| No. crt. | Year | Month | Day | 3-h | V0 (km/s) | V1 (km/s) | Δt1 | Vmax (km/s) | Dur (days) | ΔV1 (km/s) | ΔVM (km/s) | I | Source | IMF | Dst_min (nT) | Dst_date (mm:dd:hh) | Bz_min (nT) | Bz_date (mm:dd:hh) | SSC_date (mm:dd:hh) | Energy estimate ΔWε (J) | Energy estimate ΔW (J) | SYM-H_min (nT) | SYM-H_date (mm:dd:hh:min) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2019 | 1 | 4 | 2 | 312 | 525 | 12 | 548.3 | 6.1 | 213 | 236.3 | 1441.43 | CH* | - | | | | | | | | | |
| 2 | 2019 | 1 | 10 | 3 | 358 | 507.3 | 7 | 507.3 | 2.6 | 149.3 | 149.3 | 388.18 | CH* | - | | | | | | | | | |
| 3 | 2019 | 1 | 13 | 6 | 291.7 | 395.3 | 5 | 495 | 8.7 | 103.6 | 203.3 | 1768.71 | CH903 | - | | | | | | | | | |
| 4 | 2019 | 1 | 22 | 4 | 301 | 468 | 12 | 621 | 7.6 | 167 | 320 | 2432 | CH904 | + | | | | | | | | | |
| 5 | 2019 | 1 | 30 | 5 | 290.3 | 491.7 | 11 | 616.3 | 6.4 | 201.4 | 326 | 2086.4 | CH905 | - | -34 | 02:01:15 | -2.2 | 02:01:15 | | | | -37 | 02:01:15:13 |
| | | | | | | | | | | | | | | | -30 | 02:03:07 | -3 | 02:03:03 | | | | | |
| 6 | 2019 | 2 | 5 | 8 | 332.3 | 434.3 | 5 | 462.3 | 5.3 | 102 | 130 | 689 | CH907 | - | | | | | | | | | |
| 7 | 2019 | 2 | 12 | 3 | 350 | 474.3 | 13 | 522 | 4.9 | 124.3 | 172 | 842.8 | CH* | - | | | | | | | | | |
| 8 | 2019 | 2 | 20 | 5 | 301.7 | 456.3 | 11 | 481.7 | 4.5 | 154.6 | 180 | 810 | CH908 | + | | | | | | | | | |
| 9 | 2019 | 2 | 27 | 2 | 311.3 | 476 | 6 | 581.7 | 6.4 | 164.7 | 270.4 | 1730.56 | CH909 | - | -41 | 02:28:19 | -5 | 02:28:18 | | | | -43 | 02:28:19:11 |
| | | | | | | | | | | | | | | | -30 | 03:01:20 | -3.4 | 03:01:18 | | | | -34 | 03:01:20:30 |
| 10 | 2019 | 3 | 5 | 5 | 356.7 | 477 | 8 | 477 | 5.4 | 120.3 | 120.3 | 649.62 | CH* | - | | | | | | | | | |
| 11 | 2019 | 3 | 27 | 8 | 340 | 520 | 8 | 520 | 6.8 | 180 | 180 | 1224 | CH912 | - | | | | | | | | | |
| 12 | 2019 | 4 | 3 | 6 | 371.3 | 488 | 8 | 521.7 | 10.5 | 116.7 | 150.4 | 1579.2 | CH914, CH* | - | -33 | 04:04:17 | -3.9 | 04:04:15 | | | | -34 | 04:04:11:42 |
| | | | | | | | | | | | | | | | -34 | 04:10:04 | -5.3 | 04:10:02 | | | | -40 | 04:10:05:28 |
| 13 | 2019 | 4 | 30 | 4 | 305 | 474.3 | 12 | 558.7 | 6.5 | 169.3 | 253.7 | 1649.05 | CH916 | - | | | | | | | | | |
| 14 | 2019 | 5 | 28 | 4 | 318.3 | 551.7 | 11 | 551.7 | 5.1 | 233.4 | 233.4 | 1190.34 | CH919 | - | | | | | | | | | |
| 15 | 2019 | 6 | 8 | 3 | 276.3 | 394 | 5 | 446 | 3.8 | 117.7 | 169.7 | 644.86 | CH922 | - | | | | | 06:08:10 | | | | |
| 16 | 2019 | 6 | 12 | 1 | 307 | 470 | 15 | 470 | 6.2 | 163 | 163 | 1010.6 | CH923 | + | | | | | | | | | |
| 17 | 2019 | 7 | 8 | 6 | 306.7 | 606 | 10 | 638 | 11.5 | 299.3 | 331.3 | 3809.95 | CH928, CH* | + | -32 | 07:10:09 | -3.7 | 07:10:08 | 07:08:19 | | | -42 | 07:10:10:07 |
| 18 | 2019 | 7 | 21 | 5 | 311.3 | 416 | 9 | 419.3 | 5.8 | 104.7 | 108 | 626.4 | CH930 | - | | | | | 07:21:22 | | | | |
| 19 | 2019 | 7 | 30 | 3 | 327 | 490.3 | 12 | 545 | 5.6 | 163.3 | 218 | 1220.8 | CH931 | - | | | | | | | | | |
| 20 | 2019 | 8 | 4 | 8 | 326 | 707 | 8 | 714.7 | 3.4 | 381 | 388.7 | 1321.58 | CH932 | + | -53 | 08:05:20 | -3.8 | 08:05:15 | 08:04:07 | 2.60E+17 | 2.15E+18 | -64 | 08:05:11:45 |
| | | | | | | | | | | | | | | | -31 | 08:07:02 | -1.1 | 08:05:00 | | | | -33 | 08:07:02:38 |
| 21 | 2019 | 8 | 8 | 3 | 428.3 | 619.7 | 13 | 625.3 | 3.6 | 191.4 | 197 | 709.2 | CH* | + | | | | | | | | | |
| 22 | 2019 | 8 | 12 | 3 | 379.7 | 487.3 | 12 | 487.3 | 4.5 | 107.6 | 107.6 | 484.2 | CH933 | + | | | | | | | | | |
| 23 | 2019 | 8 | 26 | 6 | 313 | 504 | 6 | 504 | 2.8 | 191 | 191 | 534.8 | CH934 | - | | | | | | | | | |
| 24 | 2019 | 8 | 29 | 4 | 350.7 | 530.7 | 12 | 742.7 | 10.6 | 180 | 392 | 4155.2 | CH935, CH* | -/+ | -52 | 09:01:06 | -4 | 09:01:04 | | 1.11E+17 | 1.78E+18 | -63 | 09:01:06:27 |
| | | | | | | | | | | | | | | | -51 | 09:01:20 | -3.9 | 09:01:18 | < 24h | 5.37E+16 | 7.31E+17 | -54 | 09:01:20:05 |
| | | | | | | | | | | | | | | | -35 | 09:02:20 | -2.8 | 09:02:17 | | | | -35 | 09:02:20:29 |
| | | | | | | | | | | | | | | | -45 | 09:05:05 | -4.2 | 09:05:04 | | | | -51 | 09:05:05:12 |
| 25 | 2019 | 9 | 9 | 1 | 402 | 515.3 | 3 | 515.3 | 2.9 | 113.3 | 113.3 | 328.57 | CH936 | + | | | | | | | | | |
| 26 | 2019 | 9 | 12 | 1 | 395.7 | 524.3 | 15 | 524.3 | 5.2 | 128.6 | 128.6 | 668.72 | CH* | + | | | | | | | | | |
| 27 | 2019 | 9 | 24 | 4 | 305.7 | 466 | 4 | 493.7 | 2.8 | 160.3 | 188 | 526.4 | CH937 | - | | | | | 09:24:13 | | | | |
| 28 | 2019 | 9 | 27 | 2 | 341.3 | 678.3 | 6 | 678.3 | 10.2 | 337 | 337 | 3437.4 | CHs938, 939 | + | -49 | 09:27:23 | -3.9 | 09:27:21 | 09:27:06 | | | -61 | 09:27:23:08 |
| | | | | | | | | | | | | | | | -33 | 09:30:02 | -3.1 | 09:30:01 | | | | -43 | 09:30:03:14 |
| | | | | | | | | | | | | | | | -39 | 10:01:06 | -3.8 | 10:01:05 | | | | -51 | 10:01:06:50 |
| 29 | 2019 | 10 | 9 | 8 | 374.7 | 491 | 8 | 491 | 3 | 116.3 | 116.3 | 348.9 | CH* | + | | | | | | | | | |
| 30 | 2019 | 10 | 23 | 7 | 329 | 573.3 | 9 | 647.3 | 7 | 244.3 | 318.3 | 2228.1 | CH941 | + | -46 | 10:25:08 | -5.7 | 10:25:08 | | | | -55 | 10:25:06:51 |
| | | | | | | | | | | | | | | | -41 | 10:26:20 | -2.6 | 10:26:17 | | | | -50 | 10:26:20:29 |
| | | | | | | | | | | | | | | | -35 | 10:28:07 | -2.6 | 10:28:05 | | | | -42 | 10:28:07:37 |
| 31 | 2019 | 11 | 4 | 2 | 301.3 | 412.7 | 14 | 423 | 5.4 | 111.4 | 121.7 | 657.18 | CH* | + | | | | | | | | | |
| 32 | 2019 | 11 | 16 | 4 | 347 | 449.3 | 7 | 449.3 | 2.8 | 102.3 | 102.3 | 286.44 | CH944 | - | | | | | 11:16:13 | | | | |
| 33 | 2019 | 11 | 20 | 5 | 318.3 | 585 | 11 | 585 | 8 | 266.7 | 266.7 | 2133.6 | CHs945, 946 | + | | | | | | | | | |
| 34 | 2019 | 12 | 9 | 4 | 336 | 437.3 | 11 | 443.7 | 5 | 101.3 | 107.7 | 538.5 | CH* | - | | | | | | | | | |
| 35 | 2019 | 12 | 17 | 8 | 337.3 | 528.7 | 8 | 528.7 | 4.6 | 191.4 | 191.4 | 880.44 | CH947 | + | | | | | | | | | |