

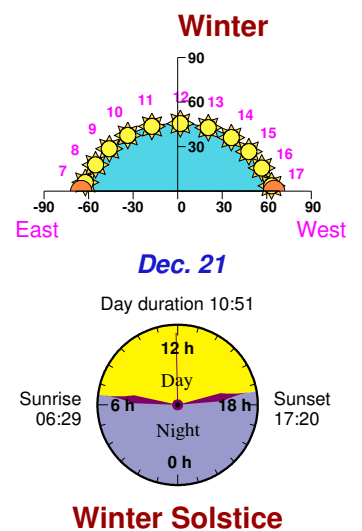
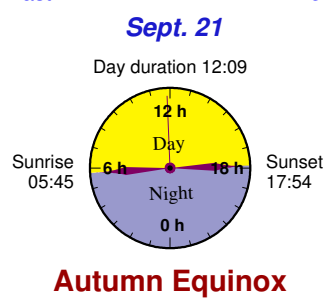
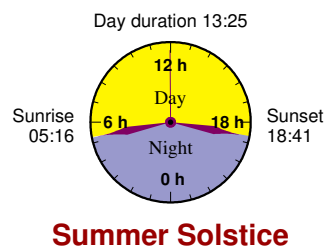
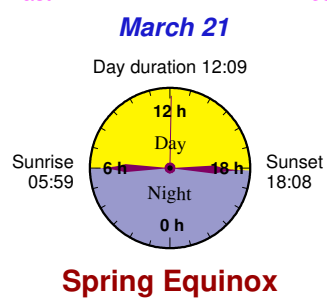
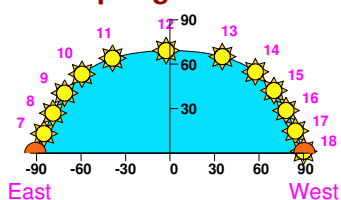
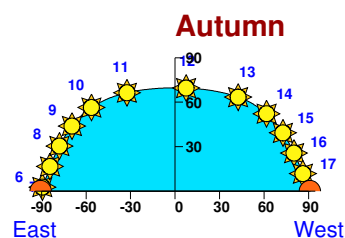
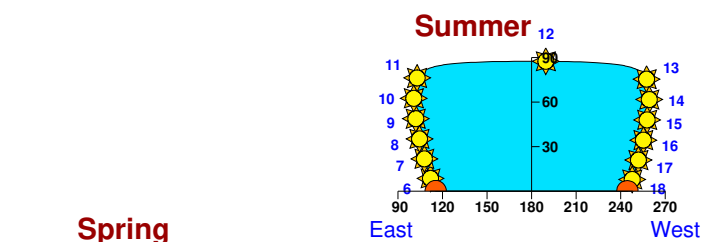
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

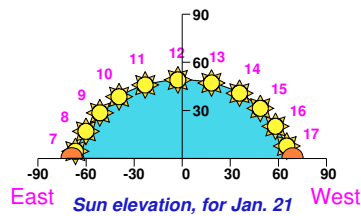
Hanoi
105.88°E, 21.016°N



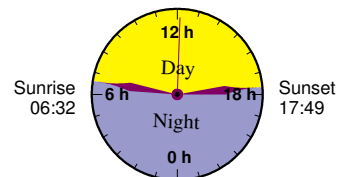
Tropical zone



January 2018



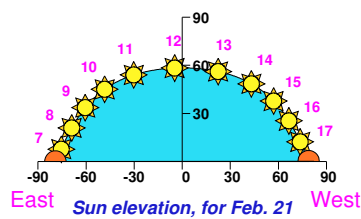
Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL ± 1 mn) and sun maximal elevation ($^\circ$)

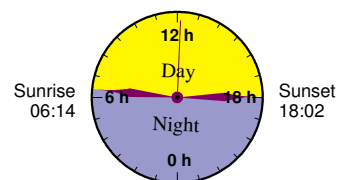
Duration of the day, for January 21

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 - 364 06:34 - 17:27 46°	2 - 363 06:34 - 17:27 46°	3 - 362 06:35 - 17:28 46°	4 - 361 06:35 - 17:28 46°	5 - 360 06:35 - 17:29 46°	6 - 359 06:35 - 17:30 47°	7 - 358 06:35 - 17:30 47°
2	8 - 357 06:36 - 17:31 47°	9 - 356 06:36 - 17:32 47°	10 - 355 06:36 - 17:32 47°	11 - 354 06:36 - 17:33 47°	12 - 353 06:36 - 17:34 47°	13 - 352 06:36 - 17:34 48°	14 - 351 06:36 - 17:35 48°
3	15 - 350 06:36 - 17:36 48°	16 - 349 06:36 - 17:36 48°	17 - 348 06:36 - 17:37 48°	18 - 347 06:36 - 17:38 48°	19 - 346 06:36 - 17:39 49°	20 - 345 06:36 - 17:39 49°	21 - 344 06:36 - 17:40 49°
4	22 - 343 06:36 - 17:41 49°	23 - 342 06:36 - 17:41 50°	24 - 341 06:35 - 17:42 50°	25 - 340 06:35 - 17:42 50°	26 - 339 06:35 - 17:43 50°	27 - 338 06:35 - 17:44 51°	28 - 337 06:35 - 17:44 51°
5	29 - 336 06:34 - 17:45 51°	30 - 335 06:34 - 17:46 51°	31 - 334 06:34 - 17:46 52°				



February 2018

Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

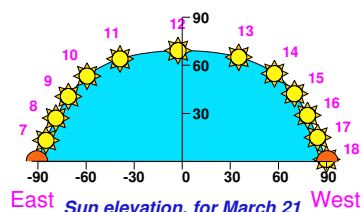
6

7

8

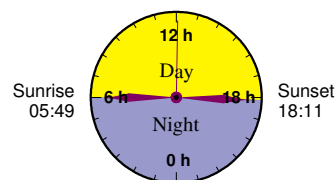
9

			1 32 - 333 06:33 - 17:47 52° 	2 33 - 332 06:33 - 17:48 52° 	3 34 - 331 06:33 - 17:48 52° 	4 35 - 330 06:32 - 17:49 53°
	5 36 - 329 06:32 - 17:49 53° 	6 37 - 328 06:31 - 17:50 53° 	7 38 - 327 06:31 - 17:50 54° 	8 39 - 326 06:30 - 17:51 54° 	9 40 - 325 06:30 - 17:52 54° 	10 41 - 324 06:29 - 17:52 55°
	12 43 - 322 06:28 - 17:53 55° 	13 44 - 321 06:28 - 17:54 56° 	14 45 - 320 06:27 - 17:54 56° 	15 46 - 319 06:26 - 17:55 56° 	16 47 - 318 06:26 - 17:55 57° 	17 48 - 317 06:25 - 17:56 57°
	19 50 - 315 06:24 - 17:57 58° 	20 51 - 314 06:23 - 17:57 58° 	21 52 - 313 06:23 - 17:58 58° 	22 53 - 312 06:22 - 17:58 59° 	23 54 - 311 06:21 - 17:58 59° 	24 55 - 310 06:20 - 17:59 60°
	26 57 - 308 06:19 - 18:00 60° 	27 58 - 307 06:18 - 18:00 61° 	28 59 - 306 06:17 - 18:01 61° 			25 56 - 309 06:20 - 17:59 60°



March 2018

Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Duration of the day, for March 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 60 - 305
06:17 - 18:01 61°

2 61 - 304
06:16 - 18:01 62°

3 62 - 303
06:15 - 18:02 62°

4 63 - 302
06:14 - 18:02 63°

5 64 - 301
06:13 - 18:03 63°

6 65 - 300
06:13 - 18:03 63°

7 66 - 299
06:12 - 18:03 64°

8 67 - 298
06:11 - 18:04 64°

9 68 - 297
06:10 - 18:04 64°

10 69 - 296
06:09 - 18:04 65°

11 70 - 295
06:08 - 18:05 65°

12 71 - 294
06:07 - 18:05 66°

13 72 - 293
06:07 - 18:05 66°

14 73 - 292
06:06 - 18:06 66°

15 74 - 291
06:05 - 18:06 67°

16 75 - 290
06:04 - 18:06 67°

17 76 - 289
06:03 - 18:07 68°

18 77 - 288
06:02 - 18:07 68°

19 78 - 287
06:01 - 18:07 68°

20 79 - 286
06:00 - 18:08 69°

21 80 - 285
05:59 - 18:08 69°

22 81 - 284
05:58 - 18:08 70°

23 82 - 283
05:58 - 18:09 70°

24 83 - 282
05:57 - 18:09 70°

25 84 - 281
05:56 - 18:09 71°

26 85 - 280
05:55 - 18:09 71°

27 86 - 279
05:54 - 18:10 72°

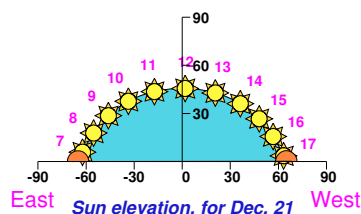
28 87 - 278
05:53 - 18:10 72°

29 88 - 277
05:52 - 18:10 72°

30 89 - 276
05:51 - 18:11 73°

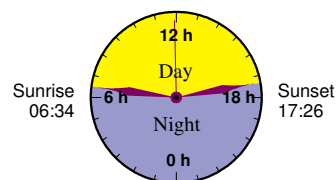
31 90 - 275
05:50 - 18:11 73°

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December 2018

Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Duration of the day, for December 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 335 - 30
06:17 - 17:14 47°

2 336 - 29
06:18 - 17:14 47°

3 337 - 28
06:19 - 17:14 47°

4 338 - 27
06:19 - 17:15 47°

5 339 - 26
06:20 - 17:15 47°

6 340 - 25
06:21 - 17:15 47°

7 341 - 24
06:21 - 17:15 46°

8 342 - 23
06:22 - 17:15 46°

9 343 - 22
06:23 - 17:16 46°

10 344 - 21
06:23 - 17:16 46°

11 345 - 20
06:24 - 17:16 46°

12 346 - 19
06:24 - 17:17 46°

13 347 - 18
06:25 - 17:17 46°

14 348 - 17
06:26 - 17:17 46°

15 349 - 16
06:26 - 17:18 46°

16 350 - 15
06:27 - 17:18 46°

17 351 - 14
06:27 - 17:18 46°

18 352 - 13
06:28 - 17:19 46°

19 353 - 12
06:28 - 17:19 46°

20 354 - 11
06:29 - 17:20 46°

21 355 - 10
06:29 - 17:20 46°

22 356 - 9
06:30 - 17:21 46°

23 357 - 8
06:30 - 17:21 46°

24 358 - 7
06:31 - 17:22 46°

25 359 - 6
06:31 - 17:22 46°

26 360 - 5
06:32 - 17:23 46°

27 361 - 4
06:32 - 17:23 46°

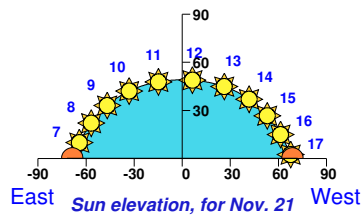
28 362 - 3
06:32 - 17:24 46°

29 363 - 2
06:33 - 17:25 46°

30 364 - 1
06:33 - 17:25 46°

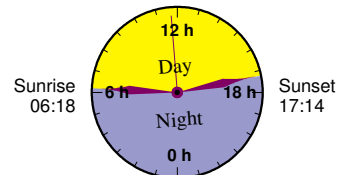
31 365 - 0
06:34 - 17:26 46°

Sun Calendar © P. Robert / ScientiDev, Déc. 2014



November 2018

Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL ± 1 mn) and sun maximal elevation ($^{\circ}$)

Duration of the day, for November 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

45

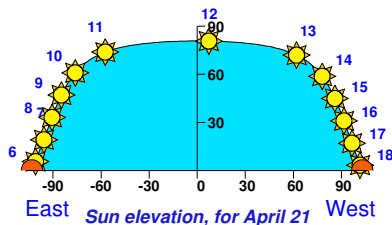
46

47

48

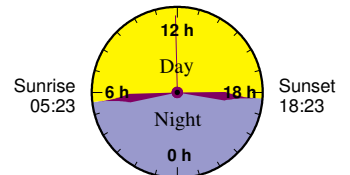
			1 305 - 60 06:00 - 17:21 55°	2 306 - 59 06:00 - 17:21 54°	3 307 - 58 06:01 - 17:20 54°	4 308 - 57 06:01 - 17:20 54°
	5 309 - 56 06:02 - 17:19 53°	6 310 - 55 06:02 - 17:19 53°	7 311 - 54 06:03 - 17:18 53°	8 312 - 53 06:03 - 17:18 52°	9 313 - 52 06:04 - 17:17 52°	10 314 - 51 06:04 - 17:17 52°
	11 315 -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

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April 2018

Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL ± 1 mn) and sun maximal elevation ($^{\circ}$)

Duration of the day, for April 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

15

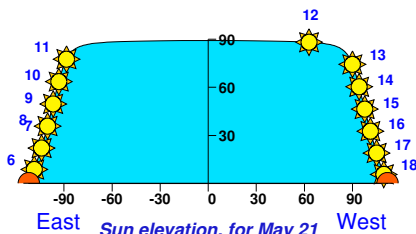
16

17

18

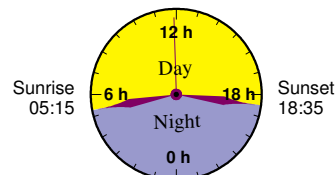
						1 91 - 274 05:49 - 18:11 74°
2 92 - 273 05:49 - 18:12 74°	3 93 - 272 05:48 - 18:12 74°	4 94 - 271 05:47 - 18:12 75°	5 95 - 270 05:46 - 18:12 75°	6 96 - 269 05:45 - 18:13 75°	7 97 - 268 05:44 - 18:13 76°	8 98 - 267 05:43 - 18:13 76°
9 99 - 266 05:42 - 18:14 77°	10 100 - 265 05:42 - 18:14 77°	11 101 - 264 05:41 - 18:14 77°	12 102 - 263 05:40 - 18:15 78°	13 103 - 262 05:39 - 18:15 78°	14 104 - 261 05:38 - 18:15 78°	15 105 - 260 05:37 - 18:16 79°
16 106 - 259 05:37 - 18:16 79°	17 107 - 258 05:36 - 18:16 79°	18 108 - 257 05:35 - 18:17 80°	19 109 - 256 05:34 - 18:17 80°	20 110 - 255 05:33 - 18:17 80°	21 111 - 254 05:33 - 18:18 81°	22 112 - 253 05:32 - 18:18 81°
23 113 - 252 05:31 - 18:18 81°	24 114 - 251 05:31 - 18:19 82°	25 115 - 250 05:30 - 18:19 82°	26 116 - 249 05:29 - 18:19 82°	27 117 - 248 05:28 - 18:20 83°	28 118 - 247 05:28 - 18:20 83°	29 119 - 246 05:27 - 18:21 83°
30 120 - 245 05:27 - 18:21 84°						

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May 2018

Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL ± 1 mn) and sun maximal elevation ($^{\circ}$)

Duration of the day, for May 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

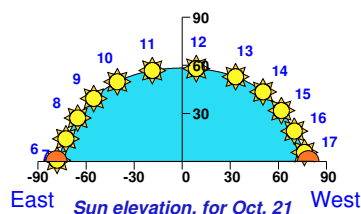
19

20

21

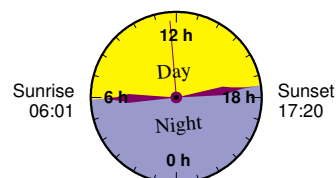
22

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October 2018

Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL ± 1 mn) and sun maximal elevation ($^{\circ}$)

Duration of the day, for October 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

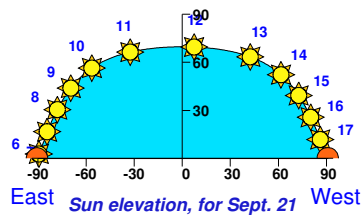
41

42

43

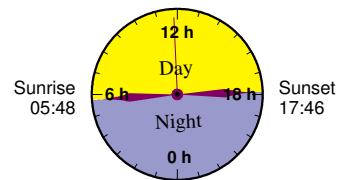
44

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September 2018

Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Duration of the day, for September 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

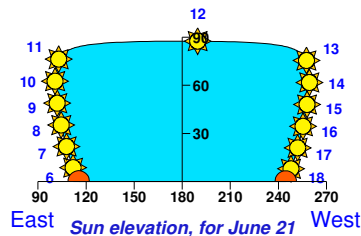
37

38

39

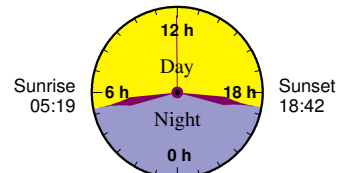
1 244 - 121 05:40 - 18:13 77°	2 245 - 120 05:41 - 18:12 77°
3 246 - 119 05:41 - 18:11 77°	4 247 - 118 05:41 - 18:10 76°
5 248 - 117 05:41 - 18:09 76°	6 249 - 116 05:42 - 18:08 75°
7 250 - 115 05:42 - 18:08 75°	8 251 - 114 05:42 - 18:07 75°
9 252 - 113 05:42 - 18:06 74°	10 253 - 112 05:43 - 18:05 74°
11 254 - 111 05:43 - 18:04 74°	12 255 - 110 05:43 - 18:03 73°
13 256 - 109 05:43 - 18:02 73°	14 257 - 108 05:44 - 18:01 72°
15 258 - 107 05:44 - 18:00 72°	16 259 - 106 05:44 - 17:59 72°
17 260 - 105 05:44 - 17:58 71°	18 261 - 104 05:45 - 17:57 71°
19 262 - 103 05:45 - 17:56 70°	20 263 - 102 05:45 - 17:55 70°
21 264 - 101 05:45 - 17:54 70°	22 265 - 100 05:46 - 17:53 69°
23 266 - 99 05:46 - 17:52 69°	24 267 - 98 05:46 - 17:51 69°
25 268 - 97 05:46 - 17:50 68°	26 269 - 96 05:47 - 17:50 68°
27 270 - 95 05:47 - 17:49 67°	28 271 - 94 05:47 - 17:48 67°
29 272 - 93 05:47 - 17:47 67°	30 273 - 92 05:48 - 17:46 66°

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June 2018

Hanoi
105.88°E, 21.016°N



Sunrise and Sunset at Hanoi (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Duration of the day, for June 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

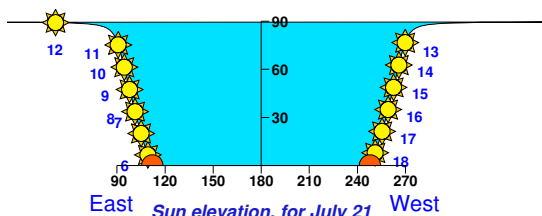
24

25

26

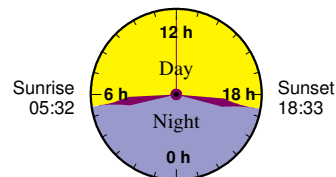
1 152 - 213 05:15 - 18:34 89°	2 153 - 212 05:15 - 18:35 89°	3 154 - 211 05:15 - 18:35 89°
4 155 - 210 05:14 - 18:35 89°	5 156 - 209 05:14 - 18:36 88°	6 157 - 208 05:14 - 18:36 88°
7 158 - 207 05:14 - 18:37 88°	8 159 - 206 05:14 - 18:37 88°	9 160 - 205 05:15 - 18:37 88°
10 161 - 204 05:15 - 18:38 88°	11 162 - 203 05:15 - 18:38 88°	12 163 - 202 05:15 - 18:38 88°
13 164 - 201 05:15 - 18:39 88°	14 165 - 200 05:15 - 18:39 88°	15 166 - 199 05:15 - 18:39 88°
16 167 - 198 05:15 - 18:39 88°	17 168 - 197 05:15 - 18:40 88°	18 169 - 196 05:16 - 18:40 88°
19 170 - 195 05:16 - 18:40 88°	20 171 - 194 05:16 - 18:41 88°	21 172 - 193 05:16 - 18:41 88°
22 173 - 192 05:16 - 18:41 88°	23 174 - 191 05:17 - 18:41 88°	24 175 - 190 05:17 - 18:41 88°
25 176 - 189 05:17 - 18:41 88°	26 177 - 188 05:17 - 18:42 88°	27 178 - 187 05:18 - 18:42 88°
28 179 - 186 05:18 - 18:42 88°	29 180 - 185 05:18 - 18:42 88°	30 181 - 184 05:19 - 18:42 88°

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July 2018

Hanoi
105.88°E, 21.016°N



Duration of the day, for July 21

Sunrise and Sunset at Hanoi (TL ± 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

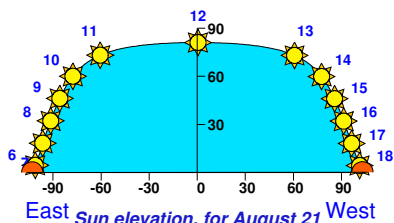
29

30

31

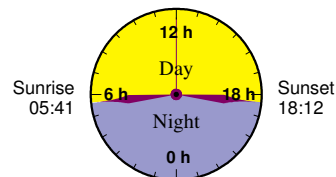
2 183 - 182 05:19 - 18:42 88°	3 184 - 181 05:20 - 18:42 88°	4 185 - 180 05:20 - 18:42 88°	5 186 - 179 05:20 - 18:42 88°	6 187 - 178 05:21 - 18:42 88°	7 188 - 177 05:21 - 18:42 88°	1 182 - 183 05:19 - 18:42 88°
9 190 - 175 05:22 - 18:42 89°	10 191 - 174 05:22 - 18:42 89°	11 192 - 173 05:23 - 18:42 89°	12 193 - 172 05:23 - 18:42 89°	13 194 - 171 05:23 - 18:42 89°	14 195 - 170 05:24 - 18:41 89°	8 189 - 176 05:21 - 18:42 89°
16 197 - 168 05:25 - 18:41 89°	17 198 - 167 05:25 - 18:41 89°	18 199 - 166 05:25 - 18:41 89°	19 200 - 165 05:26 - 18:40 89°	20 201 - 164 05:26 - 18:40 89°	21 202 - 163 05:27 - 18:40 89°	22 203 - 162 05:27 - 18:40 89°
23 204 - 161 05:27 - 18:39 89°	24 205 - 160 05:28 - 18:39 89°	25 206 - 159 05:28 - 18:38 89°	26 207 - 158 05:28 - 18:38 88°	27 208 - 157 05:29 - 18:38 88°	28 209 - 156 05:29 - 18:37 88°	29 210 - 155 05:30 - 18:37 88°
30 211 - 154 05:30 - 18:36 88°	31 212 - 153 05:30 - 18:36 87°					

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August 2018

Hanoi
105.88°E, 21.016°N



Duration of the day, for August 21

Sunrise and Sunset at Hanoi (TL ± 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

33

34

35

		1 213 - 152 05:31 - 18:35 87°	2 214 - 151 05:31 - 18:35 87°	3 215 - 150 05:32 - 18:34 86°	4 216 - 149 05:32 - 18:34 86°	5 217 - 148 05:32 - 18:33 86°
6 218 - 147 05:33 - 18:33 86°	7 219 - 146 05:33 - 18:32 85°	8 220 - 145 05:33 - 18:31 85°	9 221 - 144 05:34 - 18:31 85°	10 222 - 143 05:34 - 18:30 85°	11 223 - 142 05:34 - 18:30 84°	12 224 - 141 05:35 - 18:29 84°
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