**Supplementary Material**

Table S1: Summary of infrasound signal characteristics from 78 individual bolide events detected at 179 infrasound stations between 2006 to 2015 following the bolide infrasound analysis of Edwards et al., (2006) and Ens et al., (2012). The table shows for each detection; bolide date/time from the JPL webpage, infrasound station, signal arrival time, signal duration, range from the bolide location to station, theoretical back azimuth (Az), observed back azimuth (Az), JPL energy measured by U.S. government sensors, peak-to-peak (P2P) amplitude, period at maximum amplitude computed using the zero crossings method (Edwards et al., 2006), period from inversion of frequency at the maximum power spectral density (PSD), bolide integrated energy signal to noise ratio (SNR) and bandpass used for measurements. The highlighted events are common with Ens et al. (2012).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date/**  **[Time]** | **Station** | **Arrival time (UT)** | **Duration**  **(s)** | **Range**  **(km)** | **Theo. Az**  **(deg)** | **Obs. Az**  **(deg)** | **JPL Energy**  **(kT)** | **P2P Amp**  **(Pa)** | **Period @Max Amp**  **(s)** | **Period**  **@Max PSD**  **(s)** | **Bolide Integrated Energy**  **SNR** | **Band-pass**  **(Hz)** |
| **19-Feb-16**  [08:15:02] | I17CI | 09:10:08 | 356 | 1000 | 229 | 230 | 0.56 | 0.15 | 3.58 | 4.40 | 3.33 | 0.08-2.5 |
| I50GB | 09:08:03 | 439 | 1009 | 18 | 14 | 0.56 | 0.39 | 2.19 | 3.26 | 2.37 | 0.5-4 |
| **06-Feb-16**  [13:55:09] | I49GB | 15:23:34 | 120 | 1425 | 298 | 296 | 13 | 0.11 | 5.87 | 7.31 | 1.11 | 0.25-1.5 |
| I27DE | 18:06:14 | 360 | 4601 | 337 | 334 | 13 | 1.50 | 6.61 | 6.94 | 33.08 | 0.02-3.5 |
| I11CV | 18:51:18 | 142 | 5083 | 183 | 158 | 13 | 0.06 | 2.42 | 2.35 | 1.44 | 0.4-1.2 |
| **21-Dec-15**  [02:32:48] | I39PW | 03:28:07 | 519 | 951 | 101 | 100 | 0.26 | 0.28 | 3.18 | 3.71 | 1.75 | 0.2-4 |
| **13-Oct-15**  [12:23:08] | I08BO | 14:16:08 | 160 | 1959 | 64 | 41 | 0.08 | 0.03 | 1.60 | 1.45 | 0.65 | 0.4-2 |
| **08-Sep-15**  [13:46:42] | I32KE | 14:49:15 | 259 | 1138 | 318 | 315 | 0.07 | 0.06 | 1.64 | 1.51 | 7.32 | 0.5-2.5 |
| **07-Sep-15**  [01:41:19] | I45RU | 06:08:06 | 174 | 4545 | 234 | 236 | 3.9 | 0.01 | 1.99 | 1.69 | 1.12 | 0.5-1.5 |
| I46RU | 05:54:31 | 505 | 4555 | 159 | 160 | 3.9 | 0.04 | 3.34 | 3.44 | 2.65 | 0.2-1.2 |
| I04AU | 07:03:19 | 672 | 5762 | 338 | 336 | 3.9 | 0.05 | 1.15 | 1.07 | 2.87 | 0.8-2 |
| I53US | 10:42:44 | 534 | 9596 | 297 | 300 | 3.9 | 0.02 | 2.97 | 2.80 | 2.80 | 0.2-1.5 |
| **2-Sep-15**  [20:10:30] | I31KZ | 21:53:55 | 463 | 1879 | 233 | 232 | 0.13 | 0.06 | 1.71 | 1.87 | 15.25 | 0.3-4 |
| I48TN | 22:45:14 | 336 | 2736 | 73 | 72 | 0.13 | 0.01 | 1.72 | 1.86 | 2.17 | 0.5-1.5 |
| I46RU | 23:36:04 | 323 | 3712 | 262 | 257 | 0.13 | 0.02 | 2.67 | 2.59 | 3.57 | 0.25-1.5 |
| **14-Jun-15**  [03:03:06] | I39PW | 04:11:55 | 109 | 1161 | 264 | 264 | 0.22 | 0.01 | 0.91 | 0.87 | 1.74 | 1-3 |
| **10-May-15**  [07:45:01] | I36NZ | 08:02:31 | 147 | 345 | 219 | 222 | 0.49 | 0.81 | 1.74 | 2.05 | 9.62 | 0.45-7 |
| **30-Apr-15**  [10:21:01] | I13CL | 13:23:44 | 138 | 3503 | 219 | 217 | 0.32 | 0.09 | 0.63 | 0.75 | 1.02 | 0.7-2.1 |
| **08-Apr-15**  [04:06:31] | I33MG | 04:33:22 | 339 | 841 | 110 | 109 | 0.49 | 0.63 | 2.01 | 2.04 | 59.26 | 0.4-3 |
| **11-Mar-15**  [06:18:59] | I39PW | 07:45:04 | 888 | 1703 | 273 | 272 | 0.23 | 0.25 | 2.68 | 2.58 | 19.28 | 0.3-6 |
| **04-Mar-15**  [04:30:05] | I06AU | 05:25:47 | 519 | 1029 | 245 | 244 | 0.18 | 0.23 | 2.39 | 2.61 | 2.48 | 0.3-3 |
| I52GB | 06:15:11 | 357 | 1945 | 121 | 122 | 0.18 | 0.10 | 1.79 | 1.89 | 4.37 | 0.5-3 |
| **26-Feb-15**  [22:06:24] | I53US | 22:24:46 | 152 | 351 | 352 | 358 | 0.53 | 1.86 | 3.90 | 3.79 | 27.78 | 0.1-6 |
| I18DK | 00:23:42 | 720 | 2561 | 290 | 282 | 0.53 | 0.43 | 3.91 | 3.88 | 13.76 | 0.2-4 |
| I56US | 00:38:44 | 50 | 2820 | 333 | 329 | 0.53 | 0.03 | 1.15 | 1.31 | 4.42 | 0.5-1.3 |
| I10CA | 01:05:51 | 398 | 3452 | 325 | 324 | 0.53 | 0.14 | 3.14 | 3.62 | 9.25 | 0.2-2 |
| **09-Jan-15**  [10:41:11] | I32KE | 11:34:16 | 480 | 963 | 292 | 291 | 0.41 | 0.08 | 1.16 | 1.18 | 5.01 | 0.5-4 |
| I19DJ | 12:36:20 | 132 | 1903 | 237 | 237 | 0.41 | 0.08 | 2.01 | 1.99 | 1.75 | 0.45-1.2 |
| **07-Jan-15**  [01:05:59] | I26DE | 02:09:25 | 412 | 1053 | 104 | 105 | 0.4 | 0.32 | 2.85 | 2.79 | 14.31 | 0.3-6 |
| I43RU | 02:22:15 | 888 | 1417 | 215 | 214 | 0.4 | 0.18 | 3.24 | 2.95 | 2.49 | 0.3-4 |
| **13-Dec-14**  [02:53:52] | I18DK | 04:15:28 | 201 | 1428 | 345 | 337 | 0.15 | 0.08 | 1.68 | 1.81 | 2.70 | 0.4-2 |
| I53US | 05:11:39 | 631 | 2440 | 358 | 5 | 0.15 | 0.04 | 1.32 | 1.12 | 4.42 | 0.7-3 |
| **12-Dec-14**  [06:48:11] | I30JP | 07:15:02 | 227 | 466 | 114 | 108 | 0.11 | 0.11 | 1.56 | 1.31 | 4.30 | 0.7-3 |
| I45RU | 08:23:05 | 425 | 1629 | 133 | 128 | 0.11 | 0.07 | 2.08 | 2.06 | 2.18 | 0.4-1.5 |
| **28-Nov-14**  [11:47:18] | I36NZ | 12:07:02 | 349 | 364 | 126 | 130 | 1.7 | 4.06 | 2.74 | 2.75 | 44.19 | 0.01-9 |
| I05AU | 14:34:08 | 988 | 3150 | 111 | 112 | 1.7 | 0.24 | 9.69 | 10.11 | 3.32 | 0.05-4 |
| I22FR | 14:48:58 | 749 | 3212 | 150 | 150 | 1.7 | 0.12 | 2.85 | 3.03 | 2.57 | 0.25-1.5 |
| I55US | 15:06:37 | 270 | 3654 | 26 | 337 | 1.7 | 0.03 | 3.00 | 2.79 | 4.87 | 0.3-2 |
| I07AU | 17:02:22 | 265 | 5590 | 134 | 133 | 1.7 | 0.07 | 3.41 | 3.36 | 1.79 | 0.25-1.1 |
| **26-Nov-14**  [17:40:16] | I27DE | 18:16:24 | 129 | 668 | 287 | 285 | 0.32 | 0.04 | 1.62 | 1.74 | 10.62 | 0.5-7.5 |
| **04-Nov-14**  [20:13:30] | I45RU | 21:17:01 | 631 | 1305 | 270 | 272 | 0.45 | 0.30 | 2.66 | 2.90 | 6.54 | 0.2-1 |
| **14-Oct-14**  [10:25:03] | I39PW | 12:48:17 | 590 | 2006 | 239 | 318 | 0.1 | 0.03 | 1.25 | 1.52 | 1.54 | 0.6-2.5 |
| **23-Aug-14**  [06:29:41] | I05AU | 08:42:45 | 463 | 2358 | 200 | 193 | 7.6 | 0.21 | 2.57 | 2.58 | 5.70 | 0.35-4 |
| **16-May-14**  [12:42:48] | I36NZ | 12:45:17 | 120 | 39 | 144 | 135 | 0.82 | 5.49 | 3.23 | 3.72 | 155.22 | 0.1-3 |
| **08-May-14**  [19:42:37] | I04AU | 21:57:32 | 401 | 2625 | 256 | 255 | 2.4 | 0.20 | 3.00 | 2.71 | 1.67 | 0.3-1.5 |
| **29-Mar-14**  [13:45:41] | I07AU | 15:15:05 | 490 | 1623 | 231 | 230 | 0.13 | 0.05 | 1.90 | 1.62 | 4.83 | 0.5-2 |
| I05AU | 16:20:48 | 352 | 2802 | 295 | 294 | 0.13 | 0.02 | 1.89 | 1.63 | 2.61 | 0.5-1.8 |
| I06AU | 16:34:18 | 778 | 3150 | 130 | 129 | 0.13 | 0.03 | 1.96 | 1.60 | 1.76 | 0.6-3 |
| **12-Jan-14**  [16:00:48] | I19DJ | 18:20:49 | 821 | 2526 | 111 | 113 | 0.24 | 0.12 | 3.42 | 4.01 | 3.87 | 0.2-6 |
| I33MG | 18:49:41 | 141 | 3071 | 39 | 34 | 0.24 | 0.07 | 1.82 | 1.68 | 1.51 | 0.4-1.2 |
| I32KE | 18:46:00 | 1059 | 3099 | 81 | 84 | 0.24 | 0.13 | 1.76 | 1.96 | 3.33 | 0.4-5 |
| I47ZA | 21:09:43 | 369 | 5453 | 57 | 57 | 0.24 | 0.02 | 1.78 | 1.47 | 1.11 | 0.6-4 |
| **08-Jan-14**  [17:05:34] | I39PW | 18:39:41 | 427 | 1750 | 124 | 124 | 0.11 | 0.04 | 1.77 | 1.91 | 1.82 | 0.5-1.5 |
| I07AU | 19:25:07 | 276 | 2525 | 37 | 34 | 0.11 | 0.07 | 1.46 | 2.44 | 1.34 | 0.4-2.5 |
| **23-Dec-13**  [08:30:57] | I48TN | 08:56:43 | 309 | 764 | 305 | 308 | 0.43 | 0.34 | 1.41 | 1.58 | 3.73 | 0.45-7 |
| I26DE | 09:49:37 | 239 | 1394 | 226 | 214 | 0.43 | 0.24 | 2.31 | 2.17 | 5.14 | 0.4-2 |
| I31KZ | 12:31:58 | 176 | 4459 | 277 | 276 | 0.43 | 0.03 | 1.73 | 1.93 | 1.94 | 0.3-1 |
| **08-Dec-13**  [03:10:09] | I59US | 04:47:17 | 258 | 1730 | 330 | 333 | 0.2 | 0.04 | 1.68 | 1.54 | 2.47 | 0.6-2 |
| **21-Nov-13**  [01:50:35] | I43RU | 03:05:28 | 262 | 1343 | 187 | 175 | 0.23 | 0.13 | 2.03 | 2.19 | 1.30 | 0.3-2.5 |
| I31KZ | 03:35:04 | 72 | 1812 | 258 | 256 | 0.23 | 0.06 | 1.65 | 2.05 | 2.32 | 0.25-3 |
| **12-Oct-13**  [16:06:45] | I50GB | 17:33:37 | 992 | 1690 | 222 | 221 | 3.5 | 0.65 | 4.81 | 5.98 | 4.66 | 0.1-5 |
| I17CI | 19:26:10 | 820 | 3617 | 217 | 218 | 3.5 | 0.35 | 5.92 | 7.77 | 10.36 | 0.05-1.8 |
| I35NA | 20:15:49 | 498 | 4461 | 263 | 253 | 3.5 | 0.06 | 10.44 | 8.81 | 1.42 | 0.05-1 |
| I32KE | 22:48:03 | 764 | 7011 | 249 | 250 | 3.5 | 0.15 | 6.76 | 6.35 | 4.06 | 0.05-2 |
| **31-Jul-13**  [03:50:14] | I05AU | 05:15:23 | 354 | 1512 | 318 | 323 | 0.22 | 0.11 | 1.52 | 1.85 | 6.02 | 0.5-4 |
| **27-Jul-13**  [08:30:36] | I39PW | 10:52:51 | 544 | 2532 | 108 | 103 | 0.36 | 0.10 | 3.24 | 3.01 | 1.83 | 0.3-2 |
| I22FR | 11:03:19 | 360 | 2754 | 334 | 336 | 0.36 | 0.09 | 1.98 | 2.00 | 4.16 | 0.4-2 |
| **30-Apr-13**  [08:40:38] | I42PT | 09:05:32 | 486 | 460 | 212 | 216 | 10 | 1.27 | 6.77 | 8.03 | 10.89 | 0.2-8 |
| **21-Apr-13**  [06:23:12] | I41PY | 07:00:42 | 600 | 747 | 253 | 251 | 2.5 | 3.21 | 6.16 | 5.06 | 32.84 | 0.07-8 |
| I08BO | 07:41:05 | 163 | 1380 | 164 | 163 | 2.5 | 0.01 | 0.75 | 0.98 | 1.44 | 1-3 |
| I09BR | 08:20:53 | 1076 | 2198 | 228 | 226 | 2.5 | 0.90 | 4.91 | 4.88 | 11.92 | 0.04-4 |
| I02AR | 09:10:49 | 276 | 2953 | 5 | 4 | 2.5 | 0.05 | 1.79 | 1.16 | 2.20 | 0.6-3 |
| I11CV | 12:32:59 | 469 | 6566 | 223 | 226 | 2.5 | 0.08 | 4.12 | 4.71 | 1.29 | 0.3-2 |
| **15-Feb-13**  [03:20:33] | I31KZ | 03:48:08 | 1026 | 530 | 22 | 29 | 440 | 12.24 | 37.99 | 45.51 | 76.90 | 0.01-4 |
| I43RU | 05:02:09 | 2142 | 1502 | 88 | 97 | 440 | 1.58 | 38.48 | 30.06 | 13.67 | 0.01-3 |
| I46RU | 04:44:29 | 701 | 1532 | 283 | 268 | 440 | 2.52 | 21.08 | 16.72 | 35.76 | 0.02-4 |
| I34MN | 06:14:55 | 924 | 3185 | 301 | 230 | 440 | 0.50 | 22.79 | 30.34 | 4.40 | 0.03-2 |
| I26DE | 07:10:31 | 812 | 3257 | 60 | 56 | 440 | 0.97 | 28.98 | 29.26 | 2.89 | 0.03-3 |
| I18DK | 08:17:13 | 1948 | 4893 | 39 | 17 | 440 | 2.73 | 49.99 | 69.72 | 13.75 | 0.01-3 |
| I45RU | 07:55:27 | 887 | 5022 | 310 | 305 | 440 | 1.34 | 38.45 | 21.01 | 1.07 | 0.02-3 |
| I44RU | **08:50:55** | **1493** | 5798 | 314 | **303** | 440 | **0.88** | **19.25** | **39.00** | **4.20** | 0.02-3 |
| I53US | 09:36:30 | 1660 | 6481 | 341 | 339 | 440 | 12.62 | 25.69 | 19.74 | 165.14 | 0.02-4 |
| I10CA | 11:29:57 | 1107 | 8147 | 14 | 355 | 440 | 2.75 | 32.53 | 36.41 | 5.55 | 0.01-1 |
| I33MG | 11:20:35 | 720 | 8311 | 8 | 12 | 440 | 1.94 | 47.96 | 43.12 | 2.07 | 0.01-0.2 |
| I56US | 11:35:08 | 1621 | 8554 | 1 | 352 | 440 | 1.59 | 29.45 | 30.91 | 7.61 | 0.015-3 |
| I57US | 13:10:00 | 2000 | 10182 | 1 | 2 | 440 | 1.59 | 28.45 | 27.31 | 3.42 | 0.01-1 |
| I59US | 13:42:44 | 377 | 11030 | 339 | 316 | 440 | 0.39 | 84.70 | 81.92 | 2.48 | 0.01-0.1 |
| I27DE | 17:50:43 | 830 | 14983 | 49 | 61 | 440 | 1.86 | 45.15 | 44.28 | 3.76 | 0.01-0.1 |
| **20-Nov-12**  [20:37:31] | I32KE | 21:24:19 | 452 | 905 | 297 | 299 | 0.09 | 0.18 | 1.24 | 1.11 | 43.34 | 0.2-6 |
| I19DJ | 22:14:13 | 391 | 1799 | 237 | 238 | 0.09 | 0.01 | 2.37 | 2.28 | 3.21 | 0.4-2.5 |
| **18-Sep-12**  [19:34:39] | I09BR | 21:21:14 | 388 | 1928 | 346 | 348 | 0.67 | 0.02 | 2.75 | 2.53 | 2.43 | 0.3-1.5 |
| I08BO | 22:03:23 | 115 | 2633 | 44 | 42 | 0.67 | 0.03 | 0.90 | 0.91 | 2.04 | 1-1.8 |
| **10-Sep-12**  [01:03:32] | I02AR | 03:34:48 | 435 | 2757 | 215 | 215 | 0.08 | 0.09 | 2.23 | 1.01 | 1.52 | 0.5-2.5 |
| **26-Aug-12**  [14:55:47] | I39PW | 16:55:05 | 270 | 1980 | 285 | 282 | 0.68 | 0.02 | 1.40 | 1.11 | 2.44 | 0.6-2.5 |
| **12-Mar-12**  [06:40:44] | I39PW | 07:25:22 | 86 | 807 | 134 | 136 | 0.3 | 0.05 | 1.71 | 1.44 | 1.32 | 0.5-2 |
| I30JP | 09:58:59 | 140 | 3648 | 181 | 238 | 0.3 | 0.42 | 2.03 | 1.81 | 37.04 | 0.5-3 |
| **04-Feb-12**  [14:42:51] | I48TN | 15:33:22 | 95 | 929 | 249 | 248 | 0.43 | 0.07 | 1.43 | 1.38 | 1.08 | 0.6-5.5 |
| **15-Jan-12**  [12:26:20] | I55US | 14:39:53 | 207 | 2422 | 276 | 272 | 0.08 | 0.01 | 0.92 | 1.02 | 1.51 | 0.9-3 |
| **25-May-11**  [05:40:02] | I35NA | 08:05:51 | 444 | 2619 | 351 | 353 | 4.8 | 0.08 | 2.31 | 1.78 | 1.72 | 0.4-2 |
| **06-Apr-11**  [08:30:55] | I18DK | 09:24:54 | 593 | 1051 | 121 | 116 | 0.43 | 0.45 | 3.15 | 3.90 | 9.57 | 0.3-3 |
| **01-Mar-11**  [10:37:54] | I34MN | 11:16:27 | 186 | 658 | 345 | 315 | 0.13 | 0.10 | 2.48 | 2.77 | 2.47 | 0.3-1 |
| **21-Feb-11**  [05:07:03] | I31KZ | 07:45:50 | 562 | 2946 | 210 | 207 | 0.13 | 0.31 | 3.04 | 3.28 | 27.48 | 0.2-6 |
| **25-Dec-10**  [23:24:00] | I30JP | 00:59:24 | 560 | 1603 | 74 | 72 | 33 | 0.59 | 6.61 | 6.88 | 0.79 | 0.2-2 |
| I44RU | 00:58:16 | 544 | 1680 | 179 | 178 | 33 | 0.61 | 2.76 | 3.14 | 4.82 | 0.3-3 |
| I45RU | 01:33:35 | 610 | 2276 | 99 | 93 | 33 | 0.74 | 3.37 | 3.26 | 8.06 | 0.25-3 |
| I39PW | 03:39:50 | 649 | 4127 | 31 | 36 | 33 | 2.32 | 12.49 | 11.70 | 1.88 | 0.06-1 |
| I34MN | 03:28:44 | 769 | 4257 | 85 | 15 | 33 | 0.02 | 1.90 | 2.34 | 1.09 | 0.4-3 |
| I53US | 03:41:02 | 594 | 4572 | 256 | 256 | 33 | 2.02 | 8.35 | 8.19 | 35.92 | 0.1-3 |
| I56US | 05:46:23 | 309 | 6625 | 295 | 295 | 33 | 0.78 | 15.63 | 15.17 | 3.43 | 0.01-1.3 |
| I18DK | 05:40:26 | 1075 | 6758 | 318 | 308 | 33 | 0.49 | 11.32 | 11.38 | 7.04 | 0.07-2 |
| I10CA | 06:41:36 | 677 | 7837 | 307 | 308 | 33 | 0.52 | 9.88 | 9.75 | 3.43 | 0.1-1.5 |
| I55US | 11:33:45 | 737 | 12885 | 352 | 347 | 33 | 0.13 | 18.44 | 15.46 | 4.54 | 0.04-1 |
| I08BO | 13:48:06 | 212 | 14887 | 308 | 156 | 33 | 0.10 | 7.91 | 7.06 | 1.11 | 0.1-0.8 |
| **03-Sep-10**  [12:04:58] | I55US | 13:59:19 | 562 | 2005 | 326 | 339 | 3.8 | 0.42 | 7.54 | 7.73 | 7.54 | 0.1-6 |
| I05AU | 14:04:10 | 202 | 2059 | 182 | 184 | 3.8 | 0.07 | 1.86 | 1.88 | 1.49 | 0.5-2.5 |
| I04AU | 15:55:58 | 841 | 3642 | 153 | 142 | 3.8 | 0.12 | 13.43 | 13.11 | 4.75 | 0.05-0.1 |
| I07AU | 16:42:03 | 250 | 4668 | 171 | 166 | 3.8 | 0.08 | 11.60 | 9.10 | 1.22 | 0.03-0.15 |
| **8-Mar-10**  [22:02:07] | I10CA | 01:21:20 | 299 | 2041 | 172 | 246 | 0.85 | 0.01 | 0.81 | 1.10 | 3.22 | 0.7-3 |
| **28-Feb-10**  [22:24:50] | I26DE | 23:04:18 | 111 | 534 | 89 | 88 | 0.44 | 0.36 | 2.68 | 2.73 | 2.55 | 0.3-1.5 |
| I43RU | 23:38:58 | 559 | 1404 | 238 | 235 | 0.44 | 0.68 | 2.49 | 2.59 | 6.61 | 0.3-3 |
| I31KZ | 00:45:11 | 1139 | 2651 | 280 | 276 | 0.44 | 0.32 | 2.15 | 2.51 | 22.70 | 0.35-3.5 |
| I46RU | 02:29:27 | 833 | 4320 | 289 | 274 | 0.44 | 0.13 | 2.98 | 3.11 | 2.49 | 0.3-2 |
| **15-Jan-10**  [19:17:54] | I32KE | 20:35:00 | 488 | 1342 | 234 | 231 | 1.2 | 0.07 | 2.07 | 2.31 | 4.88 | 0.4-3.5 |
| I35NA | 20:40:38 | 596 | 1581 | 41 | 35 | 1.2 | 0.48 | 3.08 | 3.85 | 36.82 | 0.2-3.5 |
| I47ZA | 21:27:37 | 241 | 2267 | 5 | 2 | 1.2 | 0.06 | 1.76 | 1.93 | 2.61 | 0.4-2 |
| **21-Nov-09**  [20:53:00] | I35NA | 21:58:54 | 568 | 1249 | 107 | 107 | 18 | 0.48 | 3.47 | 3.98 | 27.22 | 0.2-8 |
| I49GB | 00:56:30 | 60 | 4312 | 79 | 76 | 18 | 3.17 | 12.02 | 10.24 | 1.70 | 0.05-1 |
| I17CI | 01:29:58 | 109 | 4892 | 132 | 132 | 18 | 0.01 | 1.35 | 1.37 | 1.33 | 0.6-1.5 |
| **08-Oct-09**  [02:57:00] | I39PW | 04:50:53 | 151 | 2024 | 230 | 274 | 33 | 1.12 | 6.23 | 6.40 | 0.48 | 0.08-1.5 |
| I07AU | 04:56:20 | 925 | 2296 | 318 | 317 | 33 | 1.13 | 3.18 | 3.25 | 2.73 | 0.4-6 |
| I04AU | 05:59:50 | 954 | 3408 | 8 | 9 | 33 | 0.20 | 3.60 | 2.66 | 9.26 | 0.3-6 |
| I30JP | 07:37:47 | 457 | 4851 | 209 | 211 | 33 | 0.11 | 1.79 | 1.68 | 2.19 | 0.5-1.5 |
| I05AU | 07:48:12 | 411 | 5030 | 320 | 317 | 33 | 0.31 | 3.88 | 3.53 | 2.50 | 0.2-2.5 |
| I22FR | 07:50:18 | 649 | 5362 | 285 | 286 | 33 | 0.14 | 4.06 | 3.79 | 1.66 | 0.1-2 |
| I45RU | 08:11:17 | 755 | 5500 | 195 | 197 | 33 | 1.18 | 10.46 | 9.87 | 5.85 | 0.05-2 |
| I44RU | 09:50:22 | 914 | 7254 | 222 | 222 | 33 | 0.62 | 6.58 | 7.55 | 20.65 | 0.1-1.5 |
| I55US | 10:58:30 | 475 | 8620 | 312 | 315 | 33 | 0.12 | 6.14 | 6.16 | 2.31 | 0.1-1 |
| I53US | 12:50:45 | 551 | 10503 | 270 | 270 | 33 | 0.43 | 11.78 | 12.60 | 7.00 | 0.05-1 |
| I18DK | 14:19:35 | 671 | 11816 | 350 | 338 | 33 | 0.48 | 11.50 | 11.54 | 3.24 | 0.08-1 |
| I56US | 15:04:50 | 645 | 12693 | 293 | 319 | 33 | 0.76 | 13.83 | 12.80 | 33.55 | 0.05-1.5 |
| **04-Sep-09**  [02:23:18] | I34MN | 17:06:08 | 484 | 653 | 153 | 86 | 2.3 | 0.10 | 7.50 | 7.45 | 1.23 | 0.08-1 |
| **23-Aug-09**  [21:17:19] | I27DE | 22:31:17 | 380 | 1092 | 85 | 85 | 0.75 | 0.13 | 2.44 | 3.15 | 13.33 | 0.35-3 |
| **10-Apr-09**  [18:42:45] | I47ZA | 20:22:29 | 87 | 1788 | 179 | 174 | 0.73 | 0.02 | 1.90 | 2.18 | 1.46 | 0.4-1.5 |
| **07-Feb-09**  [19:51:32] | I46RU | 20:41:53 | 562 | 994 | 293 | 296 | 3.5 | 0.29 | 1.93 | 2.37 | 56.58 | 0.4-3 |
| I34MN | 22:15:51 | 342 | 2641 | 305 | 250 | 3.5 | 0.38 | 3.32 | 2.56 | 11.62 | 0.1-2 |
| I45RU | 23:53:50 | 580 | 4446 | 311 | 296 | 3.5 | 0.06 | 2.38 | 2.07 | 3.27 | 0.4-1.5 |
| I18DK | 00:31:39 | 813 | 4817 | 32 | 23 | 3.5 | 0.09 | 3.59 | 2.81 | 4.24 | 0.3-2 |
| I44RU | 00:58:43 | 339 | 5246 | 311 | 304 | 3.5 | 0.05 | 2.11 | 1.52 | 1.35 | 0.5-2 |
| I53US | 01:46:14 | 397 | 6137 | 3352 | 336 | 3.5 | 0.31 | 6.90 | 7.06 | 3.54 | 0.1-2 |
| **21-Nov-08**  [00:26:44] | I56US | 01:13:57 | 159 | 740 | 41 | 42 | 0.41 | 0.28 | 3.73 | 3.66 | 1.40 | 0.1-1.66 |
| I10CA | 01:17:40 | 420 | 1009 | 294 | 291 | 0.41 | 1.57 | 3.95 | 3.66 | 48.24 | 0.1-2 |
| I18DK | 03:27:19 | 658 | 3177 | 235 | 225 | 0.41 | 0.47 | 4.56 | 5.46 | 15.83 | 0.15-3.8 |
| **07-Oct-08**  [02:45:45] | I32KE | 05:08:16 | 266 | 2532 | 347 | 347 | 1 | 0.03 | 3.31 | 4.18 | 2.54 | 0.2-0.8 |
| I31KZ | 06:22:36 | 556 | 4024 | 225 | 222 | 1 | 0.13 | 3.39 | 3.47 | 1.36 | 0.2-3 |
| **23-Jul-08**  [14:45:25] | I31KZ | 16:03:25 | 569 | 1530 | 145 | 146 | 0.36 | 0.16 | 3.12 | 2.45 | 8.84 | 0.2-5.8 |
| I46RU | 16:42:09 | 381 | 2130 | 224 | 227 | 0.36 | 0.05 | 2.45 | 3.01 | 2.60 | 0.3-0.85 |
| **08-Jul-08**  [15:55:30] | I53US | 18:25:22 | 298 | 2594 | 318 | 319 | 0.21 | 0.01 | 3.27 | 3.20 | 1.35 | 0.3-1.2 |
| **01-Jul-08**  [17:40:19] | I53US | 21:22:51 | 151 | 3737 | 130 | 141 | 0.12 | 0.03 | 1.69 | 1.40 | 3.62 | 0.4-3 |
| **27-Jun-08**  [02:01:23] | I49GB | 03:04:07 | 449 | 1240 | 335 | 339 | 0.49 | 0.41 | 2.74 | 2.12 | 4.73 | 0.3-1.5 |
| **17-Feb-08**  [12:19:16] | I18DK | 12:40:01 | 287 | 334 | 201 | 191 | 0.33 | 0.11 | 3.05 | 3.18 | 2.44 | 0.3-2.5 |
| **09-Jan-08**  [03:53:15] | I02AR | 05:03:59 | 564 | 1359 | 180 | 177 | 0.14 | 0.19 | 1.67 | 1.65 | 4.42 | 0.5-5 |
| **12-Oct-07**  [09:14:03] | I18DK | 10:42:15 | 217 | 1528 | 359 | 355 | 0.11 | 0.08 | 2.20 | 2.38 | 1.46 | 0.4-2 |
| I53US | 11:49:39 | 520 | 2815 | 357 | 358 | 0.11 | 0.23 | 4.89 | 4.48 | 11.61 | 0.1-3.5 |
| **22-Sep-07**  [17:57:12] | I02AR | 19:09:41 | 341 | 1379 | 288 | 296 | 0.65 | 1.57 | 2.51 | 3.06 | 36.95 | 0.3-5 |
| **18-Apr-07**  [12:44:23] | I55US | 13:27:05 | 373 | 754 | 160 | 156 | 0.33 | 1.43 | 6.89 | 6.83 | 69.60 | 0.05-9 |
| **17-Mar-07**  [06:48:35] | I17CI | 07:43:53 | 262 | 990 | 87 | 88 | 0.13 | 0.11 | 1.64 | 1.59 | 4.53 | 0.2-2 |
| **22-Jan-07**  [07:24:56] | I31KZ | 07:52:34 | 265 | 651 | 213 | 206 | 0.24 | 2.19 | 3.22 | 3.33 | 11.41 | 0.3-9 |
| I46RU | 09:28:05 | 514 | 2421 | 260 | 261 | 0.24 | 0.41 | 3.02 | 2.48 | 19.84 | 0.2-2 |
| **09-Dec-06**  [06:31:12] | I26DE | 09:09:11 | 251 | 2733 | 153 | 150 | 14 | 0.39 | 5.37 | 4.88 | 2.42 | 0.05-1 |
| I35NA | 11:15:33 | 1350 | 5129 | 11 | 133 | 14 | 0.16 | 5.49 | 4.89 | 1.80 | 0.2-1.5 |
| **14-Oct-06**  [18:10:49] | I53US | 20:22:29 | 661 | 2340 | 236 | 236 | 0.7 | 0.04 | 2.87 | 2.16 | 3.11 | 0.4-1.5 |
| **02-Sep-06**  [04:26:15] | I04AU | 06:34:36 | 761 | 2404 | 341 | 342 | 2.8 | 1.67 | 7.14 | 6.61 | 33.96 | 0.05-6 |
| I07AU | 07:06:08 | 433 | 2760 | 280 | 277 | 2.8 | 0.17 | 1.55 | 1.77 | 2.04 | 0.4-4 |
| I22FR | 10:20:04 | 256 | 6137 | 268 | 261 | 2.8 | 0.23 | 10.68 | 10.78 | 3.30 | 0.07-0.2 |
| **15-Jul-06**  [23:55:45] | I55US | 02:41:20 | 239 | 2660 | 184 | 188 | 0.26 | 0.07 | 2.86 | 2.88 | 3.49 | 0.3-3 |
| **07-Jun-06**  [00:06:28] | I26DE | 02:09:44 | 504 | 2313 | 9 | 8 | 0.19 | 0.03 | 2.95 | 2.38 | 3.50 | 0.2-2 |
| I31KZ | 02:46:15 | 429 | 2806 | 331 | 335 | 0.19 | 0.02 | 4.73 | 4.71 | 2.31 | 0.1-1.5 |
| **28-Jan-06**  [03:33:48] | I47ZA | 06:59:36 | 210 | 3637 | 144 | 144 | 1.8 | 0.02 | 1.54 | 1.37 | 1.09 | 0.5-1.5 |
| I33MG | 07:04:01 | 372 | 3721 | 170 | 171 | 1.8 | 0.09 | 2.16 | 2.24 | 2.07 | 0.5-2 |

Table S2. Summary of bolides infrasound signal measurements of 50 individual bolide events as detected from 88 infrasound stations from Ens et al. (2012), not included in Table S1. These measurements are strictly from Ens et al. (2012) except for two events September 3, 2004 and March 27, 2003 where we have independently repeated the inframeasure analysis.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date/**  **[Time]** | **Station** | **Arrival time (UT)** | **Duration**  **(s)** | **Range**  **(km)** | **Theo. Az**  **(deg)** | **Obs. Az**  **(deg)** | **Satellite Energy**  **(kT)** | **P2P Amp**  **(Pa)** | **Period @Max Amp**  **(s)** | **Period**  **@Max PSD**  **(s)** | **Bolide Integrated Energy**  **SNR** | **Band-pass**  **(Hz)** |
| **22-Jul-08**  [19:34:00] | IS09BR | 23:32:06 | 765 | 4384 | 261 | 248 | 0.25 | 0.12 | 6.69 | 7.25 | 2.29 | 0.08-0.65 |
| **07-Apr-08**  [01:02:28] | IS41PY | 1:35:41 | 248 | 618 | 191 | 192 | 0.08 | 0.17 | 1.69 | 2.38 | 4.99 | 0.31-9.8 |
| IS09BR | 3:00:34 | 413 | 2087 | 209 | 209 | 0.08 | 0.11 | 4.28 | 3.85 | 2.19 | 0.13-1.8 |
| **10-Mar-08**  [17:16:08] | IS56US | 19:38:11 | 62 | 2724 | 75 | 82 | 0.05 | 0.10 | 1.20 | 1.74 | 2.88 | 0.3-3.5 |
| **26-Dec-07**  [06:46:20] | IS05AU | 10:19:02 | 432 | 4066 | 140 | 131 | 0.4 | 0.11 | 4.32 | 4.63 | 0.95 | 0.2-0.7 |
| **07-Nov-07**  [22:31:27] | IS33MG | 1:20:26 | 219 | 3023 | 36 | 35 | 0.05 | 0.02 | 3.11 | 2.77 | 1.62 | 0.25-1.13 |
| **24-Oct-07**  [20:28:29] | IS52GB | 21:52:43 | 198 | 1497 | 38 | 31 | 0.02 | 0.08 | 3.13 | 3.72 | 1.05 | 0.2-1.8 |
| **22-Oct-07**  [20:10:30] | IS31KZ | 23:34:32 | 418 | 3711 | 313 | 305 | 0.04 | 0.05 | 2.51 | 2.08 | 1.99 | 0.32-1.6 |
| **28-May-07**  [20:46:39] | IS46RU | 22:15:15 | 192 | 1524 | 30 | 7 | 0.05 | 0.07 | 2.72 | 2.38 | 1.08 | 0.28-1.5 |
| IS31KZ | 23:11:19 | 390 | 2950 | 41 | 30 | 0.05 | 0.03 | 2.16 | 2.37 | 5.24 | 0.21-3 |
| **16-May-07**  [16:20:58] | IS39PW | 18:50:16 | 1863 | 2866 | 243 | 242 | 0.16 | 0.07 | 2.18 | 2.99 | 1.93 | 0.3-2.5 |
| **16-May-07**  [21:28:54] | IS26DE | 22:14:31 | 296 | 788 | 79 | 83 | 0.02 | 0.17 | 0.87 | 1.08 | 3.70 | 0.18-7.5 |
| **09-Feb-02**  [19:50:26] | IS07AU | 20:20:07 | 277 | 384 | 92 | 77 | 0.16 | 1.65 | 1.71 | 3.20 | 6.51 | 0.09-9.9 |
| **17-Jan-07**  [09:50:46] | IS35NA | 13:18:06 | 66 | 3768 | 77 | 80 | 1.36 | 0.11 | 3.11 | 3.30 | 0.94 | 0.2-2 |
| IS33MG | 10:57:45 | 183 | 1212 | 18 | 14 | 1.36 | 0.45 | 3.16 | 3.59 | 2.63 | 0.16-0.9 |
| IS32KE | 11:20:59 | 593 | 1757 | 118 | 121 | 1.36 | 0.64 | 2.74 | 3.62 | 6.24 | 0.17-8 |
| **06-Dec-06**  [07:51:07] | IS07AU | 9:19:05 | 40 | 1370 | 226 | 232 | 0.02 | 0.05 | 2.11 | 3.41 | 3.12 | 0.09-1.3 |
| IS04AU | 8:45:58 | 261 | 1036 | 54 | 48 | 0.02 | 0.14 | 2.17 | 2.59 | 5.79 | 0.2-8 |
| **1-Dec-06** [06:09:25] | IS47ZA | 7:48:59 | 199 | 1784 | 19 | 18 | 0.21 | 0.12 | 1.96 | 1.39 | 2.60 | 0.4-1.9 |
| IS35NA | 7:30:50 | 280 | 1540 | 68 | 65 | 0.21 | 0.17 | 1.71 | 2.93 | 2.44 | 0.44-1.9 |
| IS32KE | 7:34:03 | 513 | 1511 | 206 | 208 | 0.21 | 0.06 | 3.50 | 4.68 | 1.49 | 0.16-2.6 |
| **02-Oct-06**  [19:10:27] | IS33MG | 22:35:52 | 958 | 3725 | 10 | 11 | 0.25 | 0.12 | 3.27 | 3.51 | 3.94 | 0.08-1.4 |
| IS32KE | 21:31:54 | 582 | 2467 | 46 | 45 | 0.25 | 0.07 | 5.39 | 4.12 | 3.30 | 0.11-1.8 |
| **11-Sep-06**  [12:41:22] | IS53US | 13:27:13 | 398 | 841 | 243 | 237 | 0.09 | 0.18 | 1.79 | 2.17 | 15.15 | 0.16-4.5 |
| **17-Aug-06**  [10:43:34] | IS39PW | 14:25:06 | 485 | 4029 | 121 | 114 | 0.63 | 0.07 | 1.70 | 1.57 | 2.36 | 0.48-2.2 |
| IS22FR | 11:51:16 | 243 | 1221 | 357 | 353 | 0.63 | 0.26 | 3.22 | 2.73 | 1.70 | 0.3-4 |
| **15-Aug-06**  [10:52:24] | IS32KE | 12:16:43 | 708 | 1575 | 64 | 67 | 0.16 | 0.07 | 2.05 | 2.16 | 0.03 | 0.305-3 |
| **09-Aug-06**  [04:30:44] | IS33MG | 5:12:52 | 556 | 804 | 128 | 124 | 2.32 | 1.32 | 5.98 | 6.11 | 1.90 | 0.09-0.7 |
| IS32KE | 7:16:13 | 798 | 3037 | 144 | 147 | 2.32 | 0.20 | 5.12 | 4.58 | 5.63 | 0.04-2.3 |
| IS26DE | 12:47:43 | 595 | 8929 | 143 | 146 | 2.32 | 0.05 | 10.72 | 8.90 | 0.60 | 0.072-0.45 |
| **16-Jul-06**  [23:55:45] | IS55US | 2:41:43 | 116 | 2660 | 187 | 189 | 0.27 | 0.12 | 3.61 | 4.02 | 2.07 | 0.15-1 |
| **21-May-06**  [07:51:11] | IS50GB | 9:02:04 | 537 | 1283 | 251 | 251 | 0.6 | 0.39 | 3.96 | 3.05 | 2.04 | 0.3-4 |
| IS17CI | 10:35:47 | 3218 | 3055 | 228 | 228 | 0.6 | 0.20 | 4.21 | 8.45 | 5.87 | 0.07-2.5 |
| IS09BR | 10:18:27 | 69 | 2475 | 82 | 78 | 0.6 | 0.03 | 3.15 | 5.39 | 2.73 | 0.16-2.3 |
| **14-Mar-06**  [03:21:06] | IS08BO | 5:47:47 | 389 | 2664 | 9 | 11 | 0.3 | 0.09 | 3.74 | 4.93 | 7.74 | 0.18-0.4 |
| **06-Feb-06**  [01:57:37] | IS35NA | 5:39:16 | 674 | 3923 | 179 | 177 | 2.93 | 0.09 | 9.29 | 7.95 | 2.73 | 0.05-0.3 |
| **09-Nov-05**  [07:33:08] | IS22FR | 9:43:27 | 851 | 2291 | 240 | 237 | 0.66 | 0.09 | 9.81 | 8.07 | 1.85 | 0.1-0.9 |
| IS07AU | 9:07:59 | 319 | 1689 | 139 | 141 | 0.66 | 0.23 | 2.53 | 2.51 | 1.41 | 0.31-3.2 |
| IS05AU | 8:43:53 | 402 | 1291 | 354 | 352 | 0.66 | 0.09 | 2.73 | 2.41 | 3.26 | 0.29-1.3 |
| **26-Oct-05**  [21:30:47] | IS41PY | 23:44:51 | 728 | 2460 | 237 | 237 | 0.43 | 0.10 | 6.45 | 6.45 | 4.09 | 0.1-1.1 |
| IS14CL | 21:48:21 | 318 | 334 | 177 | 206 | 0.43 | 0.97 | 4.80 | 6.02 | 7.90 | 0.1-9.3 |
| IS08BO | 23:53:54 | 447 | 2532 | 207 | 205 | 0.43 | 0.16 | 4.27 | 3.86 | 3.17 | 0.11-1.2 |
| **04-Sep-05**  [23:04:36] | IS49GB | 0:38:42 | 297 | 1862 | 277 | 274 | 0.14 | 0.35 | 1.89 | 1.55 | 4.52 | 0.3-4 |
| IS09BR | 1:23:16 | 448 | 2514 | 144 | 140 | 0.14 | 0.12 | 2.25 | 2.02 | 2.90 | 0.28-3.5 |
| **15-Apr-05**  [06:54:59] | IS41PY | 9:02:14 | 594 | 2446 | 213 | 225 | 0.08 | 0.04 | 2.07 | 1.87 | 2.21 | 0.36-2.2 |
| **06-Mar-05**  [14:12:23] | IS35NA | 14:57:40 | 358 | 835 | 27 | 25 | 0.09 | 0.14 | 1.08 | 1.28 | 4.53 | 0.29-4.9 |
| IS32KE | 16:18:16 | 455 | 2148 | 234 | 244 | 0.09 | 0.06 | 3.00 | 2.69 | 2.80 | 0.21-0.7 |
| **01-Jan-05**  [03:44:09] | IS31KZ | 7:34:08 | 241 | 4191 | 260 | 254 | 0.94 | 0.12 | 3.38 | 3.76 | 2.13 | 0.2-1.8 |
| **29-Dec-04**  [07:11:45] | IS22FR | 9:34:35 | 586 | 2743 | 61 | 58 | 0.15 | 0.15 | 3.58 | 5.29 | 2.51 | 0.21-3.6 |
| **11-Dec-04**  [15:36:51] | IS34MN | 16:50:12 | 379 | 1437 | 190 | 182 | 0.09 | 0.20 | 3.06 | 3.10 | 4.74 | 0.218-5 |
| **05-Dec-04**  [17:14:11] | IS07AU | 19:18:22 | 684 | 2187 | 127 | 125 | 0.07 | 0.16 | 1.92 | 2.07 | 2.99 | 0.22-2.6 |
| IS05AU | 18:24:01 | 270 | 1382 | 23 | 35 | 0.07 | 0.08 | 2.77 | 2.82 | 1.70 | 0.31-4.5 |
| **07-Oct-04**  [13:14:43] | IS55US | 20:03:44 | 471 | 7189 | 263 | 270 | 18.42 | 0.25 | 11.43 | 14.12 | 4.17 | 0.05-0.6 |
| IS52GB | 15:15:33 | 857 | 2218 | 181 | 177 | 18.42 | 0.28 | 8.96 | 9.81 | 1.26 | 0.089-2 |
| IS26DE | 23:07:07 | 4230 | 10221 | 131 | 127 | 18.42 | 0.13 | 15.90 | 17.86 | 1.51 | 0.03-0.2 |
| IS10CA | 6:20:13 | 2374 | 17256 | 27 | 24 | 18.42 | 0.09 | 15.71 | 10.08 | 0.02 | 0.04-0.2 |
| **03-Sep-04**  [12:07:24] | IS27DE | 13:18:45 | 1150 | 1088 | 85 | 91 | 13 | 0.82 | 45.72 | 40.96 | 19.53 | 0.015-0.08 |
| IS55US | 15:54:02 | 1119 | 3716 | 201 | 213 | 13 | 0.91 | 20.66 | 21.85 | 43.79 | 0.04-3 |
| IS35NA | 17:18:04 | 1212 | 5394 | 180 | 173 | 13 | 0.21 | 13.14 | 14.50 | 1.96 | 0.02-3 |
| **11-Jun-04**  [10:51:17] | IS08BO | 12:17:42 | 311 | 1576 | 251 | 242 | 0.06 | 0.05 | 2.93 | 1.38 | 1.80 | 0.298-3 |
| **03-Jun-04**  [09:40:12] | IS57US | 11:13:47 | 307 | 1671 | 345 | 342 | 0.14 | 0.07 | 4.09 | 3.15 | 3.75 | 0.14-2.9 |
| IS56US | 9:59:13 | 161 | 378 | 267 | 264 | 0.14 | 0.05 | 2.97 | 2.73 | 3.53 | 0.2-2 |
| IS53US | 12:04:01 | 222 | 2417 | 130 | 143 | 0.14 | 0.03 | 1.13 | 1.97 | 3.16 | 0.45-2.7 |
| **22-Apr-04**  [21:19:55] | IS33MG | 22:18:00 | 59 | 930 | 65 | 66 | 0.37 | 0.10 | 2.95 | 3.41 | 2.95 | 0.3-3.14 |
| **17-Aug-03**  [13:16:07] | IS55US | 19:33:41 | 239 | 6664 | 226 | 237 | 1.62 | 0.04 | 3.93 | 5.69 | 1.64 | 0.18-1.5 |
| IS33MG | 15:35:40 | 206 | 2565 | 207 | 205 | 1.62 | 0.16 | 3.65 | 4.65 | 1.00 | 0.16-1.1 |
| **27-Mar-03**  [05:50:26] | IS10CA | 6:56:00 | 450 | 1143 | 136 | 151 | 0.15 | 0.14 | 2.00 | 2.21 | 7.95 | 0.3-3 |
| **10-Nov-02**  [22:13:54] | IS59US | 23:18:19 | 362 | 1142 | 252 | 250 | 1.17 | 4.13 | 5.12 | 6.61 | 123.79 | 0.015866-9.9 |
| **09-Oct-02**  [12:00:35] | IS59US | 14:49:31 | 635 | 3427 | 223 | 212 | 0.19 | 0.10 | 5.18 | 4.68 | 1.73 | 0.08-4 |
| **14-Aug-02**  [07:48:32] | SSG0 | 12:38:59 | 504 | 5056 | 198 | 207 | 0.27 | 0.06 | 3.78 | 4.76 | 1.70 | 0.1-2.2 |
| nSts | 12:34:10 | 381 | 4943 | 195 | 199 | 0.27 | 0.06 | 2.61 | 2.45 | 1.98 | 0.15-1.3 |
| IS59US | 11:51:53 | 574 | 4387 | 130 | 130 | 0.27 | 0.13 | 3.29 | 4.10 | 3.87 | 0.08-1.5 |
| **25-Jul-02**  [15:57:32] | IS33MG | 16:56:29 | 236 | 1078 | 183 | 178 | 0.69 | 0.25 | 4.08 | 4.76 | 3.56 | 0.17-3 |
| **13-Jun-02**  [15:29:38] | IS07AU | 17:45:05 | 293 | 2417 | 252 | 250 | 0.56 | 0.05 | 3.89 | 3.50 | 2.59 | 0.25-2.3 |
| **06-Jun-02**  [04:28:30] | IS26DE | 5:59:48 | 2081 | 1757 | 157 | 160 | 7.58 | 1.66 | 13.33 | 13.16 | 14.29 | 0.025-6.2 |
| **09-Mar-02**  [01:20:24] | PSDI | 6:20:20 | 372 | 5431 | 234 | 250 | 0.61 | 0.47 | 5.00 | 4.93 | 2.83 | 0.08-2.2 |
| nSts | 5:31:42 | 428 | 4583 | 232 | 241 | 0.61 | 0.22 | 4.48 | 4.43 | 1.82 | 0.15-4 |
| IS59US | 2:58:00 | 489 | 1689 | 147 | 146 | 0.61 | 0.36 | 8.51 | 10.24 | 3.92 | 0.052-5 |
| **23-Jul-01**  [22:19:00] | EC1 | 22:37:47 | 267 | 323 | 354 | 11 | 2.87 | 1.62 | 2.82 | 2.77 | 8.61 | 0.1-39 |
| **23-Apr-01**  [06:12:00] | SSG0 | 8:09:42 | 442 | 2039 | 248 | 252 | 8.97 | 1.10 | 4.11 | 5.12 | 27.72 | 0.05-7.5 |
| NSV0 | 7:53:05 | 454 | 1752 | 235 | 237 | 8.97 | 6.23 | 4.67 | 5.18 | 20.68 | 0.05-5 |
| nSts | 7:55:25 | 863 | 1835 | 245 | 241 | 8.97 | 1.19 | 3.77 | 8.62 | 22.49 | 0.03-6.5 |
| IS59US | 8:21:55 | 779 | 2526 | 62 | 61 | 8.97 | 0.55 | 4.96 | 4.22 | 7.56 | 0.02-9.3 |
| IS57US | 7:49:04 | 400 | 1670 | 254 | 255 | 8.97 | 19.07 | 4.27 | 4.14 | 25.45 | 0.03-9.3 |
| IS26DE | 16:22:12 | 781 | 10810 | 331 | 324 | 8.97 | 0.09 | 7.50 | 6.83 | 1.98 | 0.07-0.8 |
| DSLI | 8:40:06 | 934 | 2627 | 259 | 261 | 8.97 | 0.26 | 4.01 | 4.46 | 2.59 | 0.1-2 |
| **25-Aug-00**  [01:12:25] | DSLI | 3:25:16 | 809 | 2382 | 179 | 185 | 3.15 | 0.07 | 6.77 | 5.61 | 9.74 | 0.04-2.5 |
| **19-Jul-00**  [17:40:25] | WSRA | 21:36:46 | 208 | 4231 | 266 | 262 | 0.37 | 0.38 | 3.51 | 3.10 | 0.16 | 0.18-1.5 |

S1. Blast radius plot for the Park Forest meteorite dropping fireball of March 23, 2004.

Macintosh HD:Users:Caroline:Desktop:meteoroids2016paper:figure:antRo.eps