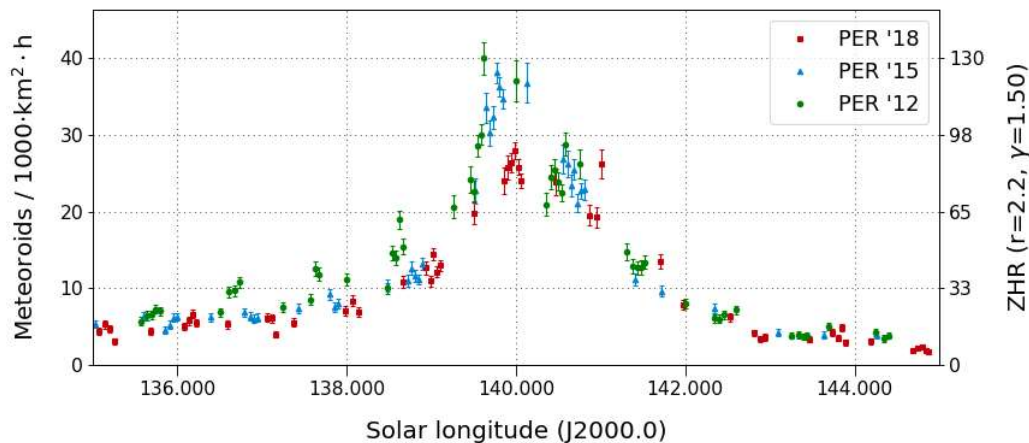


Figure 2: Comparison of the Perseid flux density in moon-free years (2012, 2015, 2018) from a subset of cameras that was active in all three years.

Let's finally compare our data set with visual Perseid observations of 2018. Figure 3 contrasts the video profile from the IMO network with observation from the IMO Visual Meteor Database, which were collected via the online report form. Both profiles look similar, and also visual observations revealed a mediocre maximum with zenithal hourly rates below 100.

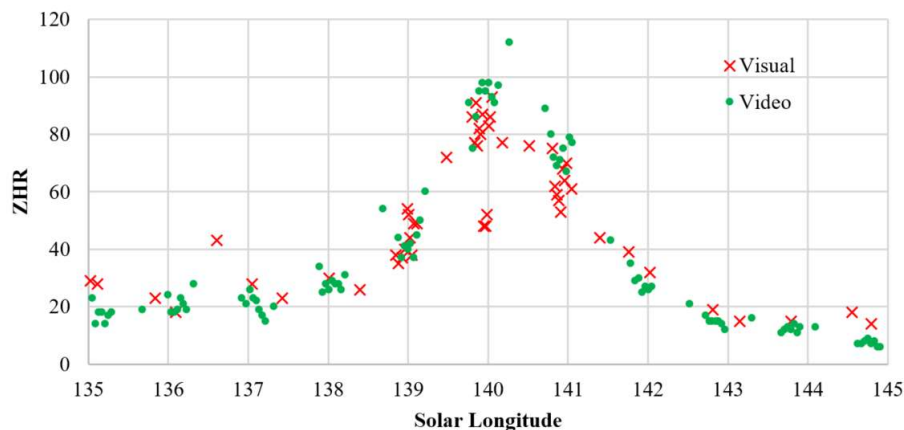


Figure 3: Comparison of the zenithal hourly rate of the Perseids 2018 based on visual observations of IMO (red crosses) and video data of the IMO Network (green dots).

The population index of the Perseids (figure 4) remained unremarkable. Before the peak, it scattered around values of $r=2,05$, during the maximum and thereafter it fell to values near $r=1,85$. At the same time interval, the average sporadic population index was $r=2.85$. The values are comparable with 2015 and higher than in 2017, which matches to our previous experiences.

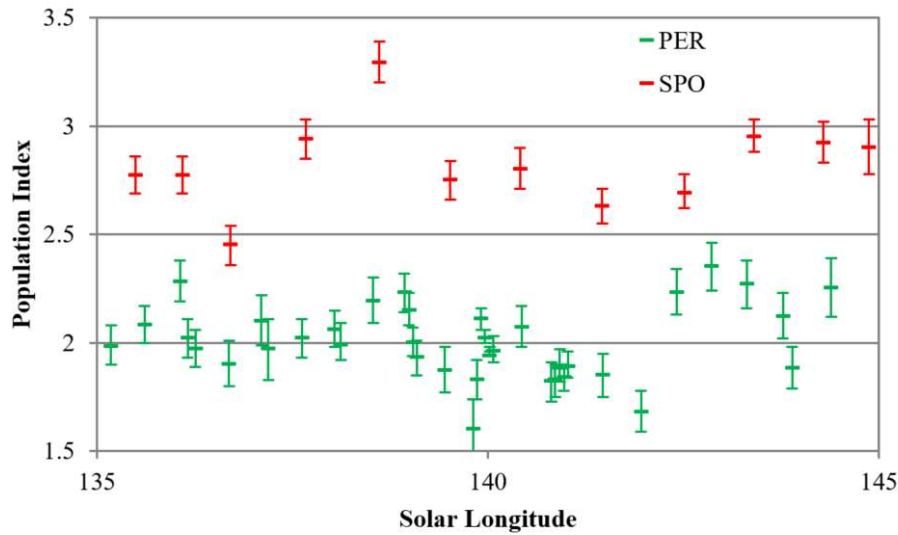


Figure 4: Population index of the Perseids (green) and sporadic meteors (red) in 2018.

Note that most Perseid 2018 data were contributed by Stefano Crivello. With his four cameras he collected less effective observing time than Sirko Molau and Rui Goncalves, but the effective collection area of his cameras for Perseids was larger, which is why he recorded also more Perseids (table 1).

Table 1: Contribution of individual observers with an effective collection area for Perseids of over 250,000 km² and hour.

| Observer | # Cameras | Eff. Obs. Time [h] | Eff. Coll. Area [10 ³ km ² h] | # Perseids |
|--------------------|-----------|--------------------|---|------------|
| Stefano Crivello | 4 | 944.2 | 772.1 | 3524 |
| Sirko Molau | 7 | 1011.9 | 562.1 | 2916 |
| Rui Goncalves | 6 | 1252.9 | 520.3 | 1959 |
| Enrico Stomeo | 3 | 528.2 | 497.9 | 2173 |
| Maciej Maciejewski | 4 | 565.3 | 404.2 | 2438 |
| Karoly Jonas | 3 | 565.5 | 397.1 | 1739 |
| Javor Kac | 5 | 699.2 | 354.1 | 2847 |
| Jörg Strunk | 5 | 886.4 | 347.8 | 2120 |
| Rui Marques | 2 | 443.7 | 314.3 | 1134 |
| Maurizio Eltri | 1 | 218.4 | 282.9 | 679 |
| Mario Bombardini | 1 | 280.4 | 276.7 | 1063 |

In figure 5, we compare the 2018 activity profile of the kappa Cygnids with the average of 2011-2017 (without 2014). Also, in this case, the rate was by tendency lower than in the long-term average. Otherwise the profile shows no surprises.

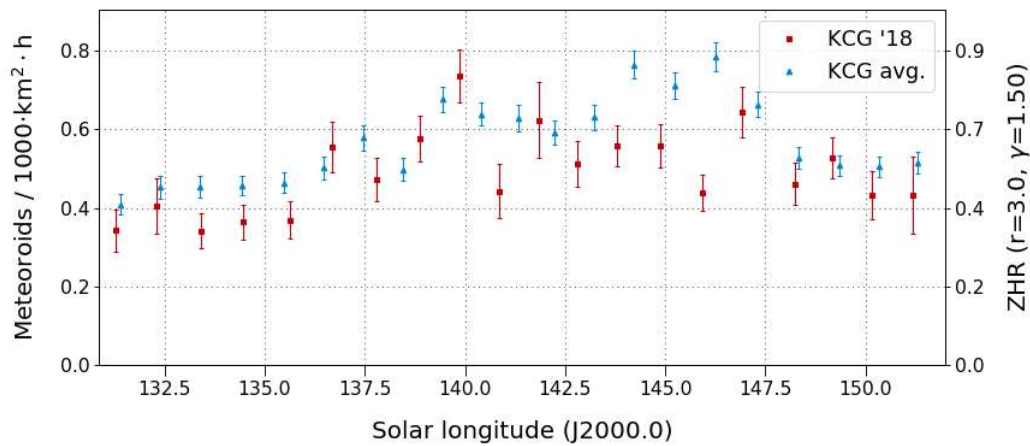


Figure 5: Flux density profile of the kappa Cygnids 2018 (red) and in the average of 2011-2017 (without 2014, blue), derived from video data of the IMO Network.

The population index of the kappa Cygnids had an average value of $r=2.85$, which is slightly larger than the sporadic average population index of $r=2.75$ in the same solar longitude interval. There are only few meteor showers with this property.

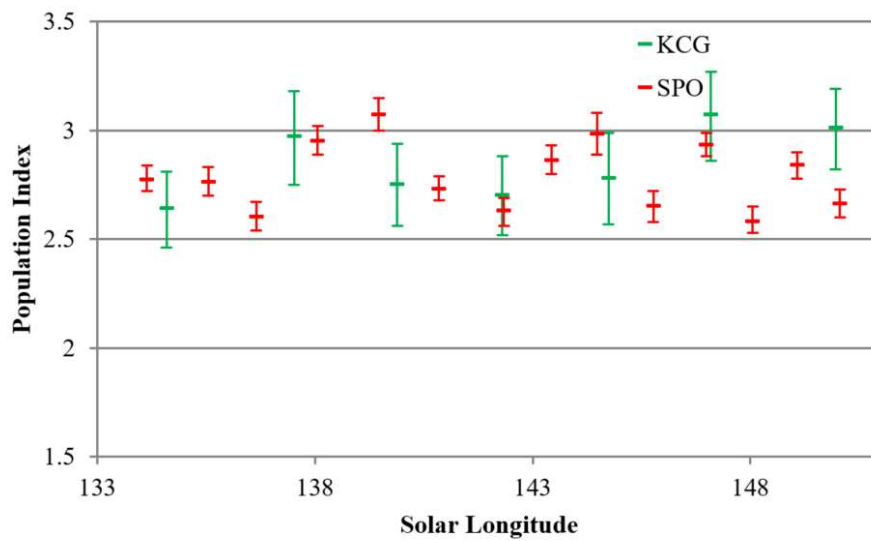


Figure 6: Population index of the kappa Cygnids (green) and sporadic meteors (red) in 2018.

1. Observers

| Code | Name | Place | Camera | FOV [°] | St.LM [mag] | Eff.CA [km ²] | Nights | Time [h] | Meteors |
|-------|--------------|--------------------|---------------------|------------|----------------|------------------------------|--------|-------------|---------|
| ARLRA | Arlt | Ludwigsfelde/DE | LUDWIG2 (0.8/8) | 1475 | 6.2 | 3779 | 29 | 141.1 | 1226 |
| BERER | Berkó | Ludanyhalaszi/HU | HULUDI (0.8/3.8) | 5542 | 4.8 | 3847 | 23 | 149.7 | 1557 |
| BIATO | Bianchi | Mt. San Lorenzo/IT | OMSL1 (1.2/4) | 6435 | 4.0 | 1705 | 31 | 179.1 | 1277 |
| BOMMA | Bombardini | Faenza/IT | MARIO (1.2/4.0) | 5794 | 3.3 | 739 | 31 | 226.9 | 2079 |
| BREMA | Breukers | Hengelo/NL | MBB3 (0.75/6) | 2399 | 4.2 | 699 | 25 | 128.7 | 456 |
| BRIBE | Klemt | Herne/DE | HERMINE (0.8/6) | 2374 | 4.2 | 678 | 16 | 81.1 | 370 |
| | | Berg. Gladbach/DE | KLEMOI (0.8/6) | 2286 | 4.6 | 1080 | 27 | 146.8 | 1076 |
| CARMA | Carli | Monte Baldo/IT | BMH2 (1.5/4.5)* | 4243 | 3.0 | 371 | 28 | 133.2 | 1642 |
| CASFL | Castellani | Monte Baldo/IT | BMH1 (0.8/6) | 2350 | 5.0 | 1611 | 27 | 158.7 | 819 |
| CINFR | Cineglosso | Faenza/IT | JENNI (1.2/4) | 5886 | 3.9 | 1222 | 31 | 233.7 | 1720 |
| CRIST | Crivello | Valbrenna/IT | ARCI (0.8/3.8) | 5566 | 4.6 | 2575 | 31 | 203.5 | 1529 |
| | | | BILBO (0.8/3.8) | 5458 | 4.2 | 1772 | 31 | 200.0 | 1853 |
| | | | C3P8 (0.8/3.8) | 5455 | 4.2 | 1586 | 30 | 182.8 | 1291 |
| | | | STG38 (0.8/3.8) | 5614 | 4.4 | 2007 | 31 | 179.2 | 2218 |
| ELTMA | Eltri | Venezia/IT | MET38 (0.8/3.8) | 5631 | 4.3 | 2151 | 28 | 167.3 | 1249 |
| FORKE | Förster | Carlsfeld/DE | AKM3 (0.75/6) | 2375 | 5.1 | 2154 | 26 | 136.6 | 1171 |
| GONRU | Goncalves | Foz do Arelho/PT | FARELHO1 (0.75/4.5) | 2286 | 3.0 | 208 | 15 | 70.2 | 59 |
| | | Tomar/PT | TEMPLAR1 (0.8/6) | 2179 | 5.3 | 1842 | 31 | 238.7 | 1248 |
| | | | TEMPLAR2 (0.8/6) | 2080 | 5.0 | 1508 | 31 | 239.4 | 1056 |
| | | | TEMPLAR3 (0.8/8) | 1438 | 4.3 | 571 | 30 | 209.7 | 436 |
| | | | TEMPLAR4 (0.8/3.8) | 4475 | 3.0 | 442 | 30 | 235.9 | 1280 |
| | | | TEMPLAR5 (0.75/6) | 2312 | 5.0 | 2259 | 31 | 197.0 | 947 |
| GOVMI | Govedic | Sredisce ob Dr./SI | ORION2 (0.8/8) | 1447 | 5.5 | 1841 | 29 | 158.4 | 882 |
| | | | ORION3 (0.95/5) | 2665 | 4.9 | 2069 | 28 | 176.7 | 665 |
| | | | ORION4 (0.95/5) | 2662 | 4.3 | 1043 | 27 | 164.9 | 618 |
| HERCA | Hergenrother | Tucson/US | SALSA3 (0.8/3.8) | 2336 | 4.1 | 544 | 16 | 113.0 | 421 |
| HINWO | Hinz | Schwarzenberg/DE | HINWO1 (0.75/6) | 2291 | 5.1 | 1819 | 30 | 156.9 | 1352 |
| IGAAN | Igaz | Budapest/HU | HUPOL (1.2/4) | 3790 | 3.3 | 475 | 26 | 128.9 | 327 |
| JONKA | Jonas | Budapest/HU | HUSOR (0.95/4) | 2286 | 3.9 | 445 | 29 | 182.3 | 752 |
| | | | HUSOR2 (0.95/3.5) | 2465 | 3.9 | 715 | 29 | 177.7 | 895 |
| KACJA | Kac | Kamnik/SI | CVETKA (0.8/3.8) | 4914 | 4.3 | 1842 | 24 | 148.0 | 1654 |
| | | Kostanjevec/SI | METKA (0.8/12)* | 715 | 6.4 | 640 | 27 | 149.9 | 523 |
| | | Kamnik/SI | REZIKA (0.8/6) | 2270 | 4.4 | 840 | 24 | 153.2 | 1572 |
| | | Ljubljana/SI | SRAKA (0.8/6)* | 2222 | 4.0 | 546 | 27 | 150.3 | 1144 |
| | | Kamnik/SI | STEFKA (0.8/3.8) | 5471 | 2.8 | 379 | 24 | 151.2 | 1161 |
| KOSDE | Koschny | La Palma / ES | ICC9 (0.85/25)* | 683 | 6.7 | 2951 | 30 | 187.7 | 2347 |
| | | | LIC2 (3.2/50)* | 2199 | 6.5 | 7512 | 30 | 171.1 | 2071 |
| LOJTO | Łojek | Grabniak/PL | PAV57 (1.0/5) | 1631 | 3.5 | 269 | 16 | 99.8 | 705 |
| MACMA | Maciejewski | Chelm/PL | PAV35 (0.8/3.8) | 5495 | 4.0 | 1584 | 30 | 137.1 | 1238 |
| | | | PAV36 (0.8/3.8)* | 5668 | 4.0 | 1573 | 28 | 171.3 | 1617 |
| | | | PAV43 (0.75/4.5)* | 3132 | 3.1 | 319 | 29 | 151.6 | 1110 |
| | | | PAV60 (0.75/4.5) | 2250 | 3.1 | 281 | 30 | 187.9 | 1594 |
| MARRU | Marques | Lisbon/PT | CAB1 (0.75/6) | 2362 | 4.8 | 1517 | 24 | 171.1 | 1217 |
| | | | RAN1 (1.4/4.5) | 4405 | 4.0 | 1241 | 25 | 150.8 | 800 |
| MASMI | Maslov | Novosibirsk/RU | NOWATEC (0.8/3.8) | 5574 | 3.6 | 773 | 11 | 44.6 | 496 |
| MOLSI | Molau | Seysdorf/DE | AVIS2 (1.4/50)* | 1230 | 6.9 | 6152 | 29 | 155.8 | 2246 |
| | | | ESCIMO2 (0.85/25) | 155 | 8.1 | 3415 | 28 | 172.4 | 574 |
| | | | MINCAM1 (0.8/8) | 1477 | 4.9 | 1084 | 29 | 133.0 | 1005 |
| | | Ketzür/DE | REMO1 (0.8/8) | 1467 | 6.5 | 5491 | 30 | 147.6 | 1696 |
| | | | REMO2 (0.8/8) | 1478 | 6.4 | 4778 | 29 | 152.1 | 1425 |
| | | | REMO3 (0.8/8) | 1420 | 6.4 | 1967 | 30 | 173.9 | 1435 |
| | | | REMO4 (0.8/8) | 1478 | 6.5 | 5358 | 30 | 172.6 | 2080 |
| MORJO | Morvai | Fülöpszallas/HU | HUFUL (1.4/5) | 2522 | 3.5 | 532 | 23 | 166.0 | 406 |
| MOSFA | Moschini | Rovereto/IT | ROVER (1.4/4.5) | 3896 | 4.2 | 1292 | 27 | 138.7 | 527 |
| NAGHE | Nagy | Budapest/HU | HUKON (0.8/3.8) | 5500 | 4.0 | 1575 | 30 | 137.9 | 1528 |
| | | Piszkestető/HU | HUPIS (0.8/3.8) | 5615 | 4.0 | 1524 | 30 | 154.3 | 1413 |
| | | Zamardi/HU | HUZAM (0.8/6) | 2358 | 4.7 | 1266 | 23 | 145.2 | 525 |
| OCHPA | Ochner | Albiano/IT | ALBIANO (1.2/4.5) | 2944 | 3.5 | 358 | 11 | 59.7 | 253 |
| OTTMI | Otte | Pearl City/US | ORIE1 (1.4/5.7) | 3837 | 3.8 | 460 | 22 | 113.7 | 324 |
| PERZS | Perkó | Becsehely/HU | HUBEC (0.8/3.8)* | 5498 | 2.9 | 460 | 26 | 158.6 | 721 |
| ROTEC | Rothenberg | Berlin/DE | ARMEFA (0.8/6) | 2366 | 4.5 | 911 | 15 | 84.3 | 266 |
| SARAN | Saraiva | Carnaxide/PT | RO1 (0.75/6) | 2362 | 3.7 | 381 | 30 | 189.1 | 483 |
| | | | RO2 (0.75/6) | 2381 | 3.8 | 459 | 28 | 208.3 | 709 |
| | | | RO3 (0.8/12) | 710 | 5.2 | 619 | 28 | 214.8 | 660 |
| | | | RO4 (1.0/8) | 1582 | 4.2 | 549 | 28 | 202.9 | 318 |
| | | | SOFIA (0.8/12) | 738 | 5.3 | 907 | 30 | 154.8 | 468 |
| SCALE | Scarpa | Alberoni/IT | LEO (1.2/4.5)* | 4152 | 4.5 | 2052 | 27 | 165.7 | 476 |
| SCHHA | Schremmer | Niederkrüchten/DE | DORAEMON (0.8/3.8) | 4900 | 3.0 | 409 | 27 | 147.2 | 1010 |
| SLAPE | Slanksy | Munich/DE | SONYA7S (1.4/50) | 1919 | 8.7 | 6674 | 2 | 6.7 | 727 |
| SLAST | Slavec | Ljubljana/SI | KAYAK1 (1.8/28) | 563 | 6.2 | 1294 | 27 | 139.9 | 855 |
| | | | KAYAK2 (0.8/12) | 741 | 5.5 | 920 | 26 | 146.8 | 335 |
| STOEN | Stomeo | Scorze/IT | MIN38 (0.8/3.8) | 5566 | 4.8 | 3270 | 29 | 173.8 | 1921 |
| | | | NOA38 (0.8/3.8) | 5609 | 4.2 | 1911 | 29 | 176.5 | 1590 |
| | | | SCO38 (0.8/3.8) | 5598 | 4.8 | 3306 | 27 | 155.7 | 1813 |
| STRJO | Strunk | Herford/DE | MINCAM2 (0.8/6) | 2354 | 5.4 | 2751 | 29 | 144.0 | 1282 |
| | | | MINCAM3 (0.8/6) | 2338 | 5.5 | 3590 | 28 | 133.9 | 584 |
| | | | MINCAM4 (0.8/6) | 2306 | 5.0 | 1412 | 28 | 136.8 | 479 |
| | | | MINCAM5 (0.8/6) | 2349 | 5.0 | 1896 | 28 | 141.6 | 804 |
| | | | MINCAM6 (0.8/6) | 2395 | 5.1 | 2178 | 28 | 135.7 | 963 |
| TEPIS | Tepliczky | Agostyan/HU | HUAGO (0.75/4.5) | 2427 | 4.4 | 1036 | 28 | 183.0 | 1214 |
| | | | HUMOB (0.8/6) | 2388 | 4.8 | 1607 | 28 | 152.2 | 978 |
| WEGWA | Wegrzyk | Nieznaszyn/PL | PAV78 (0.8/6) | 2286 | 4.0 | 778 | 28 | 129.4 | 777 |
| YRJIL | Yrjölä | Kuusankoski/FI | FINEXCAM (0.8/6) | 2337 | 5.5 | 3574 | 25 | 69.6 | 362 |
| ZAKJU | Zakrajšek | Petkovec/SI | PETKA (0.8/8) | 1431 | 5.6 | 1955 | 10 | 66.9 | 438 |
| | | | TACKA (0.8/12) | 714 | 5.3 | 783 | 28 | 175.7 | 690 |
| Sum | | | | | | | 31 | 13140.5 | 88080 |

* active field of view smaller than video frame

2. Observing Times (h)

| August | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ARLRA | 3.3 | 4.9 | 5.4 | 3.5 | 5.3 | 5.6 | 5.6 | 5.6 | 3.7 | 4.4 | 5.7 | 5.8 | 5.9 | 3.0 | 6.0 |
| BERER | 5.3 | 6.3 | 6.5 | 6.8 | 7.0 | 7.1 | 7.1 | 7.2 | 7.3 | 7.2 | 5.6 | 7.5 | 4.1 | - | 7.7 |
| BIATO | 7.3 | 5.6 | 2.5 | 7.6 | 8.0 | 4.1 | 5.1 | 7.8 | 3.6 | 8.1 | 4.3 | 8.2 | 7.0 | 4.1 | 8.3 |
| BOMMA | 7.0 | 7.7 | 7.6 | 7.8 | 7.9 | 7.7 | 4.6 | 7.8 | 8.0 | 7.9 | 8.1 | 8.2 | 7.1 | 0.9 | 8.5 |
| BREMA | 6.8 | 6.8 | - | 4.3 | 7.0 | 6.8 | 3.6 | 6.0 | - | - | 6.9 | 0.5 | 3.0 | 1.4 | 6.3 |
| BRIBE | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 2.5 |
| | 4.7 | 6.3 | 3.7 | 5.8 | 6.5 | 6.7 | 4.3 | 5.6 | 3.1 | 5.5 | 7.2 | 7.2 | 2.7 | 1.0 | 6.0 |
| CARMA | 2.0 | - | 2.8 | 2.8 | 3.6 | 7.7 | 7.9 | 7.9 | 4.1 | 8.1 | 8.1 | 7.8 | 3.4 | 4.3 | 1.6 |
| CASFL | 1.6 | - | 2.8 | 1.9 | 4.0 | 7.4 | 7.9 | 8.0 | 2.9 | 8.1 | 8.1 | 8.1 | 3.2 | 4.2 | 1.4 |
| CINFR | 7.0 | 7.7 | 7.7 | 7.9 | 7.9 | 7.9 | 5.5 | 8.0 | 8.1 | 8.1 | 8.3 | 8.2 | 6.8 | 1.6 | 8.4 |
| CRIST | 7.3 | 7.2 | 4.7 | 3.2 | 7.5 | 7.5 | 7.6 | 7.7 | 4.6 | 7.8 | 7.2 | 7.7 | 2.8 | 7.8 | 6.4 |
| | 7.3 | 7.1 | 4.5 | 1.9 | 7.4 | 7.4 | 7.6 | 7.7 | 4.8 | 7.8 | 7.4 | 7.8 | 2.8 | 7.7 | 6.3 |
| | 6.5 | 6.9 | 4.0 | 3.0 | 7.6 | 7.6 | 4.1 | 7.4 | 1.5 | 4.7 | 6.7 | 6.8 | 2.7 | 7.7 | 6.9 |
| | 7.3 | 7.3 | 4.7 | 3.0 | 7.5 | 7.6 | 7.4 | 7.5 | 5.3 | 7.8 | 7.2 | 7.1 | 3.2 | 7.7 | 6.7 |
| ELTMA | 1.9 | 4.0 | 5.8 | 7.2 | 6.9 | 7.3 | 6.9 | 6.3 | 4.3 | 6.6 | 7.4 | 8.0 | 1.2 | - | 7.3 |
| FORKE | 6.3 | - | 6.6 | 4.7 | 6.6 | 4.3 | 6.1 | 4.8 | 4.1 | 5.2 | 7.3 | 7.3 | 2.3 | 1.3 | 7.4 |
| GONRU | 3.2 | 1.2 | 1.0 | - | - | 0.5 | 1.9 | 1.6 | 7.8 | 7.5 | - | - | 1.9 | 1.7 | - |
| | 7.7 | 7.4 | 8.0 | 7.8 | 8.2 | 6.9 | 6.9 | 6.8 | 8.4 | 8.5 | 8.3 | 2.2 | 6.9 | 8.6 | 8.6 |
| | 7.3 | 7.6 | 8.2 | 7.9 | 8.3 | 7.0 | 7.1 | 6.8 | 8.5 | 8.5 | 8.6 | 2.2 | 7.3 | 8.7 | 8.7 |
| | 7.8 | 7.0 | 5.5 | 4.8 | 7.5 | 6.6 | 2.9 | 4.5 | 8.5 | 7.1 | 7.9 | 0.6 | 3.3 | 8.5 | 7.8 |
| | 8.1 | 6.9 | 7.3 | 7.4 | 8.1 | 6.6 | 7.5 | 6.2 | 8.5 | 8.5 | 8.5 | 1.6 | 6.9 | 8.7 | 8.7 |
| | 7.1 | 5.2 | 5.1 | 6.2 | 7.1 | 6.9 | 3.4 | 5.2 | 8.4 | 7.2 | 7.8 | 1.2 | 3.5 | 8.4 | 7.2 |
| GOVMI | 2.2 | 5.0 | 1.5 | 7.2 | 6.0 | 7.3 | 3.4 | 2.1 | 7.5 | - | 2.2 | 7.7 | 6.8 | 1.0 | 7.8 |
| | 2.5 | 6.0 | 7.4 | 7.5 | 5.2 | 7.6 | 7.3 | 7.7 | 7.7 | - | 4.0 | 7.9 | 7.9 | - | 8.1 |
| | 1.9 | 4.4 | 6.9 | 7.0 | 4.8 | 7.1 | 4.8 | 6.5 | 7.3 | - | 2.7 | 7.4 | 7.4 | - | 5.8 |
| HERCA | 8.9 | - | - | 8.7 | 9.1 | 8.3 | - | - | - | 3.0 | 1.5 | 0.5 | 7.8 | 9.3 | - |
| HINWO | 6.4 | 6.2 | 6.0 | 5.6 | 6.8 | 6.9 | 6.2 | 5.2 | 4.9 | 5.5 | 7.2 | 7.3 | 2.2 | 1.7 | 6.9 |
| IGAAN | 1.6 | 4.4 | 6.7 | 3.6 | 6.4 | 6.4 | 4.9 | - | - | 1.9 | 6.5 | 7.1 | 6.6 | 2.8 | 5.0 |
| JONKA | 1.0 | 5.2 | 7.2 | 7.0 | 6.5 | 7.4 | 5.8 | 7.4 | 7.6 | 2.7 | 7.5 | 7.6 | 7.7 | 1.7 | 5.8 |
| | 1.6 | 4.7 | 7.2 | 7.2 | 6.7 | 7.3 | 6.5 | 7.4 | 7.6 | 1.8 | 7.6 | 7.7 | 7.8 | 0.9 | 6.4 |
| KACJA | 1.8 | - | 6.6 | 3.1 | 4.0 | 7.1 | 7.4 | 7.6 | 7.7 | 1.6 | 3.3 | 7.8 | 4.7 | - | 5.0 |
| | - | 6.3 | 7.2 | 7.5 | 5.0 | 7.6 | 5.1 | 6.9 | 7.9 | 1.7 | 3.6 | 8.1 | 6.7 | 5.3 | 8.3 |
| | 1.8 | - | 6.6 | 6.8 | 3.7 | 7.4 | 7.6 | 7.7 | 7.8 | 2.0 | 3.0 | 8.0 | 3.9 | - | 5.2 |
| | 2.4 | 1.8 | 7.0 | 5.9 | 0.2 | 3.6 | 7.3 | 6.7 | 7.6 | 4.9 | 1.6 | 7.8 | 2.4 | 1.0 | 7.1 |
| | 1.9 | - | 6.8 | 7.0 | 4.3 | 7.3 | 7.5 | 7.6 | 7.6 | 1.5 | 2.4 | 8.0 | 2.8 | - | 4.6 |
| KOSDE | 4.0 | 4.5 | 5.1 | 4.1 | 7.0 | 7.5 | 8.5 | - | 8.6 | 8.7 | 8.7 | 1.7 | 0.4 | 7.2 | 8.8 |
| | 7.2 | 6.4 | 6.9 | 2.9 | 6.0 | 6.8 | 6.7 | - | 7.3 | 7.2 | 7.4 | 1.4 | 0.3 | 5.4 | 6.7 |
| LOTJO | 6.3 | - | 5.5 | 5.3 | 6.0 | 5.8 | - | 7.1 | 7.0 | - | - | - | 7.5 | 4.4 | - |
| MACMA | 5.2 | 6.0 | 5.0 | 6.3 | 6.4 | 6.5 | 6.9 | 4.7 | 5.8 | 0.5 | 1.1 | 7.1 | 7.1 | 1.7 | 6.6 |
| | 6.4 | 6.8 | 6.7 | 6.7 | 6.8 | 6.9 | 6.9 | 6.4 | 7.1 | 1.4 | 1.6 | 7.5 | - | 3.5 | 7.5 |
| | 2.2 | 2.4 | 2.1 | 2.4 | 4.6 | 5.4 | 5.9 | 5.5 | 5.8 | 0.6 | - | 7.3 | 7.4 | 1.8 | 4.5 |
| | 6.4 | 6.3 | 6.6 | 6.3 | 6.7 | 6.8 | 6.9 | 6.9 | 6.7 | 0.8 | 2.7 | 7.2 | 7.3 | 3.4 | 7.4 |
| MARRU | 5.6 | 2.7 | 6.9 | 7.6 | 8.0 | 8.1 | 8.1 | 6.4 | 8.2 | 8.2 | 8.2 | 4.4 | 8.3 | 8.3 | 6.1 |
| | 2.7 | 0.2 | 0.8 | - | - | - | - | 0.3 | 5.9 | 8.2 | 8.2 | 3.1 | 4.0 | 8.3 | 8.6 |
| MASMI | - | 4.2 | 5.0 | - | 1.4 | - | 5.4 | 5.5 | 5.6 | 5.2 | - | - | - | - | - |
| MOLSI | 2.5 | 5.6 | 5.6 | 6.3 | 6.4 | 5.4 | 5.9 | 6.6 | 0.2 | 5.3 | 6.8 | 6.8 | 3.5 | 4.0 | 7.0 |
| | 3.7 | 6.6 | 5.7 | 6.9 | 6.9 | 5.1 | 6.8 | 7.0 | - | 6.4 | 7.3 | 7.4 | 3.1 | 4.2 | 7.5 |
| | 0.9 | 4.5 | 5.1 | 5.6 | 6.7 | 4.6 | 6.8 | 7.1 | 0.2 | 5.1 | 7.2 | 7.0 | 3.2 | 4.1 | 7.2 |
| | 1.4 | 4.9 | 5.4 | 3.1 | 5.7 | 5.7 | 5.7 | 5.9 | 3.7 | 5.6 | 5.8 | 6.1 | 6.2 | 3.0 | 6.4 |
| | 1.7 | 5.1 | 5.6 | 3.7 | 5.9 | 5.9 | 5.4 | 6.0 | 4.8 | 5.7 | 6.2 | 6.4 | 6.2 | 3.3 | 6.6 |
| | 1.9 | 5.7 | 6.3 | 4.5 | 6.5 | 6.6 | 6.6 | 6.7 | 4.5 | 6.3 | 6.5 | 7.0 | 7.1 | 3.6 | 7.2 |
| | - | 5.8 | 6.3 | 5.0 | 6.5 | 6.6 | 6.2 | 6.7 | 5.1 | 6.1 | 6.6 | 7.0 | 6.8 | 3.9 | 7.2 |
| MORJO | - | 4.7 | 7.2 | 7.2 | 6.3 | 7.2 | 6.9 | - | - | - | - | - | 7.9 | 4.6 | 7.6 |
| MOSFA | - | - | 3.6 | 1.9 | 2.4 | 6.2 | 7.9 | 7.9 | 2.8 | 8.0 | 6.7 | 7.9 | 1.6 | 4.1 | 1.4 |
| NAGHE | 1.4 | 4.8 | 7.2 | 6.1 | 5.3 | 5.4 | 3.9 | 5.8 | 5.6 | 1.5 | 7.6 | 7.6 | 7.5 | 3.9 | 4.0 |
| | 3.5 | 6.3 | 5.7 | 6.3 | 6.1 | 4.7 | 6.1 | 5.6 | 6.1 | 6.0 | 5.8 | 7.2 | 7.5 | 2.5 | 6.4 |
| | 1.2 | 5.8 | 7.4 | 7.5 | 6.4 | 6.6 | 3.9 | - | - | - | - | - | 6.1 | 1.4 | - |
| OCHPA | - | - | - | 3.7 | - | - | 7.8 | 5.2 | - | - | - | 5.5 | 7.3 | - | 0.5 |
| OTTMI | 7.9 | 5.6 | 3.4 | - | - | 2.2 | 8.1 | 4.6 | 8.1 | 8.3 | 8.0 | 8.4 | 1.7 | 2.2 | 1.1 |
| PERZS | - | 4.8 | 6.4 | 7.2 | 7.2 | 7.3 | 4.9 | 7.1 | 5.8 | - | 3.0 | 7.7 | 7.7 | 1.7 | 7.9 |
| ROTEC | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.8 | - |
| SARAN | 1.2 | 2.1 | 2.8 | 1.3 | 1.8 | 2.6 | 7.4 | 1.8 | 8.7 | 8.7 | 8.7 | 6.0 | 5.3 | 7.5 | 9.0 |
| | 5.4 | 6.9 | 7.5 | 7.3 | 8.0 | 4.8 | 7.7 | 2.8 | 8.8 | 8.6 | - | 5.6 | 6.4 | 8.6 | 8.5 |
| | 6.7 | 7.7 | 8.1 | 6.1 | 7.9 | 5.9 | 8.1 | 5.2 | 8.5 | 8.2 | - | 6.4 | 5.8 | 8.2 | 8.3 |
| | 5.2 | 7.5 | 6.5 | 4.7 | 7.3 | 3.1 | 5.0 | 1.9 | 8.8 | 8.6 | - | 4.6 | 6.1 | 8.6 | 8.7 |
| | 0.8 | 0.9 | 1.1 | 1.3 | 1.1 | 1.7 | 4.1 | 0.7 | 4.2 | 8.7 | 8.5 | 5.4 | 3.8 | 7.4 | 8.6 |
| SCALE | 1.9 | 4.0 | 5.5 | 7.0 | 3.1 | 7.4 | 7.2 | 6.0 | 3.6 | 6.5 | 7.7 | 8.0 | 1.0 | - | 6.2 |
| SCHHA | 6.7 | 6.7 | 4.7 | 5.0 | 6.9 | 6.1 | 1.5 | 6.9 | 3.0 | 4.1 | 7.3 | 3.0 | 4.7 | 3.4 | 7.6 |
| SLAPE | - | - | - | - | - | - | - | - | - | - | 3.3 | 3.4 | - | - | - |
| SLAST | 1.0 | 4.7 | 6.2 | 6.3 | 1.5 | 6.3 | 6.3 | 6.3 | 6.3 | 3.6 | 2.7 | 6.3 | 2.5 | 0.6 | 6.2 |
| | 1.5 | 4.5 | 6.8 | 6.8 | 1.8 | 6.8 | 6.8 | 6.8 | 6.8 | 4.2 | 3.2 | 6.8 | 2.7 | 0.2 | 6.8 |
| STOEN | 1.7 | 5.2 | 6.5 | 7.3 | 1.7 | 7.5 | 7.3 | 6.7 | 3.8 | 5.7 | 7.5 | 7.6 | 1.7 | - | 5.7 |
| | 0.9 | 5.4 | 1.2 | 0.4 | 1.9 | 7.4 | 7.5 | 7.6 | 3.9 | 5.9 | 8.1 | 8.2 | 1.9 | - | 5.2 |
| | 1.0 | 5.8 | 6.0 | 6.5 | 2.6 | 6.5 | 7.5 | 6.5 | 3.2 | 5.0 | 7.2 | 8.2 | 1.6 | - | 5.8 |
| STRJO | 2.7 | 6.2 | 6.3 | 4.0 | 6.6 | 6.6 | 6.6 | 5.7 | 3.2 | 5.5 | 7.0 | 6.6 | 3.5 | 2.1 | 1.1 |
| | 1.7 | 6.2 | 6.3 | 4.0 | 6.4 | 6.3 | 6.2 | 4.8 | 2.9 | 5.3 | 6.7 | 5.9 | 2.2 | 0.9 | - |
| | 2.8 | 6.3 | 6.4 | 3.9 | 6.6 | 6.6 | 6.4 | 5.4 | 3.0 | 5.5 | 6.7 | 6.9 | 2.6 | 1.3 | 1.4 |
| | 1.9 | 6.1 | 6.3 | 4.3 | 6.6 | 6.3 | 6.4 | 5.4 | 3.2 | 5.5 | 7.0 | 6.0 | 3.2 | 2.1 | 1.3 |
| | 2.1 | 6.2 | 6.3 | 3.9 | 6.4 | 6.2 | 6.4 | 5.8 | 2.8 | 5.6 | 7.0 | 6.5 | 2.8 | 2.0 | - |
| TEPIS | 2.5 | 5.5 | 7.0 | 7.0 | 7.1 | 7.1 | 2.4 | 7.3 | 7.3 | 0.7 | 7.4 | 7.5 | 7.6 | 0.3 | 7.7 |
| | 1.8 | 2.4 | 6.7 | 6.9 | 3.4 | 6.9 | 2.9 | 6.9 | 7.0 | 0.4 | 7.0 | 7.5 | 7.4 | 0.3 | 7.5 |
| WEGWA | 5.8 | 2.8 | 4.8 | 0.8 | 2.6 | 6.6 | 5.2 | 4.2 | 6.9 | - | 5.1 | 7.0 | 6.4 | 3.4 | 4.4 |
| YRJIL | 2.4 | 1.9 | 1.9 | - | - | 2.1 | 3.5 | 3.7 | 3.4 | 3.8 | 1.3 | 1.9 | 1.5 | 1.3 | 1.0 |
| ZAKJU | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4.3 | 5.7 | 7.0 | 7.4 | 2.4 | 7.5 | 6.8 | 6.7 | 7.7 | 5.3 | 3.6 | 7.8 | 1.7 | 0.4 | 8.0 |
| Sum | 290.9 | 377.5 | 434.9 | 408.4 | 433.5 | 490.1 | 472.2 | 449.3 | 428.6 | 391.7 | 443.6 | 483.5 | 373.8 | 272.6 | 478.4 |

| August | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ARLRA | 6.2 | 2.1 | 6.3 | 6.4 | 1.9 | 6.1 | 6.4 | 3.4 | - | 5.9 | 2.8 | - | 6.4 | 6.3 | 3.5 | 3.7 |
| BERER | 7.6 | 5.1 | 3.7 | 5.7 | - | 6.6 | 6.5 | - | - | - | - | 5.6 | 8.3 | - | 7.9 | - |
| BIATO | 8.6 | 2.0 | 5.3 | 8.5 | 8.7 | 8.4 | 7.2 | 8.7 | 6.4 | 0.6 | 0.9 | 2.4 | 8.0 | 7.7 | 3.6 | 0.5 |
| BOMMA | 8.5 | 8.5 | 7.8 | 8.5 | 8.7 | 8.7 | 8.6 | 8.6 | 7.0 | 0.1 | 8.3 | 9.0 | 9.0 | 8.8 | 9.2 | 0.8 |
| BREMA | 3.5 | 7.9 | 3.4 | - | 6.7 | 8.0 | 8.1 | 2.9 | 1.3 | 1.8 | - | - | 8.7 | 0.3 | 8.8 | 7.9 |
| BRIBE | 5.5 | 7.2 | 7.6 | 1.3 | 4.2 | 4.1 | 6.5 | 3.8 | - | 8.1 | - | 0.4 | 8.2 | - | 4.4 | 7.0 |
| | 7.1 | 7.5 | 7.6 | 3.5 | - | 4.0 | 7.1 | 4.5 | - | 7.5 | - | 2.4 | 8.0 | - | 2.9 | 8.4 |
| CARMA | 6.1 | 4.4 | 5.9 | 4.1 | 1.0 | 5.7 | 4.1 | 2.8 | - | 0.8 | 5.4 | 7.1 | 6.6 | 4.8 | 2.3 | - |
| CASFL | 8.4 | 7.4 | 8.0 | 8.0 | 3.3 | 8.6 | 6.9 | 3.9 | - | - | 6.7 | 9.0 | 9.0 | 5.8 | 4.1 | - |
| CINFR | 8.5 | 8.5 | 8.4 | 8.6 | 8.7 | 8.7 | 8.7 | 8.7 | 7.9 | 2.3 | 8.8 | 9.0 | 9.0 | 8.8 | 9.2 | 0.8 |
| CRIST | 8.1 | 5.5 | 8.2 | 4.7 | 8.3 | 8.4 | 8.4 | 8.5 | 5.4 | 2.3 | 8.6 | 8.7 | 8.8 | 8.3 | 3.7 | 0.6 |
| | 8.1 | 6.0 | 8.2 | 5.0 | 8.3 | 8.4 | 8.1 | 8.5 | 4.1 | 1.1 | 8.6 | 8.7 | 8.8 | 8.5 | 3.8 | 0.3 |
| | 8.1 | 5.3 | 8.2 | 5.5 | 8.2 | 8.4 | 8.4 | 8.5 | 2.0 | 1.4 | 8.7 | 8.7 | 8.8 | 6.1 | - | 2.4 |
| | 8.1 | 5.7 | 8.2 | 5.0 | 8.3 | 8.4 | 8.4 | 3.8 | 1.2 | 0.3 | 1.4 | 1.5 | 8.8 | 8.8 | 3.8 | 0.2 |
| ELTMA | 8.3 | 8.4 | 7.7 | 6.5 | 5.5 | 6.0 | 7.7 | 4.2 | 0.5 | - | 4.8 | 7.4 | 7.5 | 8.3 | 3.4 | - |
| FORKE | 7.5 | - | 7.4 | 7.8 | - | 7.1 | 7.4 | 1.3 | - | 0.9 | 6.2 | 4.4 | 8.1 | 3.3 | 0.9 | - |
| GONRU | - | 7.6 | 8.5 | 8.4 | 8.5 | - | - | - | - | - | - | - | - | - | - | 8.9 |
| | 8.0 | 8.7 | 8.8 | 8.8 | 8.8 | 8.8 | 8.9 | 5.3 | 8.9 | 8.9 | 9.0 | 5.9 | 1.3 | 9.1 | 9.2 | 9.1 |
| | 7.8 | 8.8 | 8.9 | 8.9 | 8.9 | 8.4 | 9.0 | 5.4 | 9.1 | 9.1 | 9.2 | 4.8 | 0.3 | 9.3 | 9.4 | 9.4 |
| | 5.3 | 8.7 | 8.8 | 8.8 | 8.7 | 8.5 | 8.8 | 4.1 | 8.8 | 8.8 | 8.9 | 4.0 | - | 8.8 | 9.2 | 9.2 |
| | 7.4 | 8.8 | 8.9 | 8.9 | 8.9 | 8.5 | 9.0 | 5.3 | 9.1 | 9.0 | 9.2 | 5.4 | - | 9.3 | 9.3 | 9.4 |
| | 4.8 | 8.4 | 8.6 | 8.6 | 8.8 | 7.9 | 8.7 | 3.1 | 8.6 | 7.0 | 8.8 | 2.0 | 0.4 | 4.2 | 8.5 | 8.7 |
| GOVMI | 7.9 | 7.9 | 6.4 | 8.0 | 5.6 | 8.2 | 8.2 | 7.0 | 0.7 | - | 2.2 | 8.2 | 8.5 | 8.6 | 3.1 | 0.2 |
| | 8.1 | 8.2 | 8.2 | 8.3 | 3.2 | 8.4 | 8.5 | 8.1 | 1.9 | - | 2.5 | 8.0 | 2.2 | 8.7 | 3.3 | 2.3 |
| | 7.7 | 7.7 | 7.8 | 7.8 | 7.9 | 7.9 | 8.0 | 5.9 | - | - | 3.2 | 7.8 | 8.4 | 7.9 | 2.0 | 0.9 |
| HERCA | - | - | - | - | 9.5 | - | - | - | - | - | 9.4 | 6.0 | 9.3 | 9.8 | 2.1 | 9.8 |
| HINWO | 7.3 | 0.5 | 7.5 | 7.8 | 5.7 | 5.3 | 7.7 | 0.5 | - | 2.5 | 7.7 | 4.0 | 8.3 | 5.1 | 1.4 | 0.6 |
| IGAAAN | 6.8 | 1.7 | 7.3 | 7.3 | 4.4 | 7.7 | 6.8 | 0.6 | - | 1.4 | - | 7.4 | 7.1 | 1.0 | - | 5.5 |
| JONKA | 8.0 | 8.0 | 7.1 | 7.2 | 5.3 | 8.1 | 8.3 | 0.2 | 0.8 | - | - | 8.6 | 8.7 | 8.7 | 7.4 | 7.8 |
| | 7.7 | 8.0 | 4.2 | 7.7 | 4.9 | 7.7 | 8.3 | 1.4 | 0.6 | - | - | 5.5 | 8.7 | 8.8 | 7.7 | 8.1 |
| KACJA | 8.0 | 8.1 | 8.3 | 6.6 | 3.8 | 6.2 | 6.1 | 7.9 | - | - | - | 8.3 | 8.7 | 8.3 | - | - |
| | 8.3 | 6.4 | - | 6.2 | 7.5 | 6.1 | 8.6 | 5.8 | 0.3 | - | 1.1 | 3.7 | 2.8 | 5.4 | 0.5 | - |
| | 8.2 | 8.3 | 8.1 | 6.7 | 4.1 | 6.3 | 6.6 | 8.0 | - | - | - | 8.6 | 8.5 | 8.3 | - | - |
| | 7.0 | 6.5 | 8.2 | 8.2 | 5.2 | 8.2 | 6.9 | 7.7 | - | - | 0.8 | 8.1 | 8.4 | 7.8 | - | - |
| | 8.1 | 8.2 | 8.3 | 6.7 | 3.9 | 6.4 | 6.6 | 7.9 | - | - | - | 8.7 | 8.7 | 8.4 | - | - |
| KOSDE | 8.8 | 8.9 | 8.9 | 8.9 | 9.0 | 8.5 | 7.5 | 6.5 | 5.6 | 5.1 | 4.6 | 4.3 | 3.7 | 4.3 | 3.8 | 4.5 |
| | 7.2 | 7.5 | 6.8 | 7.3 | 6.8 | 6.2 | 5.7 | 4.0 | 4.1 | 4.5 | 4.6 | 5.0 | 6.1 | 5.6 | 5.8 | 5.3 |
| LOTJO | 7.6 | 7.8 | - | - | - | - | 8.1 | 8.0 | - | - | - | 2.9 | - | - | 2.0 | 8.5 |
| MACMA | 6.5 | 3.2 | 3.5 | 6.4 | 4.0 | 6.3 | 6.3 | 7.6 | 1.6 | 0.4 | - | 6.5 | 1.5 | 1.9 | 2.4 | 2.1 |
| | 7.7 | - | 7.0 | 7.8 | 3.9 | 7.9 | 8.1 | 8.1 | 3.3 | 0.7 | - | 8.4 | 3.6 | 8.5 | 8.4 | 5.7 |
| | 6.8 | 7.2 | 7.4 | 7.4 | 4.1 | 7.6 | 7.7 | 7.7 | 2.9 | 1.2 | - | 8.0 | 3.8 | 8.2 | 8.1 | 5.6 |
| | 7.5 | 7.6 | 7.6 | 7.7 | 4.3 | 7.9 | 7.9 | 8.0 | 4.0 | 1.2 | - | 8.3 | 4.5 | 8.4 | 8.5 | 6.1 |
| MARRU | 4.7 | 8.3 | 8.4 | 8.4 | 8.4 | 4.0 | 8.4 | 6.9 | 8.5 | - | - | - | - | - | - | - |
| | - | 8.3 | 8.7 | 8.7 | 8.5 | 7.7 | 7.8 | 7.5 | 8.2 | 4.2 | 7.8 | 2.3 | - | 5.0 | 8.4 | 7.4 |
| MASMI | - | - | 2.8 | 6.5 | 0.7 | - | 2.3 | - | - | - | - | - | - | - | - | - |
| MOLSI | 7.1 | 7.1 | 6.8 | 7.2 | 7.4 | 6.0 | 6.2 | 5.1 | 2.7 | - | 7.5 | 0.6 | 7.9 | 0.8 | 5.5 | - |
| | 7.6 | 7.7 | 7.7 | 7.8 | 7.9 | 7.9 | 6.7 | 6.2 | 1.8 | - | 8.2 | 2.1 | 8.4 | 2.0 | 5.8 | - |
| | 7.2 | 7.5 | 5.0 | 6.1 | 7.8 | 4.8 | 2.0 | 3.5 | 0.4 | - | 4.7 | 0.2 | 5.8 | 1.3 | 1.4 | - |
| | 6.3 | 4.7 | 6.6 | 6.5 | 0.3 | 6.8 | 6.8 | 2.9 | 1.4 | 6.9 | 3.3 | - | 6.9 | 4.7 | 3.4 | 5.5 |
| | 6.6 | 5.4 | 6.7 | 6.8 | - | 6.9 | 6.9 | 3.1 | 1.4 | 6.8 | 2.2 | - | 7.1 | 4.5 | 3.8 | 5.4 |
| | 7.3 | 6.1 | 7.4 | 7.5 | 0.6 | 7.7 | 7.7 | 3.9 | 1.4 | 8.0 | 4.6 | - | 8.2 | 5.4 | 4.2 | 6.9 |
| | 7.3 | 5.8 | 7.4 | 7.5 | 0.9 | 7.7 | 7.7 | 3.4 | 1.4 | 8.0 | 3.6 | 0.8 | 8.1 | 5.1 | 4.7 | 7.4 |
| MORJO | 7.9 | 8.0 | 8.1 | 8.1 | 8.2 | 8.1 | 8.2 | 5.1 | 4.3 | - | - | 8.5 | 8.5 | 8.7 | 6.5 | 8.2 |
| MOSFA | 6.6 | 5.6 | 4.3 | 4.3 | 0.4 | 7.9 | 3.4 | 3.1 | - | 0.7 | 7.3 | 9.1 | 9.1 | 7.7 | 6.8 | - |
| NAGHE | 5.8 | 5.1 | 4.4 | 3.5 | 2.1 | 2.6 | 3.2 | 0.8 | 1.1 | 0.6 | - | 8.6 | 5.5 | 8.7 | 4.1 | 4.2 |
| | 7.0 | 5.2 | 6.1 | 4.4 | 2.3 | 2.9 | 4.0 | 0.5 | 1.9 | 0.5 | - | 8.6 | 5.3 | 4.1 | 7.0 | 8.7 |
| | 8.2 | 7.6 | 8.3 | 8.3 | 7.4 | 7.8 | 5.9 | 4.6 | 2.1 | - | 4.1 | 8.7 | 8.1 | 8.8 | 9.0 | - |
| OCHPA | - | - | - | - | - | 4.7 | - | - | - | - | 6.4 | 7.2 | 6.4 | 5.0 | - | - |
| OTTMI | 3.6 | 8.1 | 1.0 | - | 3.8 | 8.8 | 2.3 | - | 4.2 | - | 6.1 | - | 6.2 | - | - | - |
| PERZS | 8.0 | 8.0 | 8.0 | 8.1 | 7.9 | 8.1 | 8.4 | 5.5 | 1.0 | - | 1.2 | 8.3 | - | - | 3.6 | 3.8 |
| ROTEC | 7.2 | 0.7 | 7.4 | 7.3 | 1.2 | 7.5 | 7.6 | 3.5 | - | 6.7 | 3.3 | - | 7.1 | 7.8 | - | 4.0 |
| SARAN | 7.1 | 8.7 | 7.6 | 8.7 | 8.7 | 8.8 | 8.7 | 8.4 | 9.1 | 6.3 | 6.4 | 3.3 | - | 6.8 | 7.1 | 8.5 |
| | 6.5 | - | 8.4 | 8.6 | 8.5 | 8.4 | 7.4 | 8.5 | 8.6 | 9.0 | 9.0 | - | 1.4 | 8.9 | 9.3 | 8.9 |
| | 7.3 | 8.3 | - | 8.3 | 8.3 | 8.4 | 8.4 | 8.4 | 8.5 | 8.9 | 9.0 | - | 2.9 | 9.0 | 9.0 | 9.0 |
| | 2.5 | 8.6 | 8.5 | 8.4 | 8.7 | 8.7 | 8.5 | 8.3 | 8.8 | 9.0 | 9.3 | - | - | 8.4 | 9.2 | 9.4 |
| | 5.8 | 8.0 | 7.9 | 7.5 | 6.5 | 6.0 | 5.9 | 5.3 | 6.4 | 4.6 | 7.0 | - | 0.6 | 6.8 | 8.9 | 9.3 |
| SCALE | 8.2 | 8.3 | 8.3 | 8.1 | 6.2 | 6.3 | 8.5 | 5.9 | - | - | 8.6 | - | 8.8 | 8.3 | 4.2 | 0.9 |
| SCHHA | 3.9 | 7.0 | 7.5 | 2.3 | - | 5.8 | 7.7 | 2.6 | - | 8.0 | - | 5.3 | 8.1 | - | 4.1 | 7.3 |
| SLAPE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SLAST | 7.3 | 7.7 | 7.8 | 7.0 | 3.9 | 7.2 | 5.7 | 4.4 | - | 0.4 | 7.0 | 7.0 | 7.7 | - | - | - |
| | 7.9 | 8.2 | 8.2 | 7.2 | 6.0 | - | 5.9 | 8.1 | - | - | 0.3 | 7.2 | 7.2 | 8.1 | - | - |
| STOEN | 7.6 | 8.0 | 8.0 | 8.1 | 6.6 | 6.6 | 7.9 | 5.8 | 1.0 | - | 7.7 | 8.9 | 9.0 | 8.4 | 4.1 | 0.2 |
| | 8.2 | 8.4 | 8.5 | 8.5 | 8.3 | 8.2 | 8.4 | 7.7 | 2.2 | - | 8.8 | 9.0 | 9.1 | 8.9 | 6.0 | 0.8 |
| | 4.1 | 7.2 | 8.3 | 8.2 | 6.8 | 8.2 | 7.8 | 5.8 | 1.2 | - | - | - | 8.8 | 8.5 | 6.5 | 0.9 |
| STRJO | 6.9 | 7.4 | 7.5 | 3.0 | 0.6 | 4.8 | 6.9 | 4.1 | 1.4 | 7.5 | - | 0.3 | 8.1 | - | 6.4 | 5.4 |
| | 6.4 | 7.3 | 7.4 | 2.3 | 0.5 | 5.3 | 5.2 | 4.1 | 1.7 | 7.9 | - | 0.4 | 8.1 | - | 5.9 | 5.6 |
| | 6.1 | 7.4 | 7.5 | 2.8 | 0.8 | 4.6 | 5.8 | 4.5 | 2.5 | 7.8 | - | - | 8.2 | - | 1.6 | 5.4 |
| | 6.3 | 7.4 | 7.5 | 3.0 | 0.7 | 4.8 | 7.6 | 4.3 | 2.3 | 6.9 | - | - | 7.8 | - | 6.1 | 5.3 |
| | 6.3 | 7.4 | 7.3 | 2.4 | 0.9 | 4.0 | 6.4 | 3.7 | 0.9 | 7.7 | 0.2 | - | 8.0 | - | 6.0 | 4.5 |
| TEPIS | 7.5 | 7.8 | 7.9 | 7.7 | 7.2 | 8.0 | 8.1 | 5.3 | - | - | - | 8.4 | 8.5 | 8.5 | 6.0 | 7.7 |
| | 7.7 | 7.7 | 7.8 | 3.4 | 3.2 | 2.4 | 6.5 | 1.4 | - | - | - | 8.3 | 8.5 | 8.5 | 4.3 | 7.5 |
| WEGWA | 5.1 | 7.2 | 6.5 | 6.2 | 7.3 | 5.5 | 2.5 | 3.2 | 0.4 | - | 7.1 | 2.7 | 1.9 | 7.6 | 0.2 | - |
| YRJIL | 4.9 | 4.1 | 4.5 | 4.7 | - | 5.6 | 0.6 | 1.4 | 0.7 | - | - | 4.1 | 4.6 | 2.4 | - | 2.3 |
| ZAKJU | - | - | - | 7.6 | 8.2 | 8.3 | 8.4 | 8.1 | - | - | 0.2 | 7.6 | 7.7 | 7.7 | 3.1 | - |
| | 8.1 | 8.0 | 7.9 | 7.8 | 7.3 | 8.3 | 8.3 | 8.0 | - | - | 1.7 | 8.8 | 8.7 | 8.7 | 1.8 | - |
| Sum | 546.8 | 533.5 | 562.9 | 534.3 | 428.5 | 550.7 | 567.4 | 409.1 | 203.6 | 218.9 | 298.4 | 389.0 | 507.1 | 473.0 | 367.6 | 320.7 |

3. Results (Meteors)

| August | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
|--------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|
| ARLRA | 12 | 50 | 51 | 24 | 53 | 79 | 55 | 66 | 40 | 53 | 80 | 156 | 53 | 13 | 62 |
| BERER | 30 | 47 | 43 | 60 | 69 | 79 | 64 | 75 | 74 | 45 | 178 | 401 | 53 | - | 57 |
| BIATO | 40 | 5 | 27 | 22 | 41 | 36 | 45 | 71 | 48 | 75 | 77 | 238 | 98 | 19 | 54 |
| BOMMA | 47 | 78 | 77 | 68 | 66 | 92 | 32 | 85 | 84 | 140 | 85 | 271 | 172 | 8 | 90 |
| BREMA | 24 | 20 | - | 21 | 32 | 30 | 8 | 33 | - | - | 45 | 2 | 12 | 6 | 29 |
| BRIBE | - | - | - | - | - | - | - | - | - | - | - | - | 41 | 19 | 54 |
| | 37 | 44 | 17 | 31 | 48 | 70 | 28 | 37 | 11 | 53 | 108 | 234 | 27 | 3 | 61 |
| CARMA | 7 | - | 28 | 13 | 28 | 36 | 88 | 85 | 39 | 131 | 121 | 267 | 37 | 74 | 14 |
| CASFL | 5 | - | 28 | 3 | 12 | 37 | 53 | 61 | 15 | 67 | 46 | 113 | 26 | 34 | 1 |
| CINFR | 30 | 69 | 57 | 71 | 45 | 58 | 14 | 60 | 70 | 116 | 152 | 289 | 160 | 10 | 77 |
| CRIST | 62 | 54 | 13 | 10 | 63 | 72 | 62 | 90 | 48 | 90 | 133 | 222 | 37 | 77 | 47 |
| | 59 | 47 | 13 | 9 | 75 | 77 | 81 | 72 | 55 | 114 | 186 | 315 | 86 | 136 | 40 |
| | 46 | 44 | 18 | 22 | 53 | 65 | 22 | 68 | 8 | 41 | 114 | 180 | 37 | 101 | 53 |
| | 85 | 78 | 27 | 13 | 57 | 85 | 122 | 100 | 73 | 128 | 176 | 281 | 96 | 153 | 84 |
| ELTMA | 2 | 24 | 72 | 48 | 21 | 51 | 56 | 66 | 51 | 55 | 88 | 241 | 14 | - | 62 |
| FORKE | 41 | - | 39 | 21 | 60 | 60 | 72 | 59 | 34 | 72 | 118 | 227 | 41 | 7 | 69 |
| GONRU | 3 | 7 | 2 | - | - | 2 | 10 | 3 | 10 | 10 | - | - | 1 | 2 | - |
| | 38 | 13 | 19 | 25 | 35 | 36 | 45 | 41 | 64 | 71 | 106 | 9 | 43 | 87 | 52 |
| | 31 | 20 | 22 | 15 | 17 | 27 | 36 | 51 | 48 | 75 | 91 | 8 | 46 | 73 | 47 |
| | 17 | 8 | 6 | 6 | 10 | 11 | 6 | 8 | 25 | 18 | 54 | 1 | 12 | 33 | 14 |
| | 34 | 23 | 21 | 15 | 28 | 44 | 52 | 40 | 84 | 78 | 144 | 21 | 69 | 90 | 56 |
| | 15 | 6 | 4 | 13 | 12 | 39 | 14 | 45 | 98 | 56 | 127 | 18 | 28 | 101 | 33 |
| GOVMI | 1 | 10 | 9 | 28 | 28 | 36 | 30 | 17 | 37 | - | 32 | 180 | 125 | 8 | 45 |
| | 2 | 15 | 25 | 22 | 12 | 41 | 25 | 24 | 37 | - | 22 | 147 | 101 | - | 32 |
| | 1 | 5 | 21 | 23 | 16 | 32 | 23 | 17 | 34 | - | 30 | 140 | 123 | - | 17 |
| HERCA | 31 | - | - | 41 | 34 | 37 | - | - | - | 5 | 4 | 2 | 67 | 55 | - |
| HINWO | 46 | 36 | 35 | 35 | 71 | 74 | 57 | 59 | 48 | 78 | 122 | 223 | 53 | 11 | 74 |
| IGAAN | 4 | 13 | 8 | 11 | 19 | 11 | 15 | - | - | 6 | 34 | 68 | 40 | 4 | 16 |
| JONKA | 2 | 20 | 12 | 20 | 19 | 31 | 26 | 29 | 54 | 11 | 67 | 135 | 104 | 9 | 26 |
| | 4 | 20 | 40 | 28 | 37 | 33 | 24 | 35 | 47 | 9 | 86 | 192 | 133 | 5 | 33 |
| KACJA | 2 | - | 52 | 47 | 37 | 75 | 58 | 65 | 121 | 4 | 47 | 409 | 79 | - | 72 |
| | - | 15 | 13 | 24 | 11 | 26 | 23 | 37 | 22 | 7 | 17 | 64 | 37 | 15 | 29 |
| | 2 | - | 48 | 75 | 36 | 79 | 79 | 84 | 101 | 7 | 23 | 300 | 69 | - | 71 |
| | 13 | 7 | 48 | 54 | 1 | 35 | 44 | 53 | 85 | 24 | 6 | 287 | 16 | 6 | 71 |
| | 3 | - | 42 | 45 | 34 | 52 | 53 | 60 | 68 | 5 | 20 | 316 | 32 | - | 47 |
| KOSDE | 38 | 67 | 57 | 22 | 96 | 76 | 79 | - | 145 | 161 | 121 | 10 | 3 | 100 | 148 |
| | 77 | 79 | 88 | 21 | 80 | 83 | 96 | - | 111 | 127 | 103 | 12 | 5 | 78 | 96 |
| LOTJO | 38 | - | 38 | 39 | 55 | 47 | - | 61 | 55 | - | - | - | 125 | 23 | - |
| MACMA | 39 | 30 | 27 | 35 | 32 | 79 | 69 | 49 | 97 | 3 | 7 | 237 | 150 | 11 | 72 |
| | 53 | 53 | 57 | 53 | 51 | 79 | 73 | 102 | 102 | 11 | 12 | 365 | - | 27 | 85 |
| | 16 | 13 | 16 | 13 | 26 | 45 | 44 | 59 | 65 | 3 | - | 271 | 166 | 12 | 29 |
| MARRU | 45 | 55 | 43 | 44 | 47 | 58 | 67 | 86 | 74 | 2 | 8 | 237 | 155 | 28 | 74 |
| | 21 | 6 | 13 | 14 | 23 | 42 | 71 | 61 | 102 | 94 | 120 | 60 | 153 | 96 | 33 |
| | 8 | 1 | 3 | - | - | - | - | 2 | 57 | 75 | 133 | 42 | 29 | 87 | 54 |
| MASMI | - | 54 | 58 | - | 18 | - | 81 | 82 | 69 | 56 | - | - | - | - | - |
| MOLSI | 26 | 64 | 73 | 84 | 84 | 42 | 109 | 136 | 1 | 72 | 190 | 298 | 92 | 100 | 87 |
| | 6 | 8 | 17 | 20 | 13 | 12 | 23 | 41 | - | 21 | 49 | 89 | 9 | 15 | 22 |
| | 5 | 17 | 25 | 29 | 34 | 16 | 36 | 71 | 1 | 37 | 113 | 231 | 44 | 46 | 30 |
| | 3 | 62 | 62 | 23 | 82 | 81 | 44 | 66 | 42 | 69 | 142 | 166 | 158 | 30 | 69 |
| | 2 | 55 | 62 | 20 | 80 | 75 | 37 | 60 | 46 | 68 | 109 | 164 | 124 | 26 | 68 |
| | 7 | 42 | 65 | 31 | 66 | 70 | 28 | 43 | 39 | 67 | 76 | 128 | 116 | 39 | 54 |
| | - | 58 | 99 | 40 | 109 | 123 | 30 | 85 | 65 | 80 | 159 | 187 | 186 | 36 | 90 |
| MORJO | - | 22 | 11 | 28 | 20 | 24 | 23 | - | - | - | - | - | 83 | 25 | 13 |
| MOSFA | - | - | 17 | 4 | 3 | 23 | 40 | 31 | 8 | 38 | 38 | 100 | 9 | 36 | 1 |
| NAGHE | 9 | 38 | 49 | 52 | 66 | 52 | 43 | 62 | 78 | 12 | 127 | 290 | 223 | 36 | 42 |
| | 20 | 48 | 30 | 48 | 53 | 33 | 59 | 57 | 64 | 66 | 82 | 235 | 182 | 22 | 62 |
| | 9 | 16 | 37 | 33 | 31 | 20 | 21 | - | - | - | - | - | 137 | 3 | - |
| OCHPA | - | - | - | 9 | - | - | 26 | 28 | - | - | 27 | 87 | - | - | 2 |
| OTTMI | 21 | 7 | 12 | - | - | 5 | 11 | 18 | 27 | 29 | 47 | 52 | 3 | 10 | 7 |
| PERZS | - | 24 | 24 | 45 | 57 | 51 | 32 | 20 | 28 | - | 13 | 103 | 97 | 2 | 41 |
| ROTEC | - | - | - | - | - | - | - | - | - | - | - | - | 41 | - | 37 |
| SARAN | 9 | 14 | 19 | 8 | 9 | 14 | 34 | 4 | 24 | 25 | 47 | 50 | 14 | 37 | 17 |
| | 9 | 12 | 12 | 11 | 9 | 12 | 50 | 9 | 55 | 63 | - | 85 | 47 | 51 | 41 |
| | 10 | 8 | 8 | 7 | 10 | 9 | 50 | 13 | 40 | 67 | - | 73 | 22 | 50 | 34 |
| | 7 | 4 | 2 | 2 | 6 | 12 | 9 | 4 | 30 | 33 | - | 27 | 31 | 30 | 24 |
| | 5 | 5 | 7 | 6 | 7 | 12 | 36 | 4 | 29 | 35 | 53 | 53 | 15 | 33 | 20 |
| SCALE | 1 | 10 | 13 | 10 | 12 | 19 | 13 | 15 | 18 | 22 | 48 | 107 | 8 | - | 24 |
| SCHHA | 44 | 34 | 38 | 14 | 70 | 39 | 6 | 76 | 32 | 43 | 124 | 56 | 73 | 36 | 88 |
| SLAPE | - | - | - | - | - | - | - | - | - | - | 276 | 451 | - | - | - |
| SLAST | 1 | 22 | 32 | 45 | 6 | 49 | 45 | 25 | 43 | 24 | 20 | 157 | 24 | 2 | 41 |
| | 1 | 10 | 17 | 13 | 8 | 20 | 18 | 15 | 16 | 14 | 6 | 44 | 7 | 1 | 18 |
| STOEN | 5 | 62 | 79 | 51 | 11 | 79 | 77 | 93 | 84 | 57 | 146 | 331 | 21 | - | 84 |
| | 2 | 61 | 3 | 3 | 11 | 75 | 66 | 83 | 72 | 48 | 141 | 282 | 33 | - | 61 |
| | 2 | 79 | 61 | 53 | 23 | 65 | 76 | 88 | 65 | 49 | 148 | 363 | 22 | - | 99 |
| STRJO | 15 | 74 | 55 | 30 | 75 | 80 | 47 | 42 | 17 | 81 | 130 | 216 | 39 | 14 | 4 |
| | 7 | 25 | 34 | 18 | 35 | 43 | 17 | 20 | 11 | 32 | 54 | 101 | 12 | 6 | - |
| | 10 | 22 | 29 | 7 | 16 | 31 | 23 | 15 | 17 | 25 | 36 | 81 | 10 | 7 | 3 |
| | 9 | 40 | 38 | 21 | 56 | 50 | 27 | 31 | 21 | 38 | 63 | 139 | 22 | 7 | 2 |
| | 9 | 31 | 41 | 33 | 63 | 51 | 26 | 42 | 19 | 68 | 87 | 209 | 28 | 9 | - |
| TEPIS | 9 | 30 | 43 | 43 | 58 | 55 | 14 | 62 | 52 | 4 | 117 | 223 | 127 | 2 | 52 |
| | 14 | 16 | 24 | 35 | 10 | 39 | 14 | 37 | 51 | 2 | 87 | 202 | 100 | 1 | 46 |
| WEGWA | 21 | 12 | 19 | 7 | 15 | 47 | 36 | 27 | 50 | - | 83 | 119 | 114 | 31 | 25 |
| YRJIL | 17 | 8 | 4 | - | - | 17 | 28 | 29 | 11 | 21 | 5 | 22 | 19 | 4 | 3 |
| ZAKJU | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 16 | 25 | 30 | 31 | 13 | 29 | 30 | 11 | 45 | 23 | 15 | 108 | 8 | 1 | 44 |
| Sum | 1442 | 2201 | 2528 | 2118 | 2829 | 3631 | 3306 | 3661 | 3711 | 3509 | 6101 | 12820 | 5254 | 2369 | 3535 |

| August | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|--------|------|------|------|------|------|------|------|------|-----|-----|------|------|------|------|------|-----|
| ARLRA | 56 | 8 | 42 | 61 | 5 | 43 | 52 | 13 | - | 19 | 10 | - | 20 | 25 | 15 | 10 |
| BERER | 83 | 29 | 9 | 31 | - | 20 | 35 | - | - | - | - | 19 | 30 | - | 26 | - |
| BIATO | 64 | 21 | 20 | 33 | 35 | 31 | 25 | 35 | 25 | 4 | 6 | 16 | 27 | 19 | 19 | 1 |
| BOMMA | 87 | 65 | 49 | 34 | 51 | 56 | 25 | 40 | 37 | 1 | 55 | 56 | 42 | 54 | 30 | 2 |
| BREMA | 5 | 37 | 4 | - | 13 | 26 | 15 | 13 | 2 | 6 | - | - | 29 | 1 | 20 | 23 |
| BRIBE | 22 | 33 | 26 | 2 | 26 | 15 | 9 | 13 | - | 46 | - | 1 | 22 | - | 12 | 29 |
| | 37 | 32 | 35 | 7 | - | 27 | 14 | 11 | - | 37 | - | 9 | 26 | - | 5 | 27 |
| CARMA | 70 | 57 | 65 | 43 | 8 | 72 | 39 | 29 | - | 7 | 68 | 73 | 73 | 49 | 21 | - |
| CASFL | 33 | 28 | 28 | 28 | 7 | 28 | 19 | 18 | - | - | 25 | 45 | 33 | 21 | 5 | - |
| CINFR | 58 | 34 | 32 | 32 | 30 | 30 | 29 | 24 | 28 | 2 | 32 | 29 | 29 | 34 | 18 | 1 |
| CRIST | 56 | 42 | 39 | 15 | 49 | 34 | 35 | 30 | 10 | 6 | 28 | 31 | 44 | 22 | 5 | 3 |
| | 69 | 56 | 48 | 17 | 52 | 40 | 34 | 43 | 6 | 5 | 31 | 23 | 29 | 25 | 8 | 2 |
| | 56 | 35 | 39 | 21 | 42 | 26 | 20 | 21 | 6 | 4 | 33 | 35 | 53 | 20 | - | 8 |
| | 87 | 81 | 73 | 35 | 84 | 64 | 57 | 29 | 9 | 2 | 9 | 10 | 62 | 45 | 12 | 1 |
| ELTMA | 65 | 41 | 38 | 29 | 35 | 37 | 29 | 18 | 3 | - | 24 | 27 | 27 | 19 | 6 | - |
| FORKE | 59 | - | 18 | 59 | - | 20 | 29 | 4 | - | 3 | 15 | 6 | 35 | 2 | 1 | - |
| GONRU | - | 2 | 2 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | 2 |
| | 30 | 56 | 56 | 32 | 41 | 48 | 38 | 10 | 54 | 36 | 39 | 13 | 4 | 36 | 34 | 37 |
| | 37 | 46 | 54 | 39 | 34 | 26 | 25 | 7 | 32 | 25 | 32 | 6 | 1 | 16 | 35 | 34 |
| | 6 | 22 | 12 | 22 | 10 | 10 | 22 | 1 | 19 | 23 | 7 | 6 | - | 12 | 17 | 18 |
| | 32 | 27 | 66 | 43 | 31 | 38 | 27 | 9 | 48 | 34 | 27 | 17 | - | 15 | 38 | 29 |
| | 19 | 40 | 33 | 23 | 37 | 35 | 20 | 4 | 22 | 22 | 35 | 1 | 1 | 2 | 22 | 22 |
| GOVMI | 44 | 37 | 18 | 32 | 22 | 23 | 30 | 12 | 4 | - | 11 | 27 | 18 | 15 | 2 | 1 |
| | 26 | 16 | 19 | 18 | 5 | 9 | 15 | 12 | 2 | - | 3 | 12 | 6 | 13 | 3 | 1 |
| | 15 | 14 | 19 | 14 | 8 | 9 | 13 | 7 | - | - | 7 | 6 | 9 | 9 | 1 | 5 |
| HERCA | - | - | - | - | 20 | - | - | - | - | - | 27 | 25 | 18 | 27 | 1 | 27 |
| HINWO | 56 | 4 | 34 | 70 | 22 | 13 | 46 | 3 | - | 4 | 22 | 10 | 32 | 8 | 3 | 3 |
| IGAAN | 18 | 3 | 8 | 13 | 5 | 4 | 2 | 1 | - | 1 | - | 9 | 6 | 2 | - | 6 |
| JONKA | 36 | 13 | 17 | 17 | 11 | 16 | 6 | 1 | 2 | - | - | 14 | 22 | 13 | 8 | 11 |
| | 30 | 22 | 14 | 24 | 4 | 16 | 18 | 2 | 1 | - | - | 7 | 6 | 10 | 8 | 7 |
| KACJA | 91 | 63 | 74 | 76 | 21 | 48 | 59 | 37 | - | - | - | 41 | 34 | 42 | - | - |
| | 35 | 23 | - | 21 | 19 | 15 | 18 | 16 | 1 | - | 7 | 11 | 5 | 10 | 2 | - |
| | 126 | 81 | 63 | 75 | 24 | 46 | 48 | 37 | - | - | - | 41 | 27 | 30 | - | - |
| | 46 | 35 | 52 | 36 | 17 | 48 | 33 | 30 | - | - | 3 | 36 | 35 | 23 | - | - |
| | 83 | 44 | 47 | 32 | 5 | 37 | 37 | 30 | - | - | - | 24 | 20 | 25 | - | - |
| KOSDE | 125 | 144 | 107 | 116 | 112 | 103 | 99 | 74 | 75 | 50 | 29 | 52 | 36 | 41 | 23 | 38 |
| | 97 | 100 | 87 | 92 | 83 | 69 | 58 | 44 | 47 | 36 | 42 | 48 | 64 | 52 | 48 | 48 |
| LOTJO | 48 | 55 | - | - | - | - | 34 | 27 | - | - | - | 11 | - | - | 3 | 46 |
| MACMA | 62 | 32 | 31 | 30 | 10 | 17 | 33 | 14 | 4 | 4 | - | 16 | 11 | 12 | 14 | 11 |
| | 78 | - | 54 | 53 | 20 | 43 | 50 | 50 | 20 | 6 | - | 30 | 19 | 25 | 29 | 17 |
| | 28 | 28 | 37 | 25 | 14 | 29 | 31 | 31 | 12 | 4 | - | 28 | 10 | 25 | 22 | 8 |
| | 64 | 60 | 43 | 44 | 17 | 50 | 70 | 35 | 17 | 6 | - | 44 | 14 | 40 | 36 | 31 |
| MARRU | 33 | 50 | 46 | 33 | 43 | 10 | 40 | 19 | 34 | - | - | - | - | - | - | - |
| | - | 36 | 36 | 32 | 28 | 23 | 22 | 16 | 23 | 22 | 22 | 4 | - | 11 | 24 | 10 |
| MASMI | - | - | 24 | 43 | 1 | - | 10 | - | - | - | - | - | - | - | - | - |
| MOLSI | 115 | 92 | 84 | 98 | 84 | 93 | 30 | 49 | 15 | - | 57 | 4 | 29 | 5 | 33 | - |
| | 30 | 24 | 25 | 15 | 31 | 27 | 12 | 21 | 5 | - | 18 | 3 | 10 | 4 | 4 | - |
| | 54 | 31 | 28 | 17 | 35 | 22 | 5 | 12 | 2 | - | 37 | 1 | 15 | 6 | 5 | - |
| | 75 | 21 | 71 | 76 | 1 | 66 | 61 | 12 | 2 | 50 | 31 | - | 43 | 28 | 23 | 37 |
| | 64 | 22 | 46 | 66 | - | 71 | 52 | 10 | 6 | 21 | 6 | - | 14 | 9 | 6 | 36 |
| | 85 | 28 | 61 | 61 | 2 | 57 | 47 | 16 | 2 | 51 | 19 | - | 43 | 28 | 25 | 39 |
| | 101 | 43 | 93 | 99 | 5 | 79 | 63 | 16 | 4 | 53 | 11 | 1 | 54 | 21 | 34 | 56 |
| MORJO | 22 | 12 | 10 | 17 | 14 | 12 | 8 | 4 | 3 | - | - | 14 | 13 | 15 | 4 | 9 |
| MOSFA | 21 | 18 | 8 | 8 | 1 | 16 | 5 | 7 | - | 2 | 22 | 26 | 19 | 15 | 11 | - |
| NAGHE | 55 | 28 | 34 | 29 | 16 | 17 | 31 | 6 | 7 | 3 | - | 35 | 18 | 23 | 22 | 25 |
| | 69 | 26 | 34 | 31 | 19 | 17 | 25 | 3 | 5 | 3 | - | 46 | 18 | 13 | 12 | 31 |
| | 27 | 20 | 15 | 15 | 15 | 18 | 12 | 12 | 2 | - | 6 | 28 | 12 | 16 | 20 | - |
| OCHPA | - | - | - | - | - | 9 | - | - | - | - | 20 | 14 | 18 | 13 | - | - |
| OTTMI | 6 | 20 | 3 | - | 9 | 12 | 1 | - | 6 | - | 11 | - | 7 | - | - | - |
| PERZS | 37 | 20 | 17 | 12 | 20 | 16 | 10 | 18 | 7 | - | 8 | 9 | - | - | 5 | 5 |
| ROTEC | 33 | 1 | 23 | 44 | 2 | 23 | 27 | 4 | - | 15 | 2 | - | 7 | 6 | - | 1 |
| SARAN | 7 | 15 | 13 | 18 | 11 | 12 | 15 | 9 | 17 | 8 | 6 | 1 | - | 4 | 14 | 8 |
| | 15 | - | 31 | 19 | 16 | 10 | 17 | 18 | 21 | 24 | 17 | - | 3 | 14 | 20 | 18 |
| | 24 | 19 | - | 16 | 19 | 18 | 18 | 15 | 26 | 22 | 22 | - | 2 | 10 | 25 | 23 |
| | 5 | 7 | 4 | 4 | 5 | 11 | 7 | 5 | 10 | 7 | 6 | - | - | 4 | 13 | 9 |
| | 10 | 13 | 15 | 12 | 10 | 13 | 10 | 8 | 8 | 5 | 10 | - | 2 | 1 | 20 | 11 |
| SCALE | 15 | 21 | 13 | 12 | 13 | 11 | 11 | 7 | - | - | 13 | - | 16 | 15 | 8 | 1 |
| SCHHA | 10 | 38 | 39 | 8 | - | 10 | 26 | 10 | - | 31 | - | 20 | 24 | - | 3 | 18 |
| SLAPE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SLAST | 63 | 41 | 39 | 38 | 15 | 35 | 29 | 12 | - | - | 2 | 14 | 16 | 15 | - | - |
| | 25 | 17 | 12 | 14 | 7 | - | 9 | 9 | - | - | 2 | 9 | 9 | 14 | - | - |
| STOEN | 99 | 93 | 74 | 56 | 62 | 64 | 36 | 28 | 6 | - | 53 | 57 | 45 | 47 | 20 | 1 |
| | 70 | 75 | 61 | 58 | 63 | 36 | 41 | 28 | 4 | - | 51 | 56 | 38 | 43 | 22 | 3 |
| | 73 | 69 | 83 | 58 | 53 | 65 | 38 | 27 | 4 | - | - | - | 57 | 66 | 22 | 5 |
| STRJO | 44 | 70 | 45 | 10 | 5 | 32 | 13 | 10 | 12 | 45 | - | 1 | 23 | - | 30 | 23 |
| | 24 | 27 | 22 | 3 | 2 | 8 | 10 | 11 | 3 | 15 | - | 2 | 12 | - | 17 | 13 |
| | 15 | 26 | 18 | 4 | 2 | 10 | 6 | 9 | 3 | 25 | - | - | 16 | - | 4 | 9 |
| | 26 | 59 | 28 | 10 | 4 | 11 | 11 | 8 | 6 | 31 | - | - | 13 | - | 21 | 12 |
| | 45 | 42 | 34 | 6 | 4 | 9 | 9 | 10 | 2 | 31 | 1 | - | 21 | - | 18 | 15 |
| TEPIS | 43 | 28 | 33 | 27 | 24 | 23 | 22 | 9 | - | - | - | 41 | 13 | 22 | 20 | 18 |
| | 38 | 21 | 29 | 29 | 21 | 18 | 26 | 12 | - | - | - | 28 | 22 | 25 | 13 | 18 |
| WEGWA | 22 | 29 | 17 | 19 | 18 | 15 | 8 | 5 | 1 | - | 15 | 1 | 9 | 11 | 1 | - |
| YRJIL | 23 | 17 | 36 | 9 | - | 32 | 1 | 12 | 3 | - | - | 9 | 19 | 11 | - | 2 |
| ZAKJU | - | - | - | 67 | 71 | 70 | 70 | 44 | - | - | 2 | 49 | 29 | 29 | 7 | - |
| | 33 | 22 | 34 | 24 | 21 | 26 | 28 | 10 | - | - | 6 | 23 | 13 | 18 | 3 | - |
| Sum | 3695 | 2807 | 2850 | 2613 | 1802 | 2448 | 2220 | 1376 | 735 | 857 | 1103 | 1411 | 1701 | 1401 | 1081 | 965 |