

October 2012 was an unexceptional month. There were phases like around October 7 and 19, where more than 50 video cameras were in operation, but also times such as end of October, where just 20 cameras could observe. The record-breaking result of 2011, which was obtained under perfect weather conditions, could not be realized again under these circumstances. With well above 8,700 hours, the effective observing time reduced by 15%. The number of recorded meteors dropped by 17,000 to 43,000. Thus, we obtained about the same total as in 2010.

End of October, Sirko Molau started to operate REMO3, a third automated and remotely operated meteor camera west of Berlin. It consists of a used Mintron camera and like the other two REMO systems of an 8 mm f/0.8 Computar lens. After years, were the creaky cameras with their 3.8 mm lens got almost blind, they are now back to the top with the 8 mm lenses. The number of meteors recorded by REMO1 has increased fourfold in 2012 compared to the same time interval in 2011. In fact, even though this camera has clearly less effective observing time, it recorded more meteor so far then the powerful video systems of Enrico Stomeo.

With respect to meteor activity, October is dominated by the Orionids. Figure 1 shows an overview of the full activity interval in 2011 and 2012. It shows the typical plateau between October 19 and 24 with a peak flux density of 13 meteoroids per 1,000 km² and hour (using a zenith exponent of 1.0 to be comparable with visual observations). That's only half of the peak flux density in 2011

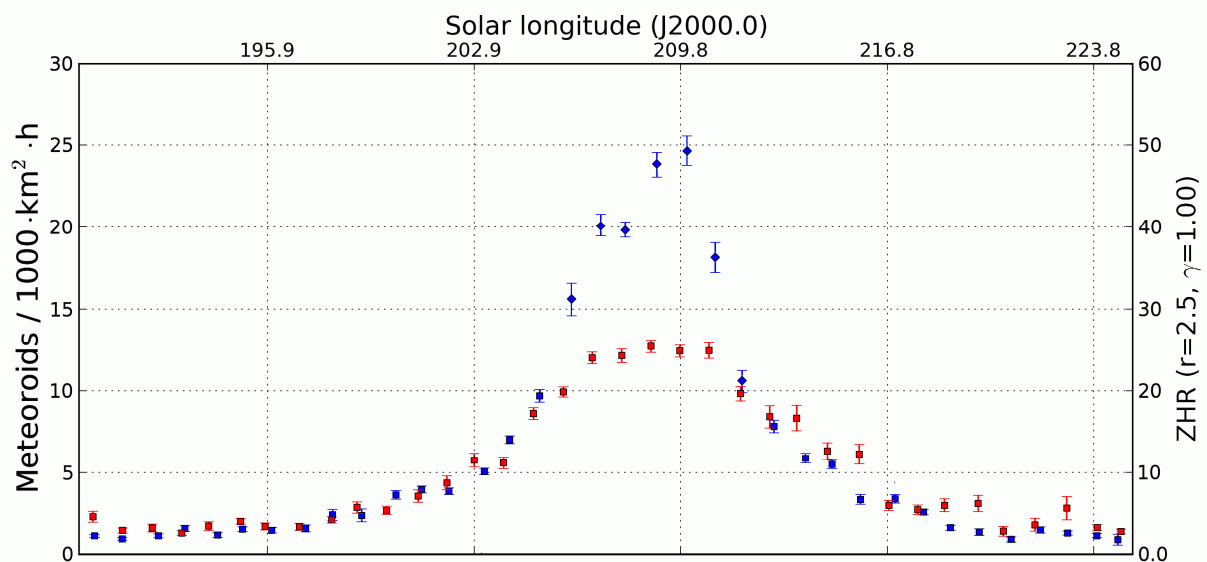


Figure 1: Flux density profile of the Orionids from data of the IMO network in 2011 (blue diamonds) and 2012 (red squares).

A systematic observation error seems improbable, as both profiles match well until 205 and after 212° solar longitude. To be on the safe side, we compared the activity profiles of the southern Taurids and sporadic meteors in the same time interval, anyway (figure 2). Also here the rates between October 20 and 25, 2011, were 30 to 40% higher than in 2012. But that's not all: Two weeks before and after the Orionid maximum, the activity in 2011 was lower than in 2012. Could there be a dependency from the lunar phase? Early October and early November 2011 there was only little disturbance from the Moon in the second half of the night, whereas the sky was brightly illuminated by the waning Moon during the Orionid maximum. In 2012, the observing conditions were poor in early October and early November (waning Moon), but the Orionid peak was only little affected by the waxing moon. So it could be that the limiting magnitude is systematically underestimated under moonlit skies (when the Moon is possibly even inside the field of view), leading to increased flux densities.

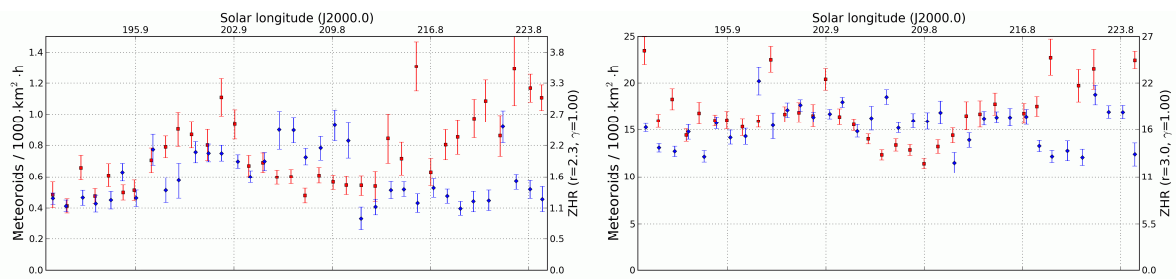


Figure 2: Flux density profile of the southern Taurids (left) and sporadic meteors (right) in the same solar longitude interval as the Orionids in figure 1. Given are the values for 2011 (blue diamonds) and 2012 (red squares).

That relativizes the observed difference in flux density between 2011 and 2012, but it does not fully explain the 100% excess in 2011. This year the peak flux density was simply lower than last year as confirmed by visual ZHR profiles of 2011 and 2012.

Let's now have a look at the Orionids (8 ORI) from the viewpoint of our last meteor shower analysis in spring 2012. Almost 55,000 Orionids could be used for the analysis, just 10% less than Perseids. The biggest surprise was the activity interval that was obtained. We had shown before that the Orionid activity surpassed October to a great extent. In our last analysis, however, the shower could be tracked from mid-August till end-November. In other words: The Orionids start right after the Perseid maximum and vanish only after the Leonids!

The fuzziness of activity intervals at the edges, when the shower activity is slowly getting lost in the sporadic background, is well-known. But even when these questionable intervals are removed, the activity interval still lasts from August 25 to November 19. During that time, the rank never exceeds 7, i.e. the radiant can be detected unequivocally. Figure 3 shows the development of the individual shower parameters (right ascension, declination, velocity, activity) over the full activity interval.

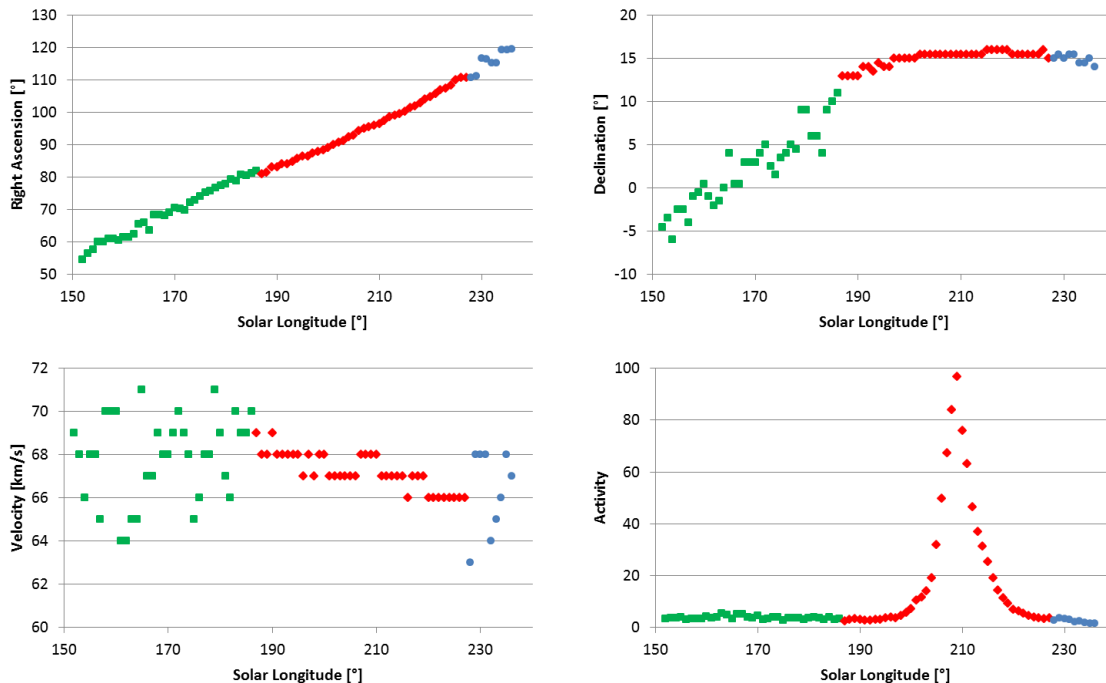


Figure 3: Shower parameters of the Orionids in the activity interval from 152 to 236° solar longitude: Right ascension (up left), declination (up right), velocity (down left) and activity (down right). The three segments of activity are marked with different colors.

The drift in right ascension is almost constant in the full activity interval with 0.73° per day (or more precisely: per degree solar longitude). With respect to declination and velocity, the shower can be split into three segments.

In the first segment until about 186° solar longitude, the declination grows constantly about 0.4° per day with significant scatter from one day to the next. In the second segment until 227° solar longitude, the scatter is negligible. The declination grows only by a small amount and remains constant in the end. In the last segment, the declination is slowly decreasing.

The meteor shower velocity is almost constant in the first segment, but there is significant scatter. With the begin of the second interval, the scatter is almost gone and the velocity reduces by 0.06 km/s per day on average. In the last interval, there is once more significant day-to-day variation in the velocity.

Table 1 gives the average shower parameters for the full activity interval, and for each segment individually.

Table 1: Parameters of the Orionids from the MDC Working List and the analysis of the IMO network in 2012. Given are the mean parameters over the full activity interval, and the values for the three individual segments.

| Source | Solar Longitude | | Right Ascension | | Declination | | Vinf | |
|----------|-----------------|-----------------|-----------------|--------------|--------------|--------------|----------------|-----------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 209 | - | 95.4 | +0.7 | +15.9 | +0.1 | 67.1 | - |
| IMO 2012 | 209 | 152-236 | 97.7 | +0.73 | +13.5 | +0.25 | 67.1 | -0.02 |
| | 169 | 152-186 | 69.2 | +0.78 | +2.3 | +0.39 | 67.9 | - |
| | 209 | 187-227 | 96.6 | +0.75 | +15.2 | +0.06 | 67.1 | -0.02 |
| | 232 | 228-236 | 117.2 | +1.0 | +14.9 | -0.1 | 66.3 | - |

There may be different interpretations for the observed variations.

The most simplistic explanation is, that there is stronger scatter at the edges of the activity interval due to lower activity. That is unlikely, though, as the activity remains at a low level until 197 and after 225° solar longitude, i.e. the scatter is reducing dramatically at times when the number of Orionids is still very low.

In principle we could observe here the effects of more than one shower. However, there is no real discontinuity at 186 and 227° solar longitude – only the standard deviation of two parameters changes.

Another option could be, that the Orionid stream consists of an older and a younger component. Over time, the meteoroids of the older background component have dispersed more widely in space and time from the mean orbit of parent comet 1/P Halley, whereas the young component is still compact. It is well-known, that the Orionid activity was significantly enhanced between 2006 and 2009, which hints on an additional component crossing the Earth orbit.

Last but not least it is thinkable that Earth crosses first remote areas of the meteoroid stream, where particles had to undergo strong perturbations to move that far from the comets orbit. Thus, the scatter in parameters is stronger here, whereas the near peak the Earth crosses the core of the particle stream with only little perturbations.

The last two explanations may sound plausible, but they are pure speculation at this time until they are confirmed by some computer simulations.

In the end we would like to hints on a little curiosity: In our meteor shower analysis we find two artifacts, which are common for large meteor showers. They have certain similarity to the Orionids and are probably caused by observational errors. A third shower, however, is particularly interesting. It can be tracked between 208 and 213° solar longitude and fits well to the „classical“ Orionids based on the radiant position and activity. With 38 km/s, the velocity is just half of the typical Orionid velocity, though! The origin of the artifact is unclear at this time.

Back to other meteor shower of October 2012. The biggest surprise was not presented by the Orionids, but a few days earlier by the Draconids. An outburst was predicted for last year, and it was well observed both visually and by the video systems of the IMO network. There was no prediction for enhanced activity in 2012. The bigger was the surprise, when Peter Brown reported an outburst in the evening hours of October 8, based on data of the Canadian CMOR

radar. That outburst was stronger than any other shower ever observed by CMOR. Soon it was suspected, that the outburst mainly consisted of very faint radar meteors beyond the limits of our video cameras. A first analysis revealed a peak shortly after 17 UT with a FWHM (full width at half maximum) of about 90 minutes – as short as the 2011 outburst. Unfortunately, skies were not yet dark at this time in Europe – even the most eastern stations started observation just at the peak. Furthermore the weather was not favorable at many observing sites. Still, we were able to record 170 shower members from the descending activity branch (figure 4). The peak flux density was measured right after 17 UT with 10 meteoroids per 1.000 km² and hour. Already three hours later, the rate had decreased such that it did not stand out from the sporadic background anymore. Hence, the activity was clearly higher than usual, but in the visual range it could not compete with the 2011 outburst, when the flux density was more than ten times as high. In addition, the 2012 outburst was 0.6° solar longitude or nearly 15 hours later than in the previous year.

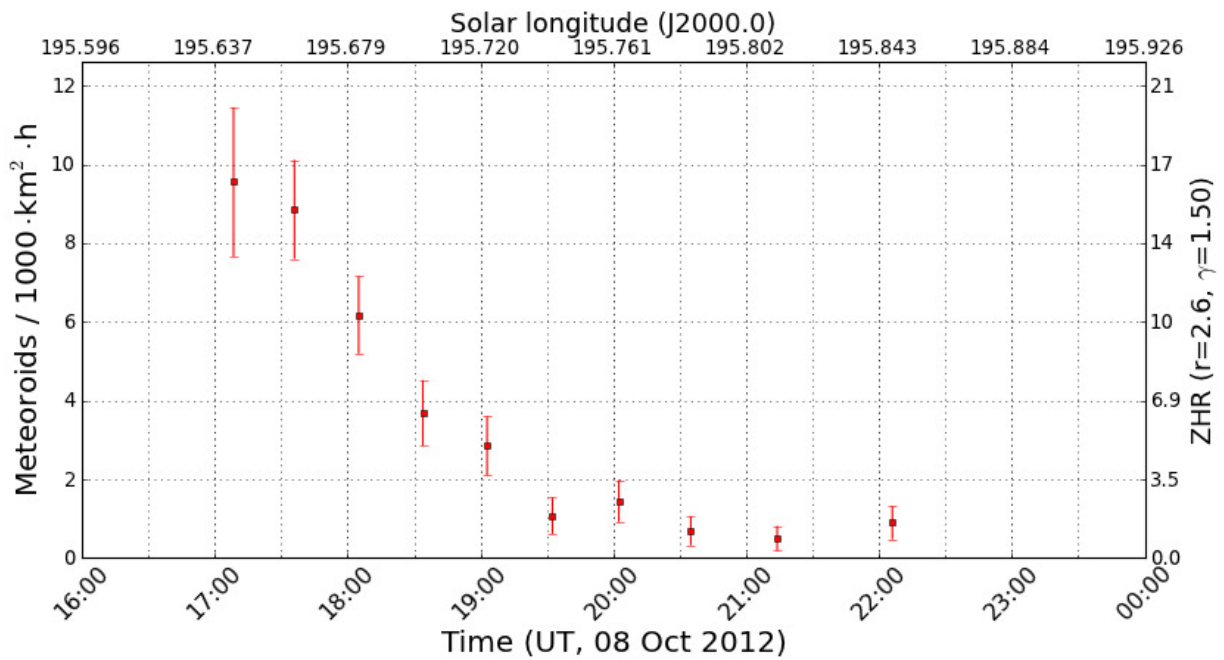


Figure 4: Flux density profile of the Draconids in the evening hours of October 8, 2012.

In the latest meteor shower analysis, the October Draconids (9 DRA) are only detected between 194 and 196° solar longitude. The by far biggest amount of those 2,500 shower meteors were probably recorded in 2011. The parameters of the shower are summarized in table 2.

Table 2: Parameters of the October Draconids from the MDC Working List and the analysis of the IMO network in 2012.

| Source | Solar Longitude | | Right Ascension | | Declination | | Vinf | |
|----------|-----------------|--------------|-----------------|-----------|-------------|-----------|-------------|--------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 196 | - | 264.1 | +1.9 | +57.6 | +0.3 | 23.3 | - |
| IMO 2012 | 195 | 194-196 | 262.0 | - | +56.0 | - | 21.0 | - |

The epsilon Geminids (23 EGE) resemble the Orionids both with respect to radiant position and velocity, but they cannot compete with their „big brother“ with respect to flux density. Their 2012 activity profile is little spectacular – the flux density amounted in the full activity interval to about 4 meteoroids per 1,000 km² and hour without any significant peak. In our recent analysis, the shower could be traced with more than 7,000 meteors between end of September and early November. The rank remains below 9 in the full activity interval. So it is no surprise that the shower parameters determined by us match perfectly to the values from the MDC list (table 3).

Table 3: Parameters of the epsilon Geminids from the MDC Working List and the analysis of the IMO network in 2012.

| Source | Solar Longitude | | Right Ascension | | Declination | | Vinf | |
|----------|-----------------|-----------------|-----------------|--------------|-------------|--------------|----------------|-----------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 206 | - | 101.6 | - | +26.7 | - | 69.7 | - |
| IMO 2012 | 209 | 186-220 | 104.7 | +0.84 | +27.6 | -0.11 | 70.5 | 0 |

A little more surprising was the analysis of the October Ursae Majorid (333 OCU) activity. Typically this shower reaches peak flux densities of up to 5 meteoroids per 1,000 km² and hour. This year, the value grew beyond ten in the morning hours of October 15 (figure 5). To exclude binning effects, we tested different parameter combinations. Still the higher the temporal resolution we chose, the more prominent was the peak. A detailed analysis revealed that the four Portuguese TEMPLAR cameras of Rui Goncalves had recorded an unusual number of shower meteors on October 15 after 5 UT. Unfortunately there were hardly other cameras active by that time. At least, also the Portuguese cameras of Carlos Saraiva detected a few October Ursae Majorids by that time, whereas ICC7 at the Canary Islands recorded nothing unusual.

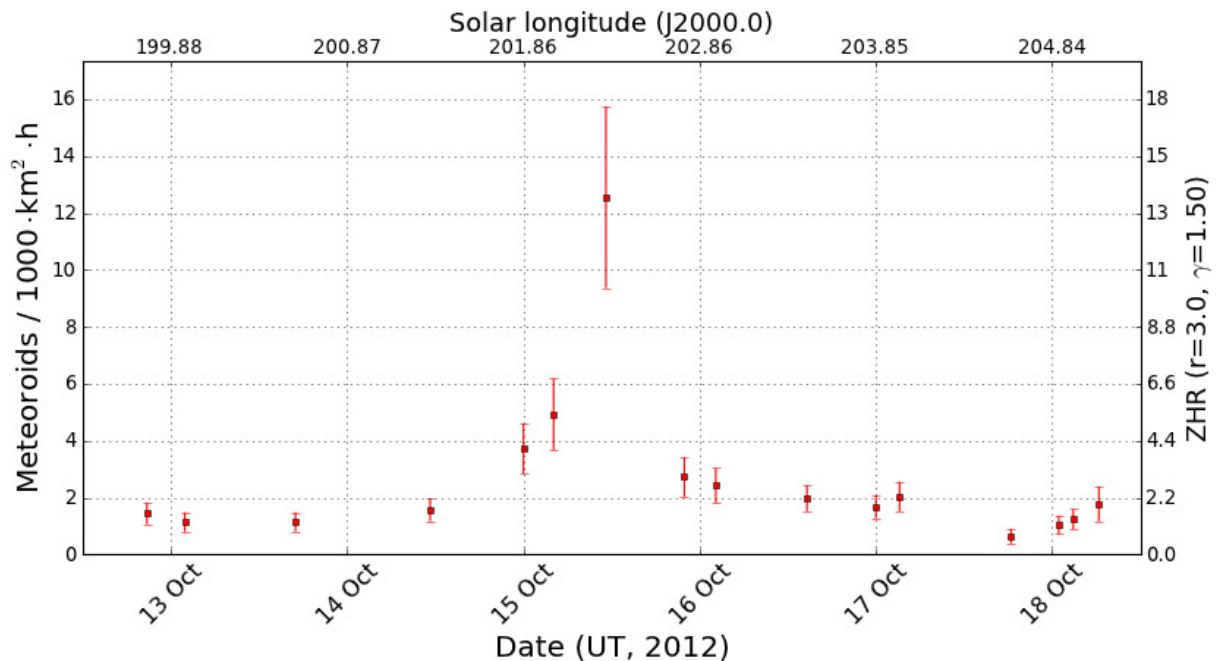


Figure 5: Flux density profile of the October Ursae Majorids from data of the IMO network in 2012, calculated with a zenith exponent of $\gamma=1.5$.

Table 4 presents the parameters of this shower, derived from well over 1,200 shower members. The October Ursae Majorids are only active in five nights. Thanks to their large declination, the drift in right ascension is more than 2° per day. In total, the parameters derived recently by us fit well to the values given by MDC.

Table 4: Parameters of the October Ursae Majorids from the MDC Working List and the analysis of the IMO network in 2012.

| Source | Solar Longitude | | Right Ascension | | Declination | | Vinf | |
|----------|-----------------|-----------------|-----------------|--------------|-------------|--------------|----------------|-----------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 202 | - | 144.8 | - | +64.5 | - | 55.2 | - |
| IMO 2012 | 202 | 201-205 | 144.1 | +2.4 | +64.3 | -0.4 | 53.6 | - |

The October Camelopardalids (281 OCT) remained inconspicuous this year. No surprise, as we had shown in 2009 that this shower is only active at 192.6° solar longitude for overall less than six hours. That observing window fell into the European afternoon hours this year, which is why there are no observations of this shower.

Our meteor shower analysis of spring 2012 yields two shower candidates in the first decade of October, which fit reasonably to the October Camelopardalids. Unfortunately, both show too much scatter to be regarded as a safe detection of a days-long background component for this shower.

In 2012, the Leonids Minorids (22 LMI) showed a flat activity profile without a clear peak. They were traced between October 18 and 28 in our last meteor shower analysis. The shower parameters show only little scatter and the agreement with the MDC values is once more remarkable (table 5).

Table 5: Parameters of the Leonis Minorids from the MDC Working List and the analysis of the IMO network in 2012.

| Source | Solar Longitude | | Right Ascension | | Declination | | Vinf | |
|----------|-----------------|--------------|-----------------|-----------|-------------|-----------|-------------|--------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 210 | - | 161.4 | +1.4 | +36.2 | -0.4 | 62.9 | - |
| IMO 2012 | 209 | 204-214 | 159.9 | +1.0 | +36.7 | -0.2 | 60.9 | - |

Of course, our 2012 meteor shower analysis revealed further meteor showers in October which are less prominent. In the following, they shall be presented in more detail.

The sigma Arietids (237 SSA) were detected with over 4,600 meteors between October 1 and 29. A more detailed analysis revealed that there are in fact at least two very similar meteor showers. The first segment until 207° solar longitude does not fulfill our quality criteria, as it shows too strong scatter in declination and an unusually high reduction of meteor shower velocity. Still it yielded an average rank of 7, which hints on a real source.

The other segment has a clear activity profile. At maximum on October 28, a rank of 4 is reached.

If both segments are compared with the MDC parameters given for the sigma Arietids it becomes clear, that the list values fit to neither of these segments. Thus, the first segment is omitted because of strong scatter in parameters, whereas the second segment is found to be the onset of the northern Taurid activity.

The gamma Piscids (236 GPS) can be tracked between October 15 and 22 in our data set. The shower shows a constant activity without any noticeable peak. The scatter in parameters is acceptable, which is why we regard this shower as real even though it never reaches a rank below 10. The agreement with the MDC list values is mediocre (table 6).

Table 6: Parameters of the gamma Piscids from the MDC Working List and the analysis of the IMO network in 2012.

| Source | Solar Longitude | | Right Ascension | | Declination | | Vinf | |
|----------|-----------------|--------------|-----------------|-----------|-------------|-----------|-------------|--------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 200 | - | 17.7 | - | +9.3 | - | 17.5 | - |
| IMO 2012 | 204 | 201-208 | 17.4 | +1.1 | +16.8 | +0.7 | 23.6 | - |

Between October 9 and 26, we could identify an unknown shower with more than 3,000 shower members. The activity interval may last even a bit longer, but at the edges the shower parameters deviate significantly. The fast meteor shower presents only little scatter in right ascension and velocity, and some more scatter in declination. The rank is all the time below 10, which is why it

can be regarded as a safe detection. The activity profile shows a slight increase without a clear peak. The meteor shower velocity increases significantly in October.

To be on the safe side, we compared our shower parameters with the latest version of the MDC list, and there was indeed a match! The tau Cancrid meteor shower (480 TCA) was only recently reported by Jenniskens. There is no velocity information given for this shower, but only a radiant position. However, when the difference in solar longitude is taken into account, the two radiant positions from Jenniskens and us deviate less than one degree from one another (table 7).

Table 7: Parameters of the tau Cancrids from the MDC Working List and the analysis of the IMO network in 2012.

| Source | Solar Longitude | | Right Ascension | | Deklination | | Vinf | |
|----------|-----------------|--------------|-----------------|-----------|-------------|-----------|-------------|--------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 207 | - | 137.5 | - | +30.5 | - | - | - |
| IMO 2012 | 204 | 196-212 | 134.2 | +1.0 | +29.4 | +0.1 | 68.7 | +0.22 |

At the end of October, another unknown meteor shower could be discovered with about 600 members between 211 and 219° solar longitude. It shows a distinct activity profile with maximum at October 28. The shower closely resembles to the Leonis Minorids, but the radiant is located 15° further north. At peak, a rank of 6 is reached, which is a strong indicator for the reality of the shower. Once more we consulted the latest version of the MDC list, and once more there was a hit. This time our new shower fits perfectly to the lambda Ursae Majorids (524 LUM) reported only recently by Andreic (table 8).

Table 8: Parameters of the lambda Ursae Majorids from the MDC Working List and the analysis of the IMO network in 2012.

| Source | Solar Longitude | | Right Ascension | | Deklination | | Vinf | |
|----------|-----------------|--------------|-----------------|-----------|-------------|-----------|-------------|--------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 215 | - | 158 | +0.99 | +49 | -0.52 | 60.3 | - |
| IMO 2012 | 214 | 211-219 | 156.1 | +1.1 | +48.9 | -1.1 | 61.5 | 0 |

Also at the end of October, we could successfully detect the Andromedids (18 AND). Between October 27 and December 5, more than 2,400 shower meteors were registered. The analysis of this shower revealed some peculiarities: Typically the right ascension is growing monotonously, whereas for some showers the sign of growth in declination may change in the activity interval (like in case of the Orionids). Here we found the opposite: The increase in right ascension turns into a decrease towards the end of the activity interval, whereas declination rises continuously from 20 to 60°.

It turns out that the shower can easily be divided in two segments. The first segments fits perfectly to the MDC values for the Andromedids (table 9). We see a moderate increase in right ascension and declination. The activity profile shows a prominent peak at November 9 with a rank of 5.

Table 9: Parameters of the Andromedids from the MDC Working List and the analysis of the IMO network in 2012.

| Source | Solar Longitude | | Right Ascension | | Deklination | | Vinf | |
|----------|-----------------|--------------|-----------------|-----------|-------------|-----------|-------------|--------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 232 | - | 24.2 | +0.63 | +32.5 | +0.33 | 20.5 | - |
| IMO 2012 | 226 | 213-238 | 22.7 | +0.3 | +29.4 | +0.6 | 19.4 | -0.19 |

The second segment presents a decrease in right ascension combined with a steep increase in declination. This shower has an almost constant velocity and a flat activity profile with a

minimum rank of 7. It fits well to the December phi Cassiopeiids (446 DPC) recently reported to the MDC by Jenniskens (table 10). Indirectly, also the reduction in right ascension and the strong increase in declination is confirmed. If the position measured by us is extrapolated to the solar longitude given by Jenniskens, the deviation in radiant position is less than a degree.

Table 10: *Parameters of the December phi Cassiopeiids from the MDC Working List and the analysis of the IMO network in 2012.*

| Source | Solar Longitude | | Right Ascension | | Declination | | Vinf | |
|----------|-----------------|-----------------|-----------------|--------------|-------------|--------------|----------------|-----------------|
| | Mean [°] | Interval [°] | Mean [°] | Drift [°] | Mean [°] | Drift [°] | Mean [km/s] | Drift [km/s] |
| MDC | 252.5 | - | 19.8 | - | +58.0 | - | 19.8 | - |
| IMO 2012 | 249 | 244-253 | 23.3 | -0.5 | +52.6 | +1.7 | 17.8 | 0 |

Beyond these showers, we found traces of the psi Aurigids (133 PSA), zeta Taurids (226 ZTA), lambda Draconids (135 LDA), eta Taurids (417 ETT) and October Lyncids (228 OLY) in our data. In all cases the scatter in meteor parameters was too high for a reliable confirmation of these showers, though.

1. Observers

| Code | Name | Place | Camera | FOV [$^{\circ}$] | St.LM [mag] | Eff.CA [km 2] | Nights | Time [h] | Meteors |
|-------|----------------|----------------------|--------------------|-----------------------|----------------|----------------------|--------|-------------|---------|
| ARLRA | Arlt | Ludwigsfelde/DE | LUDWIG1 (0.8/8) | 1488 | 4.8 | 726 | 11 | 53.7 | 90 |
| BERER | Berko | Ludanyhalaszi/HU | HULUD1 (0.95/3) | 2256 | 4.8 | 1540 | 18 | 125.8 | 1049 |
| | | | HULUD2 (0.75/6) | 4860 | 3.9 | 1103 | 17 | 116.3 | 327 |
| | | | HULUD3 (0.75/6) | 4661 | 3.9 | 1052 | 16 | 109.5 | 217 |
| BIRSZ | Biro | Agostyan/HU | HUAGO (0.75/4.5) | 2427 | 4.4 | 1036 | 19 | 151.8 | 548 |
| BOMMA | Bombardini | Faenza/IT | MARIO (1.2/4.0) | 5794 | 3.3 | 739 | 14 | 76.7 | 298 |
| BREMA | Breukers | Hengelo/NL | MBB3 (0.75/6) | 2399 | 4.2 | 699 | 22 | 135.3 | 488 |
| | | | MBB4 (0.8/8) | 1470 | 5.1 | 1208 | 19 | 141.5 | 437 |
| BRIBE | Brinkmann | Herne/DE | HERMINE (0.8/6) | 2374 | 4.2 | 678 | 26 | 147.4 | 593 |
| | | Berg. Gladbach/DE | KLEMOI (0.8/6) | 2286 | 4.6 | 1080 | 28 | 173.8 | 880 |
| CASFL | Castellani | Monte Baldo/IT | BMH2 (1.5/4.5)* | 4243 | 3.0 | 371 | 21 | 131.0 | 667 |
| CRIST | Crivello | Valbrevenna/IT | BILBO (0.8/3.8) | 5458 | 4.2 | 1772 | 24 | 147.0 | 989 |
| | | | C3P8 (0.8/3.8) | 5455 | 4.2 | 1586 | 24 | 146.7 | 714 |
| | | | STG38 (0.8/3.8) | 5614 | 4.4 | 2007 | 22 | 73.4 | 547 |
| CSISZ | Csizmadia | Zalaegerszeg/HU | HUVCSE01 (0.95/5) | 2423 | 3.4 | 361 | 17 | 87.4 | 310 |
| ELTMA | Eltri | Venezia/IT | MET38 (0.8/3.8) | 5631 | 4.3 | 2151 | 19 | 157.4 | 1026 |
| GONRU | Goncalves | Tomar/PT | TEMPLAR1 (0.8/6) | 2179 | 5.3 | 1842 | 21 | 171.3 | 793 |
| | | | TEMPLAR2 (0.8/6) | 2080 | 5.0 | 1508 | 22 | 183.8 | 755 |
| | | | TEMPLAR3 (0.8/8) | 1438 | 4.3 | 571 | 26 | 180.6 | 743 |
| | | | TEMPLAR4 (0.8/3.8) | 4475 | 3.0 | 442 | 22 | 160.3 | 629 |
| GOVMI | Govedic | Sredisce ob Dr./SI | ORION2 (0.8/8) | 1447 | 5.5 | 1841 | 22 | 119.4 | 702 |
| | | | ORION3 (0.95/5) | 2665 | 4.9 | 2069 | 18 | 96.4 | 349 |
| | | | ORION4 (0.95/5) | 2662 | 4.3 | 1043 | 18 | 105.5 | 392 |
| HINWO | Hinz | Brannenburg/DE | ACR (2.0/35)* | 557 | 7.4 | 4954 | 11 | 55.1 | 584 |
| IGAAN | Igaz | Baja/HU | HUBAJ (0.8/3.8) | 5552 | 2.8 | 403 | 23 | 144.4 | 531 |
| | | Debrecen/HU | HUDEB (0.8/3.8) | 5522 | 3.2 | 620 | 26 | 170.3 | 875 |
| | | Hodmezovasar./HU | HUHOD (0.8/3.8) | 5502 | 3.4 | 764 | 20 | 158.9 | 766 |
| | | Budapest/HU | HUPOL (1.2/4) | 3790 | 3.3 | 475 | 17 | 58.3 | 102 |
| JONKA | Jonas | Budapest/HU | HUSOR (0.95/4) | 2286 | 3.9 | 445 | 22 | 159.9 | 550 |
| KACJA | Kac | Kostanjevec/SI | METKA (0.8/12)* | 715 | 6.4 | 640 | 4 | 28.7 | 199 |
| | | Ljubljana/SI | ORION1 (0.8/8) | 1402 | 3.8 | 331 | 12 | 37.3 | 52 |
| | | Kamnik/SI | REZIKA (0.8/6) | 2270 | 4.4 | 840 | 16 | 110.9 | 1336 |
| | | | STEFKA (0.8/3.8) | 5471 | 2.8 | 379 | 12 | 55.1 | 176 |
| KERST | Kerr | Glenlee/AU | GOCAM1 (0.8/3.8) | 5189 | 4.6 | 2550 | 30 | 210.6 | 933 |
| KISSZ | Kiss | Sulysap/HU | HUSUL (0.95/5)* | 4295 | 3.0 | 355 | 24 | 168.6 | 251 |
| KOSDE | Koschny | Izana Obs./ES | ICC7 (0.85/25)* | 714 | 5.9 | 1464 | 14 | 132.5 | 1136 |
| | | Noordwijkerhout/NL | LIC4 (1.4/50)* | 2027 | 6.0 | 4509 | 16 | 57.2 | 216 |
| MACMA | Maciejewski | Chelm/PL | PAV35 (1.2/4) | 4383 | 2.5 | 253 | 20 | 118.6 | 279 |
| | | | PAV36 (1.2/4)* | 5732 | 2.2 | 227 | 24 | 140.9 | 649 |
| | | | PAV43 (0.95/3.75)* | 2544 | 2.7 | 176 | 22 | 139.4 | 313 |
| MARGR | Maravelias | Lofoupoli/GR | LOOMECON (0.8/12) | 738 | 6.3 | 2698 | 24 | 170.1 | 832 |
| MOLSI | Molau | Seysdorf/DE | AVIS2 (1.4/50)* | 1230 | 6.9 | 6152 | 16 | 108.2 | 1518 |
| | | | MINCAM1 (0.8/8) | 1477 | 4.9 | 1084 | 20 | 140.6 | 480 |
| | | Ketzür/DE | REMO1 (0.8/8) | 1467 | 5.9 | 2837 | 25 | 206.6 | 2206 |
| | | | REMO2 (0.8/8) | 1478 | 6.3 | 4467 | 2 | 18.8 | 48 |
| | | | REMO3 (0.8/8) | 1420 | 5.6 | 1967 | 2 | 16.2 | 29 |
| MORJO | Morvai | Fülöpszallas/HU | HUFUL (1.4/5) | 2522 | 3.5 | 532 | 22 | 173.5 | 599 |
| OCAFR | Ocana Gonzales | Madrid/ES | FOGCAM (1.4/7) | 1890 | 3.9 | 109 | 8 | 5.2 | 16 |
| OCHPA | Ochner | Albiano/IT | ALBIANO (1.2/4.5) | 2944 | 3.5 | 358 | 13 | 39.5 | 330 |
| OTTMI | Otte | Pearl City/US | ORIE1 (1.4/5.7) | 3837 | 3.8 | 460 | 27 | 177.8 | 906 |
| PERZS | Perko | Becsehely/HU | HUBEC (0.8/3.8)* | 5498 | 2.9 | 460 | 20 | 143.8 | 1281 |
| PUCRC | Pucer | Nova vas nad Dra./SI | MOBCAM1 (0.75/6) | 2398 | 5.3 | 2976 | 24 | 160.0 | 1049 |
| ROTEC | Rothenberg | Berlin/DE | ARMEFA (0.8/6) | 2366 | 4.5 | 911 | 22 | 139.3 | 322 |
| SARAN | Saraiva | Carnaxide/PT | RO1 (0.75/6) | 2362 | 3.7 | 381 | 25 | 158.5 | 486 |
| | | | RO2 (0.75/6) | 2381 | 3.8 | 459 | 24 | 172.3 | 625 |
| | | | SOFIA (0.8/12) | 738 | 5.3 | 907 | 24 | 167.5 | 410 |
| SCALE | Scarpa | Alberoni/IT | LEO (1.2/4.5)* | 4152 | 4.5 | 2052 | 22 | 111.3 | 537 |
| SCHHA | Schremmer | Niederkrüchten/DE | DORAEMON (0.8/3.8) | 4900 | 3.0 | 409 | 27 | 194.0 | 889 |
| SLAST | Slavec | Ljubljana/SI | KAYAK1 (1.8/28) | 563 | 6.2 | 1294 | 13 | 58.3 | 271 |
| STOEN | Stomeo | Scorze/IT | MIN38 (0.8/3.8) | 5566 | 4.8 | 3270 | 27 | 150.8 | 1547 |
| | | | NOA38 (0.8/3.8) | 5609 | 4.2 | 1911 | 27 | 150.4 | 1095 |
| | | | SCO38 (0.8/3.8) | 5598 | 4.8 | 3306 | 28 | 163.8 | 1454 |
| STRJO | Strunk | Herford/DE | MINCAM2 (0.8/6) | 2362 | 4.6 | 1152 | 24 | 165.0 | 396 |
| | | | MINCAM3 (0.8/12) | 728 | 5.7 | 975 | 25 | 161.8 | 448 |
| | | | MINCAM4 (1.0/2.6) | 9791 | 2.7 | 552 | 21 | 118.2 | 188 |
| | | | MINCAM5 (0.8/6) | 2349 | 5.0 | 1896 | 25 | 154.9 | 649 |
| TEPIS | Tepliczky | Budapest/HU | HUMOB (0.8/6) | 2388 | 4.8 | 1607 | 22 | 158.9 | 918 |
| TRIMI | Triglav | Velenje/SI | SRAKA (0.8/6)* | 2222 | 4.0 | 546 | 18 | 98.7 | 389 |
| YRJIL | Yrjölä | Kuusankoski/FI | FINEXCAM (0.8/6) | 2337 | 5.5 | 3574 | 20 | 92.5 | 457 |
| ZELZO | Zelko | Budapest/HU | HUVCSE03 (1.0/4.5) | 2224 | 4.4 | 933 | 7 | 40.0 | 109 |
| Sum | | | | | | | 31 | 8755.2 | 42975 |

* active field of view smaller than video frame

2. Observing Times (h)

| October | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ARLRA | - | - | - | - | - | - | 4.3 | 3.8 | 7.0 | - | - | - | 3.7 | - | 2.4 |
| BERER | 2.6 | - | 6.8 | - | 8.7 | 5.9 | 8.7 | 10.3 | 6.7 | 9.7 | 5.6 | - | - | - | 2.5 |
| | 1.0 | - | - | - | 10.0 | 6.7 | 8.9 | 10.2 | 6.7 | 8.5 | 5.7 | - | - | - | 2.3 |
| | - | - | - | - | 9.5 | 6.7 | 8.9 | 10.9 | 7.4 | 8.1 | 5.4 | - | - | - | 2.0 |
| BIRSZ | 7.6 | 2.4 | 10.7 | 4.2 | 10.5 | 6.9 | 8.6 | 8.5 | - | - | - | - | - | 10.5 | - |
| BOMMA | 2.2 | 3.6 | 11.1 | 8.0 | - | 5.5 | 7.9 | 2.1 | - | - | - | - | - | 2.0 | 1.7 |
| BREMA | - | 4.1 | - | 0.8 | - | 5.4 | 8.4 | 9.1 | 6.7 | 9.7 | 5.6 | 6.5 | - | - | - |
| | - | - | - | 1.6 | - | 9.5 | 11.0 | 9.7 | 7.4 | 9.5 | 6.6 | 7.6 | - | - | 9.6 |
| BRIBE | 0.7 | 3.8 | - | 2.6 | - | 1.3 | 6.7 | - | 8.7 | 7.0 | 5.1 | 5.8 | 0.3 | 0.8 | 5.5 |
| | 2.6 | 0.9 | - | 3.9 | 0.2 | 2.0 | 10.7 | 0.2 | 11.2 | 11.2 | 3.0 | 10.0 | 1.6 | - | 7.1 |
| CASFL | - | 9.2 | 5.2 | 4.6 | 4.2 | - | 7.6 | - | - | 6.5 | - | 2.6 | 1.8 | - | 2.7 |
| CRIST | 3.2 | 5.0 | 2.4 | 1.4 | 8.8 | - | - | 0.7 | 10.4 | 11.0 | - | 10.5 | 5.6 | - | 9.3 |
| | 6.5 | 4.1 | - | - | 9.9 | - | 7.9 | 0.7 | 6.8 | 7.7 | 0.3 | 9.8 | 5.4 | - | 8.7 |
| | - | 5.0 | 2.6 | 0.9 | 8.1 | 1.4 | - | 0.6 | 5.5 | 10.6 | - | 10.5 | 1.0 | - | 1.4 |
| CSISZ | 1.9 | - | 9.3 | 3.6 | 8.6 | 1.1 | 8.0 | 9.0 | 1.3 | - | 1.7 | - | - | - | - |
| ELTMA | - | - | 10.2 | 7.6 | 8.5 | 3.2 | 5.2 | - | 8.6 | - | - | 1.1 | - | - | - |
| GONRU | 9.5 | 5.9 | 10.6 | 10.8 | 7.5 | 10.6 | 7.7 | 8.7 | - | 8.9 | - | 10.2 | 7.8 | 11.1 | 11.0 |
| | 10.7 | 6.4 | 10.8 | 11.0 | 7.7 | 10.6 | 8.5 | 8.8 | - | 9.1 | - | 10.9 | 7.9 | 11.2 | 11.1 |
| | 10.6 | 5.3 | 10.7 | 10.7 | 6.2 | 10.6 | 7.1 | 7.3 | 2.8 | 4.4 | 5.3 | 9.2 | 7.0 | 10.6 | 10.6 |
| | 9.8 | 5.6 | 10.8 | 10.9 | 6.2 | 10.7 | 7.3 | 8.2 | - | 7.2 | - | 8.0 | 5.2 | 10.5 | 10.8 |
| GOVMI | 2.7 | 6.0 | - | - | 10.8 | 6.5 | 9.0 | 8.0 | 0.4 | 1.2 | 2.0 | - | - | 2.8 | 1.2 |
| | 3.6 | 5.4 | - | - | 10.9 | 5.4 | 9.1 | 6.5 | - | 0.8 | - | - | - | 1.4 | - |
| | - | - | 10.2 | 8.1 | 10.9 | 8.4 | 6.9 | 8.4 | - | 1.0 | - | 0.3 | - | 4.1 | 1.4 |
| HINWO | - | 1.6 | 1.7 | - | 3.1 | - | - | - | - | - | - | - | 6.9 | 5.2 | - |
| IGAAN | - | 0.2 | 4.0 | 6.5 | 8.4 | 7.4 | - | 5.9 | 9.9 | 0.7 | 2.3 | - | - | - | 5.8 |
| | 0.2 | 0.3 | 6.1 | 7.6 | 9.1 | 7.7 | 4.7 | 10.5 | 3.4 | 6.4 | 8.9 | 1.6 | 1.4 | - | 9.8 |
| | - | - | 10.2 | 7.4 | 10.0 | 10.3 | - | 10.2 | 9.1 | 0.9 | 5.8 | - | 2.4 | - | 6.0 |
| | - | - | 1.0 | 0.3 | - | 0.5 | - | 3.4 | 2.3 | 6.2 | 2.1 | - | - | - | - |
| JONKA | - | - | 10.8 | 5.0 | 10.8 | 6.6 | 8.1 | 8.8 | 8.8 | 4.8 | 3.4 | 0.8 | - | - | 1.4 |
| KACJA | - | - | - | - | 10.4 | 3.9 | - | - | - | - | - | - | - | - | - |
| | - | - | - | 0.2 | 1.6 | 2.5 | 0.8 | - | - | - | - | - | - | - | - |
| | 1.9 | - | 3.0 | 0.9 | 1.9 | 6.4 | 5.6 | 4.7 | - | - | - | - | - | - | - |
| | 2.8 | - | 5.5 | 3.2 | 2.6 | 5.9 | 1.7 | 3.4 | - | - | - | - | - | - | - |
| KERST | - | 5.2 | 8.1 | 9.6 | 9.6 | 9.3 | 9.5 | 9.3 | 7.4 | 5.2 | 7.9 | 9.3 | 9.2 | 8.5 | 8.3 |
| KISSZ | 1.0 | - | 9.7 | 6.9 | 10.6 | 7.3 | 7.9 | 9.4 | 5.3 | 5.0 | 5.1 | - | 1.0 | - | 2.4 |
| KOSDE | 8.0 | - | 9.4 | - | - | 9.7 | 10.7 | 10.7 | 10.8 | 10.8 | 10.8 | - | 10.9 | 10.9 | 10.8 |
| | 0.4 | 0.3 | - | - | - | 5.9 | 4.5 | 6.0 | - | 8.6 | - | 2.2 | 1.7 | 1.8 | 2.0 |
| MACMA | 1.2 | - | 4.0 | - | 3.1 | 2.4 | 2.7 | - | 8.4 | - | 10.8 | 9.8 | 4.4 | 4.1 | 8.7 |
| | 2.0 | - | 3.9 | 2.2 | 4.4 | 2.6 | 2.8 | - | 8.0 | 2.1 | 10.6 | 10.6 | 5.0 | 4.3 | 9.3 |
| | 3.5 | - | 3.0 | - | 2.2 | - | 2.6 | - | 8.6 | 2.1 | 10.7 | 10.7 | 3.7 | 4.1 | 8.9 |
| MARGR | 4.2 | 6.8 | 7.0 | 8.8 | 10.2 | 9.3 | 8.8 | 8.6 | - | 7.3 | 8.9 | 7.4 | 9.7 | 5.3 | 6.7 |
| MOLSI | - | 8.0 | 3.7 | - | 9.9 | - | 7.8 | 4.6 | 7.2 | 7.5 | 6.1 | 7.1 | 9.5 | 5.0 | - |
| | 5.8 | 10.7 | 2.4 | 9.8 | 10.9 | - | 6.5 | 3.7 | 5.9 | 10.9 | 6.8 | 8.8 | 9.0 | 4.5 | - |
| | 7.8 | 7.3 | 3.8 | 9.2 | - | 10.0 | 8.2 | 10.4 | 10.3 | 6.9 | 10.9 | 5.0 | 5.5 | - | 11.0 |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MORJO | - | 3.1 | 9.9 | 4.4 | 11.0 | 10.5 | 8.2 | 10.9 | 9.7 | 4.5 | 4.5 | 0.5 | - | - | 7.2 |
| OCAFR | 0.4 | 1.0 | - | 0.5 | 0.2 | 1.1 | 0.7 | - | 1.0 | 0.3 | - | - | - | - | - |
| OCHPA | - | - | - | - | - | - | 1.6 | - | 0.3 | 0.6 | 0.8 | - | - | - | - |
| OTTMI | 8.5 | 9.1 | 9.5 | 8.1 | 8.4 | - | 8.2 | 4.7 | 6.9 | 11.2 | 3.8 | 3.0 | - | 8.5 | 8.8 |
| PERZS | 0.2 | 0.8 | 10.9 | 4.2 | 11.0 | 6.0 | 9.2 | 10.6 | 4.7 | 2.1 | 3.1 | - | - | - | 0.9 |
| PUCRC | 0.4 | 3.4 | 6.9 | 6.4 | 7.4 | 3.4 | 8.2 | 0.5 | - | 1.2 | - | 0.9 | 5.4 | 3.5 | - |
| ROTEC | 3.8 | 9.1 | 3.7 | 6.3 | - | 6.0 | 5.1 | 10.4 | - | 4.6 | 10.1 | 3.5 | 4.2 | - | 10.3 |
| SARAN | 6.5 | 9.3 | 10.0 | 9.9 | - | 10.6 | 8.5 | 4.4 | - | - | 5.7 | 4.1 | 3.0 | 10.1 | 9.9 |
| | 9.9 | 10.7 | 10.1 | 10.7 | 6.6 | - | 8.1 | 4.6 | - | 6.8 | 4.7 | - | 3.7 | - | 9.7 |
| | 9.4 | 10.6 | 10.1 | 10.7 | 5.8 | 8.3 | 9.5 | 3.4 | - | 5.7 | 4.6 | 2.9 | 8.5 | 10.2 | - |
| SCALE | 0.4 | 2.1 | 9.6 | 2.1 | 4.3 | 0.4 | 5.0 | - | 1.6 | 1.6 | - | - | - | - | 0.2 |
| SCHHA | 1.1 | 4.1 | - | 3.3 | 0.5 | 6.2 | 10.1 | 1.6 | 8.6 | 11.2 | 1.6 | 10.1 | 7.6 | 4.2 | 9.2 |
| SLAST | 0.1 | - | 0.2 | - | 5.0 | 4.9 | 1.5 | 2.4 | - | - | - | - | - | - | - |
| STOEN | - | 3.0 | 8.4 | 1.4 | 4.2 | 2.1 | 6.1 | 0.6 | 2.2 | 5.0 | 1.9 | 1.8 | 6.9 | 3.7 | - |
| | 0.9 | 3.6 | 8.8 | 1.9 | 4.1 | 3.3 | 6.7 | 0.2 | 2.3 | 4.9 | 2.5 | 2.6 | 6.9 | 4.3 | - |
| | 0.4 | 4.9 | 9.0 | 5.0 | 7.1 | 1.9 | 5.7 | 0.3 | 1.4 | 4.6 | 2.5 | 2.3 | 7.2 | 4.6 | - |
| STRJO | 5.1 | 1.8 | - | 3.7 | - | 4.3 | 9.7 | 8.8 | 7.5 | 10.8 | 9.1 | 6.5 | 0.9 | - | 8.9 |
| | 5.1 | 3.4 | - | 2.9 | - | 4.8 | 10.6 | 9.1 | 7.7 | 10.8 | 9.4 | 6.5 | 1.5 | - | 3.6 |
| | 1.5 | - | - | 2.5 | - | - | 7.6 | 5.0 | 6.3 | 3.4 | 9.2 | 4.4 | 0.5 | 0.2 | 8.2 |
| | 2.8 | 0.9 | - | 1.0 | - | 4.3 | 10.6 | 8.6 | 7.3 | 10.8 | 9.3 | 5.5 | 1.3 | - | 8.5 |
| TEPIS | 7.2 | 0.6 | 10.6 | 5.5 | 10.7 | 7.7 | 10.2 | 9.7 | 5.6 | 6.7 | 0.5 | - | - | 10.3 | - |
| TRIMI | 3.0 | 0.2 | 6.8 | 8.2 | 9.5 | 6.6 | 5.0 | 3.9 | - | - | - | - | - | 2.0 | - |
| YRJIL | - | 1.8 | - | - | 2.1 | 9.3 | 9.8 | 0.8 | 1.9 | - | 2.2 | 0.7 | 2.7 | 5.6 | - |
| ZELZO | - | - | 5.9 | - | - | - | 8.8 | 5.2 | - | 5.3 | - | - | - | - | - |
| Sum | 180.7 | 196.6 | 339.1 | 267.0 | 363.9 | 327.8 | 436.0 | 347.0 | 278.0 | 323.9 | 244.0 | 233.3 | 182.3 | 184.2 | 288.0 |

| October | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ARLRA | - | - | 2.8 | 8.3 | 8.6 | - | - | - | - | - | - | - | 10.5 | 0.5 | - | 1.8 |
| BERER | - | 3.8 | 11.5 | 11.2 | 8.2 | 9.3 | 7.9 | 1.7 | - | - | - | - | - | - | - | 4.7 |
| | - | 3.8 | 11.6 | 11.3 | 7.0 | 8.7 | 6.7 | 1.7 | - | - | - | - | - | - | - | 5.5 |
| | - | 3.3 | 11.6 | 11.2 | 4.8 | 7.2 | 5.4 | 1.7 | - | - | - | - | - | - | - | 5.4 |
| BIRSZ | 1.6 | 7.5 | 11.5 | 11.5 | 10.9 | 11.6 | 10.9 | - | - | - | - | - | - | 4.3 | 6.4 | 5.7 |
| BOMMA | 10.5 | 5.9 | 4.8 | - | 8.0 | 3.4 | - | - | - | - | - | - | - | - | - | - |
| BREMA | 11.1 | - | 3.8 | 9.9 | 3.7 | 7.9 | 7.1 | 2.5 | - | 4.5 | 6.9 | 11.9 | 3.2 | - | 1.9 | 4.6 |
| | 11.0 | - | 2.1 | 9.0 | - | - | - | 3.8 | - | 3.5 | 7.2 | 12.3 | 3.3 | - | 4.3 | 12.5 |
| BRIBE | 8.7 | 1.1 | 7.3 | 8.5 | 6.5 | 11.9 | 11.9 | 10.3 | - | 1.0 | 5.6 | 12.1 | 7.7 | - | 1.2 | 5.3 |
| | 10.3 | 2.6 | 7.9 | 6.0 | 8.9 | 11.9 | 11.8 | 11.2 | 5.6 | 0.2 | 2.1 | 12.0 | 10.7 | - | 3.1 | 4.9 |
| CASFL | 7.3 | 1.9 | 9.1 | 8.7 | 10.0 | 8.0 | 10.4 | 10.0 | 8.8 | 4.3 | - | 1.8 | - | 6.3 | - | - |
| CRIST | 5.2 | 0.3 | 8.5 | 6.3 | 8.3 | 3.8 | 10.6 | 9.7 | 11.7 | 0.3 | - | 0.4 | 2.3 | 11.3 | - | - |
| | 4.3 | 2.4 | 4.6 | 5.1 | 8.2 | 4.9 | 11.6 | 11.7 | 11.7 | 0.7 | - | - | 3.8 | 9.7 | 0.2 | - |
| | 0.2 | - | 0.2 | 0.2 | 8.0 | 0.9 | 2.5 | 1.9 | 8.4 | 1.6 | - | - | 0.8 | 1.1 | - | - |
| CSISZ | 0.7 | 9.2 | 5.5 | 10.5 | - | 2.6 | 2.7 | - | - | - | - | - | - | 4.5 | 7.2 | - |
| ELTMA | 11.4 | 11.1 | 11.7 | 11.3 | 9.0 | 11.8 | 12.0 | 11.6 | 8.4 | 6.0 | - | - | - | 8.3 | 0.4 | - |
| GONRU | 4.0 | - | - | - | 11.2 | - | - | 0.8 | 2.4 | - | 6.4 | 9.5 | 10.9 | - | 5.8 | - |
| | 4.4 | - | 1.7 | 2.7 | 11.1 | - | - | - | 2.3 | - | 6.7 | 9.7 | 11.0 | - | 9.5 | - |
| | 4.2 | - | 0.5 | 3.0 | 11.4 | - | 6.5 | - | 2.7 | - | 3.0 | 9.1 | 11.4 | - | 9.2 | 1.2 |
| | 3.4 | - | 0.2 | 2.1 | 11.0 | - | - | - | 1.1 | - | 4.0 | 8.8 | 11.0 | - | 7.5 | - |
| GOVMI | 3.4 | 9.9 | 9.1 | 10.5 | 8.6 | 3.4 | 8.3 | - | - | 1.3 | - | - | - | 4.5 | 9.6 | 0.2 |
| | 2.1 | 10.4 | 10.2 | 10.5 | 8.4 | 0.5 | 2.6 | - | - | 1.0 | - | - | - | 0.9 | 6.7 | - |
| | 1.6 | 10.6 | 9.5 | 10.3 | 0.9 | - | 1.0 | - | - | 1.1 | - | - | - | - | 10.8 | - |
| HINWO | 4.9 | 10.8 | 9.8 | 4.0 | 5.5 | 1.6 | - | - | - | - | - | - | - | - | - | - |
| IGAAN | 6.5 | 11.4 | 11.5 | 4.7 | 11.0 | 11.3 | 11.6 | 5.6 | - | 6.9 | 1.6 | - | - | 1.8 | 8.0 | 1.4 |
| | - | 11.1 | 11.0 | 11.1 | 11.1 | 11.1 | 10.3 | 9.9 | 0.9 | 0.7 | 3.6 | - | - | - | 2.7 | 9.1 |
| | 3.2 | 10.3 | 10.3 | 10.3 | 10.3 | 10.4 | 10.3 | 10.3 | - | 3.6 | 7.6 | - | - | - | - | - |
| | 4.6 | 2.6 | 5.5 | 5.6 | - | 4.6 | 2.9 | - | - | 2.5 | - | - | - | 3.8 | 5.3 | 5.1 |
| JONKA | - | 5.9 | 11.7 | 11.7 | 11.8 | 11.8 | 11.9 | 6.2 | - | 5.2 | - | - | - | 3.1 | 5.0 | 6.3 |
| KACJA | - | - | - | 11.4 | - | - | - | 3.0 | - | - | - | - | - | - | - | - |
| | 0.9 | 4.7 | 10.5 | 6.8 | - | - | 0.8 | - | - | 6.0 | - | - | - | 0.3 | 2.2 | - |
| | 3.5 | 11.2 | 11.2 | 10.0 | 11.8 | 11.8 | 9.7 | 5.9 | - | 11.4 | - | - | - | - | - | - |
| | - | - | - | - | 7.0 | 8.8 | 2.2 | 0.5 | - | 11.5 | - | - | - | - | - | - |
| KERST | 8.6 | 8.6 | 7.1 | 8.4 | 8.3 | 6.9 | 7.7 | 6.2 | 2.9 | 8.4 | 8.3 | 2.8 | 0.3 | 0.1 | 2.0 | 7.6 |
| KISSZ | 2.0 | 6.6 | 11.6 | 11.6 | 11.8 | 11.8 | 11.9 | 11.9 | - | 4.8 | - | - | - | 1.6 | 4.2 | 7.2 |
| KOSDE | 1.9 | 6.0 | - | - | 11.1 | - | - | - | - | - | - | - | - | - | - | - |
| | 4.6 | - | - | 0.8 | - | - | - | - | - | - | 6.3 | 8.8 | - | 0.7 | - | 2.6 |
| MACMA | - | 9.6 | 9.9 | 8.9 | 6.1 | 9.4 | - | - | 1.7 | 0.5 | - | - | - | - | 2.4 | 10.5 |
| | - | 11.8 | 8.0 | 12.0 | 11.0 | 10.5 | - | - | 1.7 | 0.9 | 1.8 | - | 2.7 | - | 2.5 | 10.2 |
| | - | 11.1 | 12.1 | 12.0 | 11.2 | 10.6 | - | - | 2.5 | 1.0 | 1.9 | - | 3.8 | - | 2.8 | 10.3 |
| MARGR | 10.1 | 7.9 | 9.5 | 6.9 | 10.1 | 5.2 | 2.8 | 2.2 | 2.3 | - | - | 4.1 | - | - | - | - |
| MOLSI | 3.3 | 10.3 | 10.9 | 6.2 | - | - | - | - | - | 1.1 | - | - | - | - | - | - |
| | 2.8 | 11.2 | 11.5 | 6.4 | - | - | - | - | - | 2.5 | - | - | - | 3.0 | 7.5 | - |
| | 6.7 | 5.5 | 11.7 | 11.8 | 11.8 | 4.4 | - | - | - | 8.4 | 3.0 | 9.0 | 12.1 | - | 6.6 | 9.3 |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.4 | 11.4 |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.4 | 10.8 |
| MORJO | 5.4 | 11.6 | 11.7 | 11.6 | 11.8 | 11.8 | 11.3 | 5.4 | - | 6.5 | - | - | - | 2.0 | - | - |
| OCAFR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OCHPA | 2.1 | - | 4.5 | 4.6 | 4.4 | 5.0 | 5.4 | 4.9 | 3.9 | 1.4 | - | - | - | - | - | - |
| OTTMI | 10.0 | 2.0 | - | 8.3 | 7.9 | 6.3 | - | 2.2 | 3.6 | 4.1 | 6.4 | 6.0 | 5.8 | 4.7 | 7.2 | 4.6 |
| PERZS | 8.0 | 11.2 | 11.4 | 11.4 | 11.5 | 11.5 | 11.5 | - | - | 3.6 | - | - | - | - | - | - |
| PUCRC | 10.1 | 9.7 | 11.3 | 5.1 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 4.5 | - | - | 3.3 | 11.4 | - | - |
| ROTEC | 6.7 | - | - | 11.2 | 11.8 | 1.8 | - | 0.4 | - | 7.3 | - | 0.7 | 12.4 | 1.8 | - | 8.1 |
| SARAN | 2.2 | - | 9.4 | 9.6 | 6.1 | - | - | 0.4 | 0.2 | 4.8 | 3.8 | 7.8 | 8.4 | 2.1 | 5.8 | 5.9 |
| | 2.1 | - | 9.4 | 9.6 | 5.2 | - | 7.4 | 1.0 | - | 6.6 | 6.4 | 10.4 | 11.2 | 2.3 | 8.8 | 6.3 |
| | 2.6 | - | 9.3 | 10.1 | 4.4 | - | - | 0.8 | - | 5.2 | 7.3 | - | 10.8 | 2.8 | 7.8 | 6.7 |
| SCALE | 10.5 | 10.2 | 7.0 | 6.4 | 1.0 | 6.3 | 11.2 | 10.7 | 11.2 | 1.4 | - | - | 0.2 | 7.9 | - | - |
| SCHHA | 10.6 | 1.4 | 7.4 | 10.3 | 8.4 | 10.7 | 12.0 | 11.9 | - | - | 6.1 | 12.2 | 4.9 | - | 7.1 | 11.6 |
| SLAST | - | - | 8.9 | 10.5 | 8.5 | 5.5 | 4.4 | 4.9 | - | 1.5 | - | - | - | - | - | - |
| STOEN | 11.2 | 8.3 | 10.6 | 10.3 | 1.5 | 11.2 | 12.0 | 12.0 | 12.1 | 2.9 | - | 0.9 | 3.1 | 7.2 | 0.2 | - |
| | 11.0 | 8.0 | 11.1 | 8.0 | - | 9.9 | 11.9 | 11.5 | 12.0 | 5.4 | - | 0.2 | 2.1 | 6.1 | 0.2 | - |
| | 11.1 | 8.1 | 10.5 | 8.7 | 1.7 | 11.7 | 12.0 | 12.0 | 12.0 | 8.0 | - | 0.6 | 2.6 | 7.5 | 0.4 | - |
| STRJO | 10.6 | 3.2 | 9.0 | 8.5 | 8.1 | 11.4 | 6.8 | - | - | 3.0 | - | 11.7 | 11.8 | - | 0.2 | 3.6 |
| | 9.9 | 3.0 | 9.2 | 8.8 | 8.3 | 11.5 | 6.4 | - | - | 3.3 | 2.4 | 6.4 | 11.6 | - | 2.1 | 3.5 |
| | 8.7 | 2.7 | 7.7 | 7.3 | 8.1 | 11.5 | 6.4 | - | - | 1.9 | - | - | 11.8 | - | - | 3.3 |
| | 10.5 | 3.7 | 9.4 | 9.0 | 8.0 | 11.5 | 6.4 | - | - | 3.3 | 2.3 | 4.8 | 11.7 | - | 0.3 | 3.1 |
| TEPIS | 2.1 | 7.8 | 11.4 | 11.5 | 5.0 | 11.6 | 8.3 | - | - | - | - | - | - | 4.2 | 6.9 | 4.8 |
| TRIMI | 6.8 | 5.9 | 7.4 | 6.6 | 7.0 | 6.4 | 7.1 | 5.6 | - | - | - | - | - | 0.7 | - | - |
| YRJIL | 3.8 | - | - | 1.2 | - | - | - | 6.7 | 0.3 | 8.9 | 12.2 | 10.0 | 9.4 | 1.7 | - | 1.4 |
| ZELZO | - | 0.6 | 11.2 | - | - | - | - | - | - | 3.0 | - | - | - | - | - | - |
| Sum | 325.0 | 337.8 | 507.3 | 517.3 | 462.7 | 405.0 | 370.6 | 235.7 | 150.4 | 190.8 | 120.7 | 183.4 | 218.9 | 126.5 | 194.8 | 216.5 |

3. Results (Meteors)

| October | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------|-----|-----|------|-----|------|-----|------|------|-----|------|-----|------|-----|-----|------|
| ARLRA | - | - | - | - | - | - | 7 | 9 | 7 | - | - | - | 3 | - | 4 |
| BERER | 6 | - | 41 | - | 46 | 23 | 127 | 95 | 68 | 85 | 37 | - | - | - | 4 |
| | 1 | - | - | - | 16 | 8 | 35 | 25 | 24 | 30 | 21 | - | - | - | 2 |
| | - | - | - | - | 15 | 8 | 27 | 24 | 11 | 20 | 9 | - | - | - | 1 |
| BIRSZ | 15 | 4 | 29 | 6 | 26 | 18 | 30 | 24 | - | - | - | - | - | 28 | - |
| BOMMA | 7 | 11 | 40 | 37 | - | 13 | 25 | 5 | - | - | - | - | - | 4 | 12 |
| BREMA | - | 5 | - | 2 | - | 33 | 34 | 33 | 28 | 33 | 9 | 20 | - | - | - |
| | - | - | - | 2 | - | 35 | 41 | 37 | 14 | 45 | 12 | 25 | - | - | 32 |
| BRIBE | 1 | 6 | - | 7 | - | 1 | 16 | - | 31 | 46 | 4 | 18 | 1 | 2 | 33 |
| | 8 | 2 | - | 5 | 1 | 3 | 48 | 1 | 51 | 53 | 6 | 47 | 4 | - | 63 |
| CASFL | - | 28 | 15 | 15 | 15 | - | 27 | - | - | 30 | - | 5 | 6 | - | 14 |
| CRIST | 21 | 26 | 5 | 2 | 36 | - | - | 2 | 56 | 40 | - | 53 | 8 | - | 86 |
| | 20 | 15 | - | - | 38 | - | 18 | 2 | 23 | 28 | 1 | 28 | 9 | - | 65 |
| | - | 26 | 13 | 2 | 65 | 1 | - | 2 | 14 | 49 | - | 52 | 8 | - | 9 |
| CSISZ | 2 | - | 32 | 9 | 31 | 2 | 26 | 26 | 2 | - | 3 | - | - | - | - |
| ELTMA | - | - | 52 | 13 | 17 | 4 | 15 | - | 5 | - | - | 2 | - | - | - |
| GONRU | 32 | 11 | 55 | 50 | 8 | 41 | 21 | 32 | - | 38 | - | 63 | 19 | 58 | 56 |
| | 32 | 15 | 50 | 44 | 11 | 39 | 28 | 34 | - | 21 | - | 48 | 11 | 64 | 63 |
| | 29 | 12 | 51 | 46 | 8 | 24 | 32 | 25 | 4 | 10 | 27 | 49 | 14 | 43 | 35 |
| | 22 | 9 | 55 | 53 | 14 | 45 | 25 | 20 | - | 19 | - | 40 | 11 | 52 | 42 |
| GOVMI | 5 | 17 | - | - | 57 | 11 | 75 | 31 | 1 | 2 | 2 | - | - | 7 | 3 |
| | 6 | 6 | - | - | 20 | 6 | 34 | 15 | - | 2 | - | - | - | 4 | - |
| | - | - | 34 | 16 | 34 | 8 | 17 | 21 | - | 4 | - | 1 | - | 10 | 1 |
| HINWO | - | 1 | 2 | - | 20 | - | - | - | - | - | - | - | 57 | 25 | - |
| IGAAN | - | 1 | 2 | 20 | 34 | 24 | - | 24 | 23 | 1 | 6 | - | - | - | 18 |
| | 1 | 2 | 13 | 24 | 27 | 22 | 30 | 48 | 7 | 22 | 28 | 2 | 1 | - | 45 |
| | - | - | 23 | 4 | 41 | 24 | - | 39 | 33 | 3 | 5 | - | 1 | - | 13 |
| | - | - | 6 | 2 | - | 3 | - | 7 | 7 | 8 | 1 | - | - | - | - |
| JONKA | - | - | 36 | 7 | 18 | 11 | 37 | 29 | 16 | 25 | 2 | 3 | - | - | 2 |
| KACJA | - | - | - | - | 60 | 15 | - | - | - | - | - | - | - | - | - |
| | - | - | - | 1 | 2 | 2 | 3 | - | - | - | - | - | - | - | - |
| | 8 | - | 11 | 5 | 7 | 13 | 31 | 19 | - | - | - | - | - | - | - |
| | 7 | - | 10 | 12 | 7 | 3 | 5 | 6 | - | - | - | - | - | - | - |
| KERST | - | 21 | 31 | 33 | 41 | 34 | 30 | 32 | 7 | 10 | 25 | 50 | 48 | 25 | 51 |
| KISSZ | 1 | - | 11 | 6 | 10 | 4 | 9 | 8 | 7 | 11 | 2 | - | 1 | - | 1 |
| KOSDE | 43 | - | 68 | - | - | 77 | 91 | 82 | 77 | 99 | 105 | - | 92 | 94 | 94 |
| | 2 | 2 | - | - | - | 22 | 11 | 13 | - | 37 | - | 13 | 11 | 12 | 6 |
| MACMA | 2 | - | 4 | - | 2 | 1 | 6 | - | 20 | - | 26 | 16 | 2 | 6 | 20 |
| | 2 | - | 5 | 3 | 10 | 4 | 12 | - | 27 | 6 | 51 | 44 | 11 | 17 | 43 |
| | 6 | - | 5 | - | 2 | - | 4 | - | 17 | 3 | 28 | 17 | 1 | 5 | 14 |
| MARGR | 9 | 7 | 36 | 28 | 34 | 29 | 29 | 24 | - | 36 | 43 | 26 | 42 | 39 | 32 |
| MOLSI | - | 97 | 9 | - | 183 | - | 98 | 34 | 40 | 160 | 73 | 171 | 122 | 71 | - |
| | 25 | 48 | 1 | 26 | 45 | - | 32 | 11 | 9 | 40 | 15 | 46 | 17 | 19 | - |
| | 103 | 59 | 12 | 50 | - | 86 | 50 | 124 | 124 | 57 | 137 | 81 | 28 | - | 134 |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MORJO | - | 9 | 25 | 6 | 27 | 19 | 37 | 41 | 13 | 27 | 6 | 1 | - | - | 14 |
| OCAFR | 1 | 1 | - | 1 | 1 | 3 | 3 | - | 5 | 1 | - | - | - | - | - |
| OCHPA | - | - | - | - | - | - | 11 | - | 2 | 3 | 5 | - | - | - | - |
| OTTMI | 23 | 32 | 18 | 22 | 25 | - | 37 | 6 | 32 | 56 | 24 | 1 | - | 42 | 30 |
| PERZS | 1 | 1 | 59 | 8 | 61 | 16 | 64 | 97 | 16 | 22 | 8 | - | - | - | 1 |
| PUCRC | 1 | 14 | 15 | 12 | 12 | 3 | 33 | 3 | - | 7 | - | 5 | 70 | 7 | - |
| ROTEC | 7 | 13 | 1 | 6 | - | 2 | 6 | 22 | - | 5 | 21 | 9 | 4 | - | 17 |
| SARAN | 13 | 25 | 26 | 10 | - | 24 | 23 | 5 | - | - | 15 | 18 | 10 | 31 | 33 |
| | 21 | 23 | 41 | 35 | 11 | - | 27 | 9 | - | 12 | 4 | - | 17 | - | 33 |
| | 12 | 22 | 18 | 20 | 7 | 10 | 18 | 2 | - | - | 11 | 22 | 4 | 22 | 24 |
| SCALE | 2 | 10 | 23 | 7 | 10 | 2 | 9 | - | 5 | 9 | - | - | - | - | 1 |
| SCHHA | 4 | 3 | - | 5 | 2 | 19 | 34 | 6 | 21 | 40 | 2 | 52 | 28 | 8 | 56 |
| SLAST | 1 | - | 1 | - | 5 | 3 | 1 | 9 | - | - | - | - | - | - | - |
| STOEN | - | 11 | 42 | 5 | 11 | 7 | 15 | 4 | 17 | 20 | 15 | 10 | 78 | 27 | - |
| | 1 | 11 | 31 | 11 | 14 | 6 | 14 | 1 | 7 | 17 | 7 | 7 | 65 | 28 | - |
| | 4 | 18 | 38 | 19 | 13 | 6 | 16 | 2 | 3 | 20 | 27 | 10 | 87 | 36 | - |
| STRJO | 7 | 2 | - | 4 | - | 1 | 24 | 19 | 9 | 22 | 18 | 21 | 1 | - | 27 |
| | 8 | 5 | - | 5 | - | 7 | 25 | 22 | 11 | 24 | 23 | 21 | 2 | - | 8 |
| | 1 | - | - | 2 | - | - | 7 | 4 | 4 | 3 | 5 | 6 | 3 | 1 | 18 |
| | 8 | 3 | - | 3 | - | 5 | 48 | 22 | 19 | 40 | 26 | 27 | 3 | - | 45 |
| TEPIS | 17 | 4 | 66 | 19 | 44 | 18 | 58 | 53 | 42 | 35 | 1 | - | - | 37 | - |
| TRIMI | 4 | 1 | 14 | 10 | 29 | 5 | 15 | 17 | - | - | - | - | - | 5 | - |
| YRJIL | - | 4 | - | - | 10 | 43 | 42 | 6 | 4 | - | 7 | 3 | 7 | 23 | - |
| ZELZO | - | - | 21 | - | - | - | 20 | 12 | - | 17 | - | - | - | - | - |
| Sum | 552 | 643 | 1196 | 740 | 1283 | 896 | 1773 | 1325 | 963 | 1453 | 903 | 1133 | 907 | 852 | 1305 |

| October | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| ARLRA | - | - | 6 | 18 | 19 | - | - | - | - | - | - | - | 14 | 1 | - | 2 |
| BERER | - | 14 | 151 | 164 | 51 | 64 | 30 | 4 | - | - | - | - | - | - | - | 39 |
| | - | 6 | 45 | 54 | 15 | 23 | 10 | 1 | - | - | - | - | - | - | - | 11 |
| | - | 3 | 48 | 21 | 1 | 6 | 8 | 1 | - | - | - | - | - | - | - | 14 |
| BIRSZ | 8 | 41 | 43 | 67 | 43 | 71 | 43 | - | - | - | - | - | - | 15 | 28 | 9 |
| BOMMA | 59 | 22 | 11 | - | 44 | 8 | - | - | - | - | - | - | - | - | - | - |
| BREMA | 28 | - | 32 | 37 | 11 | 42 | 12 | 1 | - | 26 | 47 | 41 | 3 | - | 6 | 5 |
| | 25 | - | 8 | 26 | - | - | - | 1 | - | 16 | 33 | 48 | 2 | - | 8 | 27 |
| BRIBE | 52 | 8 | 37 | 36 | 22 | 89 | 39 | 32 | - | 3 | 36 | 42 | 17 | - | 6 | 8 |
| | 53 | 12 | 43 | 19 | 37 | 107 | 90 | 64 | 11 | 1 | 26 | 62 | 41 | - | 16 | 6 |
| CASFL | 25 | 7 | 60 | 55 | 76 | 29 | 76 | 67 | 68 | 14 | - | 13 | - | 22 | - | - |
| CRIST | 10 | 2 | 40 | 41 | 120 | 32 | 87 | 132 | 120 | 2 | - | 1 | 22 | 45 | - | - |
| | 9 | 12 | 18 | 36 | 82 | 47 | 49 | 84 | 76 | 1 | - | - | 21 | 31 | 1 | - |
| | 1 | - | 1 | 1 | 149 | 6 | 4 | 15 | 110 | 7 | - | - | 5 | 7 | - | - |
| CSISZ | 1 | 33 | 21 | 58 | - | 1 | 8 | - | - | - | - | - | - | 22 | 33 | - |
| ELTMA | 75 | 106 | 53 | 54 | 15 | 120 | 179 | 155 | 91 | 5 | - | - | - | 63 | 2 | - |
| GONRU | 7 | - | - | - | 110 | - | - | 1 | 6 | - | 30 | 62 | 74 | - | 19 | - |
| | 9 | - | 1 | 31 | 68 | - | - | - | 1 | - | 35 | 47 | 69 | - | 34 | - |
| | 4 | - | 1 | 30 | 75 | - | 83 | - | 1 | - | 5 | 45 | 55 | - | 31 | 4 |
| | 5 | - | 1 | 29 | 71 | - | - | - | 2 | - | 15 | 33 | 45 | - | 21 | - |
| GOVMI | 6 | 71 | 64 | 137 | 58 | 14 | 48 | - | - | 6 | - | - | - | 29 | 57 | 1 |
| | 6 | 55 | 31 | 67 | 38 | 3 | 17 | - | - | 3 | - | - | - | 5 | 31 | - |
| | 5 | 60 | 47 | 82 | 5 | - | 6 | - | - | 2 | - | - | - | - | 39 | - |
| HINWO | 51 | 131 | 156 | 83 | 54 | 4 | - | - | - | - | - | - | - | - | - | - |
| IGAAN | 16 | 40 | 53 | 7 | 68 | 46 | 55 | 7 | - | 21 | 8 | - | - | 15 | 39 | 3 |
| | - | 51 | 82 | 99 | 111 | 68 | 65 | 63 | 3 | 4 | 22 | - | - | - | 12 | 23 |
| | 11 | 46 | 67 | 90 | 87 | 79 | 71 | 74 | - | 35 | 20 | - | - | - | - | - |
| | 10 | 2 | 11 | 14 | - | 4 | 1 | - | - | 4 | - | - | - | 7 | 14 | 1 |
| JONKA | - | 18 | 42 | 44 | 54 | 65 | 59 | 9 | - | 31 | - | - | - | 10 | 25 | 7 |
| KACJA | - | - | - | 119 | - | - | - | 5 | - | - | - | - | - | - | - | - |
| | 1 | 11 | 8 | 17 | - | - | 1 | - | - | 3 | - | - | - | 2 | 1 | - |
| | 28 | 153 | 171 | 221 | 167 | 216 | 96 | 90 | - | 100 | - | - | - | - | - | - |
| | - | - | - | - | 10 | 40 | 14 | 4 | - | 58 | - | - | - | - | - | - |
| KERST | 46 | 46 | 36 | 67 | 47 | 39 | 33 | 29 | 21 | 41 | 32 | 12 | 2 | 1 | 9 | 34 |
| KISSZ | 6 | 7 | 19 | 23 | 21 | 23 | 28 | 27 | - | 9 | - | - | - | 2 | 11 | 4 |
| KOSDE | 5 | 26 | - | - | 183 | - | - | - | - | - | - | - | - | - | - | - |
| | 20 | - | - | 2 | - | - | - | - | - | - | 32 | 26 | - | 3 | - | 4 |
| MACMA | - | 29 | 41 | 37 | 13 | 28 | - | - | 4 | 3 | - | - | - | - | 1 | 18 |
| | - | 66 | 63 | 76 | 63 | 80 | - | - | 11 | 3 | 3 | - | 2 | - | 1 | 46 |
| | - | 25 | 36 | 39 | 35 | 32 | - | - | 5 | 4 | 3 | - | 6 | - | 2 | 24 |
| MARGR | 65 | 50 | 69 | 75 | 86 | 17 | 16 | 9 | 18 | - | - | 13 | - | - | - | - |
| MOLSI | 21 | 196 | 176 | 56 | - | - | - | - | - | 11 | - | - | - | - | - | - |
| | 6 | 54 | 42 | 9 | - | - | - | - | - | 4 | - | - | - | 3 | 28 | - |
| | 109 | 96 | 172 | 183 | 145 | 21 | - | - | - | 131 | 4 | 89 | 127 | - | 51 | 33 |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | 26 |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | 21 |
| MORJO | 28 | 45 | 46 | 43 | 61 | 64 | 34 | 10 | - | 38 | - | - | - | 5 | - | - |
| OCAFR | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OCHPA | 9 | - | 34 | 40 | 38 | 44 | 55 | 43 | 36 | 10 | - | - | - | - | - | - |
| OTTMI | 56 | 7 | - | 79 | 67 | 41 | - | 22 | 25 | 41 | 62 | 34 | 45 | 20 | 40 | 19 |
| PERZS | 59 | 94 | 100 | 141 | 177 | 175 | 147 | - | - | 34 | - | - | - | - | - | - |
| PUCRC | 63 | 76 | 92 | 9 | 57 | 110 | 135 | 115 | 123 | 3 | - | - | 24 | 60 | - | - |
| ROTEC | 15 | - | - | 51 | 55 | 4 | - | 1 | - | 38 | - | 5 | 30 | 2 | - | 8 |
| SARAN | 3 | - | 46 | 65 | 12 | - | - | 2 | 2 | 19 | 18 | 26 | 18 | 16 | 10 | 16 |
| | 3 | - | 55 | 59 | 18 | - | 56 | 8 | - | 45 | 6 | 41 | 48 | 12 | 14 | 27 |
| | 2 | - | 45 | 54 | 4 | - | - | 7 | - | 20 | 12 | - | 25 | 16 | 5 | 28 |
| SCALE | 41 | 53 | 33 | 14 | 7 | 51 | 86 | 75 | 73 | 3 | - | - | 1 | 22 | - | - |
| SCHHA | 50 | 7 | 45 | 39 | 43 | 75 | 85 | 65 | - | - | 56 | 59 | 9 | - | 20 | 56 |
| SLAST | - | - | 70 | 91 | 44 | 37 | 5 | 1 | - | 3 | - | - | - | - | - | - |
| STOEN | 117 | 131 | 89 | 46 | 5 | 181 | 227 | 210 | 178 | 16 | - | 6 | 29 | 49 | 1 | - |
| | 66 | 76 | 74 | 22 | - | 141 | 174 | 160 | 118 | 9 | - | 1 | 16 | 17 | 1 | - |
| | 108 | 106 | 77 | 41 | 4 | 167 | 217 | 188 | 150 | 16 | - | 3 | 33 | 42 | 3 | - |
| STRJO | 18 | 8 | 32 | 22 | 33 | 48 | 8 | - | - | 7 | - | 35 | 26 | - | 1 | 3 |
| | 35 | 9 | 26 | 25 | 34 | 48 | 9 | - | - | 7 | 10 | 55 | 19 | - | 5 | 5 |
| | 14 | 8 | 29 | 10 | 24 | 30 | 5 | - | - | 5 | - | - | 7 | - | - | 2 |
| | 45 | 18 | 48 | 35 | 49 | 91 | 11 | - | - | 14 | 13 | 46 | 23 | - | 2 | 5 |
| TEPIS | 35 | 63 | 63 | 122 | 10 | 112 | 40 | - | - | - | - | - | - | 29 | 41 | 9 |
| TRIMI | 32 | 29 | 38 | 33 | 41 | 50 | 19 | 43 | - | - | - | - | - | 4 | - | - |
| YRJIL | 14 | - | - | 6 | - | - | 31 | 2 | 42 | 70 | 54 | 72 | 6 | - | - | 11 |
| ZELZO | - | 1 | 23 | - | - | - | - | - | - | 15 | - | - | - | - | - | - |
| Sum | 1596 | 2230 | 3071 | 3371 | 3037 | 2893 | 2572 | 1827 | 1295 | 961 | 582 | 917 | 864 | 577 | 699 | 559 |