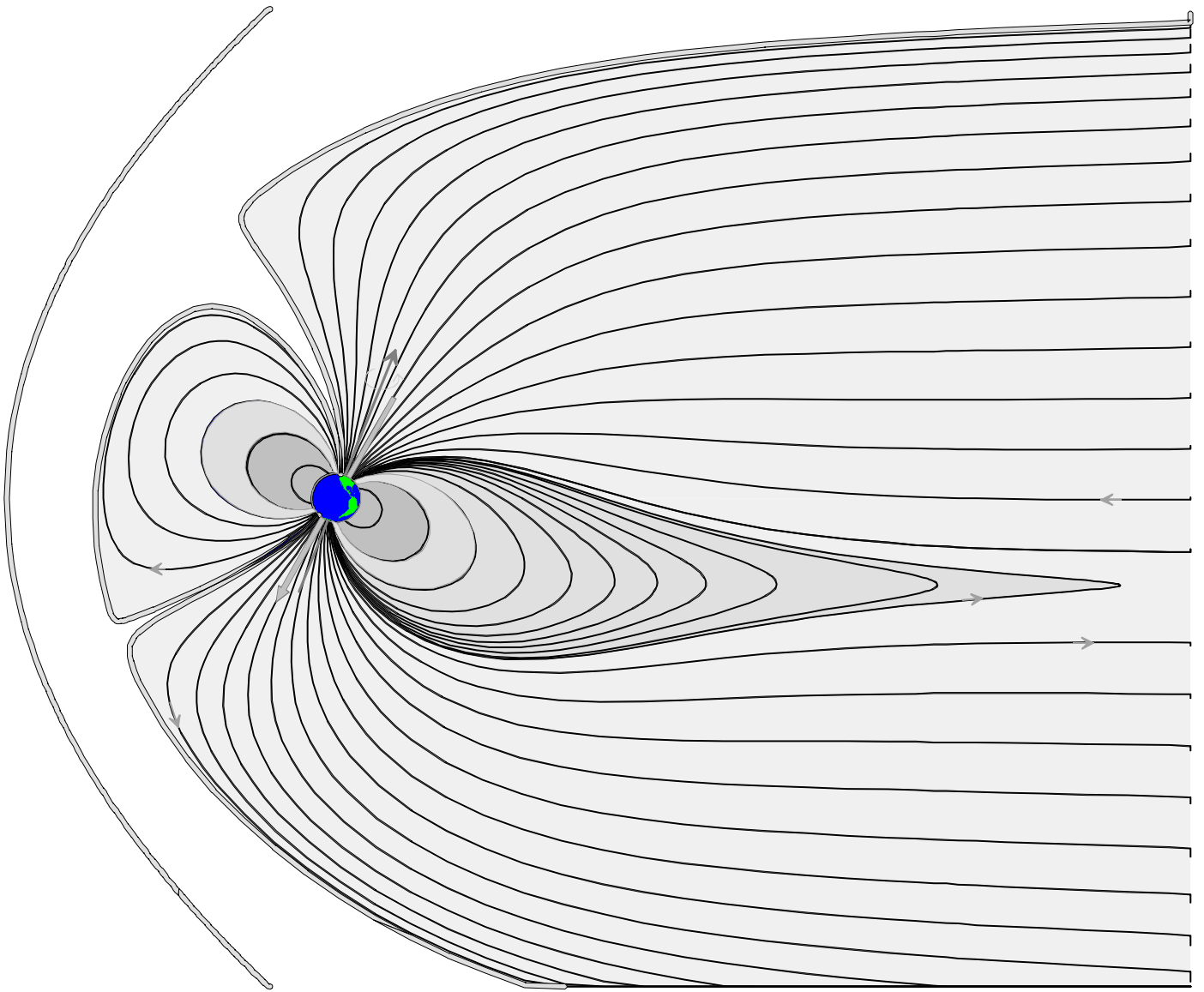
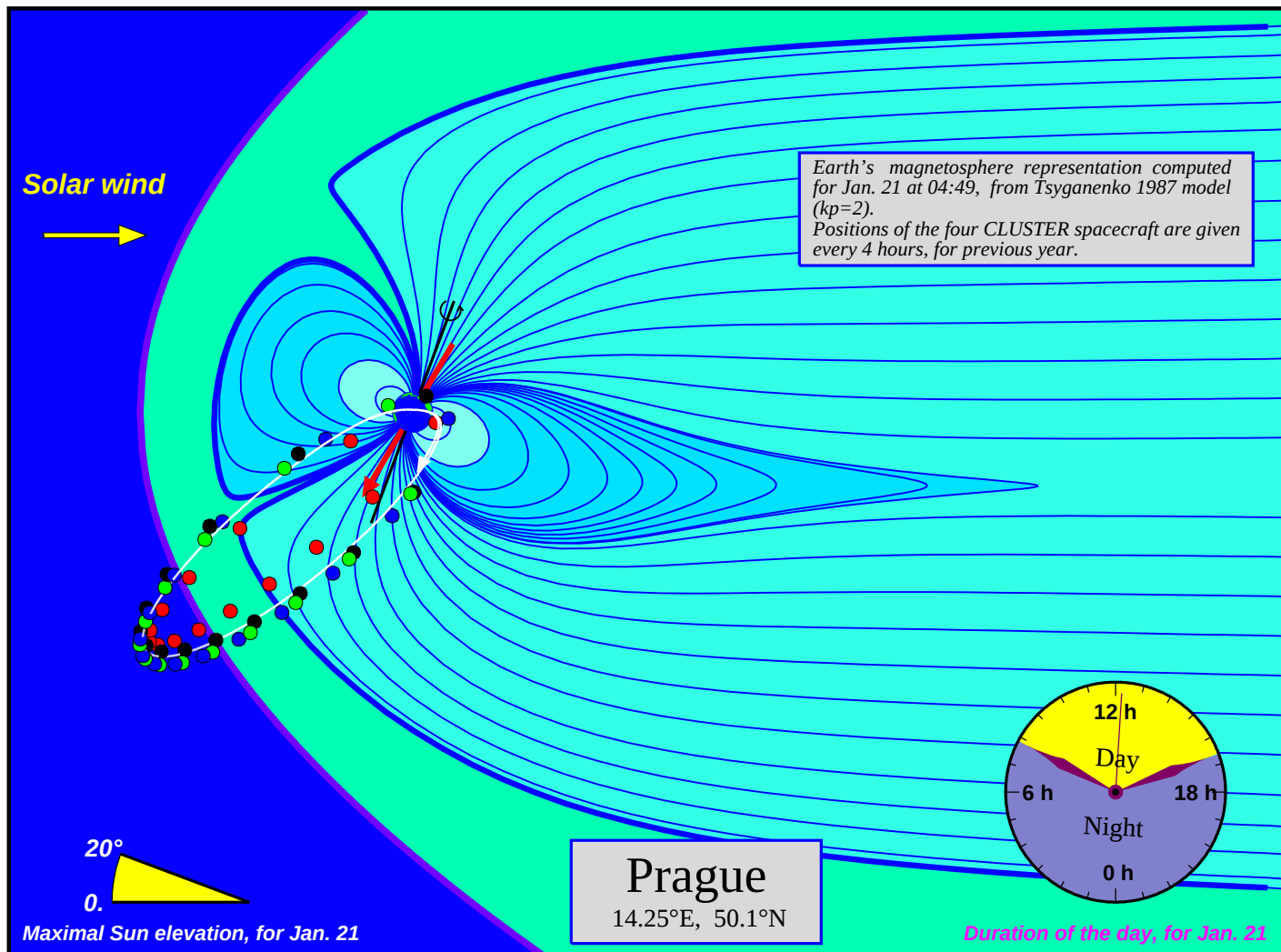




*Here is the classical magnetospheric calendar 2012,
available for any city across the world,
English or French version*

*Happy new year for everybody
Patrick*



January 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

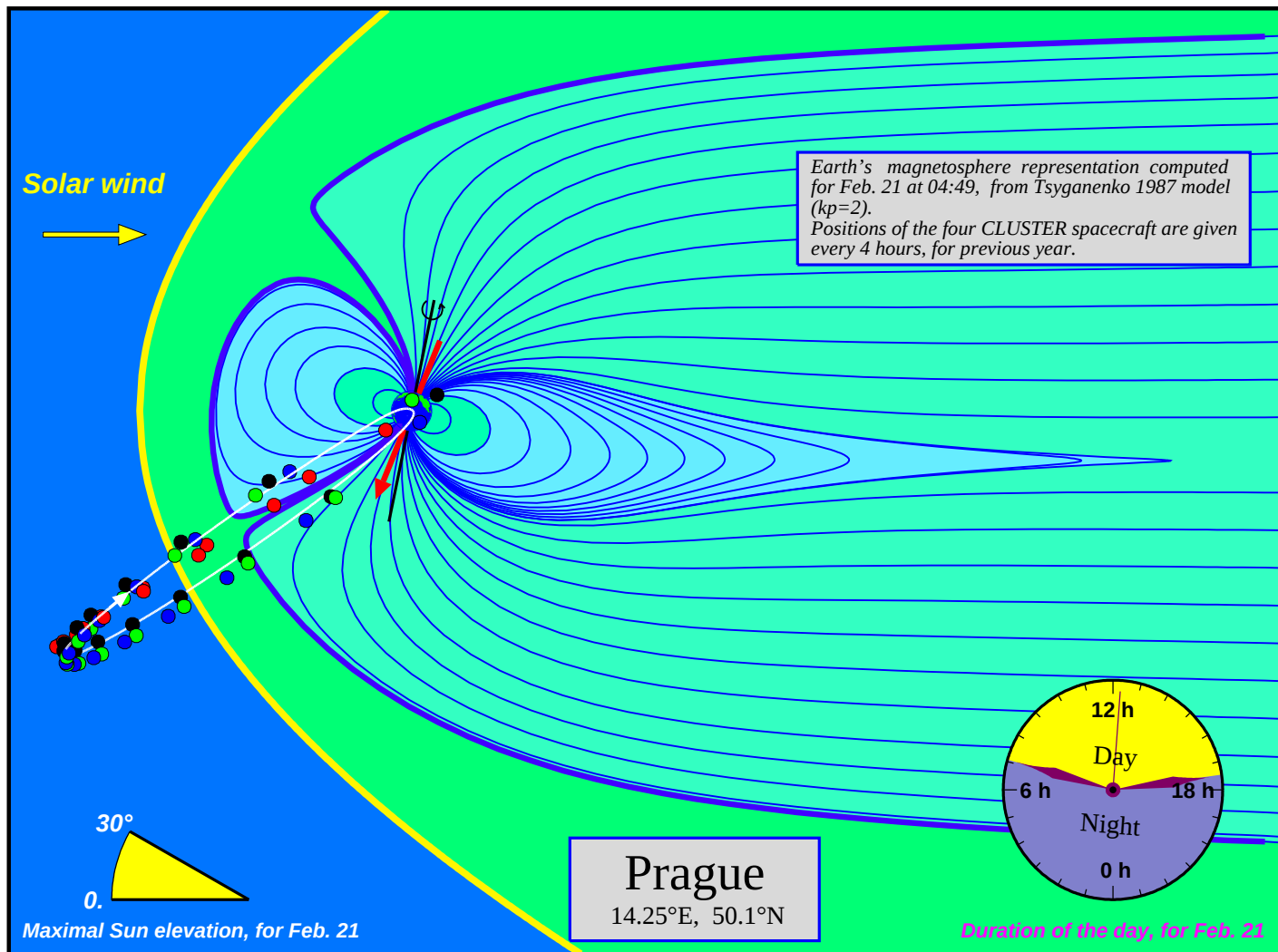
Thursday

Friday

Saturday

Sunday

							1 1 - 364 08:02 - 16:11 8:08 +1 m. 17°
1	2 2 - 364 08:02 - 16:12 8:09 +1 m. 18°	3 3 - 363 08:02 - 16:13 8:10 +1 m. 18°	4 4 - 362 08:02 - 16:14 8:12 +2 m. 18°	5 5 - 361 08:02 - 16:15 8:13 +1 m. 18°	6 6 - 360 08:01 - 16:16 8:15 +2 m. 18°	7 7 - 359 08:01 - 16:18 8:16 +1 m. 18°	8 8 - 358 08:01 - 16:19 8:18 +2 m. 18°
2	9 9 - 357 08:00 - 16:20 8:19 +1 m. 18°	10 10 - 356 08:00 - 16:21 8:21 +2 m. 18°	11 11 - 355 07:59 - 16:23 8:23 +2 m. 19°	12 12 - 354 07:59 - 16:24 8:25 +2 m. 19°	13 13 - 353 07:58 - 16:26 8:27 +2 m. 19°	14 14 - 352 07:57 - 16:27 8:29 +2 m. 19°	15 15 - 351 07:57 - 16:28 8:31 +2 m. 19°
3	16 16 - 350 07:56 - 16:30 8:34 +3 m. 19°	17 17 - 349 07:55 - 16:31 8:36 +2 m. 20°	18 18 - 348 07:54 - 16:33 8:38 +2 m. 20°	19 19 - 347 07:53 - 16:34 8:41 +3 m. 20°	20 20 - 346 07:52 - 16:36 8:43 +2 m. 20°	21 21 - 345 07:51 - 16:38 8:46 +3 m. 20°	22 22 - 344 07:50 - 16:39 8:48 +2 m. 21°
4	23 23 - 343 07:49 - 16:41 8:51 +3 m. 21°	24 24 - 342 07:48 - 16:42 8:54 +3 m. 21°	25 25 - 341 07:47 - 16:44 8:57 +3 m. 21°	26 26 - 340 07:46 - 16:46 8:59 +2 m. 22°	27 27 - 339 07:45 - 16:47 9:02 +3 m. 22°	28 28 - 338 07:43 - 16:49 9:05 +3 m. 22°	29 29 - 337 07:42 - 16:51 9:08 +3 m. 22°
5	30 30 - 336 07:41 - 16:53 9:11 +3 m. 23°	31 31 - 335 07:39 - 16:54 9:14 +3 m. 23°	1 32 - 334 07:38 - 16:56 9:17 +3 m. 23°	2 33 - 333 07:37 - 16:58 9:21 +4 m. 24°	3 34 - 332 07:35 - 16:59 9:24 +3 m. 24°	4 35 - 331 07:34 - 17:01 9:27 +3 m. 24°	5 36 - 330 07:32 - 17:03 9:30 +3 m. 24°

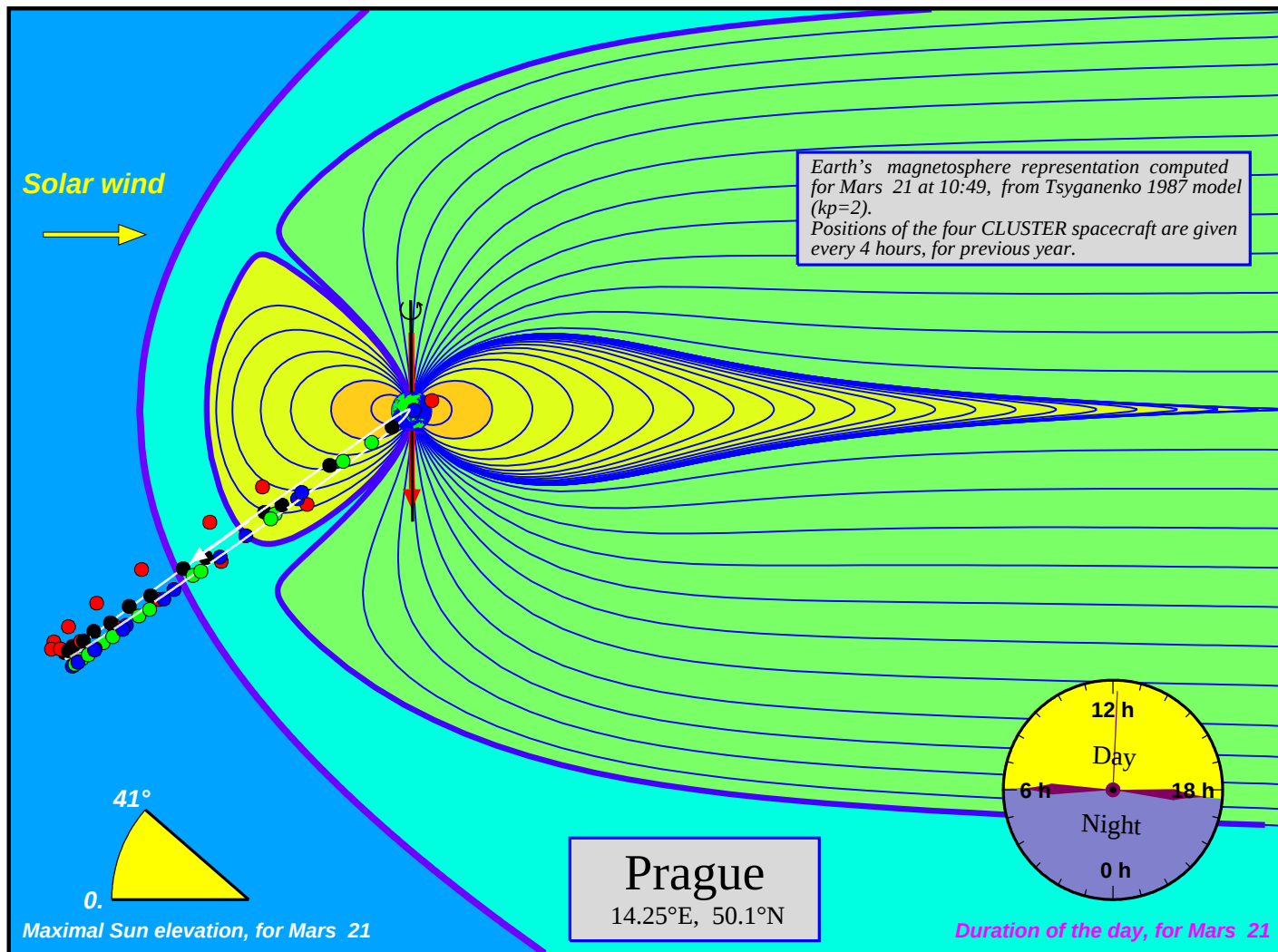


February 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5	30 30 - 336 07:41 - 16:53 9:11 +3 m. 23°	31 31 - 335 07:39 - 16:54 9:14 +3 m. 23°	1 32 - 334 07:38 - 16:56 9:17 +3 m. 23°	2 33 - 333 07:37 - 16:58 9:21 +4 m. 24°	3 34 - 332 07:35 - 16:59 9:24 +3 m. 24°	4 35 - 331 07:34 - 17:01 9:27 +3 m. 24°	5 36 - 330 07:32 - 17:03 9:30 +3 m. 24°
6	6 37 - 329 07:30 - 17:05 9:34 +4 m. 25°	7 38 - 328 07:29 - 17:06 9:37 +3 m. 25°	8 39 - 327 07:27 - 17:08 9:40 +3 m. 25°	9 40 - 326 07:26 - 17:10 9:44 +4 m. 26°	10 41 - 325 07:24 - 17:11 9:47 +3 m. 26°	11 42 - 324 07:22 - 17:13 9:51 +4 m. 26°	12 43 - 323 07:21 - 17:15 9:54 +3 m. 27°
7	13 44 - 322 07:19 - 17:17 9:58 +4 m. 27°	14 45 - 321 07:17 - 17:18 10:01 +3 m. 27°	15 46 - 320 07:15 - 17:20 10:05 +4 m. 28°	16 47 - 319 07:13 - 17:22 10:09 +4 m. 28°	17 48 - 318 07:12 - 17:24 10:12 +3 m. 28°	18 49 - 317 07:10 - 17:25 10:16 +4 m. 29°	19 50 - 316 07:08 - 17:27 10:19 +3 m. 29°
8	20 51 - 315 07:06 - 17:29 10:23 +4 m. 29°	21 52 - 314 07:04 - 17:30 10:27 +4 m. 30°	22 53 - 313 07:02 - 17:32 10:30 +3 m. 30°	23 54 - 312 07:00 - 17:34 10:34 +4 m. 31°	24 55 - 311 06:58 - 17:36 10:38 +4 m. 31°	25 56 - 310 06:56 - 17:37 10:41 +3 m. 31°	26 57 - 309 06:54 - 17:39 10:45 +4 m. 32°
9	27 58 - 308 06:52 - 17:41 10:49 +4 m. 32°	28 59 - 307 06:50 - 17:42 10:52 +3 m. 32°	29 60 - 306 06:48 - 17:44 10:56 +4 m. 33°	1 61 - 305 06:46 - 17:46 11:00 +4 m. 33°	2 62 - 304 06:44 - 17:47 11:04 +4 m. 34°	3 63 - 303 06:42 - 17:49 11:07 +3 m. 34°	4 64 - 302 06:40 - 17:51 11:11 +4 m. 34°



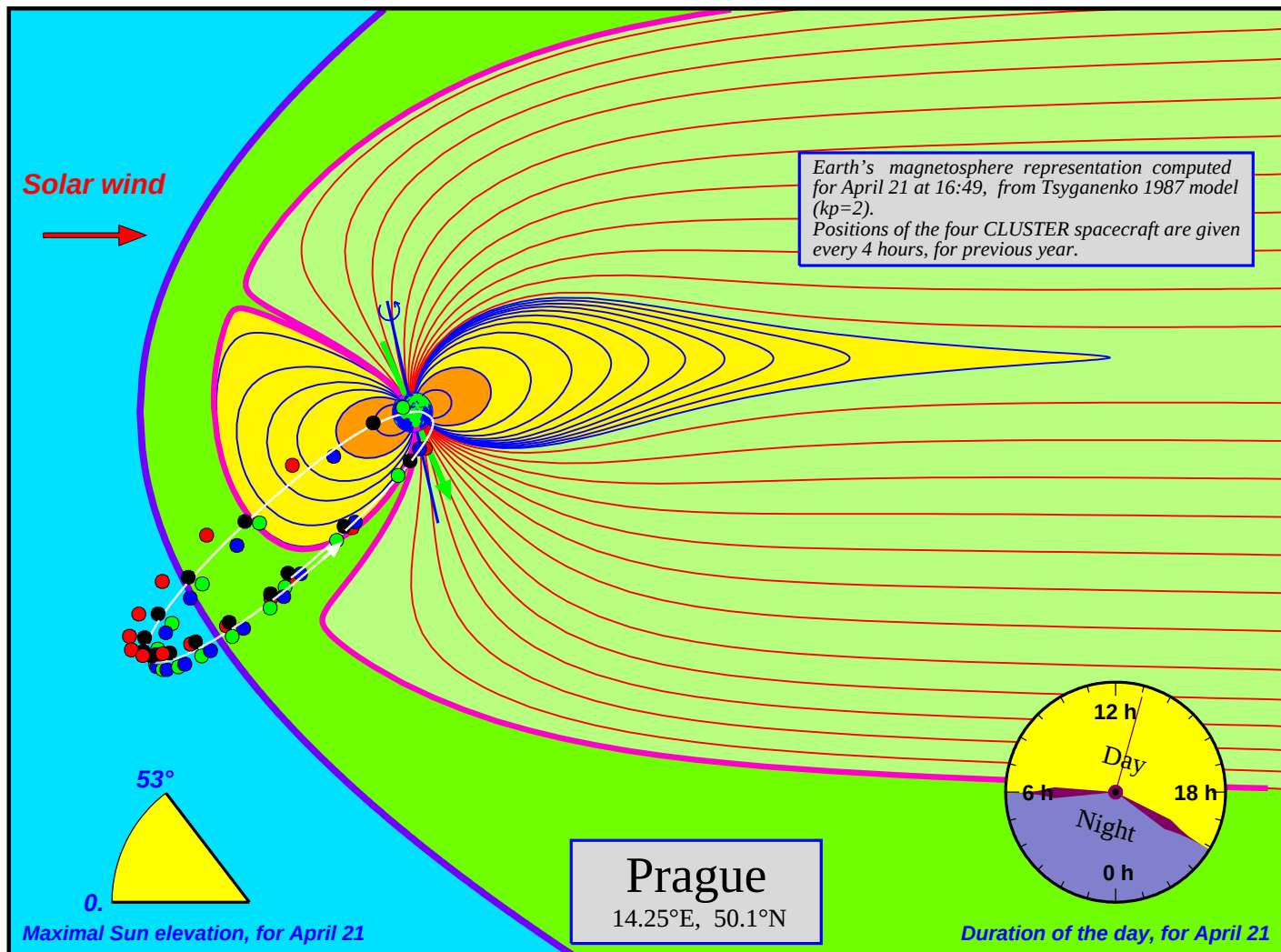
Mars 2012

heure d'été
le 25 à 02:00

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
9	27 58 - 308 06:52 - 17:41 10:49 +4 m. 32°	28 59 - 307 06:50 - 17:42 10:52 +3 m. 32°	29 60 - 306 06:48 - 17:44 10:56 +4 m. 33°	1 61 - 305 06:46 - 17:46 11:00 +4 m. 33°	2 62 - 304 06:44 - 17:47 11:04 +4 m. 34°	3 63 - 303 06:42 - 17:49 11:07 +3 m. 34°	4 64 - 302 06:40 - 17:51 11:11 +4 m. 34°
10	5 65 - 301 06:38 - 17:52 11:15 +4 m. 35°	6 66 - 300 06:36 - 17:54 11:18 +3 m. 35°	7 67 - 299 06:33 - 17:56 11:22 +4 m. 35°	8 68 - 298 06:31 - 17:57 11:26 +4 m. 36°	9 69 - 297 06:29 - 17:59 11:30 +4 m. 36°	10 70 - 296 06:27 - 18:00 11:33 +3 m. 37°	11 71 - 295 06:25 - 18:02 11:37 +4 m. 37°
11	12 72 - 294 06:23 - 18:04 11:41 +4 m. 37°	13 73 - 293 06:21 - 18:05 11:45 +4 m. 38°	14 74 - 292 06:18 - 18:07 11:49 +4 m. 38°	15 75 - 291 06:16 - 18:09 11:52 +3 m. 39°	16 76 - 290 06:14 - 18:10 11:56 +4 m. 39°	17 77 - 289 06:12 - 18:12 12:00 +4 m. 39°	18 78 - 288 06:10 - 18:13 12:04 +4 m. 40°
12	19 79 - 287 06:08 - 18:15 12:08 +4 m. 40°	20 80 - 286 06:05 - 18:17 12:11 +3 m. 41°	21 81 - 285 06:03 - 18:18 12:15 +4 m. 41°	22 82 - 284 06:01 - 18:20 12:19 +4 m. 41°	23 83 - 283 05:59 - 18:21 12:23 +4 m. 42°	24 84 - 282 05:57 - 18:23 12:26 +3 m. 42°	25 85 - 281 06:54 - 19:25 12:30 +4 m. 43°
13	26 86 - 280 06:52 - 19:26 12:34 +4 m. 43°	27 87 - 279 06:50 - 19:28 12:38 +4 m. 43°	28 88 - 278 06:48 - 19:29 12:41 +3 m. 44°	29 89 - 277 06:46 - 19:31 12:45 +4 m. 44°	30 90 - 276 06:44 - 19:32 12:49 +4 m. 44°	31 91 - 275 06:41 - 19:34 12:53 +4 m. 45°	1 92 - 274 06:39 - 19:36 12:56 +3 m. 45°

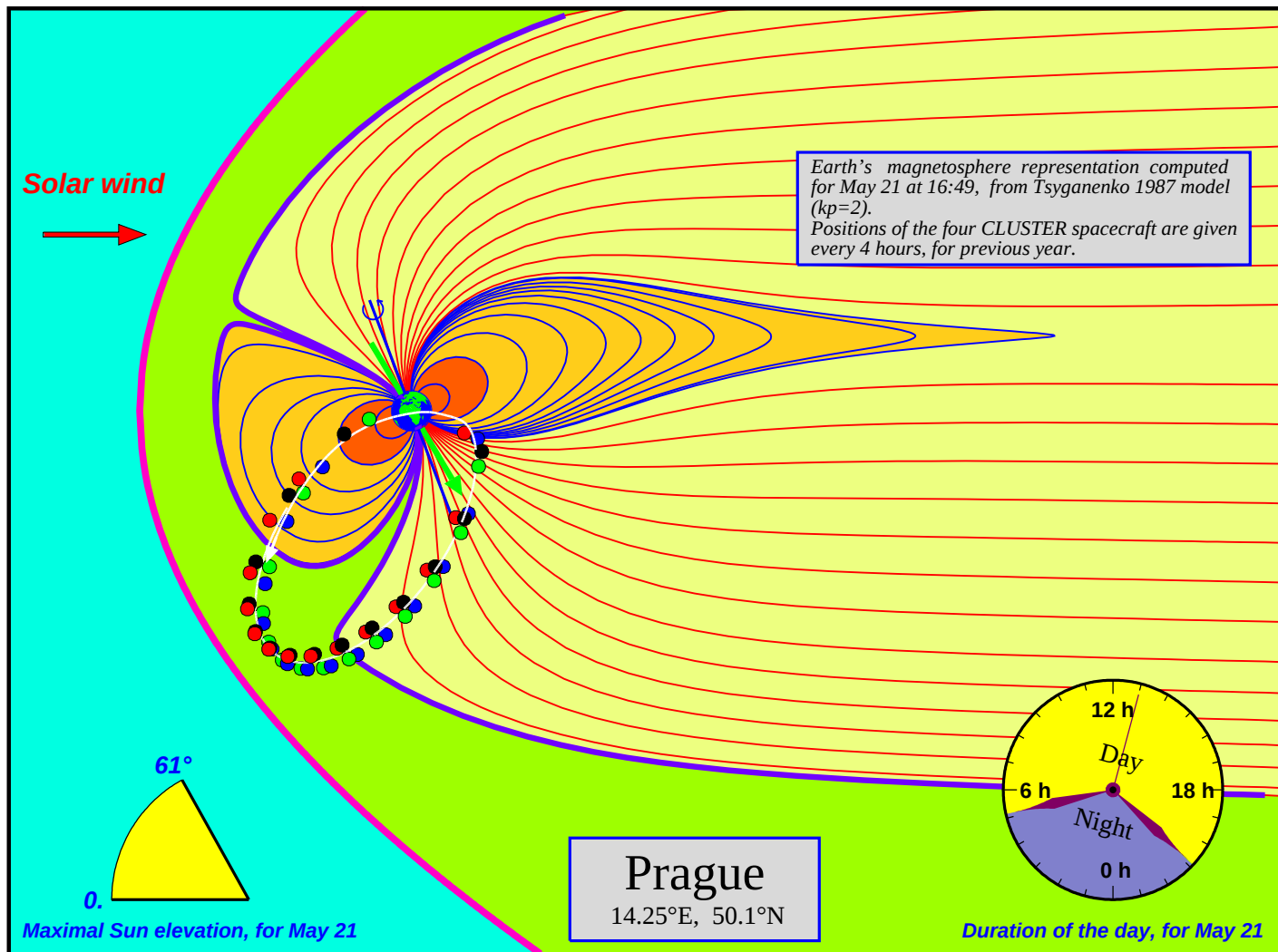


April 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
13	26 86 - 280 06:52 - 19:26 12:34 +4 m. 43°	27 87 - 279 06:50 - 19:28 12:38 +4 m. 43°	28 88 - 278 06:48 - 19:29 12:41 +3 m. 44°	29 89 - 277 06:46 - 19:31 12:45 +4 m. 44°	30 90 - 276 06:44 - 19:32 12:49 +4 m. 44°	31 91 - 275 06:41 - 19:34 12:53 +4 m. 45°	1 92 - 274 06:39 - 19:36 12:56 +3 m. 45°
14	2 93 - 273 06:37 - 19:37 13:00 +4 m. 46°	3 94 - 272 06:35 - 19:39 13:04 +4 m. 46°	4 95 - 271 06:33 - 19:40 13:08 +4 m. 46°	5 96 - 270 06:31 - 19:42 13:11 +3 m. 47°	6 97 - 269 06:28 - 19:43 13:15 +4 m. 47°	7 98 - 268 06:26 - 19:45 13:19 +4 m. 48°	8 99 - 267 06:24 - 19:47 13:22 +3 m. 48°
15	9 100 - 266 06:22 - 19:48 13:26 +4 m. 48°	10 101 - 265 06:20 - 19:50 13:30 +4 m. 49°	11 102 - 264 06:18 - 19:51 13:34 +4 m. 49°	12 103 - 263 06:16 - 19:53 13:37 +3 m. 49°	13 104 - 262 06:14 - 19:55 13:41 +4 m. 50°	14 105 - 261 06:12 - 19:56 13:45 +4 m. 50°	15 106 - 260 06:10 - 19:58 13:48 +3 m. 50°
16	16 107 - 259 06:08 - 19:59 13:52 +4 m. 51°	17 108 - 258 06:06 - 20:01 13:55 +3 m. 51°	18 109 - 257 06:04 - 20:02 13:59 +4 m. 52°	19 110 - 256 06:02 - 20:04 14:02 +3 m. 52°	20 111 - 255 06:00 - 20:06 14:06 +4 m. 52°	21 112 - 254 05:58 - 20:07 14:10 +4 m. 53°	22 113 - 253 05:56 - 20:09 14:13 +3 m. 53°
17	23 114 - 252 05:54 - 20:10 14:17 +4 m. 53°	24 115 - 251 05:52 - 20:12 14:20 +3 m. 54°	25 116 - 250 05:50 - 20:13 14:24 +4 m. 54°	26 117 - 249 05:48 - 20:15 14:27 +3 m. 54°	27 118 - 248 05:46 - 20:16 14:30 +3 m. 55°	28 119 - 247 05:44 - 20:18 14:34 +4 m. 55°	29 120 - 246 05:42 - 20:20 14:37 +3 m. 55°
18	30 121 - 245 05:41 - 20:21 14:41 +4 m. 55°	1 122 - 244 05:39 - 20:23 14:44 +3 m. 56°	2 123 - 243 05:37 - 20:24 14:47 +3 m. 56°	3 124 - 242 05:35 - 20:26 14:51 +4 m. 56°	4 125 - 241 05:34 - 20:27 14:54 +3 m. 57°	5 126 - 240 05:32 - 20:29 14:57 +3 m. 57°	6 127 - 239 05:30 - 20:30 15:00 +3 m. 57°

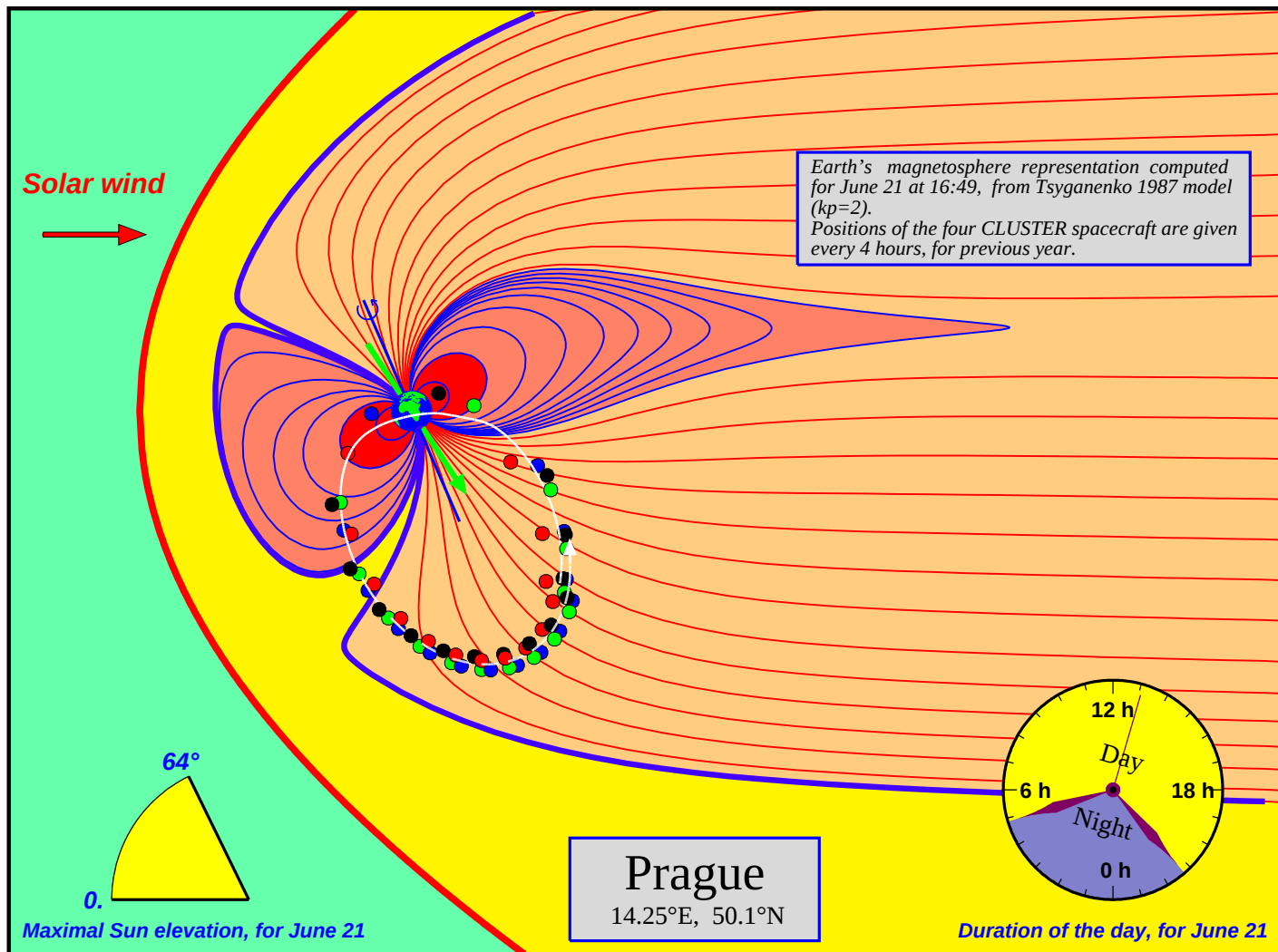


May 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
18	30 121 - 245 05:41 - 20:21 14:41 +4 m. 55°	1 122 - 244 05:39 - 20:23 14:44 +3 m. 56°	2 123 - 243 05:37 - 20:24 14:47 +3 m. 56°	3 124 - 242 05:35 - 20:26 14:51 +4 m. 56°	4 125 - 241 05:34 - 20:27 14:54 +3 m. 57°	5 126 - 240 05:32 - 20:29 14:57 +3 m. 57°	6 127 - 239 05:30 - 20:30 15:00 +3 m. 57°
19	7 128 - 238 05:29 - 20:32 15:03 +3 m. 57°	8 129 - 237 05:27 - 20:33 15:06 +3 m. 58°	9 130 - 236 05:25 - 20:35 15:09 +3 m. 58°	10 131 - 235 05:24 - 20:36 15:12 +3 m. 58°	11 132 - 234 05:22 - 20:38 15:16 +4 m. 59°	12 133 - 233 05:21 - 20:39 15:18 +2 m. 59°	13 134 - 232 05:19 - 20:41 15:21 +3 m. 59°
20	14 135 - 231 05:18 - 20:42 15:24 +3 m. 59°	15 136 - 230 05:17 - 20:43 15:27 +3 m. 59°	16 137 - 229 05:15 - 20:45 15:30 +3 m. 60°	17 138 - 228 05:14 - 20:46 15:33 +3 m. 60°	18 139 - 227 05:13 - 20:48 15:35 +2 m. 60°	19 140 - 226 05:11 - 20:49 15:38 +3 m. 60°	20 141 - 225 05:10 - 20:50 15:40 +2 m. 61°
21	21 142 - 224 05:09 - 20:52 15:43 +3 m. 61°	22 143 - 223 05:08 - 20:53 15:45 +2 m. 61°	23 144 - 222 05:07 - 20:54 15:48 +3 m. 61°	24 145 - 221 05:05 - 20:55 15:50 +2 m. 61°	25 146 - 220 05:04 - 20:57 15:52 +2 m. 62°	26 147 - 219 05:03 - 20:58 15:54 +2 m. 62°	27 148 - 218 05:02 - 20:59 15:57 +3 m. 62°
22	28 149 - 217 05:02 - 21:00 15:59 +2 m. 62°	29 150 - 216 05:01 - 21:01 16:01 +2 m. 62°	30 151 - 215 05:00 - 21:02 16:02 +1 m. 62°	31 152 - 214 04:59 - 21:03 16:04 +2 m. 62°	1 153 - 213 04:58 - 21:04 16:06 +2 m. 63°	2 154 - 212 04:58 - 21:05 16:08 +2 m. 63°	3 155 - 211 04:57 - 21:06 16:09 +1 m. 63°

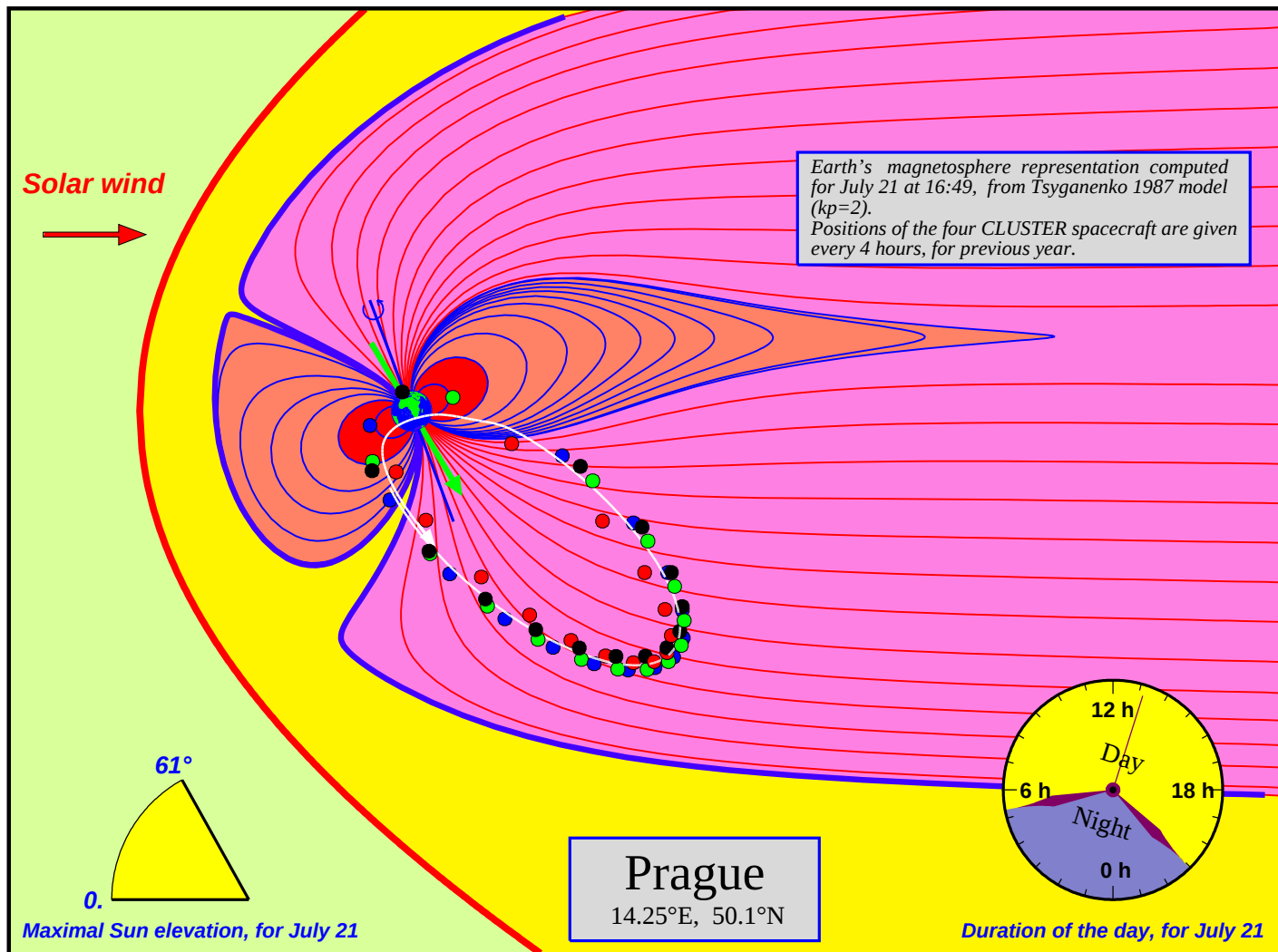


June 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
22	28 149 - 217 05:02 - 21:00 15:59 +2 m. 62°	29 150 - 216 05:01 - 21:01 16:01 +2 m. 62°	30 151 - 215 05:00 - 21:02 16:02 +1 m. 62°	31 152 - 214 04:59 - 21:03 16:04 +2 m. 62°	1 153 - 213 04:58 - 21:04 16:06 +2 m. 63°	2 154 - 212 04:58 - 21:05 16:08 +2 m. 63°	3 155 - 211 04:57 - 21:06 16:09 +1 m. 63°
23	4 156 - 210 04:56 - 21:07 16:11 +2 m. 63°	5 157 - 209 04:56 - 21:08 16:12 +1 m. 63°	6 158 - 208 04:55 - 21:09 16:14 +2 m. 63°	7 159 - 207 04:55 - 21:10 16:15 +1 m. 63°	8 160 - 206 04:54 - 21:11 16:16 +1 m. 63°	9 161 - 205 04:54 - 21:11 16:17 +1 m. 63°	10 162 - 204 04:54 - 21:12 16:18 +1 m. 64°
24	11 163 - 203 04:53 - 21:13 16:19 +1 m. 64°	12 164 - 202 04:53 - 21:13 16:20 +1 m. 64°	13 165 - 201 04:53 - 21:14 16:21 +1 m. 64°	14 166 - 200 04:53 - 21:14 16:21 +0 m. 64°	15 167 - 199 04:53 - 21:15 16:22 +1 m. 64°	16 168 - 198 04:53 - 21:15 16:23 +1 m. 64°	17 169 - 197 04:53 - 21:16 16:23 +0 m. 64°
25	18 170 - 196 04:53 - 21:16 16:23 +0 m. 64°	19 171 - 195 04:53 - 21:16 16:23 +0 m. 64°	20 172 - 194 04:53 - 21:16 16:23 +0 m. 64°	21 173 - 193 04:53 - 21:17 16:23 +0 m. 64°	22 174 - 192 04:54 - 21:17 16:23 +0 m. 64°	23 175 - 191 04:54 - 21:17 16:23 +0 m. 64°	24 176 - 190 04:54 - 21:17 16:23 +0 m. 64°
26	25 177 - 189 04:55 - 21:17 16:23 +0 m. 64°	26 178 - 188 04:55 - 21:17 16:22 -1 m. 64°	27 179 - 187 04:56 - 21:17 16:21 -1 m. 64°	28 180 - 186 04:56 - 21:17 16:21 +0 m. 64°	29 181 - 185 04:57 - 21:17 16:20 -1 m. 64°	30 182 - 184 04:57 - 21:16 16:19 -1 m. 64°	1 183 - 183 04:58 - 21:16 16:18 -1 m. 64°

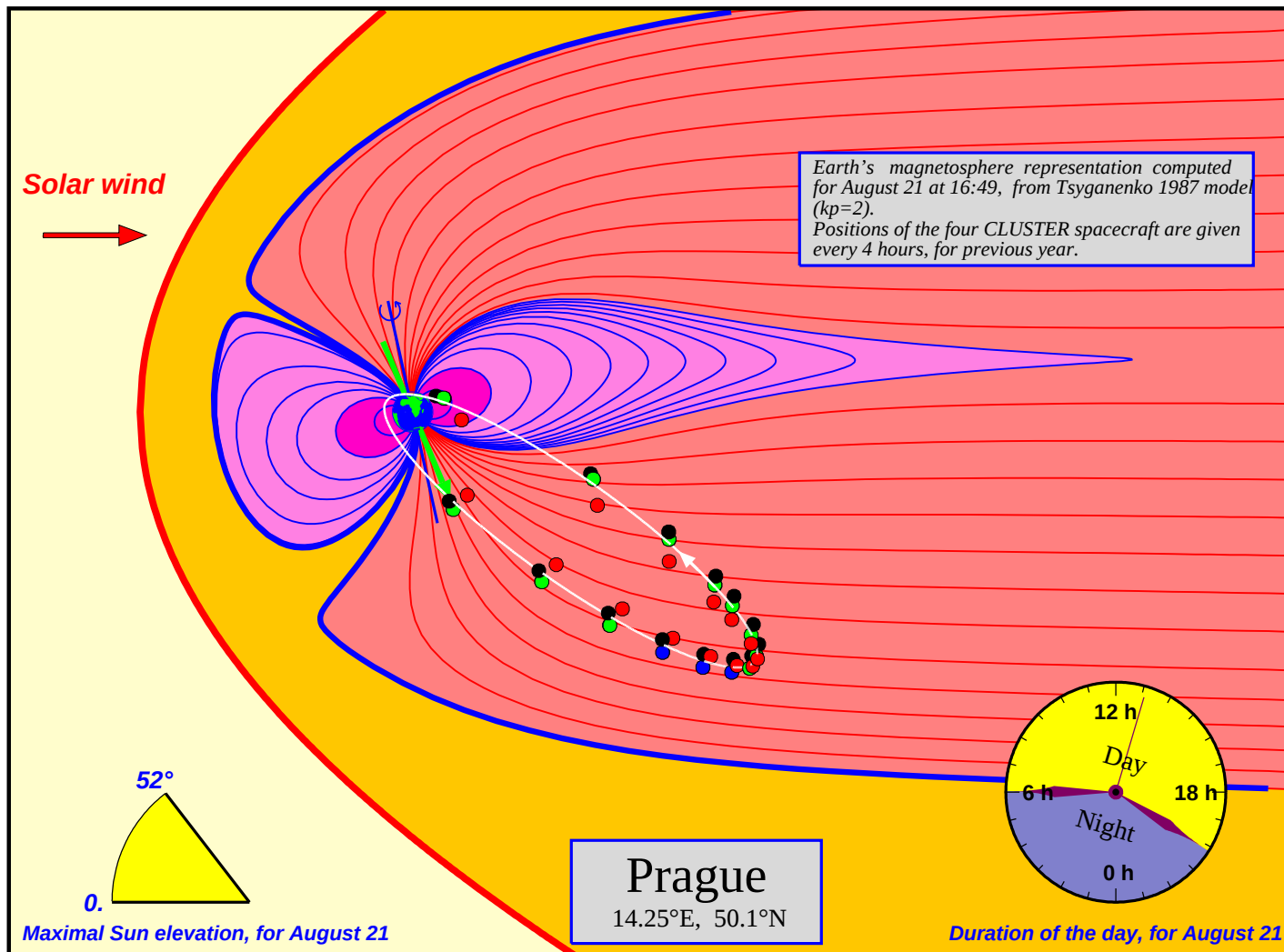


July 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
26	25 177 - 189 04:55 - 21:17 16:23 +0 m. 64°	26 178 - 188 04:55 - 21:17 16:22 -1 m. 64°	27 179 - 187 04:56 - 21:17 16:21 -1 m. 64°	28 180 - 186 04:56 - 21:17 16:21 +0 m. 64°	29 181 - 185 04:57 - 21:17 16:20 -1 m. 64°	30 182 - 184 04:57 - 21:16 16:19 -1 m. 64°	1 183 - 183 04:58 - 21:16 16:18 -1 m. 64°
27	2 184 - 182 04:59 - 21:16 16:17 -1 m. 63°	3 185 - 181 04:59 - 21:15 16:16 -1 m. 63°	4 186 - 180 05:00 - 21:15 16:15 -1 m. 63°	5 187 - 179 05:01 - 21:14 16:14 -1 m. 63°	6 188 - 178 05:02 - 21:14 16:12 -2 m. 63°	7 189 - 177 05:02 - 21:13 16:11 -1 m. 63°	8 190 - 176 05:03 - 21:13 16:09 -2 m. 63°
28	9 191 - 175 05:04 - 21:12 16:08 -1 m. 63°	10 192 - 174 05:05 - 21:11 16:06 -2 m. 63°	11 193 - 173 05:06 - 21:11 16:04 -2 m. 62°	12 194 - 172 05:07 - 21:10 16:03 -1 m. 62°	13 195 - 171 05:08 - 21:09 16:01 -2 m. 62°	14 196 - 170 05:09 - 21:08 15:59 -2 m. 62°	15 197 - 169 05:11 - 21:07 15:57 -2 m. 62°
29	16 198 - 168 05:12 - 21:06 15:55 -2 m. 62°	17 199 - 167 05:13 - 21:05 15:52 -3 m. 62°	18 200 - 166 05:14 - 21:04 15:50 -2 m. 61°	19 201 - 165 05:15 - 21:03 15:48 -2 m. 61°	20 202 - 164 05:16 - 21:02 15:46 -2 m. 61°	21 203 - 163 05:18 - 21:01 15:43 -3 m. 61°	22 204 - 162 05:19 - 21:00 15:41 -2 m. 61°
30	23 205 - 161 05:20 - 20:58 15:38 -3 m. 60°	24 206 - 160 05:22 - 20:57 15:35 -3 m. 60°	25 207 - 159 05:23 - 20:56 15:33 -2 m. 60°	26 208 - 158 05:24 - 20:54 15:30 -3 m. 60°	27 209 - 157 05:26 - 20:53 15:27 -3 m. 60°	28 210 - 156 05:27 - 20:52 15:25 -2 m. 59°	29 211 - 155 05:28 - 20:50 15:22 -3 m. 59°
31	30 212 - 154 05:30 - 20:49 15:19 -3 m. 59°	31 213 - 153 05:31 - 20:47 15:16 -3 m. 59°	1 214 - 152 05:32 - 20:46 15:13 -3 m. 58°	2 215 - 151 05:34 - 20:44 15:10 -3 m. 58°	3 216 - 150 05:35 - 20:42 15:07 -3 m. 58°	4 217 - 149 05:37 - 20:41 15:04 -3 m. 58°	5 218 - 148 05:38 - 20:39 15:01 -3 m. 57°

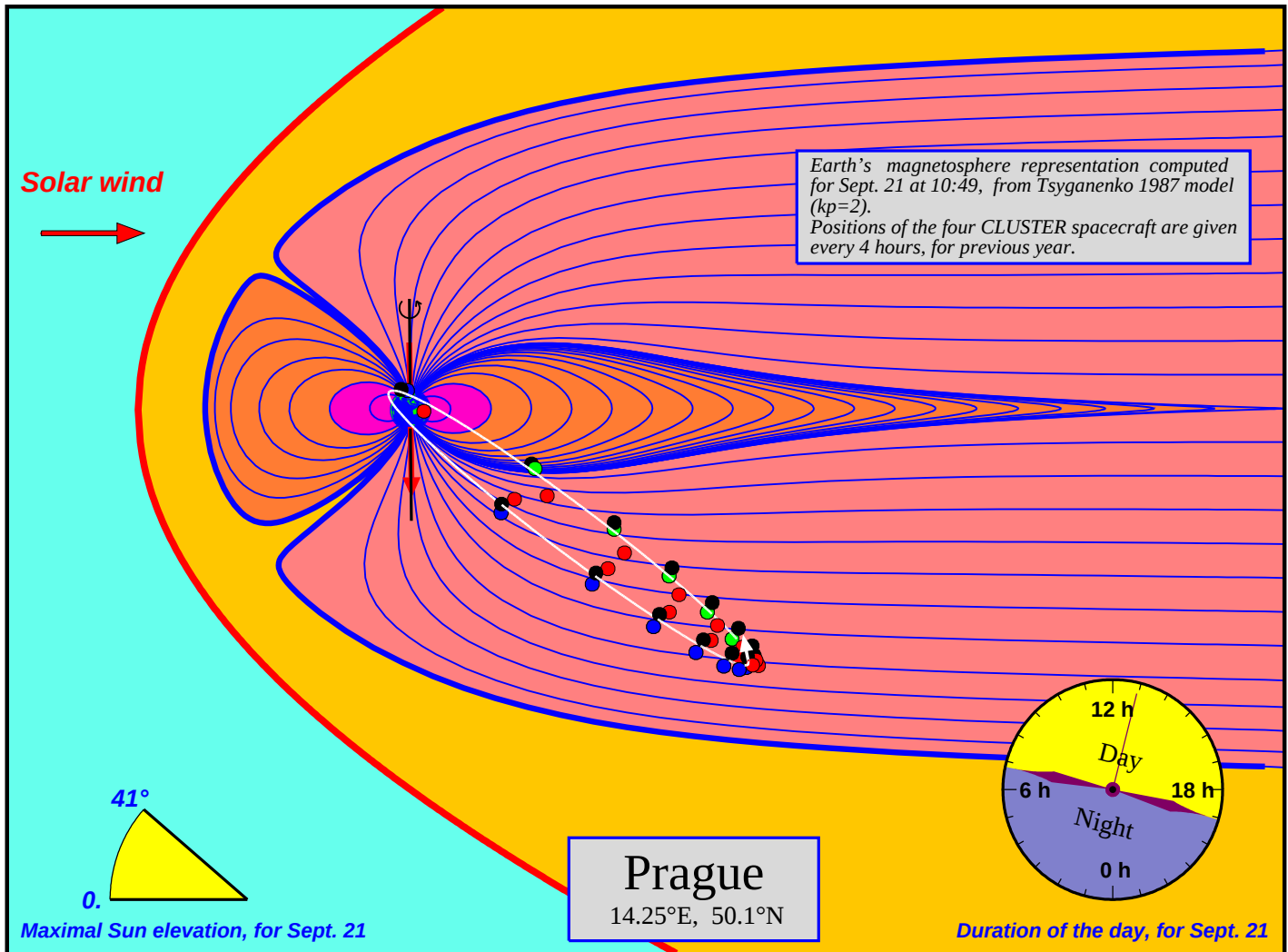


August 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
31	30 212 - 154 05:30 - 20:49 15:19 -3 m. 59°	31 213 - 153 05:31 - 20:47 15:16 -3 m. 59°	1 214 - 152 05:32 - 20:46 15:13 -3 m. 58°	2 215 - 151 05:34 - 20:44 15:10 -3 m. 58°	3 216 - 150 05:35 - 20:42 15:07 -3 m. 58°	4 217 - 149 05:37 - 20:41 15:04 -3 m. 58°	5 218 - 148 05:38 - 20:39 15:01 -3 m. 57°
32	6 219 - 147 05:40 - 20:37 14:58 -3 m. 57°	7 220 - 146 05:41 - 20:36 14:55 -3 m. 57°	8 221 - 145 05:43 - 20:34 14:51 -4 m. 56°	9 222 - 144 05:44 - 20:32 14:48 -3 m. 56°	10 223 - 143 05:46 - 20:30 14:45 -3 m. 56°	11 224 - 142 05:47 - 20:29 14:42 -3 m. 56°	12 225 - 141 05:48 - 20:27 14:38 -4 m. 55°
33	13 226 - 140 05:50 - 20:25 14:35 -3 m. 55°	14 227 - 139 05:51 - 20:23 14:32 -3 m. 55°	15 228 - 138 05:53 - 20:21 14:28 -4 m. 54°	16 229 - 137 05:54 - 20:19 14:25 -3 m. 54°	17 230 - 136 05:56 - 20:17 14:22 -3 m. 54°	18 231 - 135 05:57 - 20:15 14:18 -4 m. 53°	19 232 - 134 05:59 - 20:13 14:15 -3 m. 53°
34	20 233 - 133 06:00 - 20:11 14:11 -4 m. 53°	21 234 - 132 06:02 - 20:09 14:08 -3 m. 52°	22 235 - 131 06:03 - 20:07 14:04 -4 m. 52°	23 236 - 130 06:05 - 20:05 14:01 -3 m. 52°	24 237 - 129 06:06 - 20:03 13:57 -4 m. 51°	25 238 - 128 06:08 - 20:01 13:54 -3 m. 51°	26 239 - 127 06:09 - 19:59 13:50 -4 m. 51°
35	27 240 - 126 06:11 - 19:57 13:46 -4 m. 50°	28 241 - 125 06:12 - 19:55 13:43 -3 m. 50°	29 242 - 124 06:14 - 19:53 13:39 -4 m. 50°	30 243 - 123 06:15 - 19:51 13:36 -3 m. 49°	31 244 - 122 06:17 - 19:49 13:32 -4 m. 49°	1 245 - 121 06:18 - 19:47 13:28 -4 m. 49°	2 246 - 120 06:20 - 19:45 13:25 -3 m. 48°

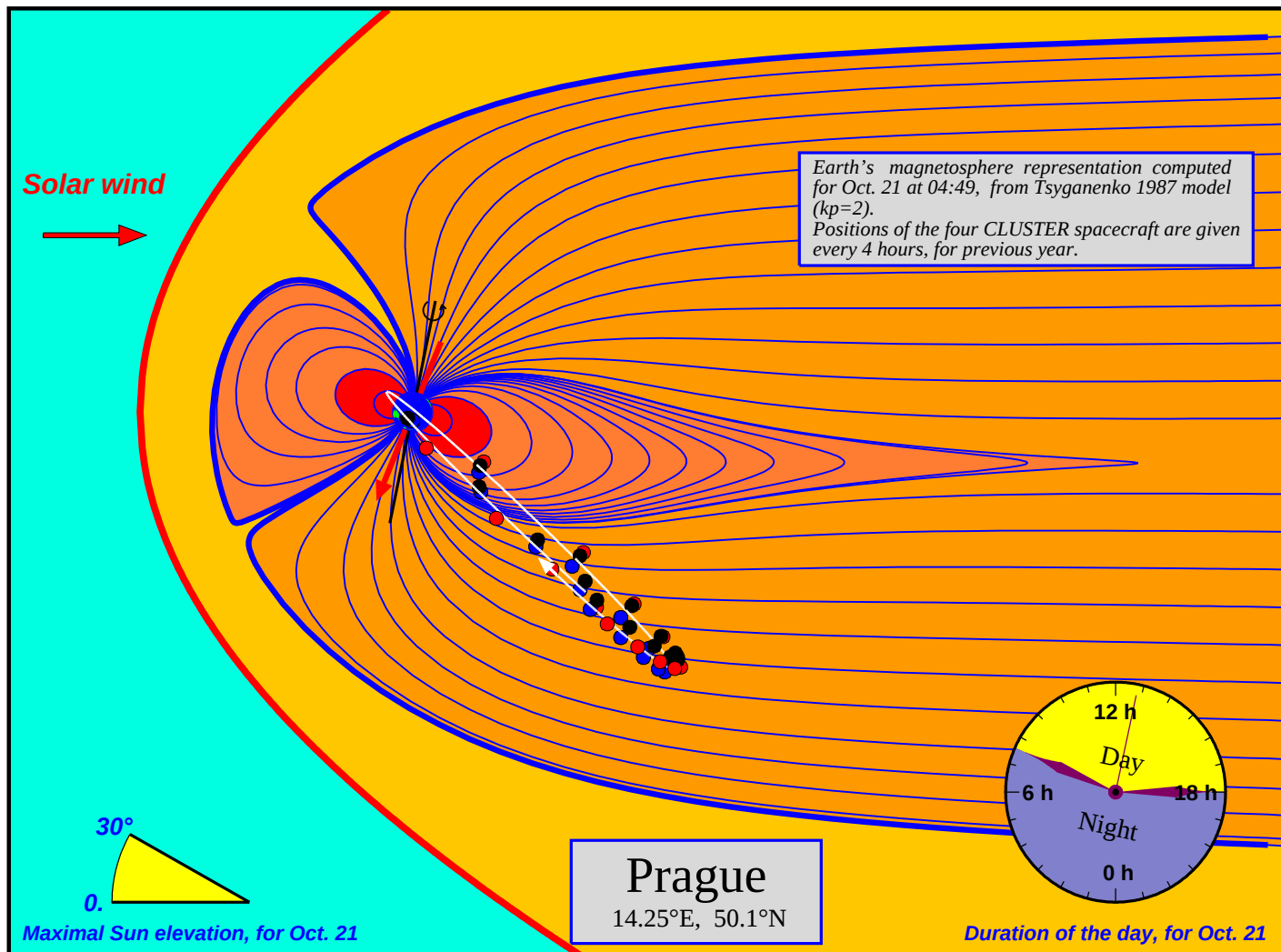


September 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
35	27 240 - 126 06:11 - 19:57 13:46 -4 m. 50°	28 241 - 125 06:12 - 19:55 13:43 -3 m. 50°	29 242 - 124 06:14 - 19:53 13:39 -4 m. 50°	30 243 - 123 06:15 - 19:51 13:36 -3 m. 49°	31 244 - 122 06:17 - 19:49 13:32 -4 m. 49°	1 245 - 121 06:18 - 19:47 13:28 -4 m. 49°	2 246 - 120 06:20 - 19:45 13:25 -3 m. 48°
36	3 247 - 119 06:21 - 19:42 13:21 -4 m. 48°	4 248 - 118 06:23 - 19:40 13:17 -4 m. 47°	5 249 - 117 06:24 - 19:38 13:14 -3 m. 47°	6 250 - 116 06:26 - 19:36 13:10 -4 m. 47°	7 251 - 115 06:27 - 19:34 13:06 -4 m. 46°	8 252 - 114 06:29 - 19:32 13:03 -3 m. 46°	9 253 - 113 06:30 - 19:29 12:59 -4 m. 46°
37	10 254 - 112 06:32 - 19:27 12:55 -4 m. 45°	11 255 - 111 06:33 - 19:25 12:52 -3 m. 45°	12 256 - 110 06:35 - 19:23 12:48 -4 m. 44°	13 257 - 109 06:36 - 19:21 12:44 -4 m. 44°	14 258 - 108 06:38 - 19:18 12:41 -3 m. 44°	15 259 - 107 06:39 - 19:16 12:37 -4 m. 43°	16 260 - 106 06:41 - 19:14 12:33 -4 m. 43°
38	17 261 - 105 06:42 - 19:12 12:30 -3 m. 42°	18 262 - 104 06:44 - 19:10 12:26 -4 m. 42°	19 263 - 103 06:45 - 19:07 12:22 -4 m. 42°	20 264 - 102 06:47 - 19:05 12:18 -4 m. 41°	21 265 - 101 06:48 - 19:03 12:15 -3 m. 41°	22 266 - 100 06:50 - 19:01 12:11 -4 m. 41°	23 267 - 99 06:51 - 18:58 12:07 -4 m. 40°
39	24 268 - 98 06:53 - 18:56 12:03 -4 m. 40°	25 269 - 97 06:54 - 18:54 12:00 -3 m. 39°	26 270 - 96 06:56 - 18:52 11:56 -4 m. 39°	27 271 - 95 06:57 - 18:50 11:52 -4 m. 39°	28 272 - 94 06:59 - 18:47 11:49 -3 m. 38°	29 273 - 93 07:01 - 18:45 11:45 -4 m. 38°	30 274 - 92 07:02 - 18:43 11:41 -4 m. 37°



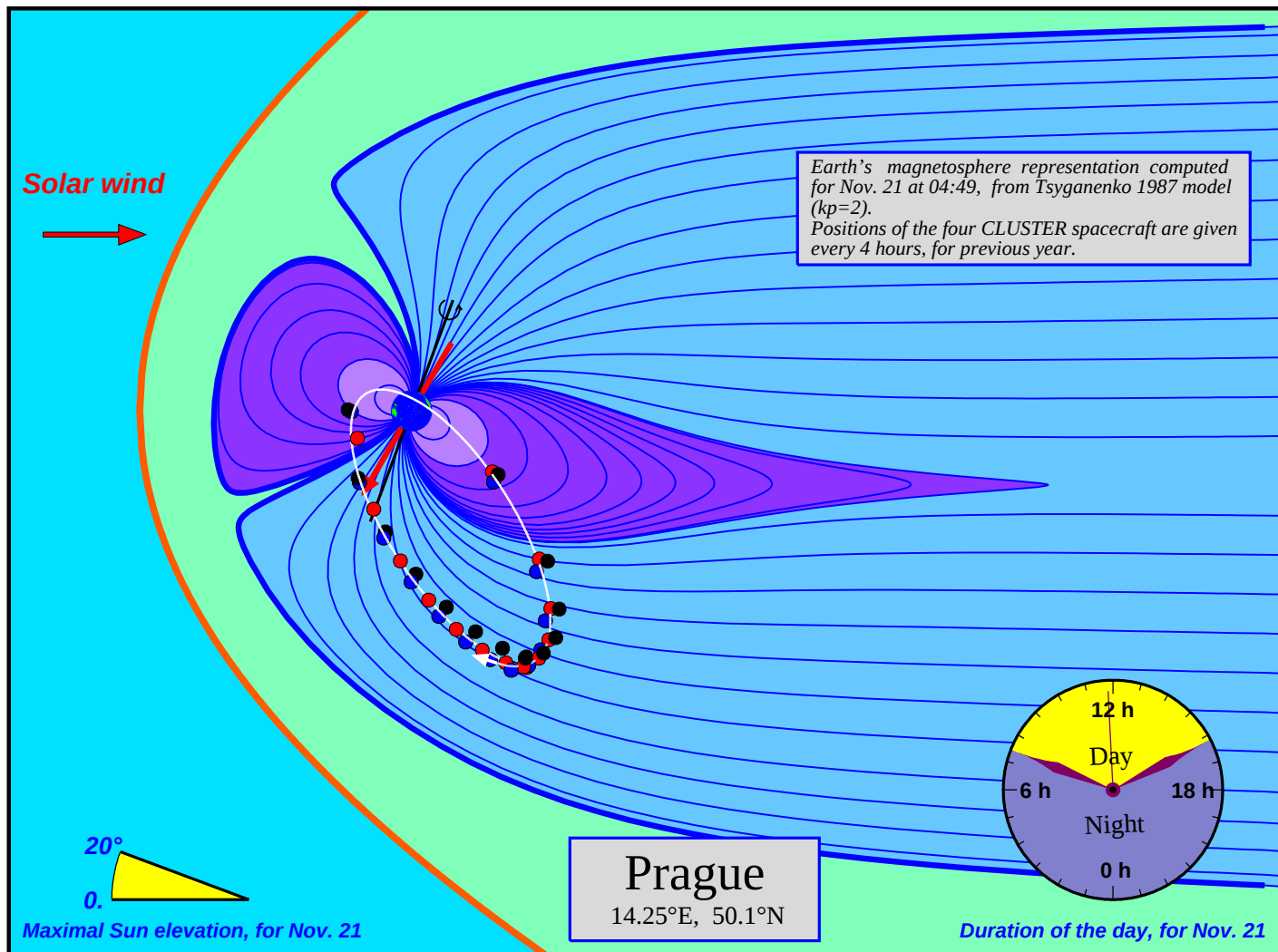
October 2012

heure d'hivers
le 28 à 03:00

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
40	1 275 - 91 07:04 - 18:41 11:37 -4 m. 37°	2 276 - 90 07:05 - 18:39 11:34 -3 m. 37°	3 277 - 89 07:07 - 18:37 11:30 -4 m. 36°	4 278 - 88 07:08 - 18:34 11:26 -4 m. 36°	5 279 - 87 07:10 - 18:32 11:23 -3 m. 35°	6 280 - 86 07:11 - 18:30 11:19 -4 m. 35°	7 281 - 85 07:13 - 18:28 11:15 -4 m. 35°
41	8 282 - 84 07:14 - 18:26 11:12 -3 m. 34°	9 283 - 83 07:16 - 18:24 11:08 -4 m. 34°	10 284 - 82 07:18 - 18:22 11:04 -4 m. 34°	11 285 - 81 07:19 - 18:20 11:00 -4 m. 33°	12 286 - 80 07:21 - 18:17 10:57 -3 m. 33°	13 287 - 79 07:22 - 18:15 10:53 -4 m. 32°	14 288 - 78 07:24 - 18:13 10:50 -3 m. 32°
42	15 289 - 77 07:26 - 18:11 10:46 -4 m. 32°	16 290 - 76 07:27 - 18:09 10:42 -4 m. 31°	17 291 - 75 07:29 - 18:07 10:39 -3 m. 31°	18 292 - 74 07:30 - 18:05 10:35 -4 m. 31°	19 293 - 73 07:32 - 18:03 10:31 -4 m. 30°	20 294 - 72 07:34 - 18:01 10:28 -3 m. 30°	21 295 - 71 07:35 - 17:59 10:24 -4 m. 30°
43	22 296 - 70 07:37 - 17:57 10:21 -3 m. 29°	23 297 - 69 07:39 - 17:56 10:17 -4 m. 29°	24 298 - 68 07:40 - 17:54 10:13 -4 m. 29°	25 299 - 67 07:42 - 17:52 10:10 -3 m. 28°	26 300 - 66 07:44 - 17:50 10:06 -4 m. 28°	27 301 - 65 07:45 - 17:48 10:03 -3 m. 27°	28 302 - 64 06:47 - 16:46 9:59 -4 m. 27°
44	29 303 - 63 06:49 - 16:44 9:55 -4 m. 27°	30 304 - 62 06:50 - 16:43 9:52 -3 m. 26°	31 305 - 61 06:52 - 16:41 9:49 -3 m. 26°	1 306 - 60 06:54 - 16:39 9:45 -4 m. 26°	2 307 - 59 06:55 - 16:38 9:42 -3 m. 26°	3 308 - 58 06:57 - 16:36 9:39 -3 m. 25°	4 309 - 57 06:59 - 16:34 9:35 -4 m. 25°

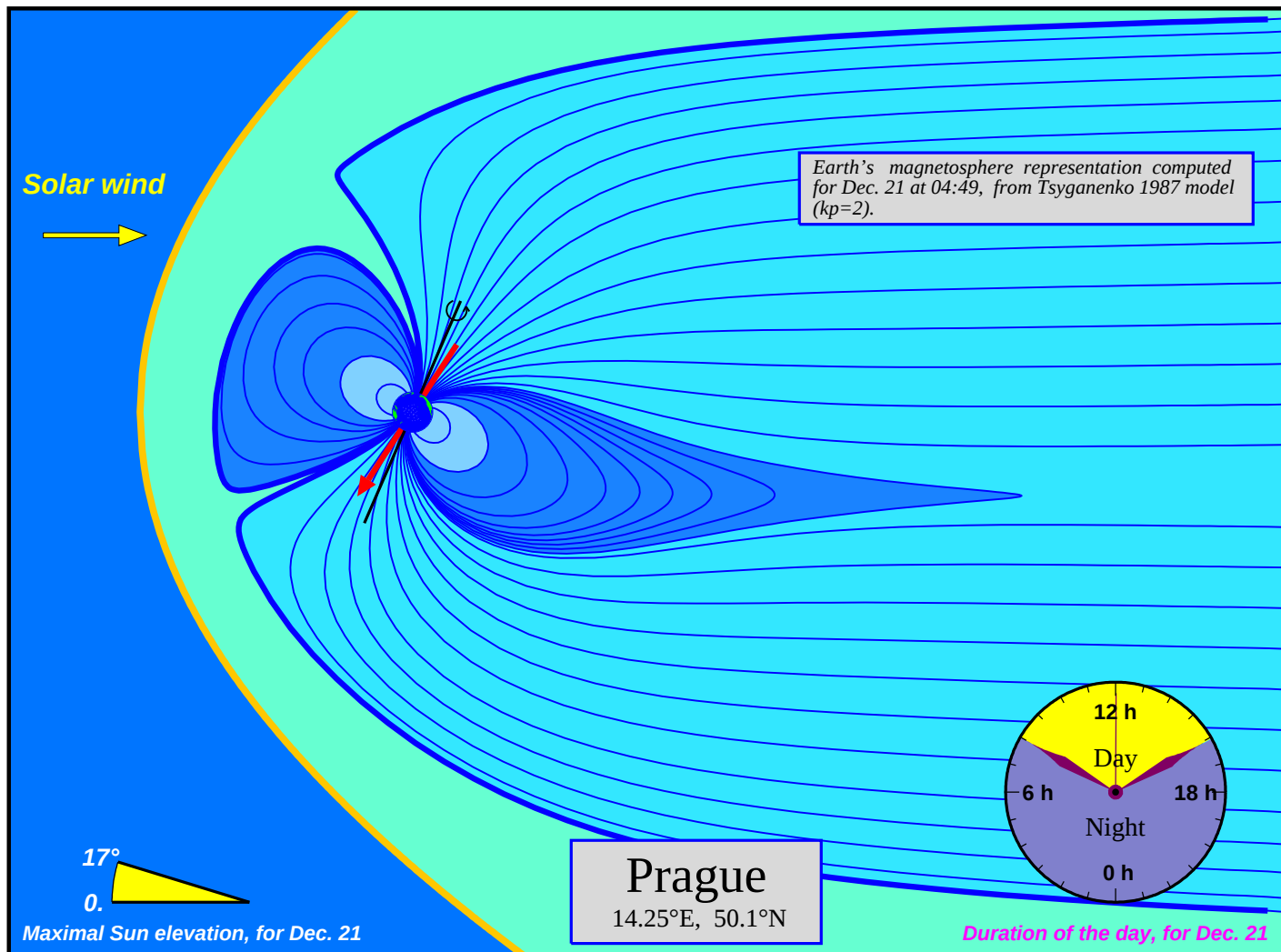


November 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
44	29 303 - 63 06:49 - 16:44 9:55 -4 m. 27°	30 304 - 62 06:50 - 16:43 9:52 -3 m. 26°	31 305 - 61 06:52 - 16:41 9:49 -3 m. 26°	1 306 - 60 06:54 - 16:39 9:45 -4 m. 26°	2 307 - 59 06:55 - 16:38 9:42 -3 m. 26°	3 308 - 58 06:57 - 16:36 9:39 -3 m. 25°	4 309 - 57 06:59 - 16:34 9:35 -4 m. 25°
45	5 310 - 56 07:00 - 16:33 9:32 -3 m. 25°	6 311 - 55 07:02 - 16:31 9:29 -3 m. 24°	7 312 - 54 07:04 - 16:30 9:26 -3 m. 24°	8 313 - 53 07:05 - 16:28 9:22 -4 m. 24°	9 314 - 52 07:07 - 16:27 9:19 -3 m. 23°	10 315 - 51 07:09 - 16:25 9:16 -3 m. 23°	11 316 - 50 07:10 - 16:24 9:13 -3 m. 23°
46	12 317 - 49 07:12 - 16:22 9:10 -3 m. 23°	13 318 - 48 07:13 - 16:21 9:07 -3 m. 22°	14 319 - 47 07:15 - 16:20 9:04 -3 m. 22°	15 320 - 46 07:17 - 16:18 9:01 -3 m. 22°	16 321 - 45 07:18 - 16:17 8:58 -3 m. 22°	17 322 - 44 07:20 - 16:16 8:56 -2 m. 21°	18 323 - 43 07:22 - 16:15 8:53 -3 m. 21°
47	19 324 - 42 07:23 - 16:14 8:50 -3 m. 21°	20 325 - 41 07:25 - 16:13 8:47 -3 m. 21°	21 326 - 40 07:26 - 16:12 8:45 -2 m. 20°	22 327 - 39 07:28 - 16:11 8:42 -3 m. 20°	23 328 - 38 07:29 - 16:10 8:40 -2 m. 20°	24 329 - 37 07:31 - 16:09 8:38 -2 m. 20°	25 330 - 36 07:32 - 16:08 8:35 -3 m. 20°
48	26 331 - 35 07:34 - 16:07 8:33 -2 m. 19°	27 332 - 34 07:35 - 16:06 8:31 -2 m. 19°	28 333 - 33 07:37 - 16:06 8:29 -2 m. 19°	29 334 - 32 07:38 - 16:05 8:27 -2 m. 19°	30 335 - 31 07:39 - 16:04 8:24 -3 m. 19°	1 336 - 30 07:41 - 16:04 8:22 -2 m. 19°	2 337 - 29 07:42 - 16:03 8:21 -1 m. 18°



December 2012

Sunrise and Sunset at Prague (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
48	26 331 - 35 07:34 - 16:07 8:33 -2 m. 19°	27 332 - 34 07:35 - 16:06 8:31 -2 m. 19°	28 333 - 33 07:37 - 16:06 8:29 -2 m. 19°	29 334 - 32 07:38 - 16:05 8:27 -2 m. 19°	30 335 - 31 07:39 - 16:04 8:24 -3 m. 19°	1 336 - 30 07:41 - 16:04 8:22 -2 m. 19°	2 337 - 29 07:42 - 16:03 8:21 -1 m. 18°
49	3 338 - 28 07:43 - 16:03 8:19 -2 m. 18°	4 339 - 27 07:45 - 16:02 8:17 -2 m. 18°	5 340 - 26 07:46 - 16:02 8:16 -1 m. 18°	6 341 - 25 07:47 - 16:02 8:14 -2 m. 18°	7 342 - 24 07:48 - 16:01 8:13 -1 m. 18°	8 343 - 23 07:49 - 16:01 8:11 -2 m. 18°	9 344 - 22 07:50 - 16:01 8:10 -1 m. 18°
50	10 345 - 21 07:51 - 16:01 8:09 -1 m. 18°	11 346 - 20 07:52 - 16:01 8:08 -1 m. 17°	12 347 - 19 07:53 - 16:01 8:07 -1 m. 17°	13 348 - 18 07:54 - 16:01 8:06 -1 m. 17°	14 349 - 17 07:55 - 16:01 8:06 +0 m. 17°	15 350 - 16 07:56 - 16:01 8:05 -1 m. 17°	16 351 - 15 07:57 - 16:01 8:04 -1 m. 17°
51	17 352 - 14 07:57 - 16:02 8:04 +0 m. 17°	18 353 - 13 07:58 - 16:02 8:04 +0 m. 17°	19 354 - 12 07:59 - 16:02 8:03 -1 m. 17°	20 355 - 11 07:59 - 16:03 8:03 +0 m. 17°	21 356 - 10 08:00 - 16:03 8:03 +0 m. 17°	22 357 - 9 08:00 - 16:04 8:03 +0 m. 17°	23 358 - 8 08:01 - 16:04 8:03 +0 m. 17°
52	24 359 - 7 08:01 - 16:05 8:03 +0 m. 17°	25 360 - 6 08:01 - 16:06 8:04 +1 m. 17°	26 361 - 5 08:02 - 16:06 8:04 +0 m. 17°	27 362 - 4 08:02 - 16:07 8:05 +1 m. 17°	28 363 - 3 08:02 - 16:08 8:06 +1 m. 17°	29 364 - 2 08:02 - 16:09 8:06 +0 m. 17°	30 365 - 1 08:02 - 16:10 8:07 +1 m. 17°
53	31 366 - 0 08:02 - 16:11 8:08 +1 m. 17°						

Visualisation of magnetic field lines of the Earth

Model: Tsyganenko 87 version exshor ikp=4 (kp= 2+) Date/Time: 16 janvier 2001 02:00 Coordinates: GSM

P. Robert, CETP/CNRS, 1996

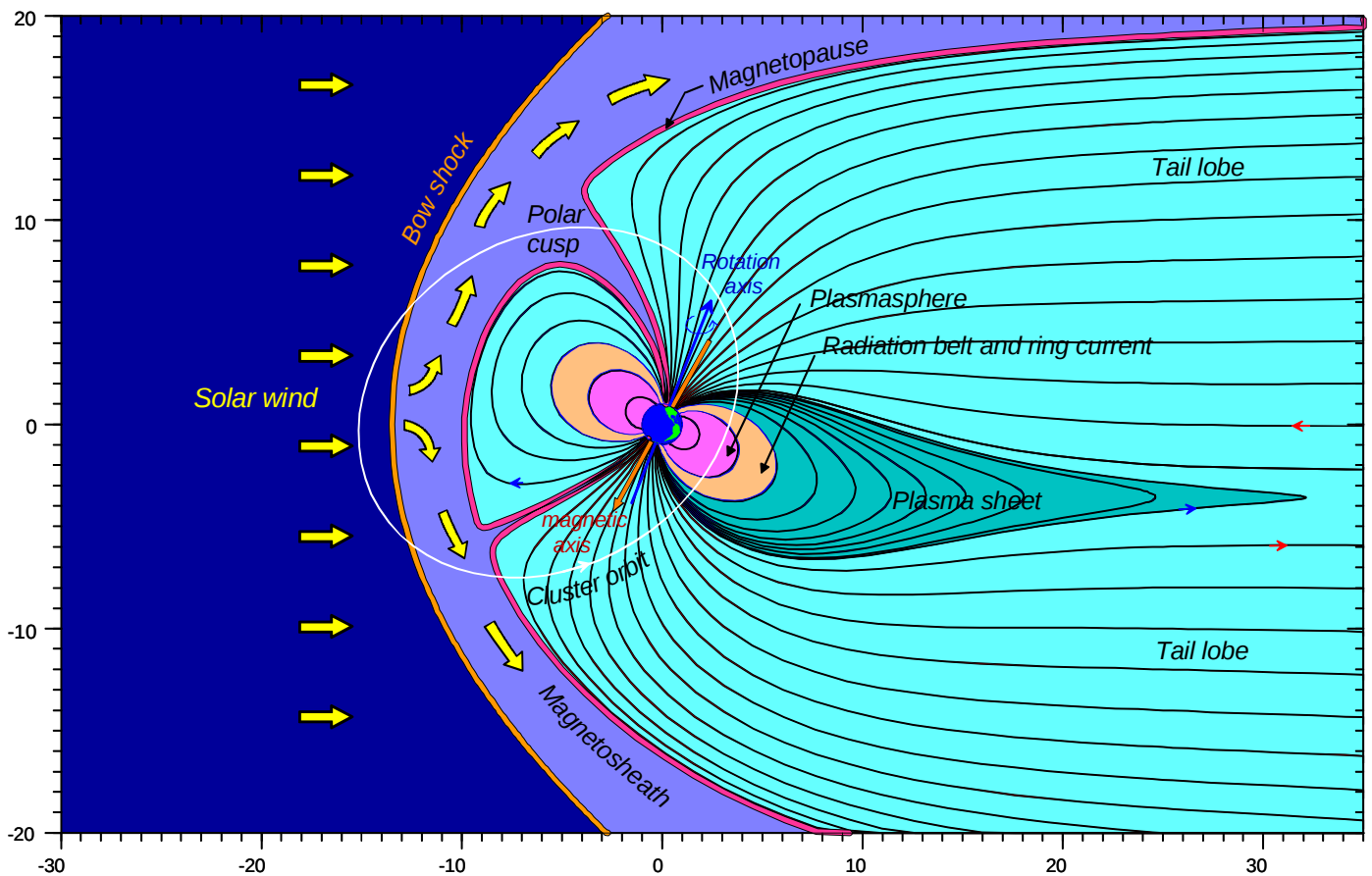


Illustration : Visualization of magnetic field lines of the Earth, showing the magnetosphere.

The magnetic Earth's field lines, due to the internal field, initially dipolar and symmetric around the axis of the magnetic dipole, are deformed by the solar wind, which create a closed cavity, named magnetosphere, and a shock wave upstream of this cavity. The various regions are artificially colored. The color choice, here as well as from one season to another for the calendar, is purely esthetical.

The magnetic field model used is the one of Tsyganenko 1987. The computation of the magnetosphere geometries, from the magnetic field model, is done from a specific library developed at CETP, the "Comagnetolib". All the graphical is produced by an owner library, the "Rogralib".

Calendar:

The sunrise and sunset time, the computation of the maximal elevation of the Sun at the local noon, the duration of the day, are computed thanks to a coordinate system library, developed initially for the CLUSTER mission in 1992, the "Rocotlib", completed by all the routines allowing calendar and time conversions. Sunrise, sunset and local noon time are now available for polar zones in the December 2011 version of this library.

Computations are done assuming a spherical Earth, and for a constant value of the indices of refraction of the air at the horizon. Computations have been checked with the ephemerid values delivered by the "Bureau Des Longitudes" in Paris. The accuracy is around one minute in time and a few minutes in angles. Sunrise and sunset are defined when the apparent upper edge of the sun reach the local horizon.

This calendar can be automatically produced for any city in the world, including polar zones, and for all years between 1901 and 2099.

For any more information, contact Patrick.Robert@lpp.polytechnique.fr

Many calendar examples computed for various places in the world are available here : <http://www.lpp.fr/?Patrick-Robert>