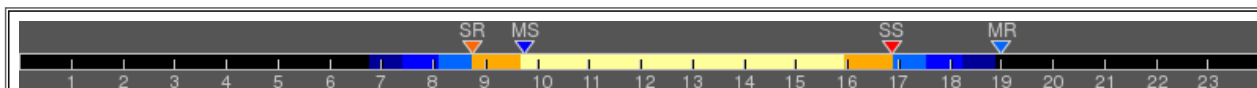
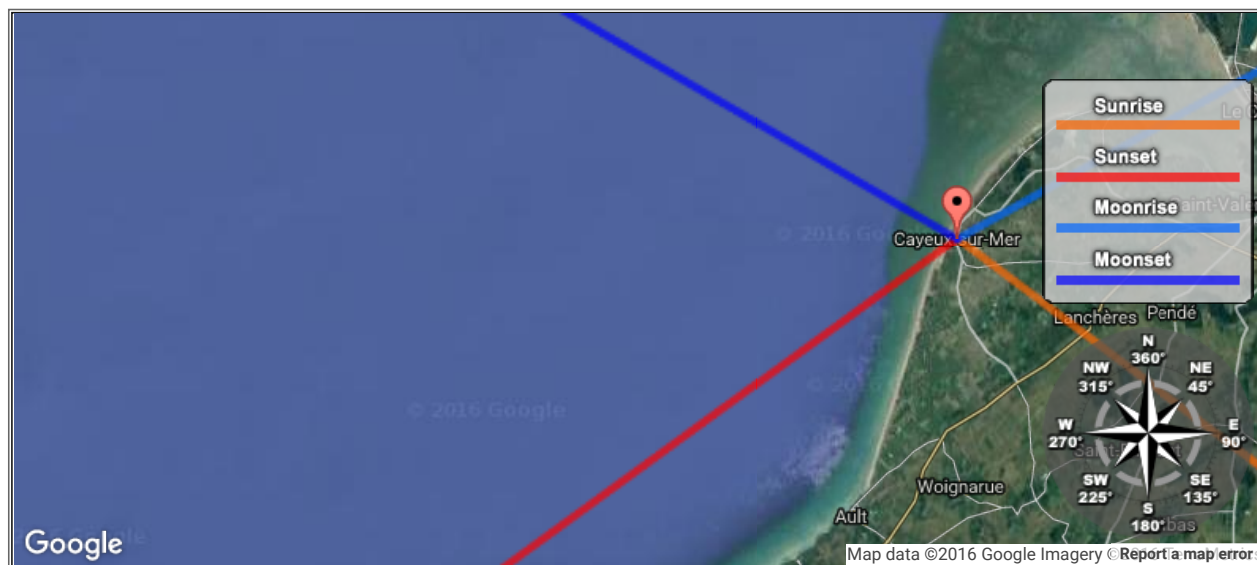


## Twilight Calculator - "Blue Hour / Golden Hour Table"

Version: 1.2.4



Blue Hour Table  
for France, Hauts-de-France (N 50°10.8' - O 01°29.6') in December 2016

Date	Twilight starts	Sunrise	Sunset	Twilight Ends	Twilight Dur.	Moonrise	Moonset	Moon Size (Area)
Thu 01.12.2016	07:53	08:31 @ 124°	16:56 @ 236°	17:33	38 min	09:48 @ 120°	18:51 @ 239°	91%
Fr 02.12.2016	07:54	08:32 @ 124°	16:55 @ 236°	17:33	38 min	10:37 @ 120°	19:43 @ 240°	92%
Sat 03.12.2016	07:55	08:33 @ 125°	16:55 @ 235°	17:33	38 min	11:20 @ 119°	20:40 @ 242°	94%
Sun 04.12.2016	07:57	08:34 @ 125°	16:55 @ 235°	17:32	37 min	11:59 @ 115°	21:42 @ 246°	96%
Mon 05.12.2016	07:58	08:36 @ 125°	16:54 @ 235°	17:32	38 min	12:33 @ 111°	22:48 @ 251°	99%
Tue 06.12.2016	07:59	08:37 @ 125°	16:54 @ 235°	17:32	38 min	13:03 @ 105°	23:57 @ 257°	102%
Wed 07.12.2016	08:00	08:38 @ 125°	16:54 @ 235°	17:32	38 min	13:32 @ 99°	---	103%
Thu 08.12.2016	08:01	08:39 @ 126°	16:54 @ 234°	17:32	38 min	13:59 @ 92°	01:08 @ 264°	106%
Fr 09.12.2016	08:02	08:40 @ 126°	16:53 @ 234°	17:32	38 min	14:28 @ 85°	02:22 @ 271°	109%
Sat 10.12.2016	08:03	08:41 @ 126°	16:53 @ 234°	17:32	38 min	14:58 @ 78°	03:38 @ 279°	111%
Sun 11.12.2016	08:04	08:42 @ 126°	16:53 @ 234°	17:32	38 min	15:32 @ 71°	04:57 @ 286°	113%
Mon 12.12.2016	08:04	08:43 @ 126°	16:53 @ 234°	17:32	39 min	16:12 @ 65°	06:16 @ 292°	113%
Tue 13.12.2016	08:05	08:44 @ 126°	16:53 @ 234°	17:32	39 min	16:60 @ 62°	07:32 @ 297°	113%
Wed 14.12.2016	08:06	08:45 @ 126°	16:54 @ 234°	17:32	39 min	17:56 @ 60°	08:43 @ 300°	112%
Thu 15.12.2016	08:07	08:45 @ 127°	16:54 @ 234°	17:32	38 min	18:59 @ 61°	09:46 @ 300°	110%
Fr 16.12.2016	08:08	08:46 @ 127°	16:54 @ 233°	17:33	38 min	20:08 @ 63°	10:37 @ 298°	107%
Sat 17.12.2016	08:08	08:47 @ 127°	16:54 @ 233°	17:33	39 min	21:18 @ 68°	11:20 @ 294°	104%
Sun 18.12.2016	08:09	08:47 @ 127°	16:55 @ 233°	17:33	38 min	22:27 @ 74°	11:55 @ 289°	100%
Mon 19.12.2016	08:09	08:48 @ 127°	16:55 @ 233°	17:34	39 min	23:35 @ 80°	12:24 @ 283°	97%
Tue 20.12.2016	08:10	08:49 @ 127°	16:56 @ 233°	17:34	39 min	---	12:51 @ 277°	95%
Wed 21.12.2016	08:11	08:49 @ 127°	16:56 @ 233°	17:35	38 min	00:41 @ 86°	13:15 @ 270°	93%
Thu 22.12.2016	08:11	08:50 @ 127°	16:57 @ 233°	17:35	39 min	01:45 @ 93°	13:38 @ 264°	91%
Fr 23.12.2016	08:11	08:50 @ 127°	16:57 @ 233°	17:36	39 min	02:47 @ 99°	14:02 @ 258°	90%
Sat 24.12.2016	08:12	08:50 @ 127°	16:58 @ 233°	17:36	38 min	03:49 @ 105°	14:28 @ 253°	89%
Sun 25.12.2016	08:12	08:51 @ 127°	16:59 @ 233°	17:37	39 min	04:50 @ 110°	14:56 @ 248°	89%
Mon 26.12.2016	08:12	08:51 @ 127°	16:59 @ 234°	17:38	39 min	05:50 @ 115°	15:28 @ 244°	89%
Tue 27.12.2016	08:13	08:51 @ 127°	17:00 @ 234°	17:39	38 min	06:48 @ 118°	16:05 @ 241°	90%
Wed 28.12.2016	08:13	08:51 @ 126°	17:01 @ 234°	17:39	38 min	07:43 @ 120°	16:48 @ 240°	91%
Thu 29.12.2016	08:13	08:51 @ 126°	17:02 @ 234°	17:40	38 min	08:34 @ 121°	17:37 @ 240°	93%
Fr 30.12.2016	08:13	08:51 @ 126°	17:03 @ 234°	17:41	38 min	09:20 @ 120°	18:33 @ 241°	94%
Sat 31.12.2016	08:13	08:51 @ 126°	17:04 @ 234°	17:42	38 min	10:01 @ 117°	19:34 @ 245°	96%

Times are local times under consideration of daylight saving time if in use. (Time zone: Europe/Paris | CET | UTC+1 ).

Directions based on True North (Magnetic Declination: -0.0°).

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