

Results of the IMO Video Meteor Network – January 2012

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The year 2012 started with a big beat of the drum. Typically, the number of recorded meteors is going down significantly after the Quadrantids, and mediocre weather is doing the rest. Thus, we never got more than 3,000 hours of effective observing time in January, and last year was the first where we had recorded more than 10,000 meteors. Not so in 2012! The observers in Southern and Eastern Europe experienced nearly perfect observing conditions, and even in Germany a few cameras collected more than 20 observing nights. With 66 active cameras and the longest nights of the year, the effective observing time suddenly jumped to over 9,000 hours, which is the second best monthly outcome ever. With 29,000 meteors, also the meteor count was more than considerable. It's more than we recorded in January of the previous three years altogether. A year can hardly begin any better than this!

With the begin of 2012, the Slovenian team grew by one more observer. Rok Pucer has been operating a Mintron camera dubbed MOBCAM1 with 6 mm f/0.75 Panasonic lens.

With respect to meteor showers, there was only one highlight in January. The maximum of the Quadrantids was predicted for 7 UT on January 4. That was outside the observing window for most European observers but let us expect steeply growing rates in the night of January 3/4. On the one hand, the (at mid-northern latitudes) circumpolar radiant is raising significant after local midnight. On the other hand, the peak is of only short duration which lets the activity raise sharply in the hours before the maximum. And it was just that what the observers witnessed. Figure 1 shows the overall flux density profile from the Quadrantids 2012 based on 925 shower meteors (with more than 1,100 Sporadics in parallel). Within twelve hours, the Quadrantid activity rose from the sporadic background level with less than one meteoroid per 1,000 km² and hour to a peak values beyond 15, which translates to a ZHR of about 70. Compared to the flux density of other major showers like the Perseids (over 40) or Geminids (over 100), the Quadrantid peak flux density was rather weak. That may suggest that the real peak occurred as expected after the European observing window. A look at IMO's visual profile confirms this at least partly – highest rates were observed between 5 and 9 UT. However, even here the ZHR hardly passed 80. That's not much for a shower that can produce zenithal hourly rates in the triple-digit range. If another growth in rates at 18 UT on Jan 4 is real or just caused by other visual observers cannot be decided because of a gap in the video data.

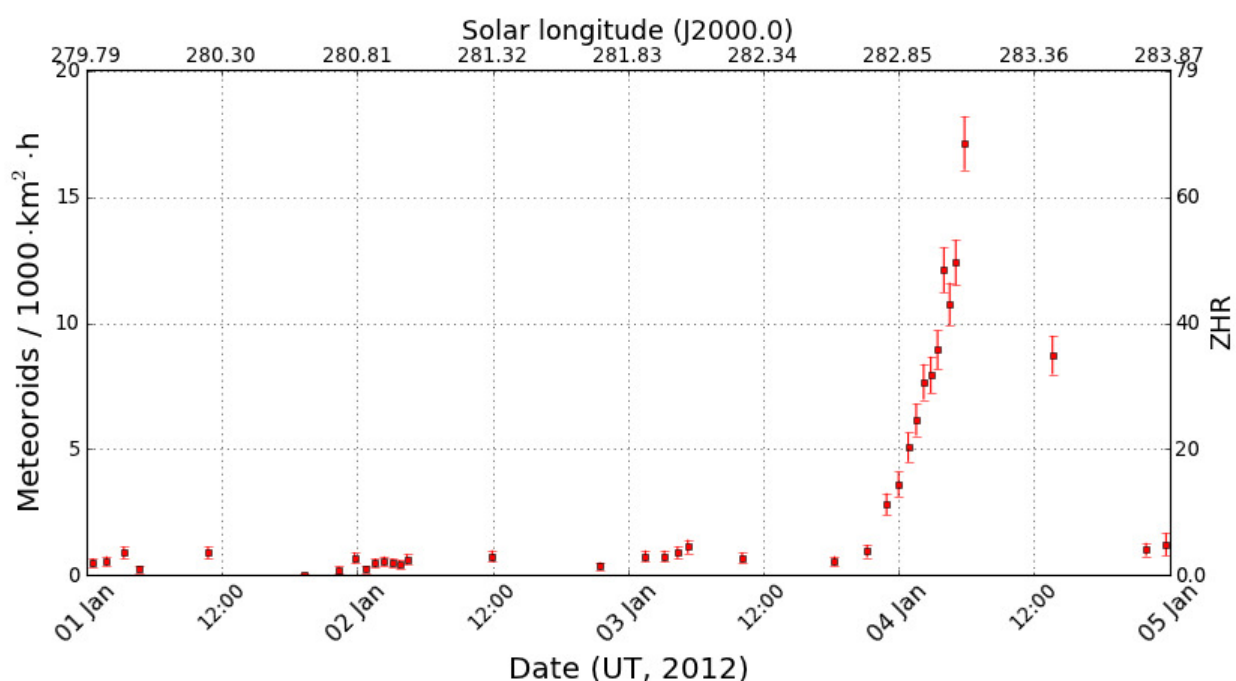


Figure 1: Flux density profile of the Quadrantids 2012, obtained from 925 shower meteors.

1. Observers

| Code | Name | Place | Camera | FOV [^o] | St.LM [mag] | Eff.CA [km ²] | Nights | Time [h] | Meteors | |
|---------|-------------|----------------------|--------------------|-------------------------|----------------|------------------------------|--------|-------------|---------|-------|
| BASLU | Bastiaens | Hove/BE | URANIA1 (0.8/3.8)* | 4545 | 2.5 | 237 | 11 | 63.6 | 40 | |
| BERER | Berko | Ludanyhalaszi/HU | HULUD1 (0.95/3) | 2256 | 4.8 | 1540 | 17 | 134.1 | 612 | |
| | | | HULUD2 (0.75/6) | 4860 | 3.9 | 1103 | 17 | 95.1 | 280 | |
| | | | HULUD3 (0.75/6) | 4661 | 3.9 | 1052 | 17 | 77.9 | 228 | |
| BOMMA | Bombardini | Faenza/IT | MARIO (1.2/4.0) | 5794 | 3.3 | 739 | 17 | 62.0 | 210 | |
| BREMA | Breukers | Hengelo/NL | MBB3 (0.75/6) | 2399 | 4.2 | 699 | 15 | 127.5 | 237 | |
| | | | MBB4 (0.8/8) | 1470 | 5.1 | 1208 | 16 | 111.3 | 208 | |
| | | | HERMINE (0.8/6) | 2374 | 4.2 | 678 | 20 | 119.6 | 253 | |
| BRIBE | Brinkmann | Herne/DE | KLEMOI (0.8/6) | 2286 | 4.6 | 1080 | 14 | 90.9 | 239 | |
| | | Berg. Gladbach/DE | BMH1 (0.8/6) | 2350 | 5.0 | 1611 | 29 | 173.2 | 589 | |
| CASFL | Castellani | Monte Baldo/IT | BMH2 (1.5/4.5)* | 4243 | 3.0 | 371 | 28 | 153.7 | 559 | |
| CRIST | Crivello | Valbrenvena/IT | BILBO (0.8/3.8) | 5458 | 4.2 | 1772 | 23 | 197.0 | 820 | |
| | | | C3P8 (0.8/3.8) | 5455 | 4.2 | 1586 | 23 | 193.9 | 698 | |
| | | | STG38 (0.8/3.8) | 5614 | 4.4 | 2007 | 22 | 209.0 | 1175 | |
| | | | HUVCSE01 (0.95/5) | 2423 | 3.4 | 361 | 18 | 107.2 | 169 | |
| CSISZ | Csizmadia | Zalaegerszeg/HU | MET38 (0.8/3.8) | 5631 | 4.3 | 2151 | 24 | 223.1 | 604 | |
| ELTMA | Eltri | Venezia/IT | TEMPLAR1 (0.8/6) | 2179 | 5.3 | 1842 | 25 | 235.2 | 846 | |
| GONRU | Goncalves | Tomar/PT | TEMPLAR2 (0.8/6) | 2080 | 5.0 | 1508 | 26 | 270.7 | 786 | |
| | | | TEMPLAR3 (0.8/8) | 1438 | 4.3 | 571 | 28 | 299.6 | 685 | |
| | | | ORION2 (0.8/8) | 1447 | 5.5 | 1841 | 27 | 188.7 | 652 | |
| GOVMI | Govedic | Sredisce ob Dr./SI | ORION3 (0.95/5) | 2665 | 4.9 | 2069 | 20 | 99.7 | 235 | |
| | | | ORION4 (0.95/5) | 2662 | 4.3 | 1043 | 25 | 166.7 | 272 | |
| | | | ACR (2.0/35)* | 557 | 7.4 | 4954 | 12 | 68.2 | 394 | |
| | | | HUBAJ (0.8/3.8) | 5552 | 2.8 | 403 | 25 | 98.6 | 364 | |
| HINWO | Hinz | Brannenburg/DE | HUDEB (0.8/3.8) | 5522 | 3.2 | 620 | 19 | 131.9 | 268 | |
| | | | HUHOD (0.8/3.8) | 5502 | 3.4 | 764 | 20 | 126.4 | 234 | |
| IGAAN | Igaz | Baja/HU | HUPOL (1.2/4) | 3790 | 3.3 | 475 | 7 | 32.0 | 35 | |
| | | Debrecen/HU | HUSOP (0.8/6) | 2031 | 3.8 | 460 | 18 | 64.0 | 346 | |
| | | Hodmezovasar./HU | KAMNIK (0.8/3.8) | 4914 | 4.3 | 1842 | 24 | 201.2 | 799 | |
| | | Budapest/HU | METKA (0.8/8)* | 1372 | 4.0 | 361 | 12 | 117.9 | 251 | |
| | | Sopron/HU | ORION1 (0.8/8) | 1402 | 3.8 | 331 | 26 | 216.8 | 501 | |
| | | KACJA | Kac | Kamnik/SI | REZIKA (0.8/6) | 2270 | 4.4 | 840 | 24 | 209.7 |
| KERST | Kerr | Glenlee/AU | STEFKA (0.8/3.8) | 5471 | 2.8 | 379 | 24 | 209.8 | 716 | |
| | | KOSDE | GOCAM1 (0.8/3.8) | 5189 | 4.6 | 2550 | 11 | 64.0 | 421 | |
| KOSCHNY | Koschny | Izana Obs./ES | ICC7 (0.85/25)* | 714 | 5.9 | 1464 | 21 | 168.3 | 1216 | |
| | | Noordwijkerhout/NL | LIC4 (1.4/50)* | 2027 | 6.0 | 4509 | 15 | 115.2 | 240 | |
| LERAR | Leroy | Gretz/FR | SAPHIRA (1.2/6) | 3260 | 3.4 | 301 | 3 | 9.2 | 10 | |
| MACMA | Maciejewski | Chelm/PL | PAV35 (1.2/4) | 4383 | 2.5 | 253 | 17 | 71.5 | 91 | |
| | | | PAV36 (1.2/4)* | 5732 | 2.2 | 227 | 18 | 76.1 | 108 | |
| | | | PAV43 (0.95/3.75)* | 2544 | 2.7 | 176 | 15 | 28.1 | 63 | |
| | | | LOOMECON (0.8/12) | 738 | 6.3 | 2698 | 7 | 38.5 | 205 | |
| MARGR | Maravelias | Lofoupoli/GR | AVIS2 (1.4/50)* | 1776 | 6.1 | 3817 | 7 | 58.0 | 507 | |
| | | MOLSI | Seysdorf/DE | MINCAM1 (0.8/8) | 1477 | 4.9 | 1084 | 24 | 154.2 | 310 |
| | | | | Ketzür/DE | REMO1 (0.8/8) | 1467 | 6.0 | 3139 | 21 | 151.2 |
| MORJO | Morvai | Fülöpszallas/HU | REMO2 (0.8/3.8) | 5613 | 4.0 | 1186 | 15 | 105.4 | 306 | |
| | | OTTMI | HUFUL (1.4/5) | 2522 | 3.5 | 532 | 24 | 190.7 | 424 | |
| OTPMI | Otte | Pearl City/US | ORIE1 (1.4/5.7) | 3837 | 3.8 | 460 | 21 | 137.0 | 437 | |
| PERZS | Perko | Becsehely/HU | HUBEC (0.8/3.8)* | 5498 | 2.9 | 460 | 27 | 159.3 | 955 | |
| PUCRC | Pucer | Nova vas nad Dra./SI | MOBCAM1 (0.75/6) | 2398 | 5.3 | 2976 | 28 | 219.1 | 593 | |
| ROTEC | Rothenberg | Berlin/DE | ARMEFA (0.8/6) | 2366 | 4.5 | 911 | 13 | 74.2 | 201 | |
| SARAN | Saraiva | Carnaxide/PT | RO1 (0.75/6) | 2362 | 3.7 | 381 | 29 | 279.0 | 518 | |
| | | | RO2 (0.75/6) | 2381 | 3.8 | 459 | 28 | 273.6 | 528 | |
| | | | SOFIA (0.8/12) | 738 | 5.3 | 907 | 29 | 297.8 | 476 | |
| | | | LEO (1.2/4.5)* | 4152 | 4.5 | 2052 | 24 | 218.2 | 478 | |
| SCALE | Scarpa | Alberoni/IT | DORAEMON (0.8/3.8) | 4900 | 3.0 | 409 | 19 | 128.7 | 187 | |
| SCHHA | Schremmer | Niederkrüchten/DE | MIN38 (0.8/3.8) | 5566 | 4.8 | 3270 | 26 | 268.1 | 948 | |
| STOEN | Stomeo | Scorze/IT | NOA38 (0.8/3.8) | 5609 | 4.2 | 1911 | 26 | 263.5 | 751 | |
| | | | SCO38 (0.8/3.8) | 5598 | 4.8 | 3306 | 26 | 255.3 | 1133 | |
| | | | MINCAM2 (0.8/6) | 2362 | 4.6 | 1152 | 9 | 47.3 | 118 | |
| | | | MINCAM3 (0.8/12) | 728 | 5.7 | 975 | 5 | 26.6 | 58 | |
| STRJO | Strunk | Herford/DE | MINCAM5 (0.8/6) | 2349 | 5.0 | 1896 | 13 | 71.9 | 266 | |
| | | | HUMOB (0.8/6) | 2388 | 4.8 | 1607 | 20 | 145.1 | 493 | |
| | | | SRAKA (0.8/6)* | 2222 | 4.0 | 546 | 26 | 139.1 | 460 | |
| TEPIS | Tepliczky | Budapest/HU | FINEXCAM (0.8/6) | 2337 | 5.5 | 3574 | 7 | 19.5 | 47 | |
| TRIMI | Triglav | Velenje/SI | HUVCSE02 (0.95/5) | 1606 | 3.8 | 390 | 1 | 9.3 | 4 | |
| YRJIL | Yrjölä | Kuusankoski/FI | HUVCSE03 (1.0/4.5) | 2224 | 4.4 | 933 | 8 | 47.9 | 90 | |
| ZELZO | Zelko | Budapest/HU | | | | | | | | |
| Sum | | | | | | | 31 | 9187.1 | 28839 | |

* active field of view smaller than video frame

2. Observing Times (h)

| January | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BASLU | - | - | 7.1 | - | - | - | - | 1.6 | - | - | - | - | 0.5 | 6.9 | 12.3 |
| BERER | - | - | 0.7 | 7.4 | - | 11.7 | - | - | 6.0 | - | - | - | - | 9.5 | 11.3 |
| | - | - | - | 5.3 | - | 10.8 | - | - | 2.9 | - | - | - | - | 6.2 | 12.7 |
| | - | - | - | 5.6 | - | 8.3 | - | - | 6.3 | - | - | - | - | 5.2 | 3.5 |
| BOMMA | 0.7 | - | 5.7 | 1.0 | 6.1 | 12.7 | 10.3 | 5.1 | 3.4 | 6.3 | 4.8 | 1.2 | 0.3 | 0.2 | - |
| BREMA | - | 8.7 | 8.3 | - | 2.0 | - | - | - | - | - | - | 7.2 | - | - | 13.7 |
| | - | 7.7 | 7.6 | - | - | - | - | - | - | - | - | 5.5 | 3.1 | - | 12.7 |
| BRIBE | - | 11.4 | 9.4 | 0.3 | 2.6 | 0.7 | 0.1 | - | - | - | - | 5.7 | 3.8 | 1.0 | - |
| | - | 11.1 | 7.4 | - | - | - | - | - | - | - | - | 2.1 | 2.5 | 6.5 | 13.5 |
| CASFL | 4.0 | 1.6 | 6.9 | 4.2 | 5.1 | 6.3 | 8.6 | 5.5 | 7.3 | 10.5 | 11.4 | 6.5 | 6.7 | 6.8 | 7.9 |
| | 5.1 | 1.8 | 7.0 | 3.9 | 4.9 | 8.3 | 7.0 | 9.7 | 8.9 | 6.9 | 13.5 | - | 6.5 | 6.1 | 4.4 |
| CRIST | - | 4.3 | 11.9 | 8.1 | 8.4 | - | 12.8 | 10.8 | 12.0 | 13.0 | 7.1 | 0.2 | 11.1 | 12.9 | 12.9 |
| | - | 5.7 | 10.9 | 7.4 | 7.6 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 0.4 | - | 9.6 | 12.9 | 12.9 |
| | - | 5.4 | 13.1 | 10.1 | 9.1 | 13.1 | 13.1 | 12.5 | 13.0 | 13.0 | 9.5 | 0.2 | 10.7 | 12.9 | 12.9 |
| CSISZ | - | 2.0 | 7.9 | 3.9 | - | 9.6 | - | 2.0 | - | 5.4 | 3.2 | 2.7 | 5.2 | 10.0 | 3.8 |
| ELTMA | 10.3 | - | 6.6 | 5.4 | - | 10.1 | 12.9 | 11.8 | 8.2 | 13.2 | 6.4 | 4.4 | 10.5 | 12.4 | 13.2 |
| GONRU | - | 6.8 | 8.4 | 4.0 | 8.2 | 7.6 | 9.0 | 8.5 | 7.2 | 8.8 | 11.5 | 5.6 | - | - | - |
| | - | 6.4 | 8.5 | 3.8 | 7.8 | 9.8 | 12.7 | 12.7 | 11.5 | 11.3 | 12.6 | 5.4 | - | - | - |
| | 2.0 | 12.8 | 11.6 | 6.2 | 10.0 | 12.2 | 12.6 | 12.7 | 12.7 | 11.3 | 8.0 | - | 4.1 | - | 6.0 |
| GOVMI | 8.1 | - | 10.1 | 1.7 | 4.8 | 11.0 | 6.0 | 0.7 | - | 9.0 | 12.6 | 8.2 | 10.9 | 11.6 | 9.3 |
| | 8.7 | - | - | - | 5.0 | 12.9 | 5.1 | 1.5 | 2.3 | 8.8 | - | 2.6 | 6.6 | 4.0 | 5.0 |
| | 8.7 | - | 6.4 | - | 5.0 | 8.4 | 3.6 | - | 2.5 | 1.4 | 13.0 | 8.7 | 11.5 | 12.0 | 9.8 |
| HINWO | - | 1.0 | 2.9 | 1.3 | - | 13.1 | - | - | - | - | - | 4.1 | - | - | 10.7 |
| IGAAN | 3.2 | 2.1 | 5.7 | 4.5 | 0.8 | 10.5 | - | 5.5 | 2.7 | - | 0.3 | - | 7.6 | 6.0 | 2.8 |
| | - | 4.7 | - | 6.5 | 2.6 | 7.3 | - | - | - | - | 2.5 | - | 8.6 | 2.6 | 9.9 |
| | 1.7 | 4.1 | 5.4 | 6.1 | 2.8 | 4.0 | - | - | 4.2 | - | 3.6 | 7.1 | 10.0 | 9.0 | 6.4 |
| | - | - | - | - | 3.9 | - | - | - | - | 2.4 | 3.7 | - | - | - | 8.9 |
| | - | - | 2.7 | 1.3 | 3.2 | 6.8 | 0.7 | - | - | 4.4 | 1.0 | - | - | - | - |
| KACJA | 8.6 | - | - | 3.5 | 1.0 | - | 2.8 | 1.2 | 4.1 | 12.7 | 11.6 | 11.4 | 10.9 | 12.9 | 13.1 |
| | 10.0 | - | - | - | - | 11.4 | - | - | - | 7.7 | - | 8.6 | 10.7 | 12.6 | 12.0 |
| | 8.4 | - | - | 2.2 | 3.5 | 13.4 | 9.9 | 2.8 | 5.2 | 12.8 | 11.4 | 10.6 | 12.6 | 13.1 | 13.3 |
| | 9.0 | - | - | 3.8 | 4.9 | - | 2.1 | 3.0 | 4.8 | 10.6 | 12.0 | 9.9 | 12.5 | 12.0 | 13.1 |
| | 9.7 | - | - | 3.3 | 0.5 | - | 3.0 | 1.2 | 5.0 | 12.4 | 12.5 | 11.6 | 12.2 | 13.2 | 13.1 |
| KERST | 7.4 | 8.5 | 8.5 | 6.0 | 6.5 | - | 4.9 | 5.2 | 1.8 | - | 5.1 | - | - | - | - |
| KOSDE | 5.4 | 6.6 | 0.4 | 5.2 | - | - | - | - | 7.4 | - | - | - | - | - | 10.7 |
| | - | 7.3 | 7.1 | - | 2.2 | 2.5 | 5.8 | - | 2.4 | - | - | - | - | 6.7 | 12.5 |
| LERAR | - | - | - | - | 8.2 | - | - | - | - | - | - | - | - | - | - |
| MACMA | 2.3 | 0.3 | 1.3 | 4.3 | 0.5 | 0.8 | 0.9 | - | 1.1 | 0.2 | 3.0 | - | - | - | - |
| | 2.5 | - | 6.0 | 3.6 | 0.2 | - | 0.3 | - | 1.4 | 0.5 | 3.5 | 0.7 | 0.6 | - | - |
| | - | - | 4.2 | 4.1 | 0.2 | 0.5 | 2.1 | - | 1.5 | - | 2.9 | - | - | - | - |
| MARGR | - | 0.5 | 4.9 | - | 5.8 | - | 0.7 | - | - | - | - | - | - | - | - |
| MOLSI | - | - | - | - | - | - | - | - | - | - | - | - | 1.5 | 7.3 | 12.6 |
| | 7.9 | 2.8 | 3.0 | 3.1 | 2.3 | 1.9 | - | 0.4 | - | 2.6 | 3.7 | 13.3 | 3.3 | 11.3 | 13.4 |
| | - | 9.4 | 7.0 | - | - | 6.5 | 0.9 | 0.9 | 1.5 | 0.9 | - | 8.7 | 13.7 | 13.7 | 3.5 |
| | - | 8.1 | 5.8 | 1.7 | 3.0 | 5.4 | - | - | - | - | - | 7.4 | 13.7 | 13.7 | - |
| MORJO | 3.9 | 5.8 | 12.8 | 4.8 | 4.4 | 13.5 | - | 11.1 | 3.1 | - | 3.5 | 8.2 | 11.7 | 11.9 | 7.2 |
| OTTMI | - | 9.2 | 5.3 | 8.7 | 8.5 | 7.3 | 5.9 | 5.4 | 9.2 | 9.4 | - | 1.6 | 4.9 | 2.3 | 7.7 |
| PERZS | 7.4 | 2.6 | 3.5 | 4.4 | 3.7 | 8.8 | 3.2 | 0.3 | - | 3.0 | 2.4 | 4.8 | 7.9 | 9.0 | 7.5 |
| PUCRC | 12.7 | - | - | 3.9 | 0.4 | 9.2 | 4.3 | 10.3 | 5.6 | 7.0 | 12.0 | 0.3 | 10.4 | 10.2 | 13.2 |
| ROTEC | - | 5.0 | 4.1 | - | - | - | - | - | - | - | - | 2.0 | - | 11.5 | 3.8 |
| SARAN | 4.4 | 12.3 | 6.1 | 11.2 | 12.6 | 9.6 | 9.7 | 9.6 | 6.5 | 9.9 | 3.4 | - | 1.9 | 0.2 | - |
| | 2.5 | 12.5 | 5.9 | 11.5 | 12.6 | 9.0 | 12.6 | 12.7 | 6.0 | 10.3 | 4.6 | - | 2.1 | - | 1.3 |
| | 3.4 | 12.4 | 6.5 | 11.4 | 12.7 | 12.2 | 12.6 | 13.0 | 5.8 | 9.4 | 8.7 | - | 2.0 | - | 2.4 |
| SCALE | 8.7 | - | 3.8 | 4.6 | 4.0 | 8.4 | 10.8 | 12.1 | 9.8 | 12.7 | 11.7 | - | 12.1 | 13.0 | 13.0 |
| SCHHA | - | 9.1 | 7.9 | - | 4.4 | 1.3 | 0.9 | - | - | - | - | 11.1 | 1.7 | 6.6 | 13.7 |
| STOEN | 11.5 | - | 5.7 | 7.3 | 4.5 | 10.3 | 11.6 | 12.5 | 11.3 | 13.2 | 12.0 | 9.4 | 13.4 | 13.1 | 13.1 |
| | 11.7 | - | 5.8 | 7.2 | 3.3 | 8.7 | 11.8 | 12.7 | 11.5 | 13.1 | 11.9 | 10.3 | 13.0 | 13.0 | 13.0 |
| | 8.7 | - | 3.7 | 3.7 | 4.4 | 9.9 | 8.3 | 11.1 | 9.6 | 13.2 | 11.5 | 11.3 | 13.0 | 13.1 | 13.1 |
| STRJO | - | 4.8 | 7.2 | - | - | - | - | - | - | - | - | 0.7 | 3.6 | - | 13.1 |
| | - | 1.3 | 6.2 | - | - | - | - | - | - | - | - | - | - | - | - |
| | - | 5.5 | 7.2 | - | - | - | - | - | - | - | - | 0.5 | 2.1 | 1.8 | 8.3 |
| TEPIS | - | 3.5 | 8.1 | 2.1 | 2.3 | 1.3 | - | - | - | - | - | 2.5 | 4.3 | 8.2 | 6.6 |
| TRIMI | 2.0 | - | 4.9 | 4.5 | 2.7 | 8.9 | 7.0 | 3.2 | - | 5.1 | 6.3 | 6.0 | 8.7 | 7.2 | 10.7 |
| YRJIL | 0.2 | - | - | - | - | - | 0.8 | 1.3 | - | - | - | - | - | - | - |
| ZELZO | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | - | 0.5 | 1.2 | - | - | 7.1 | - | 11.2 | 2.3 | - | - | - | - | - | 6.7 |
| Sum | 200.8 | 225.6 | 326.3 | 224.1 | 219.2 | 376.2 | 260.5 | 254.8 | 241.0 | 305.4 | 278.8 | 228.3 | 334.3 | 392.3 | 488.2 |

| January | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BASLU | 0.7 | 12.1 | - | - | - | 8.4 | - | - | - | - | 2.1 | 1.5 | - | - | - | 10.4 |
| BERER | 8.9 | 2.8 | 1.4 | - | 8.3 | - | - | - | 7.0 | 9.9 | 3.3 | 11.7 | - | 12.8 | 9.3 | 12.1 |
| | 6.0 | 1.8 | 2.2 | - | 6.3 | - | - | 0.7 | 5.7 | 9.2 | 0.3 | 6.5 | - | 8.2 | 6.0 | 4.3 |
| | 6.2 | 2.1 | 1.0 | - | 6.9 | - | - | 0.2 | 3.4 | 4.6 | 0.3 | 4.4 | - | 6.5 | 7.8 | 5.6 |
| BOMMA | - | - | - | - | - | - | - | - | 1.7 | 2.0 | - | - | 0.2 | - | 0.3 | - |
| BREMA | 13.7 | 12.9 | - | 6.6 | - | - | - | 8.3 | 9.2 | 5.9 | 3.1 | 6.6 | - | - | 8.3 | 13.0 |
| | 13.6 | 12.9 | - | 3.9 | 4.6 | - | - | 6.1 | 3.1 | 3.1 | 0.4 | 5.6 | - | - | 8.4 | 13.0 |
| BRIBE | 13.6 | 13.5 | - | 2.2 | 5.2 | - | 2.0 | 2.9 | 7.2 | 7.6 | 4.3 | 13.2 | - | - | - | 12.9 |
| | 13.5 | 12.9 | - | - | 0.3 | - | 1.3 | - | - | - | 2.3 | 4.4 | - | - | 0.4 | 12.7 |
| CASFL | 9.4 | 1.5 | 1.5 | 6.4 | 4.9 | 6.0 | 3.3 | 9.7 | 8.5 | 9.6 | 6.7 | - | 0.3 | 5.4 | 0.7 | - |
| | 6.3 | 0.7 | 1.4 | 6.5 | 3.7 | 3.2 | 4.0 | 7.9 | 4.1 | 11.9 | 3.2 | 0.8 | - | 3.8 | 2.2 | - |
| CRIST | 12.9 | 4.8 | - | 4.1 | 12.3 | 8.0 | 0.6 | 2.3 | 12.6 | 11.1 | - | - | - | - | 2.8 | - |
| | 12.9 | 2.2 | - | 0.6 | 12.7 | 4.5 | 0.3 | 3.5 | 12.6 | 8.9 | - | - | - | - | 3.1 | - |
| | 12.9 | 5.5 | - | 4.6 | 12.8 | 8.6 | 1.1 | 2.3 | 12.6 | - | - | - | - | - | - | - |
| CSISZ | - | - | - | - | 5.6 | - | - | - | 5.1 | - | 7.7 | 9.9 | - | 2.1 | 12.7 | 8.4 |
| ELTMA | 10.8 | - | - | - | 2.4 | 3.9 | 6.4 | 7.3 | 12.9 | 7.8 | - | 12.7 | 10.1 | 12.7 | 10.7 | - |
| GONRU | 11.7 | 12.5 | 12.4 | 9.0 | 12.4 | 12.4 | 9.4 | 12.0 | 11.7 | 4.5 | - | 12.2 | 11.2 | 7.6 | - | 10.6 |
| | 12.5 | 12.5 | 12.5 | 9.0 | 12.5 | 12.4 | 8.9 | 12.3 | 12.3 | 4.5 | - | 12.3 | 12.2 | 12.2 | 12.1 | 10.0 |
| | 12.6 | 12.5 | 12.5 | 9.1 | 12.5 | 12.5 | 10.9 | 12.4 | 12.4 | - | 9.5 | 12.3 | 12.2 | 12.2 | 12.2 | 11.6 |
| GOVMI | 3.5 | 2.0 | 5.1 | - | 2.4 | 1.9 | 11.7 | - | 9.7 | 11.3 | 8.2 | 8.4 | 3.6 | 5.2 | 9.7 | 2.0 |
| | - | 0.7 | 7.5 | - | - | - | - | - | 4.6 | 5.3 | 4.1 | 3.9 | - | 3.7 | 4.2 | 3.2 |
| | 3.7 | 2.1 | 7.5 | - | - | 1.9 | 1.9 | - | 1.1 | 8.6 | 11.9 | 12.7 | 4.2 | 4.3 | 12.5 | 3.3 |
| HINWO | 9.5 | 5.8 | 1.1 | - | - | - | - | - | 2.3 | 11.9 | - | - | - | - | - | 4.5 |
| IGAAN | 1.7 | - | 4.2 | - | 7.7 | 0.2 | 2.5 | - | 2.6 | 4.6 | 2.2 | 7.8 | 0.2 | 0.2 | 9.3 | 3.7 |
| | 4.0 | 7.0 | - | - | 7.3 | - | 2.9 | 6.1 | 5.0 | - | 10.8 | - | 5.9 | 12.8 | 12.7 | 12.7 |
| | 9.1 | - | 6.7 | - | 7.6 | - | 2.9 | - | - | - | 2.9 | - | - | 8.8 | 11.9 | 12.1 |
| | - | - | - | - | - | - | - | 1.3 | - | - | - | 11.4 | - | 0.4 | - | - |
| | - | - | 2.4 | - | 4.7 | - | 2.6 | 0.4 | 2.8 | 5.7 | 3.1 | 6.5 | 1.9 | 4.4 | - | 9.4 |
| KACJA | 12.5 | 11.2 | 7.8 | - | 5.0 | 4.1 | 7.1 | 1.3 | 12.8 | 12.8 | 8.4 | 11.8 | - | - | 12.6 | - |
| | 7.3 | - | - | - | 4.2 | - | - | - | - | 11.7 | 11.8 | 9.9 | - | - | - | - |
| | 12.3 | 9.5 | 2.7 | - | 5.0 | 5.8 | 2.0 | 1.7 | 6.6 | 12.0 | 11.7 | 12.6 | 3.0 | - | 12.7 | - |
| | 12.3 | 12.1 | 9.5 | - | 5.2 | 4.2 | 7.1 | 1.4 | 13.1 | 13.0 | 9.0 | 12.3 | - | - | 12.8 | - |
| | 12.5 | 12.2 | 9.2 | - | 5.1 | 5.4 | 7.4 | 1.4 | 12.7 | 12.9 | 8.9 | 11.6 | - | - | 12.8 | - |
| KERST | - | - | 6.3 | - | - | - | - | - | - | - | - | - | - | - | - | 3.8 |
| KOSDE | 10.7 | 10.7 | 6.0 | 9.8 | 9.6 | 8.8 | 8.4 | 10.6 | 8.2 | 4.5 | 6.3 | 9.5 | 8.5 | - | 10.5 | 10.5 |
| | 12.5 | 8.5 | - | - | - | 10.0 | - | 8.6 | - | - | 7.4 | 9.6 | - | - | - | 12.1 |
| LERAR | - | - | - | 0.3 | - | - | - | - | - | - | - | 0.7 | - | - | - | - |
| MACMA | - | - | - | - | - | - | 1.3 | 4.9 | - | - | - | 1.9 | 13.0 | 12.5 | 12.6 | 10.6 |
| | - | - | - | - | 0.7 | 1.9 | 0.7 | 4.2 | - | - | - | - | 13.0 | 12.9 | 12.7 | 10.7 |
| | - | - | - | - | 2.4 | 0.4 | 3.1 | - | - | - | - | 1.3 | 1.3 | 1.3 | 1.6 | 1.2 |
| MARGR | - | - | - | 10.6 | 8.1 | - | 7.9 | - | - | - | - | - | - | - | - | - |
| MOLSI | 12.3 | 12.1 | - | - | - | - | - | - | 6.5 | - | 5.7 | - | - | - | - | - |
| | 13.3 | 13.3 | 2.3 | - | 2.4 | 1.4 | 3.5 | - | 9.9 | - | 6.9 | - | - | 6.9 | 12.8 | 12.5 |
| | - | 8.7 | - | 7.3 | 6.0 | 3.0 | 1.4 | - | - | 13.3 | 9.3 | - | - | 9.6 | 13.0 | 12.9 |
| | - | 8.8 | - | 6.6 | 5.4 | 2.6 | - | - | 1.2 | 13.0 | 9.0 | - | - | - | - | - |
| MORJO | 4.7 | - | 6.9 | - | 5.5 | - | 3.1 | - | 3.1 | 10.4 | 5.5 | 12.2 | - | 12.7 | 12.6 | 12.1 |
| OTTMI | - | 9.9 | - | - | - | 3.4 | - | - | 8.5 | - | 8.8 | 3.6 | 3.6 | - | 9.0 | 4.8 |
| PERZS | 1.7 | - | 5.4 | - | 7.8 | 2.0 | 6.6 | - | 9.9 | 10.7 | 9.0 | 11.2 | 1.4 | 7.6 | 10.8 | 6.7 |
| PUCRC | 11.5 | 8.9 | 4.1 | - | 4.5 | 4.6 | 0.8 | 1.9 | 12.9 | 10.7 | 12.8 | 13.0 | 11.0 | 6.8 | 11.7 | 4.4 |
| ROTEC | - | 5.7 | - | 4.0 | 0.5 | 0.2 | 2.0 | - | - | 13.3 | - | - | - | - | 12.0 | 10.1 |
| SARAN | 12.8 | 12.5 | 11.9 | 12.3 | 12.4 | 12.4 | 11.6 | 12.4 | 8.7 | 8.4 | 7.2 | 12.1 | 11.6 | 12.2 | 12.1 | 11.0 |
| | 12.6 | 11.3 | 12.5 | 12.3 | 12.4 | 12.4 | 10.6 | 12.3 | 8.0 | - | 6.8 | 12.2 | 11.6 | 12.2 | 12.1 | 10.7 |
| | 12.9 | 12.5 | 11.8 | 12.3 | 12.5 | 12.4 | 11.6 | 12.3 | 8.7 | 10.9 | 8.2 | 12.1 | 11.5 | 12.2 | 12.1 | 11.3 |
| SCALE | 10.1 | - | - | - | - | - | 4.2 | 8.4 | 12.6 | 12.6 | 12.3 | 9.7 | 4.7 | 11.6 | 7.0 | 0.3 |
| SCHHA | 13.7 | 13.6 | - | 2.8 | 5.8 | 0.6 | 5.5 | 3.9 | - | - | 1.0 | 12.1 | - | - | - | 13.0 |
| STOEN | 11.0 | - | - | - | 4.0 | 8.0 | 10.2 | 10.3 | 12.8 | 12.8 | 12.8 | 11.0 | 3.7 | 12.8 | 9.8 | - |
| | 11.7 | - | - | - | 4.3 | 7.0 | 9.2 | 10.8 | 12.8 | 12.7 | 12.7 | 10.4 | 3.3 | 12.7 | 8.9 | - |
| | 11.3 | - | - | - | 5.4 | 5.9 | 11.5 | 10.3 | 12.8 | 12.9 | 12.8 | 10.2 | 4.7 | 12.8 | 10.1 | - |
| STRJO | 0.6 | 7.6 | - | - | - | - | - | - | 3.8 | 5.9 | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - | - | - | 3.4 | - | - | 3.1 | 12.6 |
| | 1.3 | 13.2 | - | - | - | - | - | - | 2.3 | 7.6 | - | 3.2 | - | - | 9.5 | 9.4 |
| TEPIS | 2.1 | - | 7.0 | - | 8.9 | - | - | 0.6 | 12.3 | 12.8 | 12.1 | 12.7 | - | 12.6 | 12.6 | 12.5 |
| TRIMI | 5.5 | 2.5 | 3.8 | 3.0 | 3.0 | 3.3 | 7.0 | - | 4.6 | 8.3 | 8.3 | 6.6 | - | 1.5 | 4.5 | - |
| YRJIL | - | - | - | - | - | - | - | - | - | - | - | - | 12.4 | 0.5 | 1.4 | 2.9 |
| ZELZO | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.3 |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.0 | - | 10.9 |
| Sum | 438.9 | 345.6 | 186.6 | 143.3 | 296.8 | 205.7 | 213.8 | 216.1 | 375.0 | 391.2 | 311.1 | 401.7 | 180.3 | 302.7 | 430.7 | 391.8 |

3. Results (Meteors)

| January | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------|-----|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|
| BASLU | - | - | 10 | - | - | - | - | 1 | - | - | - | - | 1 | 5 | 7 |
| BERER | - | - | 1 | 45 | - | 61 | - | - | 20 | - | - | - | - | 46 | 52 |
| | - | - | - | 19 | - | 35 | - | - | 7 | - | - | - | - | 26 | 33 |
| | - | - | - | 19 | - | 28 | - | - | 13 | - | - | - | - | 21 | 15 |
| BOMMA | 4 | - | 45 | 7 | 17 | 19 | 16 | 20 | 20 | 21 | 5 | 7 | 2 | 1 | - |
| BREMA | - | 6 | 38 | - | 2 | - | - | - | - | - | - | 7 | - | - | 35 |
| | - | 12 | 44 | - | - | - | - | - | - | - | - | 5 | 3 | - | 19 |
| BRIBE | - | 33 | 56 | 1 | 1 | 1 | 1 | - | - | - | - | 6 | 2 | 6 | - |
| | - | 34 | 35 | - | - | - | - | - | - | - | - | 4 | 4 | 23 | 33 |
| CASFL | 18 | 9 | 66 | 11 | 19 | 21 | 28 | 29 | 32 | 22 | 37 | 13 | 26 | 26 | 23 |
| | 12 | 10 | 75 | 13 | 16 | 25 | 27 | 32 | 28 | 23 | 13 | - | 22 | 29 | 27 |
| CRIST | - | 52 | 144 | 27 | 33 | - | 60 | 45 | 41 | 41 | 8 | 1 | 24 | 47 | 43 |
| | - | 36 | 128 | 29 | 38 | 53 | 32 | 58 | 35 | 35 | 2 | - | 22 | 39 | 26 |
| | - | 13 | 219 | 48 | 48 | 85 | 83 | 70 | 58 | 80 | 19 | 1 | 20 | 80 | 73 |
| CSISZ | - | 1 | 18 | 8 | - | 27 | - | 1 | - | 9 | 14 | 5 | 16 | 6 | 3 |
| ELTMA | 22 | - | 28 | 7 | - | 26 | 53 | 38 | 43 | 41 | 17 | 6 | 32 | 41 | 36 |
| GONRU | - | 13 | 98 | 2 | 34 | 26 | 40 | 28 | 15 | 26 | 33 | 14 | - | - | - |
| | - | 7 | 103 | 3 | 34 | 25 | 46 | 44 | 31 | 40 | 27 | 8 | - | - | - |
| | 4 | 32 | 83 | 1 | 32 | 21 | 32 | 25 | 29 | 22 | 20 | - | 8 | - | 13 |
| GOVMI | 32 | - | 101 | 5 | 26 | 43 | 18 | 2 | - | 17 | 40 | 13 | 32 | 45 | 34 |
| | 25 | - | - | - | 29 | 44 | 19 | 1 | 2 | 9 | - | 7 | 9 | 12 | 10 |
| | 21 | - | 47 | - | 12 | 33 | 5 | - | 1 | 4 | 21 | 4 | 5 | 10 | 8 |
| HINWO | - | 12 | 7 | 4 | - | 76 | - | - | - | - | - | 13 | - | - | 82 |
| IGAAN | 14 | 4 | 18 | 25 | 5 | 49 | - | 21 | 5 | - | 1 | - | 30 | 16 | 15 |
| | - | 8 | - | 36 | 12 | 22 | - | - | - | - | 3 | - | 23 | 5 | 26 |
| | 8 | 10 | 17 | 26 | 2 | 4 | - | - | 12 | - | 5 | 8 | 17 | 11 | 16 |
| | - | - | - | - | 7 | - | - | - | - | 6 | 1 | - | - | - | 12 |
| | - | - | 11 | 1 | 32 | 56 | 7 | - | - | 14 | 9 | - | - | - | - |
| KACJA | 47 | - | - | 11 | 4 | - | 5 | 9 | 22 | 59 | 64 | 39 | 75 | 47 | 69 |
| | 25 | - | - | - | - | 38 | - | - | - | 7 | - | 15 | 28 | 25 | 26 |
| | 15 | - | - | 4 | 13 | 50 | 33 | 9 | 21 | 29 | 28 | 17 | 32 | 44 | 38 |
| | 70 | - | - | 16 | 41 | - | 10 | 21 | 45 | 35 | 74 | 44 | 81 | 50 | 83 |
| | 29 | - | - | 3 | 3 | - | 7 | 7 | 37 | 28 | 46 | 37 | 46 | 55 | 59 |
| KERST | 50 | 66 | 51 | 44 | 32 | - | 29 | 27 | 11 | - | 24 | - | - | - | - |
| KOSDE | 42 | 52 | 13 | 32 | - | - | - | - | 42 | - | - | - | - | - | 82 |
| | - | 14 | 33 | - | 3 | 5 | 8 | - | 5 | - | - | - | - | 7 | 35 |
| LERAR | - | - | - | - | 7 | - | - | - | - | - | - | - | - | - | - |
| MACMA | 1 | 2 | 3 | 15 | 2 | 3 | 3 | - | 1 | 1 | 4 | - | - | - | - |
| | 2 | - | 4 | 18 | 2 | - | 1 | - | 2 | 1 | 8 | 4 | 2 | - | - |
| | - | - | 8 | 14 | 1 | 2 | 3 | - | 3 | - | 3 | - | - | - | - |
| MARGR | - | 2 | 56 | - | 26 | - | 2 | - | - | - | - | - | - | - | - |
| MOLSI | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 95 | 124 |
| | 6 | 8 | 2 | 3 | 8 | 1 | - | 1 | - | 15 | 10 | 9 | 3 | 24 | 44 |
| | - | 70 | 115 | - | - | 12 | 2 | 6 | 4 | 1 | - | 20 | 71 | 72 | 1 |
| | - | 36 | 50 | 1 | 14 | 9 | - | - | - | - | - | 14 | 33 | 35 | - |
| MORJO | 9 | 19 | 84 | 20 | 13 | 31 | - | 23 | 9 | - | 9 | 7 | 24 | 24 | 19 |
| OTTMI | - | 31 | 70 | 22 | 18 | 26 | 36 | 29 | 25 | 23 | - | 5 | 17 | 9 | 15 |
| PERZS | 50 | 6 | 47 | 22 | 28 | 82 | 20 | 4 | - | 15 | 6 | 9 | 36 | 39 | 35 |
| PUCRC | 38 | - | - | 17 | 2 | 52 | 26 | 31 | 25 | 22 | 33 | 1 | 30 | 39 | 37 |
| ROTEC | - | 35 | 25 | - | - | - | - | - | - | - | - | 1 | - | 18 | 5 |
| SARAN | 10 | 27 | 53 | 20 | 27 | 26 | 22 | 27 | 9 | 14 | 6 | - | 1 | 1 | - |
| | 7 | 38 | 53 | 34 | 24 | 23 | 21 | 19 | 5 | 11 | 17 | - | 4 | - | 1 |
| | 8 | 26 | 65 | 14 | 21 | 28 | 18 | 17 | 4 | 7 | 14 | - | 1 | - | 1 |
| SCALE | 11 | - | 18 | 2 | 20 | 15 | 36 | 33 | 31 | 41 | 32 | - | 17 | 31 | 31 |
| SCHHA | - | 25 | 55 | - | 4 | 1 | 2 | - | - | - | - | 11 | 2 | 2 | 11 |
| STOEN | 33 | - | 20 | 24 | 25 | 41 | 72 | 53 | 44 | 53 | 47 | 22 | 36 | 54 | 58 |
| | 22 | - | 20 | 15 | 17 | 21 | 47 | 35 | 31 | 47 | 45 | 13 | 43 | 42 | 53 |
| | 47 | - | 19 | 19 | 34 | 55 | 60 | 74 | 80 | 52 | 37 | 28 | 65 | 59 | 88 |
| STRJO | - | 9 | 48 | - | - | - | - | - | - | - | - | 1 | 2 | - | 18 |
| | - | 3 | 25 | - | - | - | - | - | - | - | - | - | - | - | - |
| | - | 28 | 74 | - | - | - | - | - | - | - | - | 3 | 9 | 13 | 20 |
| TEPIS | - | 6 | 113 | 16 | 20 | 7 | - | - | - | - | - | 6 | 9 | 34 | 15 |
| TRIMI | 7 | - | 41 | 15 | 10 | 42 | 28 | 13 | - | 14 | 14 | 13 | 23 | 25 | 31 |
| YRJIL | 1 | - | - | - | - | - | 1 | 2 | - | - | - | - | - | - | - |
| ZELZO | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | - | 1 | 5 | - | - | 25 | - | 16 | 5 | - | - | - | - | - | 19 |
| Sum | 690 | 796 | 2562 | 738 | 818 | 1375 | 959 | 871 | 853 | 885 | 796 | 441 | 989 | 1339 | 1659 |

| January | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---------|------|------|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|------|-----|
| BASLU | 2 | 4 | - | - | - | 3 | - | - | - | - | 2 | 1 | - | - | - | 4 |
| BERER | 26 | 14 | 4 | - | 48 | - | - | - | 31 | 53 | 7 | 50 | - | 63 | 50 | 41 |
| | 13 | 4 | 4 | - | 23 | - | - | 1 | 21 | 25 | 1 | 15 | - | 18 | 19 | 16 |
| | 11 | 4 | 2 | - | 21 | - | - | 1 | 12 | 14 | 1 | 14 | - | 15 | 23 | 14 |
| BOMMA | - | - | - | - | - | - | - | - | 10 | 13 | - | - | 1 | - | 2 | - |
| BREMA | 25 | 27 | - | 11 | - | - | - | 10 | 7 | 3 | 3 | 21 | - | - | 16 | 26 |
| | 19 | 23 | - | 9 | 2 | - | - | 18 | 8 | 1 | 2 | 17 | - | - | 15 | 11 |
| BRIBE | 30 | 37 | - | 1 | 2 | - | 3 | 1 | 5 | 6 | 6 | 29 | - | - | - | 26 |
| | 28 | 37 | - | - | 1 | - | 1 | - | - | - | 6 | 4 | - | - | 1 | 28 |
| CASFL | 30 | 5 | 3 | 21 | 10 | 12 | 12 | 30 | 27 | 14 | 27 | - | 2 | 13 | 3 | - |
| | 23 | 2 | 8 | 21 | 10 | 10 | 11 | 29 | 23 | 28 | 21 | 2 | - | 12 | 7 | - |
| CRIST | 50 | 6 | - | 20 | 47 | 11 | 1 | 6 | 63 | 46 | - | - | - | - | 4 | - |
| | 32 | 3 | - | 3 | 35 | 6 | 2 | 19 | 39 | 24 | - | - | - | - | 2 | - |
| | 72 | 16 | - | 26 | 73 | 16 | 6 | 9 | 60 | - | - | - | - | - | - | - |
| CSISZ | - | - | - | - | 8 | - | - | - | 11 | - | 13 | 10 | - | 2 | 10 | 7 |
| ELTMA | 50 | - | - | - | 3 | 2 | 6 | 15 | 41 | 26 | - | 22 | 20 | 13 | 16 | - |
| GONRU | 44 | 42 | 41 | 24 | 54 | 44 | 25 | 38 | 32 | 3 | - | 46 | 51 | 47 | - | 26 |
| | 42 | 27 | 33 | 20 | 40 | 33 | 15 | 27 | 28 | 2 | - | 32 | 40 | 43 | 27 | 9 |
| | 36 | 26 | 24 | 13 | 26 | 28 | 23 | 26 | 25 | - | 21 | 26 | 25 | 24 | 24 | 16 |
| GOVMI | 8 | 4 | 5 | - | 2 | 5 | 29 | - | 32 | 44 | 33 | 31 | 5 | 8 | 32 | 6 |
| | - | 2 | 4 | - | - | - | - | - | 2 | 15 | 8 | 14 | - | 5 | 15 | 3 |
| | 2 | 4 | 2 | - | - | 11 | 12 | - | 7 | 9 | 4 | 16 | 5 | 3 | 21 | 5 |
| HINWO | 50 | 58 | 3 | - | - | - | - | - | 11 | 65 | - | - | - | - | - | 13 |
| IGAAN | 5 | - | 15 | - | 34 | 1 | 10 | - | 9 | 13 | 9 | 20 | 3 | 2 | 29 | 11 |
| | 7 | 12 | - | - | 14 | - | 2 | 1 | 5 | - | 13 | - | 7 | 26 | 28 | 18 |
| | 26 | - | 5 | - | 18 | - | 4 | - | - | - | 5 | - | - | 5 | 22 | 13 |
| | - | - | - | - | - | - | - | 1 | - | - | - | 7 | - | 1 | - | - |
| | - | - | 5 | - | 36 | - | 27 | 2 | 21 | 36 | 27 | 26 | 3 | 14 | - | 19 |
| KACJA | 45 | 33 | 5 | - | 3 | 4 | 40 | 2 | 30 | 44 | 42 | 38 | - | - | 62 | - |
| | 18 | - | - | - | 1 | - | - | - | - | 33 | 19 | 16 | - | - | - | - |
| | 28 | 15 | 5 | - | 11 | 5 | 4 | 1 | 3 | 23 | 21 | 22 | 5 | - | 25 | - |
| | 68 | 79 | 18 | - | 10 | 10 | 48 | 5 | 76 | 85 | 59 | 59 | - | - | 71 | - |
| | 29 | 48 | 13 | - | 6 | 9 | 33 | 1 | 38 | 57 | 30 | 37 | - | - | 58 | - |
| KERST | - | - | 48 | - | - | - | - | - | - | - | - | - | - | - | - | 39 |
| KOSDE | 78 | 71 | 39 | 61 | 83 | 69 | 64 | 81 | 69 | 49 | 48 | 52 | 54 | - | 74 | 61 |
| | 26 | 13 | - | - | - | 22 | - | 16 | - | - | 19 | 11 | - | - | - | 23 |
| LERAR | - | - | - | 1 | - | - | - | - | - | - | - | 2 | - | - | - | - |
| MACMA | - | - | - | - | - | - | 2 | 4 | - | - | - | 1 | 13 | 14 | 14 | 8 |
| | - | - | - | - | 2 | 1 | 1 | 4 | - | - | - | - | 18 | 10 | 15 | 13 |
| | - | - | - | - | 1 | 2 | 4 | - | - | - | - | 4 | 4 | 4 | 7 | 3 |
| MARGR | - | - | - | 43 | 34 | - | 42 | - | - | - | - | - | - | - | - | - |
| MOLSI | 100 | 133 | - | - | - | - | - | - | 34 | - | 20 | - | - | - | - | - |
| | 34 | 39 | 3 | - | 4 | 2 | 4 | - | 25 | - | 6 | - | - | 3 | 30 | 26 |
| | - | 55 | - | 34 | 14 | 5 | 4 | - | - | 65 | 49 | - | - | 22 | 44 | 68 |
| | - | 38 | - | 10 | 4 | 5 | - | - | 1 | 36 | 20 | - | - | - | - | - |
| MORJO | 16 | - | 5 | - | 6 | - | 11 | - | 7 | 14 | 10 | 14 | - | 15 | 16 | 19 |
| OTTMI | - | 23 | - | - | - | 8 | - | - | 13 | - | 22 | 16 | 6 | - | 15 | 8 |
| PERZS | 5 | - | 17 | - | 30 | 11 | 59 | - | 79 | 70 | 75 | 67 | 5 | 35 | 74 | 29 |
| PUCRC | 38 | 13 | 4 | - | 6 | 10 | 4 | 5 | 25 | 39 | 16 | 28 | 18 | 9 | 20 | 5 |
| ROTEC | - | 30 | - | 10 | 1 | 1 | 4 | - | - | 39 | - | - | - | - | 11 | 21 |
| SARAN | 20 | 25 | 14 | 21 | 20 | 12 | 17 | 20 | 5 | 7 | 13 | 15 | 26 | 23 | 18 | 19 |
| | 19 | 23 | 20 | 21 | 20 | 15 | 17 | 13 | 7 | - | 11 | 24 | 21 | 23 | 19 | 18 |
| | 23 | 15 | 18 | 12 | 10 | 17 | 22 | 21 | 4 | 15 | 7 | 14 | 24 | 24 | 11 | 15 |
| SCALE | 23 | - | - | - | - | - | 3 | 17 | 21 | 29 | 19 | 16 | 7 | 13 | 10 | 2 |
| SCHHA | 18 | 16 | - | 3 | 1 | 1 | 5 | 2 | - | - | 2 | 12 | - | - | - | 14 |
| STOEN | 60 | - | - | - | 7 | 6 | 14 | 32 | 54 | 52 | 51 | 23 | 15 | 30 | 22 | - |
| | 30 | - | - | - | 11 | 4 | 8 | 39 | 52 | 50 | 35 | 24 | 9 | 28 | 10 | - |
| | 63 | - | - | - | 12 | 5 | 18 | 32 | 60 | 61 | 53 | 30 | 14 | 35 | 33 | - |
| STRJO | 1 | 23 | - | - | - | - | - | - | 2 | 14 | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 10 | 18 |
| | 2 | 31 | - | - | - | - | - | - | 1 | 28 | - | 2 | - | - | 25 | 30 |
| TEPIS | 5 | - | 4 | - | 31 | - | - | 1 | 33 | 26 | 28 | 40 | - | 35 | 36 | 28 |
| TRIMI | 24 | 7 | 9 | 12 | 10 | 12 | 20 | - | 17 | 19 | 26 | 14 | - | 3 | 11 | - |
| YRJIL | - | - | - | - | - | - | - | - | - | - | - | - | 27 | 2 | 4 | 10 |
| ZELZO | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 7 |
| Sum | 1404 | 1087 | 380 | 397 | 844 | 417 | 635 | 534 | 1186 | 1295 | 910 | 986 | 428 | 654 | 1111 | 800 |