Times of the Day in Jewish Law
for
Paris, France
(48.87N, 2.33E, GMT + 1hr)

Prepared May 4, 2000 by

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All times given are *standard* time and must be corrected for daylight savings time, when appropriate. Detailed explanations of the various entries in the table can be found in *Halachic Times for Home and Travel* by Leo Levi, Rubin Mass, Ltd., Jerusalem, 1992. The precise methods of calculations are described in *Calendrical Calculations*: *The Millennium Edition*, by Edward M. Reingold and Nachum Dershowitz, Cambridge University Press, Cambridge, 2000.

TIMES OF PRAYERS

(SMALL CAPS refer to column headings in the tables.)

Prayer (*Shulḥan ʻArukh O.Ḥ.* section)	Earliest[1]		Latest[2]	
	Extenuating Circumstances	Ordinary Circumstances	Ordinary Circumstances	Extenuating Circumstances
Talit/tzitzit with blessing (18)	DAWN (RAMBAM)	RECOGNITION	SUN SET	DUSK (VILNA GAON)
Tefillin (30)	Upon awakening	RECOGNITION	SUN SET	DUSK (RABENU TAM)[3]
Morning *shema* (58)	DAWN (RAMBAM)	RECOGNITION	SHEMA (VILNA GAON)	1 HALAKHIC HOUR (VILNA GAON) after SHEMA (VILNA GAON)
Shaḥarit (89)	DAWN (EARLY)	RECOGNITION[4]	1 HALAKHIC HOUR (VILNA GAON) after SHEMA (VILNA GAON)	NOON
Musaf (286)	SUN RISE	After *shaḥarit*	1 HALAKHIC HOUR (VILNA GAON) after NOON	SUN SET
Minḥa (233)	1/2 HALAKHIC HOUR (VILNA GAON) after NOON		SUN SET	DUSK (72 MIN.)
Arvit (235)	PLAG MINḤA	PLAG MINḤA[5]	DAWN (RAMBAM)	SUN RISE
Evening *shema* (235)	DUSK (VILNA GAON)	SHABBAT ENDS	12 hours after NOON	SUN RISE

[1]The tables are prone to error by up to one day (0–2 minutes) plus one minute; to be certain, these times should be delayed by that amount.

[2]To be certain, these times should be moved up 1–3 minutes, as in the previous note.

[3]Without blessing.

[4]Preferably, after SUN RISE.

[5]Ideally, either PLAG MINḤA or SUN SET should separate *minḥa* from *arvit*.

JANUARY

	Dawn				Shema					Dusk				Halakhic Hour				
Date	Early	Rambam	Recognition	Sun Rise	Magen Avraham	Vilna Gaon	Noon	Plag Minḥa	Sun Set	Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham	Candle Lighting	Shabbat Ends	Date
1	6:38	7:01	7:34	8:44	9:46	10:49	12:54	16:12	17:04	17:32	17:41	18:48	19:11	42	63	16:46	17:58	1
2	6:38	7:01	7:34	8:44	9:46	10:49	12:55	16:13	17:05	17:33	17:42	18:48	19:12	42	63	16:47	17:59	2
3	6:38	7:01	7:34	8:44	9:46	10:50	12:55	16:14	17:06	17:34	17:43	18:49	19:13	42	63	16:48	18:00	3
4	6:38	7:01	7:34	8:44	9:47	10:50	12:56	16:15	17:07	17:35	17:44	18:50	19:14	42	63	16:49	18:01	4
5	6:38	7:01	7:33	8:44	9:47	10:50	12:56	16:16	17:09	17:36	17:45	18:51	19:15	42	63	16:51	18:02	5
6	6:38	7:01	7:33	8:44	9:47	10:50	12:56	16:17	17:10	17:37	17:46	18:52	19:16	42	63	16:52	18:03	6
7	6:37	7:01	7:33	8:43	9:47	10:50	12:57	16:18	17:11	17:38	17:47	18:53	19:17	42	63	16:53	18:04	7
8	6:37	7:01	7:33	8:43	9:47	10:50	12:57	16:19	17:12	17:39	17:48	18:54	19:18	42	63	16:54	18:06	8
9	6:37	7:00	7:33	8:42	9:48	10:50	12:58	16:20	17:13	17:41	17:49	18:55	19:19	43	63	16:55	18:07	9
10	6:37	7:00	7:32	8:42	9:48	10:50	12:58	16:21	17:15	17:42	17:50	18:56	19:20	43	64	16:57	18:08	10
11	6:37	7:00	7:32	8:42	9:48	10:50	12:59	16:22	17:16	17:43	17:52	18:58	19:21	43	64	16:58	18:09	11
12	6:36	7:00	7:32	8:41	9:48	10:50	12:59	16:23	17:17	17:44	17:53	18:59	19:22	43	64	16:59	18:10	12
13	6:36	6:59	7:31	8:40	9:48	10:50	12:59	16:25	17:19	17:46	17:54	19:00	19:23	43	64	17:01	18:11	13
14	6:36	6:59	7:31	8:40	9:48	10:50	13:00	16:26	17:20	17:47	17:55	19:01	19:24	43	64	17:02	18:13	14
15	6:35	6:58	7:30	8:39	9:48	10:50	13:00	16:27	17:21	17:48	17:57	19:02	19:25	44	64	17:03	18:14	15
16	6:35	6:58	7:30	8:38	9:48	10:49	13:00	16:28	17:23	17:50	17:58	19:03	19:27	44	64	17:05	18:15	16
17	6:34	6:57	7:29	8:38	9:48	10:49	13:01	16:29	17:24	17:51	17:59	19:05	19:28	44	64	17:06	18:17	17
18	6:34	6:57	7:29	8:37	9:47	10:49	13:01	16:31	17:26	17:52	18:01	19:06	19:29	44	65	17:08	18:18	18
19	6:33	6:56	7:28	8:36	9:47	10:49	13:01	16:32	17:27	17:54	18:02	19:07	19:30	44	65	17:09	18:19	19
20	6:32	6:55	7:27	8:35	9:47	10:48	13:02	16:33	17:29	17:55	18:04	19:08	19:32	44	65	17:11	18:21	20
21	6:32	6:55	7:26	8:34	9:47	10:48	13:02	16:34	17:30	17:57	18:05	19:10	19:33	45	65	17:12	18:22	21
22	6:31	6:54	7:26	8:33	9:47	10:48	13:02	16:36	17:32	17:58	18:06	19:11	19:34	45	65	17:14	18:23	22
23	6:30	6:53	7:25	8:32	9:47	10:47	13:03	16:37	17:33	18:00	18:08	19:12	19:35	45	65	17:15	18:25	23
24	6:29	6:52	7:24	8:31	9:46	10:47	13:03	16:38	17:35	18:01	18:09	19:14	19:37	45	66	17:17	18:26	24
25	6:29	6:52	7:23	8:30	9:46	10:47	13:03	16:40	17:37	18:03	18:11	19:15	19:38	46	66	17:19	18:28	25
26	6:28	6:51	7:22	8:29	9:46	10:46	13:03	16:41	17:38	18:04	18:12	19:16	19:39	46	66	17:20	18:29	26
27	6:27	6:50	7:21	8:28	9:45	10:46	13:03	16:42	17:40	18:06	18:14	19:18	19:41	46	66	17:22	18:30	27
28	6:26	6:49	7:20	8:26	9:45	10:45	13:04	16:44	17:41	18:07	18:15	19:19	19:42	46	66	17:23	18:32	28
29	6:25	6:48	7:19	8:25	9:45	10:45	13:04	16:45	17:43	18:09	18:17	19:21	19:43	46	67	17:25	18:33	29
30	6:24	6:47	7:18	8:24	9:44	10:44	13:04	16:46	17:45	18:10	18:18	19:22	19:45	47	67	17:27	18:35	30
31	6:23	6:46	7:17	8:23	9:44	10:44	13:04	16:48	17:46	18:12	18:20	19:23	19:46	47	67	17:28	18:36	31

FEBRUARY

Date	Dawn		Recognition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1	6:22	6:44	7:16	8:21	9:43	10:43	13:04	16:49	17:48	18:13	18:21	19:25	19:48	47	67	17:30	18:38	1
2	6:21	6:43	7:14	8:20	9:43	10:42	13:04	16:50	17:50	18:15	18:23	19:26	19:49	47	67	17:32	18:39	2
3	6:19	6:42	7:13	8:18	9:42	10:42	13:05	16:52	17:51	18:16	18:24	19:28	19:50	48	68	17:33	18:41	3
4	6:18	6:41	7:12	8:17	9:42	10:41	13:05	16:53	17:53	18:18	18:26	19:29	19:52	48	68	17:35	18:42	4
5	6:17	6:40	7:11	8:16	9:41	10:40	13:05	16:54	17:54	18:19	18:27	19:30	19:53	48	68	17:36	18:44	5
6	6:16	6:38	7:09	8:14	9:40	10:40	13:05	16:55	17:56	18:21	18:29	19:32	19:55	49	68	17:38	18:45	6
7	6:14	6:37	7:08	8:13	9:40	10:39	13:05	16:57	17:58	18:23	18:31	19:33	19:56	49	68	17:40	18:47	7
8	6:13	6:36	7:07	8:11	9:39	10:38	13:05	16:58	17:59	18:24	18:32	19:35	19:58	49	69	17:41	18:48	8
9	6:12	6:34	7:05	8:09	9:38	10:37	13:05	16:59	18:01	18:26	18:34	19:36	19:59	49	69	17:43	18:50	9
10	6:10	6:33	7:04	8:08	9:38	10:37	13:05	17:01	18:03	18:27	18:35	19:38	20:01	50	69	17:45	18:51	10
11	6:09	6:31	7:02	8:06	9:37	10:36	13:05	17:02	18:04	18:29	18:37	19:39	20:02	50	69	17:46	18:53	11
12	6:07	6:30	7:01	8:05	9:36	10:35	13:05	17:03	18:06	18:31	18:38	19:41	20:03	50	70	17:48	18:55	12
13	6:06	6:28	6:59	8:03	9:36	10:34	13:05	17:05	18:08	18:32	18:40	19:42	20:05	50	70	17:50	18:56	13
14	6:04	6:27	6:58	8:01	9:35	10:33	13:05	17:06	18:09	18:34	18:42	19:44	20:06	51	70	17:51	18:58	14
15	6:03	6:25	6:56	7:59	9:34	10:32	13:05	17:07	18:11	18:35	18:43	19:45	20:08	51	70	17:53	18:59	15
16	6:01	6:24	6:54	7:58	9:33	10:31	13:05	17:09	18:13	18:37	18:45	19:47	20:09	51	71	17:55	19:01	16
17	5:59	6:22	6:53	7:56	9:32	10:30	13:05	17:10	18:14	18:38	18:46	19:48	20:11	52	71	17:56	19:02	17
18	5:58	6:20	6:51	7:54	9:31	10:30	13:05	17:11	18:16	18:40	18:48	19:50	20:12	52	71	17:58	19:04	18
19	5:56	6:19	6:49	7:52	9:31	10:29	13:05	17:12	18:18	18:42	18:49	19:51	20:14	52	71	18:00	19:05	19
20	5:54	6:17	6:48	7:50	9:30	10:28	13:04	17:14	18:19	18:43	18:51	19:53	20:16	52	72	18:01	19:07	20
21	5:53	6:15	6:46	7:49	9:29	10:27	13:04	17:15	18:21	18:45	18:52	19:54	20:17	53	72	18:03	19:08	21
22	5:51	6:14	6:44	7:47	9:28	10:26	13:04	17:16	18:22	18:46	18:54	19:56	20:19	53	72	18:04	19:10	22
23	5:49	6:12	6:42	7:45	9:27	10:25	13:04	17:17	18:24	18:48	18:56	19:57	20:20	53	73	18:06	19:11	23
24	5:47	6:10	6:41	7:43	9:26	10:24	13:04	17:19	18:26	18:49	18:57	19:59	20:22	54	73	18:08	19:13	24
25	5:45	6:08	6:39	7:41	9:25	10:23	13:04	17:20	18:27	18:51	18:59	20:00	20:23	54	73	18:09	19:14	25
26	5:43	6:06	6:37	7:39	9:24	10:22	13:04	17:21	18:29	18:53	19:00	20:02	20:25	54	73	18:11	19:16	26
27	5:42	6:04	6:35	7:37	9:23	10:21	13:03	17:22	18:30	18:54	19:02	20:03	20:26	54	74	18:12	19:18	27
28	5:40	6:02	6:33	7:35	9:22	10:19	13:03	17:24	18:32	18:56	19:03	20:05	20:28	55	74	18:14	19:19	28

MARCH

Date	Dawn		Recognition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1	5:38	6:01	6:31	7:33	9:21	10:18	13:03	17:25	18:34	18:57	19:05	20:07	20:30	55	74	18:16	19:21	1
2	5:36	5:59	6:29	7:31	9:20	10:17	13:03	17:26	18:35	18:59	19:06	20:08	20:31	55	75	18:17	19:22	2
3	5:34	5:57	6:27	7:29	9:18	10:16	13:03	17:27	18:37	19:00	19:08	20:10	20:33	56	75	18:19	19:24	3
4	5:32	5:55	6:25	7:27	9:17	10:15	13:02	17:28	18:38	19:02	19:10	20:11	20:34	56	75	18:20	19:25	4
5	5:30	5:53	6:23	7:25	9:16	10:14	13:02	17:30	18:40	19:03	19:11	20:13	20:36	56	76	18:22	19:27	5
6	5:27	5:51	6:21	7:23	9:15	10:13	13:02	17:31	18:42	19:05	19:13	20:14	20:38	57	76	18:24	19:28	6
7	5:25	5:49	6:19	7:21	9:14	10:12	13:02	17:32	18:43	19:07	19:14	20:16	20:39	57	76	18:25	19:30	7
8	5:23	5:46	6:17	7:19	9:13	10:11	13:01	17:33	18:45	19:08	19:16	20:18	20:41	57	76	18:27	19:31	8
9	5:21	5:44	6:15	7:17	9:11	10:09	13:01	17:34	18:46	19:10	19:17	20:19	20:43	57	77	18:28	19:33	9
10	5:19	5:42	6:13	7:15	9:10	10:08	13:01	17:36	18:48	19:11	19:19	20:21	20:44	58	77	18:30	19:34	10
11	5:17	5:40	6:11	7:13	9:09	10:07	13:01	17:37	18:49	19:13	19:20	20:22	20:46	58	77	18:31	19:36	11
12	5:14	5:38	6:09	7:11	9:08	10:06	13:00	17:38	18:51	19:14	19:22	20:24	20:48	58	78	18:33	19:38	12
13	5:12	5:36	6:07	7:09	9:07	10:05	13:00	17:39	18:52	19:16	19:23	20:26	20:49	59	78	18:34	19:39	13
14	5:10	5:34	6:05	7:07	9:05	10:04	13:00	17:40	18:54	19:17	19:25	20:27	20:51	59	78	18:36	19:41	14
15	5:08	5:31	6:03	7:05	9:04	10:02	13:00	17:41	18:55	19:19	19:26	20:29	20:53	59	79	18:37	19:42	15
16	5:05	5:29	6:01	7:03	9:03	10:01	12:59	17:43	18:57	19:20	19:28	20:31	20:55	60	79	18:39	19:44	16
17	5:03	5:27	5:59	7:01	9:01	10:00	12:59	17:44	18:58	19:22	19:29	20:32	20:56	60	79	18:40	19:45	17
18	5:01	5:25	5:56	6:58	9:00	9:59	12:59	17:45	19:00	19:23	19:31	20:34	20:58	60	80	18:42	19:47	18
19	4:58	5:23	5:54	6:56	8:59	9:58	12:58	17:46	19:02	19:25	19:33	20:36	21:00	60	80	18:44	19:48	19
20	4:56	5:20	5:52	6:54	8:57	9:56	12:58	17:47	19:03	19:26	19:34	20:37	21:02	61	80	18:45	19:50	20
21	4:54	5:18	5:50	6:52	8:56	9:55	12:58	17:48	19:05	19:28	19:36	20:39	21:04	61	81	18:47	19:52	21
22	4:51	5:16	5:48	6:50	8:55	9:54	12:58	17:49	19:06	19:29	19:37	20:41	21:06	61	81	18:48	19:53	22
23	4:49	5:13	5:45	6:48	8:53	9:53	12:57	17:51	19:08	19:31	19:39	20:43	21:07	62	82	18:50	19:55	23
24	4:46	5:11	5:43	6:46	8:52	9:52	12:57	17:52	19:09	19:33	19:40	20:44	21:09	62	82	18:51	19:56	24
25	4:44	5:09	5:41	6:44	8:51	9:50	12:57	17:53	19:11	19:34	19:42	20:46	21:11	62	82	18:53	19:58	25
26	4:41	5:06	5:39	6:42	8:49	9:49	12:56	17:54	19:12	19:36	19:43	20:48	21:13	63	83	18:54	19:59	26
27	4:39	5:04	5:37	6:40	8:48	9:48	12:56	17:55	19:14	19:37	19:45	20:50	21:15	63	83	18:56	20:01	27
28	4:36	5:02	5:34	6:37	8:46	9:47	12:56	17:56	19:15	19:39	19:46	20:51	21:17	63	83	18:57	20:03	28
29	4:34	4:59	5:32	6:35	8:45	9:46	12:55	17:57	19:17	19:40	19:48	20:53	21:19	63	84	18:59	20:04	29
30	4:31	4:57	5:30	6:33	8:44	9:44	12:55	17:58	19:18	19:42	19:50	20:55	21:21	64	84	19:00	20:06	30
31	4:29	4:54	5:28	6:31	8:42	9:43	12:55	18:00	19:20	19:43	19:51	20:57	21:23	64	85	19:02	20:07	31

APRIL

Date	Dawn		Recognition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1	4:26	4:52	5:25	6:29	8:41	9:42	12:55	18:01	19:21	19:45	19:53	20:59	21:25	64	85	19:03	20:09	1
2	4:23	4:50	5:23	6:27	8:39	9:41	12:54	18:02	19:23	19:46	19:54	21:00	21:27	65	85	19:05	20:11	2
3	4:21	4:47	5:21	6:25	8:38	9:40	12:54	18:03	19:24	19:48	19:56	21:02	21:29	65	86	19:06	20:12	3
4	4:18	4:45	5:19	6:23	8:36	9:38	12:54	18:04	19:26	19:49	19:57	21:04	21:31	65	86	19:08	20:14	4
5	4:15	4:42	5:16	6:21	8:35	9:37	12:53	18:05	19:27	19:51	19:59	21:06	21:33	66	86	19:09	20:15	5
6	4:13	4:40	5:14	6:19	8:33	9:36	12:53	18:06	19:29	19:53	20:00	21:08	21:35	66	87	19:11	20:17	6
7	4:10	4:37	5:12	6:17	8:32	9:35	12:53	18:07	19:30	19:54	20:02	21:10	21:37	66	87	19:12	20:19	7
8	4:07	4:35	5:09	6:15	8:30	9:34	12:53	18:09	19:32	19:56	20:04	21:12	21:40	66	88	19:14	20:20	8
9	4:05	4:32	5:07	6:12	8:29	9:33	12:52	18:10	19:33	19:57	20:05	21:14	21:42	67	88	19:15	20:22	9
10	4:02	4:30	5:05	6:10	8:27	9:31	12:52	18:11	19:35	19:59	20:07	21:16	21:44	67	89	19:17	20:24	10
11	3:59	4:27	5:03	6:08	8:26	9:30	12:52	18:12	19:36	20:00	20:08	21:18	21:46	67	89	19:18	20:25	11
12	3:56	4:25	5:00	6:06	8:24	9:29	12:51	18:13	19:38	20:02	20:10	21:20	21:49	68	89	19:20	20:27	12
13	3:53	4:22	4:58	6:04	8:23	9:28	12:51	18:14	19:39	20:03	20:12	21:22	21:51	68	90	19:21	20:29	13
14	3:51	4:20	4:56	6:02	8:21	9:27	12:51	18:15	19:41	20:05	20:13	21:24	21:53	68	90	19:23	20:30	14
15	3:48	4:17	4:54	6:00	8:20	9:26	12:51	18:16	19:42	20:07	20:15	21:26	21:56	68	91	19:24	20:32	15
16	3:45	4:15	4:51	5:58	8:18	9:25	12:50	18:18	19:43	20:08	20:16	21:28	21:58	69	91	19:25	20:34	16
17	3:42	4:12	4:49	5:57	8:17	9:24	12:50	18:19	19:45	20:10	20:18	21:30	22:00	69	92	19:27	20:35	17
18	3:39	4:10	4:47	5:55	8:15	9:23	12:50	18:20	19:46	20:11	20:20	21:32	22:03	69	92	19:28	20:37	18
19	3:36	4:07	4:45	5:53	8:14	9:21	12:50	18:21	19:48	20:13	20:21	21:34	22:05	70	92	19:30	20:39	19
20	3:33	4:05	4:42	5:51	8:12	9:20	12:50	18:22	19:49	20:15	20:23	21:36	22:08	70	93	19:31	20:41	20
21	3:30	4:02	4:40	5:49	8:10	9:19	12:49	18:23	19:51	20:16	20:24	21:38	22:10	70	93	19:33	20:42	21
22	3:27	4:00	4:38	5:47	8:09	9:18	12:49	18:24	19:52	20:18	20:26	21:41	22:13	70	94	19:34	20:44	22
23	3:25	3:57	4:36	5:45	8:07	9:17	12:49	18:26	19:54	20:19	20:28	21:43	22:16	71	94	19:36	20:46	23
24	3:22	3:54	4:33	5:43	8:06	9:16	12:49	18:27	19:55	20:21	20:29	21:45	22:18	71	95	19:37	20:47	24
25	3:19	3:52	4:31	5:41	8:04	9:15	12:49	18:28	19:57	20:22	20:31	21:47	22:21	71	95	19:39	20:49	25
26	3:15	3:49	4:29	5:40	8:03	9:14	12:48	18:29	19:58	20:24	20:33	21:49	22:24	72	96	19:40	20:51	26
27	3:12	3:47	4:27	5:38	8:01	9:13	12:48	18:30	20:00	20:26	20:34	21:52	22:27	72	96	19:42	20:53	27
28	3:09	3:44	4:25	5:36	7:59	9:12	12:48	18:31	20:01	20:27	20:36	21:54	22:29	72	97	19:43	20:54	28
29	3:06	3:42	4:23	5:34	7:58	9:11	12:48	18:32	20:03	20:29	20:38	21:56	22:32	72	97	19:45	20:56	29
30	3:03	3:39	4:20	5:32	7:56	9:10	12:48	18:33	20:04	20:30	20:39	21:59	22:35	73	98	19:46	20:58	30

MAY

Date	Dawn		Recognition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1	3:00	3:37	4:18	5:31	7:54	9:10	12:48	18:35	20:06	20:32	20:41	22:01	22:38	73	98	19:48	21:00	1
2	2:57	3:34	4:16	5:29	7:53	9:09	12:48	18:36	20:07	20:34	20:42	22:03	22:41	73	99	19:49	21:01	2
3	2:54	3:31	4:14	5:27	7:51	9:08	12:48	18:37	20:09	20:35	20:44	22:06	22:44	73	99	19:51	21:03	3
4	2:50	3:29	4:12	5:26	7:50	9:07	12:47	18:38	20:10	20:37	20:46	22:08	22:47	74	100	19:52	21:05	4
5	2:47	3:26	4:10	5:24	7:48	9:06	12:47	18:39	20:12	20:38	20:47	22:10	22:50	74	100	19:54	21:06	5
6	2:44	3:24	4:08	5:23	7:46	9:05	12:47	18:40	20:13	20:40	20:49	22:13	22:54	74	101	19:55	21:08	6
7	2:40	3:21	4:06	5:21	7:44	9:04	12:47	18:41	20:14	20:41	20:50	22:15	22:57	74	101	19:56	21:10	7
8	2:37	3:19	4:04	5:19	7:43	9:04	12:47	18:42	20:16	20:43	20:52	22:17	23:00	75	102	19:58	21:12	8
9	2:34	3:16	4:02	5:18	7:41	9:03	12:47	18:44	20:17	20:44	20:54	22:20	23:04	75	103	19:59	21:13	9
10	2:30	3:14	4:00	5:16	7:39	9:02	12:47	18:45	20:19	20:46	20:55	22:22	23:07	75	103	20:01	21:15	10
11	2:27	3:11	3:58	5:15	7:38	9:01	12:47	18:46	20:20	20:47	20:57	22:25	23:11	75	104	20:02	21:17	11
12	2:23	3:09	3:56	5:13	7:36	9:00	12:47	18:47	20:21	20:49	20:58	22:27	23:14	76	104	20:03	21:19	12
13	2:19	3:06	3:54	5:12	7:34	9:00	12:47	18:48	20:23	20:50	21:00	22:30	23:18	76	105	20:05	21:20	13
14	2:16	3:04	3:52	5:11	7:32	8:59	12:47	18:49	20:24	20:52	21:01	22:32	23:22	76	106	20:06	21:22	14
15	2:12	3:01	3:51	5:09	7:30	8:58	12:47	18:50	20:25	20:53	21:03	22:35	23:26	76	106	20:07	21:24	15
16	2:08	2:59	3:49	5:08	7:28	8:58	12:47	18:51	20:27	20:55	21:04	22:37	23:30	77	107	20:09	21:25	16
17	2:04	2:57	3:47	5:07	7:26	8:57	12:47	18:52	20:28	20:56	21:06	22:40	23:34	77	107	20:10	21:27	17
18	2:00	2:54	3:45	5:05	7:24	8:56	12:47	18:53	20:29	20:58	21:07	22:42	23:38	77	108	20:11	21:28	18
19	1:56	2:52	3:44	5:04	7:22	8:56	12:47	18:54	20:31	20:59	21:09	22:45	23:43	77	109	20:13	21:30	19
20	1:51	2:49	3:42	5:03	7:20	8:55	12:47	18:55	20:32	21:01	21:10	22:47	23:47	77	110	20:14	21:32	20
21	1:47	2:47	3:40	5:02	7:18	8:55	12:47	18:56	20:33	21:02	21:12	22:49	23:52	78	110	20:15	21:33	21
22	1:42	2:45	3:39	5:01	7:16	8:54	12:47	18:57	20:35	21:03	21:13	22:52	23:58	78	111	20:17	21:35	22
23	1:37	2:42	3:37	5:00	7:13	8:54	12:47	18:58	20:36	21:05	21:15	22:54	0:04	78	112	20:18	21:36	23
24	1:31	2:40	3:35	4:59	7:11	8:53	12:47	18:59	20:37	21:06	21:16	22:57	0:10	78	113	20:19	21:38	24
25	1:25	2:38	3:34	4:58	7:08	8:53	12:48	19:00	20:38	21:07	21:17	22:59	0:18	78	114	20:20	21:39	25
26	1:17	2:36	3:33	4:57	7:05	8:52	12:48	19:01	20:39	21:09	21:19	23:02	0:27	79	116	20:21	21:41	26
27	1:08	2:33	3:31	4:56		8:52	12:48	19:02	20:40	21:10	21:20	23:04		79		20:22	21:42	27
28		2:31	3:30	4:55		8:52	12:48	19:03	20:41	21:11	21:21	23:06		79		20:23	21:44	28
29		2:29	3:29	4:54		8:51	12:48	19:04	20:43	21:12	21:22	23:09		79		20:25	21:45	29
30		2:27	3:27	4:53		8:51	12:48	19:05	20:44	21:13	21:24	23:11		79		20:26	21:46	30
31		2:25	3:26	4:53		8:51	12:48	19:05	20:45	21:15	21:25	23:13		79		20:27	21:47	31

Paris, France (48.87N, 2.33E, GMT + 1hr)

Prepared May 4, 2000

JUNE

Date	Dawn		Recog-nition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1		2:23	3:25	4:52		8:50	12:48	19:06	20:46	21:16	21:26	23:15		79		20:28	21:49	1
2		2:21	3:24	4:51		8:50	12:49	19:07	20:47	21:17	21:27	23:18		80		20:29	21:50	2
3		2:19	3:23	4:51		8:50	12:49	19:08	20:47	21:18	21:28	23:20		80		20:29	21:51	3
4		2:18	3:22	4:50		8:50	12:49	19:09	20:48	21:19	21:29	23:22		80		20:30	21:52	4
5		2:16	3:21	4:49		8:49	12:49	19:09	20:49	21:20	21:30	23:24		80		20:31	21:53	5
6		2:14	3:20	4:49		8:49	12:49	19:10	20:50	21:21	21:31	23:26		80		20:32	21:54	6
7		2:13	3:19	4:48		8:49	12:49	19:11	20:51	21:21	21:32	23:28		80		20:33	21:55	7
8		2:11	3:18	4:48		8:49	12:50	19:11	20:52	21:22	21:33	23:29		80		20:34	21:56	8
9		2:10	3:18	4:48		8:49	12:50	19:12	20:52	21:23	21:34	23:31		80		20:34	21:57	9
10		2:09	3:17	4:47		8:49	12:50	19:12	20:53	21:24	21:35	23:33		80		20:35	21:58	10
11		2:07	3:17	4:47		8:49	12:50	19:13	20:54	21:25	21:35	23:34		81		20:36	21:59	11
12		2:06	3:16	4:47		8:49	12:50	19:14	20:54	21:25	21:36	23:36		81		20:36	22:00	12
13		2:05	3:16	4:47		8:49	12:51	19:14	20:55	21:26	21:37	23:37		81		20:37	22:00	13
14		2:04	3:15	4:47		8:49	12:51	19:14	20:55	21:26	21:37	23:38		81		20:37	22:01	14
15		2:04	3:15	4:46		8:49	12:51	19:15	20:56	21:27	21:38	23:39		81		20:38	22:02	15
16		2:03	3:15	4:46		8:49	12:51	19:15	20:56	21:27	21:38	23:40		81		20:38	22:02	16
17		2:03	3:15	4:46		8:49	12:52	19:16	20:57	21:28	21:39	23:41		81		20:39	22:03	17
18		2:02	3:15	4:46		8:49	12:52	19:16	20:57	21:28	21:39	23:42		81		20:39	22:03	18
19		2:02	3:15	4:47		8:49	12:52	19:16	20:57	21:29	21:39	23:42		81		20:39	22:03	19
20		2:02	3:15	4:47		8:49	12:52	19:17	20:58	21:29	21:40	23:42		81		20:40	22:04	20
21		2:02	3:15	4:47		8:50	12:52	19:17	20:58	21:29	21:40	23:43		81		20:40	22:04	21
22		2:02	3:15	4:47		8:50	12:53	19:17	20:58	21:29	21:40	23:43		81		20:40	22:04	22
23		2:03	3:15	4:47		8:50	12:53	19:17	20:58	21:29	21:40	23:43		81		20:40	22:04	23
24		2:03	3:16	4:48		8:50	12:53	19:17	20:58	21:29	21:40	23:43		81		20:40	22:04	24
25		2:04	3:16	4:48		8:51	12:53	19:17	20:58	21:29	21:40	23:42		81		20:40	22:04	25
26		2:05	3:17	4:48		8:51	12:53	19:17	20:58	21:29	21:40	23:42		81		20:40	22:04	26
27		2:05	3:17	4:49		8:51	12:54	19:17	20:58	21:29	21:40	23:41		81		20:40	22:04	27
28		2:06	3:18	4:49		8:52	12:54	19:17	20:58	21:29	21:40	23:40		81		20:40	22:04	28
29		2:08	3:19	4:50		8:52	12:54	19:17	20:58	21:29	21:40	23:40		81		20:40	22:03	29
30		2:09	3:19	4:50		8:52	12:54	19:17	20:58	21:29	21:39	23:39		81		20:40	22:03	30

JULY

Date	Dawn		Recognition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1		2:10	3:20	4:51		8:53	12:54	19:17	20:58	21:28	21:39	23:38		81		20:40	22:03	1
2		2:12	3:21	4:52		8:53	12:55	19:17	20:57	21:28	21:39	23:36		80		20:39	22:02	2
3		2:13	3:22	4:52		8:53	12:55	19:17	20:57	21:28	21:38	23:35		80		20:39	22:02	3
4		2:15	3:23	4:53		8:54	12:55	19:16	20:57	21:27	21:38	23:34		80		20:39	22:01	4
5		2:17	3:24	4:54		8:54	12:55	19:16	20:56	21:27	21:37	23:32		80		20:38	22:01	5
6		2:19	3:25	4:54		8:55	12:55	19:16	20:56	21:26	21:37	23:31		80		20:38	22:00	6
7		2:20	3:26	4:55		8:55	12:56	19:15	20:55	21:26	21:36	23:29		80		20:37	21:59	7
8		2:22	3:27	4:56		8:56	12:56	19:15	20:55	21:25	21:36	23:27		80		20:37	21:58	8
9		2:24	3:29	4:57		8:56	12:56	19:15	20:54	21:24	21:35	23:26		80		20:36	21:58	9
10		2:27	3:30	4:58		8:57	12:56	19:14	20:54	21:24	21:34	23:24		80		20:36	21:57	10
11		2:29	3:31	4:59		8:57	12:56	19:14	20:53	21:23	21:33	23:22		80		20:35	21:56	11
12		2:31	3:33	5:00		8:58	12:56	19:13	20:52	21:22	21:32	23:20		79		20:34	21:55	12
13		2:33	3:34	5:01		8:58	12:56	19:12	20:51	21:21	21:31	23:18		79		20:33	21:54	13
14		2:35	3:36	5:02		8:59	12:56	19:12	20:51	21:20	21:30	23:16		79		20:33	21:53	14
15		2:38	3:37	5:03		9:00	12:57	19:11	20:50	21:19	21:29	23:14		79		20:32	21:52	15
16		2:40	3:39	5:04		9:00	12:57	19:10	20:49	21:18	21:28	23:12	0:40	79		20:31	21:50	16
17	1:14	2:42	3:40	5:05	7:03	9:01	12:57	19:10	20:48	21:17	21:27	23:09	0:29	79	116	20:30	21:49	17
18	1:25	2:45	3:42	5:06	7:09	9:01	12:57	19:09	20:47	21:16	21:26	23:07	0:22	78	115	20:29	21:48	18
19	1:32	2:47	3:43	5:07	7:13	9:02	12:57	19:08	20:46	21:15	21:25	23:05	0:15	78	114	20:28	21:47	19
20	1:39	2:49	3:45	5:08	7:17	9:02	12:57	19:07	20:45	21:14	21:24	23:03	0:09	78	113	20:27	21:45	20
21	1:45	2:52	3:47	5:10	7:20	9:03	12:57	19:07	20:44	21:13	21:22	23:00	0:04	78	112	20:26	21:44	21
22	1:50	2:54	3:48	5:11	7:23	9:04	12:57	19:06	20:43	21:11	21:21	22:58	23:59	78	111	20:25	21:42	22
23	1:55	2:57	3:50	5:12	7:25	9:04	12:57	19:05	20:42	21:10	21:20	22:56	23:54	77	110	20:24	21:41	23
24	2:00	2:59	3:52	5:13	7:28	9:05	12:57	19:04	20:40	21:09	21:18	22:53	23:50	77	109	20:22	21:39	24
25	2:05	3:01	3:53	5:14	7:30	9:06	12:57	19:03	20:39	21:07	21:17	22:51	23:46	77	108	20:21	21:38	25
26	2:09	3:04	3:55	5:16	7:32	9:06	12:57	19:02	20:38	21:06	21:16	22:48	23:42	77	108	20:20	21:36	26
27	2:13	3:06	3:57	5:17	7:34	9:07	12:57	19:01	20:37	21:05	21:14	22:46	23:38	77	107	20:19	21:35	27
28	2:17	3:09	3:59	5:18	7:36	9:07	12:57	19:00	20:35	21:03	21:13	22:44	23:34	76	106	20:17	21:33	28
29	2:21	3:11	4:01	5:19	7:38	9:08	12:57	18:59	20:34	21:02	21:11	22:41	23:30	76	106	20:16	21:31	29
30	2:25	3:14	4:02	5:21	7:40	9:09	12:57	18:58	20:33	21:00	21:09	22:39	23:26	76	105	20:15	21:30	30
31	2:28	3:16	4:04	5:22	7:42	9:09	12:57	18:56	20:31	20:59	21:08	22:36	23:22	76	104	20:13	21:28	31

AUGUST

Date	Dawn		Recognition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1	2:32	3:18	4:06	5:23	7:44	9:10	12:57	18:55	20:30	20:57	21:06	22:34	23:19	76	104	20:12	21:26	1
2	2:36	3:21	4:08	5:25	7:45	9:11	12:57	18:54	20:28	20:55	21:05	22:31	23:15	75	103	20:10	21:24	2
3	2:39	3:23	4:10	5:26	7:47	9:11	12:57	18:53	20:27	20:54	21:03	22:29	23:12	75	103	20:09	21:23	3
4	2:42	3:25	4:11	5:27	7:49	9:12	12:57	18:52	20:25	20:52	21:01	22:26	23:08	75	102	20:07	21:21	4
5	2:46	3:28	4:13	5:29	7:50	9:13	12:57	18:50	20:24	20:50	20:59	22:24	23:05	75	102	20:06	21:19	5
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31	3:55	4:23	4:59	6:05	8:22	9:28	12:51	18:11	19:36	20:00	20:08	21:17	21:46	68	89	19:18	20:25	31

SEPTEMBER

Date	Dawn		Recog-nition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1	3:57	4:25	5:01	6:07	8:23	9:29	12:51	18:10	19:34	19:58	20:06	21:15	21:43	67	89	19:16	20:23	1
2	3:59	4:27	5:03	6:08	8:24	9:29	12:50	18:08	19:32	19:56	20:04	21:12	21:40	67	88	19:14	20:20	2
3	4:01	4:29	5:04	6:10	8:25	9:30	12:50	18:06	19:29	19:54	20:01	21:10	21:37	67	88	19:11	20:18	3
4	4:03	4:31	5:06	6:11	8:26	9:30	12:50	18:04	19:27	19:51	19:59	21:07	21:35	66	88	19:09	20:16	4
5	4:05	4:33	5:07	6:13	8:27	9:31	12:49	18:03	19:25	19:49	19:57	21:05	21:32	66	87	19:07	20:14	5
6	4:07	4:35	5:09	6:14	8:28	9:31	12:49	18:01	19:23	19:47	19:55	21:02	21:29	66	87	19:05	20:12	6
7	4:09	4:36	5:11	6:15	8:29	9:32	12:49	17:59	19:21	19:45	19:53	21:00	21:26	65	86	19:03	20:09	7
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10	4:15	4:42	5:16	6:20	8:31	9:33	12:48	17:54	19:15	19:39	19:46	20:52	21:18	65	85	18:57	20:03	10
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OCTOBER

Date	Dawn		Recog-nition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1	4:53	5:16	5:48	6:50	8:46	9:45	12:40	17:17	18:30	18:54	19:01	20:03	20:27	58	78	18:12	19:17	1
2	4:54	5:18	5:49	6:51	8:47	9:45	12:40	17:16	18:28	18:51	18:59	20:01	20:25	58	78	18:10	19:15	2
3	4:56	5:20	5:51	6:53	8:48	9:46	12:40	17:14	18:26	18:49	18:57	19:59	20:22	58	77	18:08	19:13	3
4	4:58	5:21	5:52	6:54	8:48	9:47	12:39	17:12	18:24	18:47	18:55	19:57	20:20	57	77	18:06	19:11	4
5	4:59	5:23	5:54	6:56	8:49	9:47	12:39	17:10	18:22	18:45	18:53	19:55	20:18	57	77	18:04	19:09	5
6	5:01	5:24	5:55	6:57	8:49	9:48	12:39	17:09	18:20	18:43	18:51	19:53	20:16	57	76	18:02	19:06	6
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31	5:38	6:01	6:31	7:35	9:06	10:05	12:34	16:30	17:32	17:57	18:05	19:07	19:30	50	69	17:14	18:21	31

NOVEMBER

Date	Dawn		Recog-nition	Sun Rise	Shema		Noon	Plag Minḥa	Sun Set	Dusk				Halakhic Hour		Candle Lighting	Shabbat Ends	Date
	Early	Rambam			Magen Avraham	Vilna Gaon				Vilna Gaon	Rav of Ladi	72 Min	Rabenu Tam	Vilna Gaon	Magen Avraham			
1	5:39	6:02	6:33	7:37	9:07	10:05	12:34	16:29	17:31	17:55	18:03	19:06	19:28	49	69	17:13	18:19	1
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23	6:08	6:31	7:03	8:11	9:23	10:24	12:37	16:07	17:02	17:29	17:37	18:42	19:05	44	65	16:44	17:54	23
24	6:10	6:33	7:05	8:13	9:23	10:25	12:37	16:06	17:01	17:28	17:36	18:42	19:05	44	65	16:43	17:53	24
25	6:11	6:34	7:06	8:14	9:24	10:26	12:38	16:06	17:01	17:27	17:36	18:41	19:04	44	64	16:43	17:53	25
26	6:12	6:35	7:07	8:16	9:25	10:27	12:38	16:05	17:00	17:27	17:35	18:40	19:04	44	64	16:42	17:52	26
27	6:13	6:36	7:08	8:17	9:26	10:28	12:38	16:05	16:59	17:26	17:34	18:40	19:03	43	64	16:41	17:52	27
28	6:14	6:37	7:09	8:18	9:26	10:28	12:39	16:04	16:58	17:25	17:34	18:39	19:03	43	64	16:40	17:51	28
29	6:15	6:39	7:11	8:20	9:27	10:29	12:39	16:04	16:58	17:25	17:33	18:39	19:02	43	64	16:40	17:51	29
30	6:16	6:40	7:12	8:21	9:28	10:30	12:39	16:03	16:57	17:24	17:33	18:39	19:02	43	64	16:39	17:50	30

DECEMBER

Date	Dawn: Early	Dawn: Rambam	Recognition	Sun Rise	Shema: Magen Avraham	Shema: Vilna Gaon	Noon	Plag Minḥa	Sun Set	Dusk: Vilna Gaon	Dusk: Rav of Ladi	Dusk: 72 Min	Dusk: Rabenu Tam	Halakhic Hour: Vilna Gaon	Halakhic Hour: Magen Avraham	Candle Lighting	Shabbat Ends	Date
1	6:17	6:41	7:13	8:22	9:28	10:31	12:40	16:03	16:57	17:24	17:32	18:38	19:02	43	64	16:39	17:50	1
2	6:19	6:42	7:14	8:24	9:29	10:32	12:40	16:03	16:56	17:23	17:32	18:38	19:01	43	64	16:38	17:49	2
3	6:20	6:43	7:15	8:25	9:30	10:33	12:40	16:02	16:56	17:23	17:32	18:38	19:01	43	63	16:38	17:49	3
4	6:21	6:44	7:16	8:26	9:31	10:33	12:41	16:02	16:55	17:23	17:31	18:37	19:01	42	63	16:37	17:49	4
5	6:22	6:45	7:17	8:27	9:31	10:34	12:41	16:02	16:55	17:22	17:31	18:37	19:01	42	63	16:37	17:48	5
6	6:23	6:46	7:18	8:29	9:32	10:35	12:42	16:02	16:55	17:22	17:31	18:37	19:01	42	63	16:37	17:48	6
7	6:23	6:47	7:19	8:30	9:33	10:36	12:42	16:02	16:54	17:22	17:31	18:37	19:00	42	63	16:36	17:48	7
8	6:24	6:48	7:20	8:31	9:33	10:37	12:43	16:02	16:54	17:22	17:30	18:37	19:00	42	63	16:36	17:48	8
9	6:25	6:49	7:21	8:32	9:34	10:37	12:43	16:02	16:54	17:22	17:30	18:37	19:00	42	63	16:36	17:48	9
10	6:26	6:50	7:22	8:33	9:35	10:38	12:43	16:02	16:54	17:22	17:30	18:37	19:00	42	63	16:36	17:48	10
11	6:27	6:51	7:23	8:34	9:35	10:39	12:44	16:02	16:54	17:22	17:30	18:37	19:01	42	63	16:36	17:48	11
12	6:28	6:51	7:24	8:35	9:36	10:39	12:44	16:02	16:54	17:22	17:30	18:37	19:01	42	63	16:36	17:48	12
13	6:29	6:52	7:25	8:36	9:37	10:40	12:45	16:02	16:54	17:22	17:30	18:37	19:01	42	63	16:36	17:48	13
14	6:29	6:53	7:26	8:37	9:37	10:41	12:45	16:02	16:54	17:22	17:31	18:37	19:01	41	63	16:36	17:48	14
15	6:30	6:54	7:26	8:37	9:38	10:42	12:46	16:02	16:54	17:22	17:31	18:38	19:01	41	63	16:36	17:48	15
16	6:31	6:54	7:27	8:38	9:39	10:42	12:46	16:03	16:54	17:22	17:31	18:38	19:02	41	63	16:36	17:49	16
17	6:32	6:55	7:28	8:39	9:39	10:43	12:47	16:03	16:55	17:22	17:31	18:38	19:02	41	63	16:37	17:49	17
18	6:32	6:56	7:28	8:40	9:40	10:43	12:47	16:03	16:55	17:23	17:32	18:39	19:02	41	63	16:37	17:49	18
19	6:33	6:56	7:29	8:40	9:40	10:44	12:48	16:04	16:55	17:23	17:32	18:39	19:03	41	62	16:37	17:50	19
20	6:33	6:57	7:30	8:41	9:41	10:44	12:48	16:04	16:56	17:24	17:32	18:39	19:03	41	62	16:38	17:50	20
21	6:34	6:57	7:30	8:41	9:41	10:45	12:49	16:05	16:56	17:24	17:33	18:40	19:03	41	62	16:38	17:51	21
22	6:34	6:58	7:31	8:42	9:42	10:46	12:49	16:05	16:57	17:25	17:33	18:40	19:04	41	62	16:39	17:51	22
23	6:35	6:58	7:31	8:42	9:42	10:46	12:50	16:06	16:57	17:25	17:34	18:41	19:05	41	62	16:39	17:52	23
24	6:35	6:59	7:32	8:43	9:43	10:46	12:50	16:06	16:58	17:26	17:34	18:42	19:05	41	62	16:40	17:52	24
25	6:36	6:59	7:32	8:43	9:43	10:47	12:51	16:07	16:58	17:26	17:35	18:42	19:06	41	62	16:40	17:53	25
26	6:36	7:00	7:32	8:43	9:44	10:47	12:51	16:07	16:59	17:27	17:36	18:43	19:06	41	63	16:41	17:53	26
27	6:36	7:00	7:33	8:44	9:44	10:48	12:52	16:08	17:00	17:28	17:36	18:43	19:07	41	63	16:42	17:54	27
28	6:37	7:00	7:33	8:44	9:44	10:48	12:52	16:09	17:01	17:28	17:37	18:44	19:08	41	63	16:43	17:55	28
29	6:37	7:00	7:33	8:44	9:45	10:48	12:53	16:10	17:01	17:29	17:38	18:45	19:08	41	63	16:43	17:56	29
30	6:37	7:01	7:33	8:44	9:45	10:49	12:53	16:10	17:02	17:30	17:39	18:46	19:09	42	63	16:44	17:56	30
31	6:37	7:01	7:33	8:44	9:46	10:49	12:54	16:11	17:03	17:31	17:40	18:47	19:10	42	63	16:45	17:57	31

TIMES OF RITUAL OBSERVANCES

(Small Caps refer to column headings in the tables.)

Observance	Earliest		Latest	
(*Shulḥan ‘Arukh O.Ḥ.* section)	Extenuating Circumstances	Ordinary Circumstances	Ordinary Circumstances	Extenuating Circumstances
Candle lighting/ *shabbat* begins (263)	Plag Minḥa	Somewhat before Candle Lighting	Shortly after Candle Lighting	5 minutes before Sun Set
Shabbat ends (293)	2 minutes before Shabbat Ends	Shabbat Ends		
Havdala (293, 299)	Plag Minḥa[1]	Shabbat Ends	Dawn (Rambam)	Sun Set Tuesday[2]
Searching *hametz* (431, 435)	Sun Set	Dusk (Vilna Gaon)	Late evening	End of Passover
Eating *hametz* (443)			1 Halakhic Hour (Vilna Gaon) after Shema (Vilna Gaon)	
Burning *hametz* (443)	After search	1 Halakhic Hour (Vilna Gaon) after Shema (Vilna Gaon)	Noon[3]	Candle lighting
Counting *omer* (489)	Sun Set	Shabbat Ends	Sun Rise	Following Dusk (Rabenu Tam)[4]
Tisha b’Av (553)	Begins at Sun Set and ends at Dusk (Vilna Gaon)			
Minor fasts (562, 564)	Begin at Dawn (Rambam) and end at Dusk (Vilna Gaon)			
Yom Kippur (608, 624)	Begins and ends like *shabbat*			
Hanukkah lights[5] (672)	Plag Minḥa	Sun Set	30 minutes after Dusk (Rabenu Tam)	Dawn (Rambam)
Evening *megilla* (687, 692)	Plag Minḥa	Dusk (Vilna Gaon)	Dawn (Rambam)	
Shofar, lulav, daytime *megilla* (588, 652, 687)	Dawn (Rambam)	Sun Rise	Sun Set	Dusk (Rabenu Tam)[4]

[1] Without candle, since it is still *shabbat*!

[2] Without candle or spices.

[3] *Kol ḥamira* should be said at least an hour earlier.

[4] Without blessing.

[5] On Saturday, after Shabbat Ends; on Friday, prior to lighting *shabbat* candles.

EXPLANATION OF THE COLUMNS

(SMALL CAPS refer to column headings in the tables.)

Times of day in the tables are *standard* time and must be corrected for daylight savings time, when appropriate. *All entries are subject to an error of one day plus one minute.* At extreme latitutes, some phenomena do not occur; these (and values that depend on them) are left blank. Detailed references and explanations of the various entries in the table can be found in *Halachic Times for Home and Travel* by Leo Levi, Rubin Mass, Ltd., Jerusalem, 1992.

DAWN (EARLY)
: Time of morning when the sun's depression angle is $19°46'$ (= 90 minutes before sunrise in Jerusalem at the equinox).

DAWN (RAMBAM)
: Time of morning when the sun's depression angle is $16°2'$ (= 72 minutes before sunrise in Jerusalem at the equinox). This is the opinion of Maimonides as understood by most experts, with the time depending on the season and location, as measured by the depression angle. Rabbi Ovadia Yosef disagrees and uses 1.2 HALAKHIC HOUR (VILNA GAON) instead.

RECOGNITION
: The point between DAWN and SUN RISE at which one can recognize an acquaintance at a distance of about two meters. It has been found experimentally to correspond to a depression angle of $11°$.

SUNRISE
: Time of morning when the sun's depression angle is $0°50'$ (which is astronomical and halakhic sunrise, when the upper limb of the sun is first visible at sea level). Because of atmospheric variation, it cannot be predicted to greater than 2 minutes accuracy.

SHEMA (MAGEN AVRAHAM)
: One quarter of the way between DAWN (EARLY) and DUSK (RABENU TAM).

SHEMA (VILNA GAON)
: One quarter of the way between SUNRISE and SUNSET.

NOON
: Time when sun is overhead, which is almost identical with the midpoint between SUNRISE and SUNSET. This is contrary to the lone opinion of Rabbi Moses Feinstein (which has additional ramifications).

PLAG MINḤA
: One and a quarter HALAKHIC HOUR (VILNA GAON) before SUNSET.

SUNSET
: Time of evening when the sun's depression angle is $0°50'$ (which is astronomical and halakhic sunset, when the upper limb of the sun is last visible at sea level). Because of atmospheric variation, it cannot be predicted to greater than 2 minutes accuracy.

DUSK (VILNA GAON)
: Time of evening when the sun's depression angle is $4°40'$ (= 18 minutes after sunset in Jerusalem [ignoring elevation] at the equinox). Rabbi Ovadia Yosef uses an even earlier time for early dusk, namely, 13.5 minutes.

DUSK (RAV OF LADI)
: Time of evening when the sun's depression angle $5°55'$ (= 24 minutes after sunset in Jerusalem at the equinox).

DUSK (72 MIN)
: Time of evening when the sun's depression angle is $16°2'$ (= 72 minutes after sunset in Jerusalem at the equinox). This seasonal and latitudinal variation is according to the majority understanding of (one aspect of) Rabbenu Tam's opinion. Customs vary.

DUSK (RABENU TAM)
: Time of evening when the sun's depression angle is $19°46'$ (= 90 minutes after sunset in Jerusalem at the equinox).

HALAKHIC HOUR (VILNA GAON)
: One twelfth of the interval from SUNRISE to SUNSET.

HALAKHIC HOUR (MAGEN AVRAHAM)
: One twelfth of the interval from DAWN (EARLY) to DUSK (RABENU TAM).

CANDLE LIGHTING
: Eighteen minutes before SUNSET; customs vary.

SHABBAT ENDS
: Time of evening when the sun's depression angle is $8°30'$, as per the observed value of Rabbi J. M. Tykocinski. Customs vary.

Standard Times of Shabbat in Paris, France

(48.87N, 2.33E, GMT + 1hr)

Date	January		February		March		April		May		June		Date
	Starts	Ends	Starts	Ends	Starts	Ends	Starts	Ends	Starts	Ends	Starts	Ends	
1	16:46	17:58	17:30	18:38	18:16	19:21	19:03	20:09	19:48	21:00	20:28	21:49	1
2	16:47	17:59	17:32	18:39	18:17	19:22	19:05	20:11	19:49	21:01	20:29	21:50	2
3	16:48	18:00	17:33	18:41	18:19	19:24	19:06	20:12	19:51	21:03	20:29	21:51	3
4	16:49	18:01	17:35	18:42	18:20	19:25	19:08	20:14	19:52	21:05	20:30	21:52	4
5	16:51	18:02	17:36	18:44	18:22	19:27	19:09	20:15	19:54	21:06	20:31	21:53	5
6	16:52	18:03	17:38	18:45	18:24	19:28	19:11	20:17	19:55	21:08	20:32	21:54	6
7	16:53	18:04	17:40	18:47	18:25	19:30	19:12	20:19	19:56	21:10	20:33	21:55	7
8	16:54	18:06	17:41	18:48	18:27	19:31	19:14	20:20	19:58	21:12	20:34	21:56	8
9	16:55	18:07	17:43	18:50	18:28	19:33	19:15	20:22	19:59	21:13	20:34	21:57	9
10	16:57	18:08	17:45	18:51	18:30	19:34	19:17	20:24	20:01	21:15	20:35	21:58	10
11	16:58	18:09	17:46	18:53	18:31	19:36	19:18	20:25	20:02	21:17	20:36	21:59	11
12	16:59	18:10	17:48	18:55	18:33	19:38	19:20	20:27	20:03	21:19	20:36	22:00	12
13	17:01	18:11	17:50	18:56	18:34	19:39	19:21	20:29	20:05	21:20	20:37	22:00	13
14	17:02	18:13	17:51	18:58	18:36	19:41	19:23	20:30	20:06	21:22	20:37	22:01	14
15	17:03	18:14	17:53	18:59	18:37	19:42	19:24	20:32	20:07	21:24	20:38	22:02	15
16	17:05	18:15	17:55	19:01	18:39	19:44	19:25	20:34	20:09	21:25	20:38	22:02	16
17	17:06	18:17	17:56	19:02	18:40	19:45	19:27	20:35	20:10	21:27	20:39	22:03	17
18	17:08	18:18	17:58	19:04	18:42	19:47	19:28	20:37	20:11	21:28	20:39	22:03	18
19	17:09	18:19	18:00	19:05	18:44	19:48	19:30	20:39	20:13	21:30	20:39	22:03	19
20	17:11	18:21	18:01	19:07	18:45	19:50	19:31	20:41	20:14	21:32	20:40	22:04	20
21	17:12	18:22	18:03	19:08	18:47	19:52	19:33	20:42	20:15	21:33	20:40	22:04	21
22	17:14	18:23	18:04	19:10	18:48	19:53	19:34	20:44	20:17	21:35	20:40	22:04	22
23	17:15	18:25	18:06	19:11	18:50	19:55	19:36	20:46	20:18	21:36	20:40	22:04	23
24	17:17	18:26	18:08	19:13	18:51	19:56	19:37	20:47	20:19	21:38	20:40	22:04	24
25	17:19	18:28	18:09	19:14	18:53	19:58	19:39	20:49	20:20	21:39	20:40	22:04	25
26	17:20	18:29	18:11	19:16	18:54	19:59	19:40	20:51	20:21	21:41	20:40	22:04	26
27	17:22	18:30	18:12	19:18	18:56	20:01	19:42	20:53	20:22	21:42	20:40	22:04	27
28	17:23	18:32	18:14	19:19	18:57	20:03	19:43	20:54	20:23	21:44	20:40	22:04	28
29	17:25	18:33			18:59	20:04	19:45	20:56	20:25	21:45	20:40	22:03	29
30	17:27	18:35			19:00	20:06	19:46	20:58	20:26	21:46	20:40	22:03	30
31	17:28	18:36			19:02	20:07			20:27	21:47			31

Prepared May 4, 2000

Standard Times of Shabbat in Paris, France

(48.87N, 2.33E, GMT + 1hr)

	July		August		September		October		November		December		
Date	Starts	Ends	Starts	Ends	Starts	Ends	Starts	Ends	Starts	Ends	Starts	Ends	Date
1	20:40	22:03	20:12	21:26	19:16	20:23	18:12	19:17	17:13	18:19	16:39	17:50	1
2	20:39	22:02	20:10	21:24	19:14	20:20	18:10	19:15	17:11	18:18	16:38	17:49	2
3	20:39	22:02	20:09	21:23	19:11	20:18	18:08	19:13	17:10	18:16	16:38	17:49	3
4	20:39	22:01	20:07	21:21	19:09	20:16	18:06	19:11	17:08	18:15	16:37	17:49	4
5	20:38	22:01	20:06	21:19	19:07	20:14	18:04	19:09	17:06	18:14	16:37	17:48	5
6	20:38	22:00	20:04	21:17	19:05	20:12	18:02	19:06	17:05	18:12	16:37	17:48	6
7	20:37	21:59	20:02	21:15	19:03	20:09	18:00	19:04	17:03	18:11	16:36	17:48	7
8	20:37	21:58	20:01	21:13	19:01	20:07	17:58	19:02	17:02	18:10	16:36	17:48	8
9	20:36	21:58	19:59	21:11	18:59	20:05	17:56	19:00	17:01	18:08	16:36	17:48	9
10	20:36	21:57	19:57	21:09	18:57	20:03	17:54	18:58	16:59	18:07	16:36	17:48	10
11	20:35	21:56	19:56	21:07	18:55	20:00	17:52	18:56	16:58	18:06	16:36	17:48	11
12	20:34	21:55	19:54	21:05	18:53	19:58	17:50	18:54	16:56	18:05	16:36	17:48	12
13	20:33	21:54	19:52	21:03	18:50	19:56	17:48	18:53	16:55	18:04	16:36	17:48	13
14	20:33	21:53	19:50	21:01	18:48	19:54	17:46	18:51	16:54	18:02	16:36	17:48	14
15	20:32	21:52	19:49	20:59	18:46	19:52	17:44	18:49	16:53	18:01	16:36	17:48	15
16	20:31	21:50	19:47	20:57	18:44	19:49	17:42	18:47	16:51	18:00	16:36	17:49	16
17	20:30	21:49	19:45	20:55	18:42	19:47	17:40	18:45	16:50	17:59	16:37	17:49	17
18	20:29	21:48	19:43	20:53	18:40	19:45	17:38	18:43	16:49	17:58	16:37	17:49	18
19	20:28	21:47	19:41	20:51	18:38	19:43	17:36	18:41	16:48	17:57	16:37	17:50	19
20	20:27	21:45	19:39	20:49	18:36	19:41	17:34	18:39	16:47	17:57	16:38	17:50	20
21	20:26	21:44	19:37	20:47	18:33	19:38	17:32	18:38	16:46	17:56	16:38	17:51	21
22	20:25	21:42	19:36	20:44	18:31	19:36	17:30	18:36	16:45	17:55	16:39	17:51	22
23	20:24	21:41	19:34	20:42	18:29	19:34	17:28	18:34	16:44	17:54	16:39	17:52	23
24	20:22	21:39	19:32	20:40	18:27	19:32	17:27	18:32	16:43	17:53	16:40	17:52	24
25	20:21	21:38	19:30	20:38	18:25	19:30	17:25	18:31	16:43	17:53	16:40	17:53	25
26	20:20	21:36	19:28	20:36	18:23	19:27	17:23	18:29	16:42	17:52	16:41	17:53	26
27	20:19	21:35	19:26	20:34	18:21	19:25	17:21	18:27	16:41	17:52	16:42	17:54	27
28	20:17	21:33	19:24	20:31	18:19	19:23	17:19	18:26	16:40	17:51	16:43	17:55	28
29	20:16	21:31	19:22	20:29	18:16	19:21	17:18	18:24	16:40	17:51	16:43	17:56	29
30	20:15	21:30	19:20	20:27	18:14	19:19	17:16	18:23	16:39	17:50	16:44	17:56	30
31	20:13	21:28	19:18	20:25			17:14	18:21			16:45	17:57	31

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