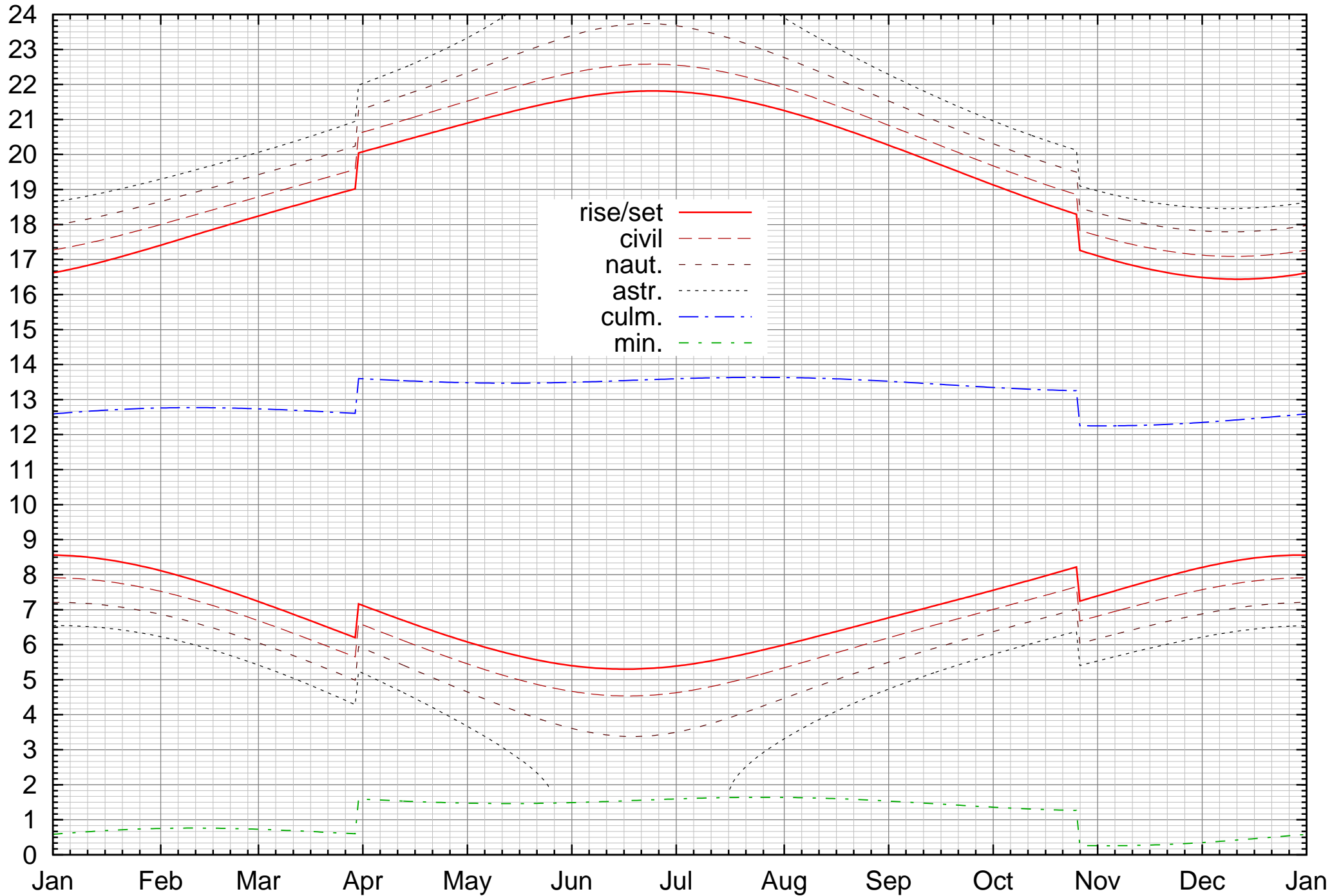
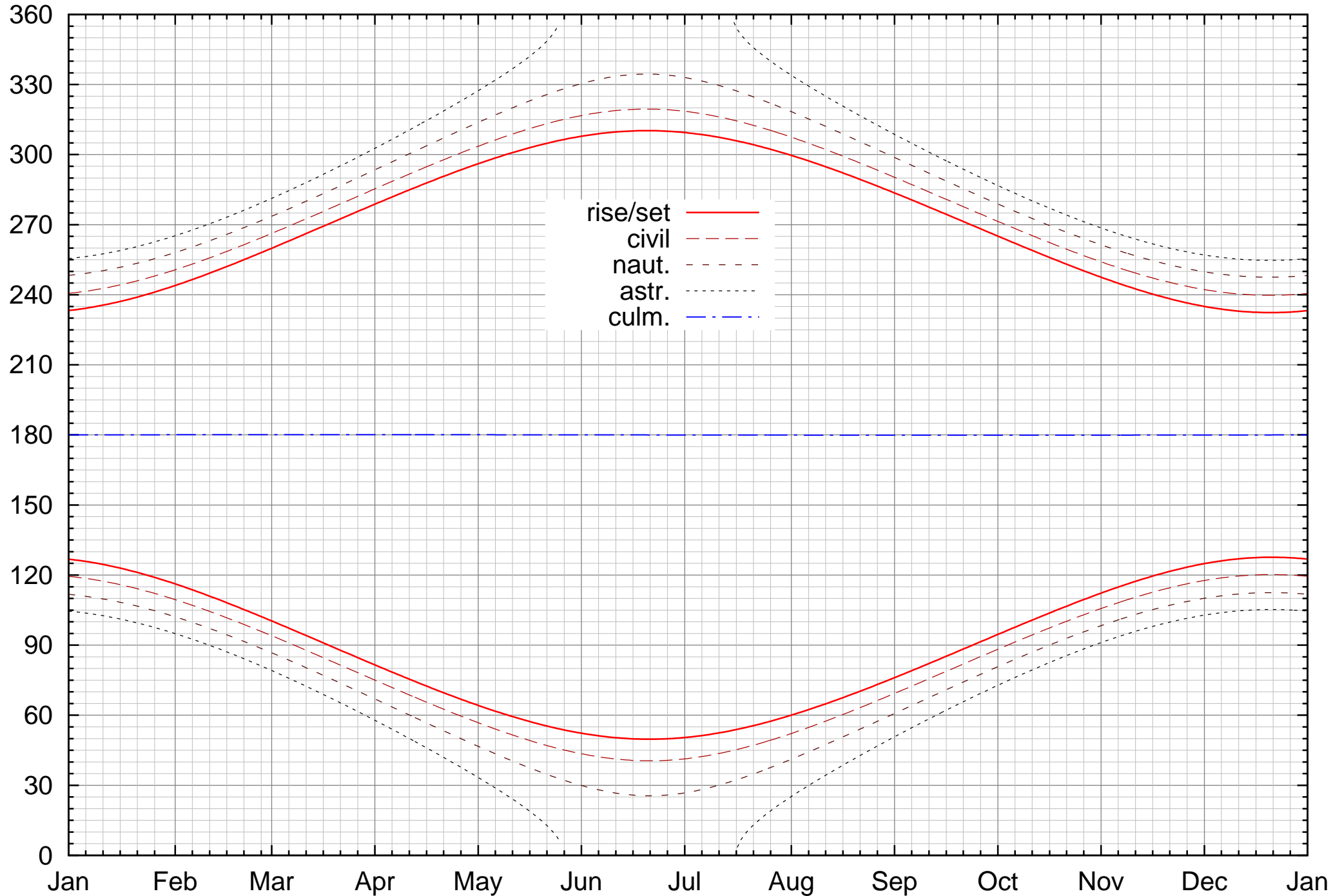


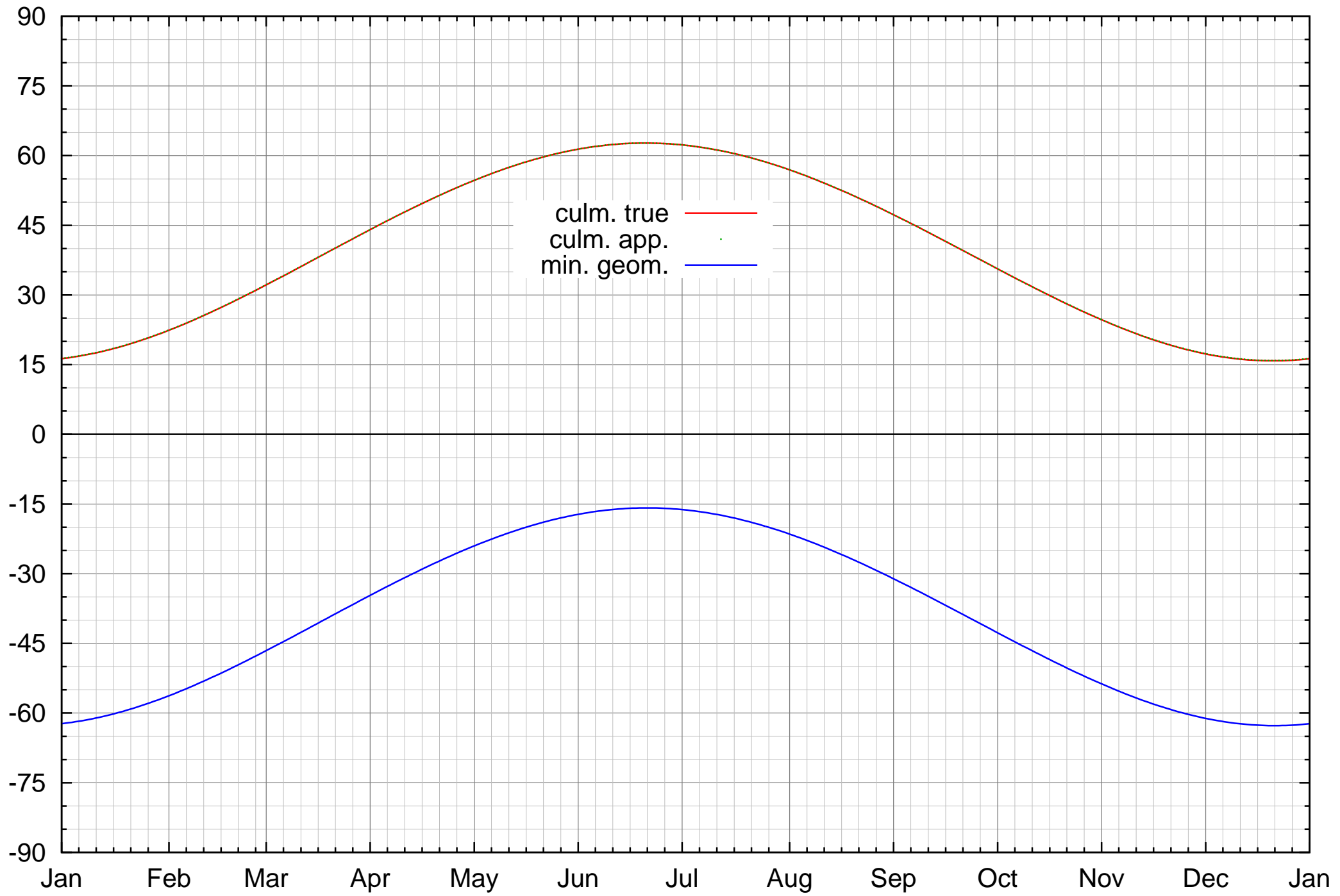
Times / h (for Alfa, Bonn, from 2013-01-01 to 2014-01-01)



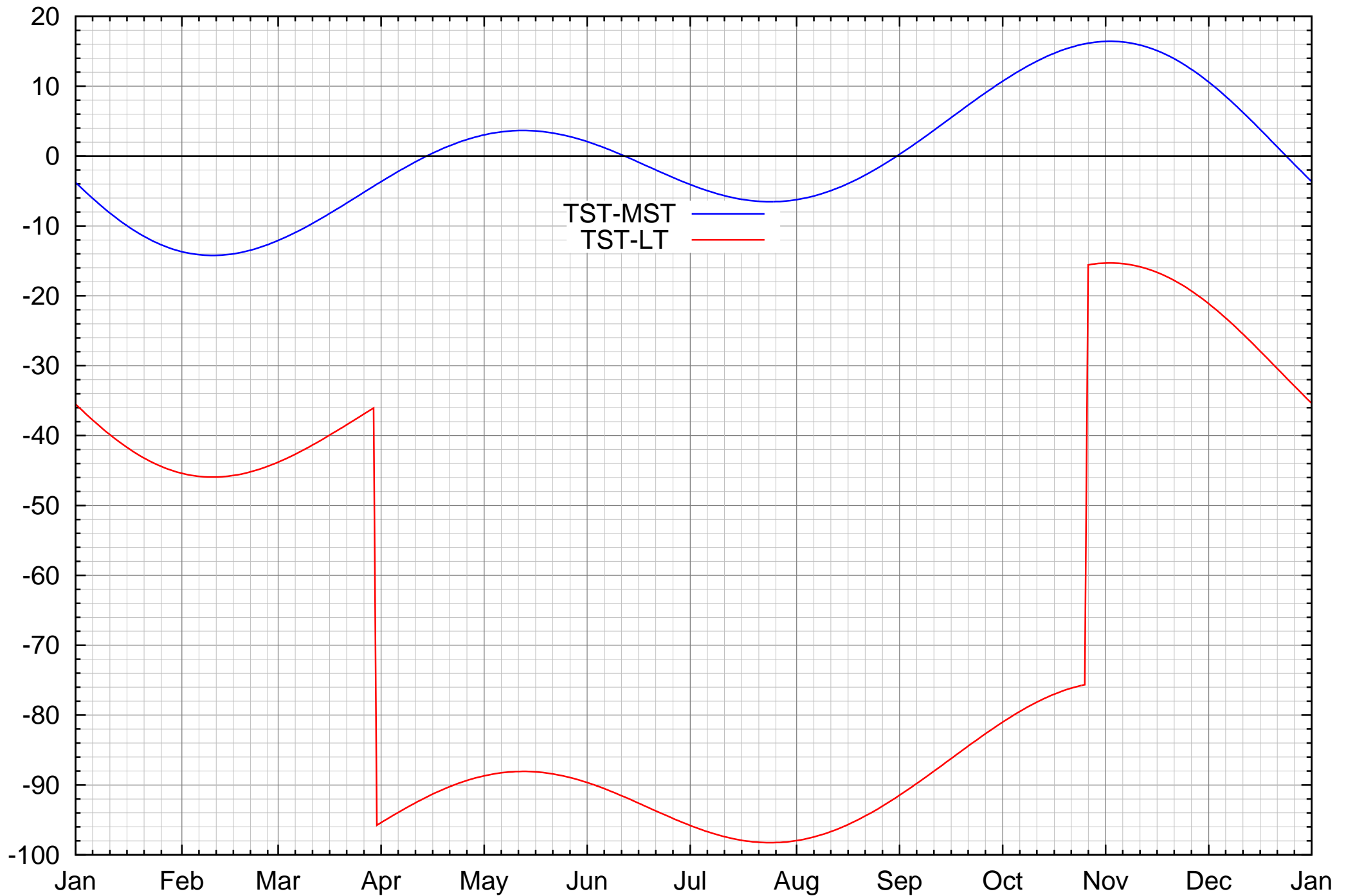
Azimuth positions / deg (for AlfA, Bonn, from 2013-01-01 to 2014-01-01)



Altitudes / deg (for AlfA, Bonn, from 2013-01-01 to 2014-01-01)



Equation of Time (abs., local; min) (for AlfA, Bonn, from 2013-01-01 to 2014-01-01)



Solar Times for AIfA, Bonn, September 2013 (UTC+02)

September	Astr. Dawn	Naut. Dawn	Civil Dawn	Sunrise	Culmination	Sunset	Civil Dusk	Naut. Dusk	Astr. Dusk
Sun, 01	04:43:17	05:29:22	06:11:20	06:45:38	13:31:25	20:16:40	20:50:49	21:32:31	22:18:10
Mon, 02	04:45:33	05:31:14	06:12:59	06:47:11	13:31:06	20:14:29	20:48:32	21:30:01	22:15:18
Tue, 03	04:47:46	05:33:05	06:14:38	06:48:43	13:30:46	20:12:18	20:46:14	21:27:32	22:12:26
Wed, 04	04:49:59	05:34:56	06:16:16	06:50:15	13:30:26	20:10:06	20:43:56	21:25:02	22:09:36
Thu, 05	04:52:10	05:36:46	06:17:54	06:51:47	13:30:06	20:07:54	20:41:39	21:22:33	22:06:47
Fri, 06	04:54:19	05:38:35	06:19:32	06:53:20	13:29:46	20:05:41	20:39:20	21:20:04	22:03:58
Sat, 07	04:56:27	05:40:23	06:21:10	06:54:52	13:29:25	20:03:29	20:37:02	21:17:35	22:01:10
Sun, 08	04:58:34	05:42:11	06:22:47	06:56:24	13:29:04	20:01:15	20:34:44	21:15:06	21:58:24
Mon, 09	05:00:39	05:43:59	06:24:24	06:57:56	13:28:43	19:59:02	20:32:25	21:12:38	21:55:38
Tue, 10	05:02:43	05:45:45	06:26:01	06:59:29	13:28:22	19:56:48	20:30:07	21:10:10	21:52:54
Wed, 11	05:04:46	05:47:32	06:27:38	07:01:01	13:28:01	19:54:33	20:27:48	21:07:43	21:50:10
Thu, 12	05:06:47	05:49:17	06:29:15	07:02:33	13:27:40	19:52:19	20:25:30	21:05:15	21:47:27
Fri, 13	05:08:47	05:51:02	06:30:51	07:04:05	13:27:18	19:50:04	20:23:11	21:02:49	21:44:46
Sat, 14	05:10:47	05:52:46	06:32:27	07:05:38	13:26:57	19:47:50	20:20:53	21:00:22	21:42:05
Sun, 15	05:12:45	05:54:30	06:34:03	07:07:10	13:26:35	19:45:35	20:18:35	20:57:56	21:39:25
Mon, 16	05:14:42	05:56:14	06:35:39	07:08:43	13:26:14	19:43:20	20:16:16	20:55:31	21:36:47
Tue, 17	05:16:37	05:57:56	06:37:14	07:10:15	13:25:52	19:41:04	20:13:58	20:53:06	21:34:09
Wed, 18	05:18:32	05:59:39	06:38:50	07:11:48	13:25:30	19:38:49	20:11:41	20:50:41	21:31:33
Thu, 19	05:20:26	06:01:21	06:40:25	07:13:21	13:25:09	19:36:34	20:09:23	20:48:17	21:28:57
Fri, 20	05:22:19	06:03:02	06:42:00	07:14:54	13:24:48	19:34:19	20:07:05	20:45:54	21:26:23
Sat, 21	05:24:11	06:04:43	06:43:35	07:16:27	13:24:26	19:32:03	20:04:48	20:43:31	21:23:49
Sun, 22	05:26:02	06:06:23	06:45:10	07:18:00	13:24:05	19:29:48	20:02:31	20:41:09	21:21:17
Mon, 23	05:27:52	06:08:03	06:46:45	07:19:33	13:23:44	19:27:33	20:00:15	20:38:47	21:18:46
Tue, 24	05:29:42	06:09:43	06:48:20	07:21:06	13:23:23	19:25:18	19:57:59	20:36:27	21:16:15
Wed, 25	05:31:30	06:11:22	06:49:55	07:22:40	13:23:02	19:23:03	19:55:43	20:34:07	21:13:46
Thu, 26	05:33:18	06:13:01	06:51:29	07:24:14	13:22:41	19:20:49	19:53:27	20:31:47	21:11:19
Fri, 27	05:35:05	06:14:40	06:53:04	07:25:48	13:22:21	19:18:34	19:51:12	20:29:28	21:08:52
Sat, 28	05:36:51	06:16:18	06:54:39	07:27:22	13:22:00	19:16:20	19:48:58	20:27:10	21:06:26
Sun, 29	05:38:36	06:17:56	06:56:13	07:28:56	13:21:40	19:14:06	19:46:44	20:24:53	21:04:02
Mon, 30	05:40:21	06:19:34	06:57:48	07:30:31	13:21:20	19:11:53	19:44:30	20:22:37	21:01:39

Solar Times for AIfA, Bonn, October 2013 (UTC+02)

October	Astr. Dawn	Naut. Dawn	Civil Dawn	Sunrise	Culmination	Sunset	Civil Dusk	Naut. Dusk	Astr. Dusk
Tue, 01	05:42:05	06:21:11	06:59:22	07:32:05	13:21:01	19:09:39	19:42:17	20:20:21	20:59:17
Wed, 02	05:43:48	06:22:48	07:00:57	07:33:40	13:20:42	19:07:26	19:40:05	20:18:07	20:56:56
Thu, 03	05:45:31	06:24:25	07:02:32	07:35:16	13:20:23	19:05:14	19:37:53	20:15:53	20:54:37
Fri, 04	05:47:13	06:26:01	07:04:06	07:36:51	13:20:04	19:03:02	19:35:42	20:13:40	20:52:18
Sat, 05	05:48:55	06:27:38	07:05:41	07:38:27	13:19:46	19:00:50	19:33:32	20:11:28	20:50:01
Sun, 06	05:50:36	06:29:14	07:07:16	07:40:03	13:19:29	18:58:39	19:31:22	20:09:17	20:47:46
Mon, 07	05:52:16	06:30:50	07:08:50	07:41:39	13:19:11	18:56:28	19:29:13	20:07:07	20:45:32
Tue, 08	05:53:56	06:32:25	07:10:25	07:43:16	13:18:54	18:54:18	19:27:05	20:04:58	20:43:19
Wed, 09	05:55:36	06:34:01	07:12:00	07:44:53	13:18:38	18:52:09	19:24:57	20:02:51	20:41:07
Thu, 10	05:57:15	06:35:36	07:13:35	07:46:30	13:18:21	18:50:00	19:22:51	20:00:44	20:38:57
Fri, 11	05:58:53	06:37:11	07:15:10	07:48:08	13:18:06	18:47:52	19:20:45	19:58:38	20:36:48
Sat, 12	06:00:31	06:38:46	07:16:45	07:49:45	13:17:51	18:45:44	19:18:40	19:56:34	20:34:41
Sun, 13	06:02:09	06:40:21	07:18:21	07:51:23	13:17:36	18:43:37	19:16:36	19:54:30	20:32:35
Mon, 14	06:03:46	06:41:56	07:19:56	07:53:02	13:17:22	18:41:31	19:14:33	19:52:28	20:30:31
Tue, 15	06:05:23	06:43:30	07:21:31	07:54:40	13:17:09	18:39:26	19:12:31	19:50:28	20:28:28
Wed, 16	06:06:59	06:45:04	07:23:07	07:56:19	13:16:56	18:37:21	19:10:30	19:48:28	20:26:27
Thu, 17	06:08:35	06:46:39	07:24:43	07:57:59	13:16:44	18:35:18	19:08:31	19:46:30	20:24:27
Fri, 18	06:10:11	06:48:13	07:26:18	07:59:38	13:16:32	18:33:15	19:06:32	19:44:33	20:22:29
Sat, 19	06:11:46	06:49:47	07:27:54	08:01:18	13:16:21	18:31:13	19:04:35	19:42:37	20:20:32
Sun, 20	06:13:20	06:51:21	07:29:30	08:02:59	13:16:10	18:29:13	19:02:38	19:40:43	20:18:37
Mon, 21	06:14:55	06:52:55	07:31:06	08:04:39	13:16:01	18:27:13	19:00:43	19:38:50	20:16:44
Tue, 22	06:16:29	06:54:28	07:32:42	08:06:20	13:15:52	18:25:14	18:58:49	19:36:59	20:14:53
Wed, 23	06:18:03	06:56:02	07:34:18	08:08:01	13:15:43	18:23:17	18:56:56	19:35:09	20:13:03
Thu, 24	06:19:36	06:57:35	07:35:55	08:09:42	13:15:35	18:21:20	18:55:05	19:33:21	20:11:15
Fri, 25	06:21:09	06:59:08	07:37:31	08:11:23	13:15:28	18:19:25	18:53:15	19:31:34	20:09:28
Sat, 26	06:22:42	07:00:41	07:39:07	08:13:05	13:15:22	18:17:31	18:51:27	19:29:49	20:07:44
Sun, 27	05:24:14	06:02:14	06:40:44	07:14:47	12:15:17	17:15:39	17:49:40	18:28:05	19:06:01
Mon, 28	05:25:46	06:03:47	06:42:20	07:16:29	12:15:12	17:13:47	17:47:54	18:26:24	19:04:20
Tue, 29	05:27:17	06:05:20	06:43:57	07:18:12	12:15:08	17:11:57	17:46:10	18:24:44	19:02:41
Wed, 30	05:28:49	06:06:52	06:45:33	07:19:54	12:15:05	17:10:09	17:44:28	18:23:05	19:01:04
Thu, 31	05:30:20	06:08:24	06:47:09	07:21:37	12:15:02	17:08:22	17:42:47	18:21:29	18:59:29

Shabbat Times for Aifa, Bonn, 2013

Candle lighting: Friday evening, 18 minutes before Sunset.
 End of Shabbat: Saturday evening, Sun 8.5 deg. below horizon.

Friday	Candle lighting	Sunset	Saturday	Sunset	End of Shabbat
Jan 04	16:22	16:40:41	Jan 05	16:41:52	17:38
Jan 11	16:31	16:49:44	Jan 12	16:51:09	17:46
Jan 18	16:42	17:00:15	Jan 19	17:01:50	17:56
Jan 25	16:53	17:11:47	Jan 26	17:13:29	18:06
Feb 01	17:05	17:23:54	Feb 02	17:25:40	18:17
Feb 08	17:18	17:36:18	Feb 09	17:38:05	18:28
Feb 15	17:30	17:48:44	Feb 16	17:50:30	18:40
Feb 22	17:43	18:01:02	Feb 23	18:02:46	18:52
Mar 01	17:55	18:13:08	Mar 02	18:14:50	19:03
Mar 08	18:06	18:24:59	Mar 09	18:26:40	19:15
Mar 15	18:18	18:36:39	Mar 16	18:38:18	19:26
Mar 22	18:30	18:48:09	Mar 23	18:49:47	19:38
Mar 29	18:41	18:59:33	Mar 30	19:01:10	19:50
Apr 05	19:52	20:10:53	Apr 06	20:12:30	21:03
Apr 12	20:04	20:22:12	Apr 13	20:23:50	21:15
Apr 19	20:15	20:33:31	Apr 20	20:35:08	21:28
Apr 26	20:26	20:44:47	Apr 27	20:46:23	21:42
May 03	20:37	20:55:53	May 04	20:57:27	21:55
May 10	20:48	21:06:42	May 11	21:08:12	22:08
May 17	20:58	21:16:58	May 18	21:18:22	22:21
May 24	21:08	21:26:23	May 25	21:27:39	22:33
May 31	21:16	21:34:37	Jun 01	21:35:40	22:44
Jun 07	21:23	21:41:16	Jun 08	21:42:04	22:52
Jun 14	21:27	21:45:59	Jun 15	21:46:29	22:58
Jun 21	21:30	21:48:29	Jun 22	21:48:39	23:00
Jun 28	21:30	21:48:34	Jun 29	21:48:23	22:59
Jul 05	21:28	21:46:13	Jul 06	21:45:41	22:55
Jul 12	21:23	21:41:28	Jul 13	21:40:37	22:47
Jul 19	21:16	21:34:32	Jul 20	21:33:23	22:38
Jul 26	21:07	21:25:39	Jul 27	21:24:14	22:26
Aug 02	20:57	21:15:03	Aug 03	21:13:25	22:12
Aug 09	20:45	21:03:03	Aug 10	21:01:14	21:58
Aug 16	20:31	20:49:52	Aug 17	20:47:55	21:42
Aug 23	20:17	20:35:47	Aug 24	20:33:42	21:26
Aug 30	20:02	20:20:59	Aug 31	20:18:50	21:10
Sep 06	19:47	20:05:41	Sep 07	20:03:29	20:53
Sep 13	19:32	19:50:04	Sep 14	19:47:50	20:37
Sep 20	19:16	19:34:19	Sep 21	19:32:03	20:20
Sep 27	19:00	19:18:34	Sep 28	19:16:20	20:04
Oct 04	18:45	19:03:02	Oct 05	19:00:50	19:49
Oct 11	18:29	18:47:52	Oct 12	18:45:44	19:34
Oct 18	18:15	18:33:15	Oct 19	18:31:13	19:20
Oct 25	18:01	18:19:25	Oct 26	18:17:31	19:07
Nov 01	16:48	17:06:36	Nov 02	17:04:52	17:55
Nov 08	16:37	16:55:03	Nov 09	16:53:31	17:45
Nov 15	16:27	16:45:03	Nov 16	16:43:46	17:37
Nov 22	16:18	16:36:54	Nov 23	16:35:54	17:30
Nov 29	16:12	16:30:55	Nov 30	16:30:15	17:25
Dec 06	16:09	16:27:21	Dec 07	16:27:03	17:23
Dec 13	16:08	16:26:24	Dec 14	16:26:30	17:23
Dec 20	16:10	16:28:09	Dec 21	16:28:37	17:25
Dec 27	16:14	16:32:31	Dec 28	16:33:21	17:30