

TABLE UT – ST, 2025  
 SIDEREAL TIME AT 0<sup>h</sup> U.T.

Date	Sidereal Time		Equation of Equinox	Date	Sidereal Time		Equation of Equinox
	Apparent	Mean	app–mean		Apparent	Mean	app–mean
			(0 <sup>s</sup> 001)				(0 <sup>s</sup> 001)
Jan. 0	6 <sup>h</sup> 39 <sup>m</sup> 39.339 <sup>s</sup>	39.337 <sup>s</sup>	+ 2	Feb. 15	9 <sup>h</sup> 41 <sup>m</sup> 00.987 <sup>s</sup>	00.884 <sup>s</sup>	+ 102
1	6 43 35.905	35.893	+ 12	16	9 44 57.534	57.440	+ 95
2	6 47 32.468	32.448	+ 20	17	9 48 54.083	53.995	+ 88
3	6 51 29.028	29.003	+ 24	18	9 52 50.633	50.550	+ 82
4	6 55 25.584	25.559	+ 25	19	9 56 47.185	47.106	+ 79
5	6 59 22.137	22.114	+ 23	20	10 00 43.739	43.661	+ 78
6	7 03 18.688	18.669	+ 19	21	10 04 40.296	40.216	+ 80
7	7 07 15.240	15.225	+ 15	22	10 08 36.856	36.772	+ 84
8	7 11 11.794	11.780	+ 14	23	10 12 33.417	33.327	+ 90
9	7 15 08.352	08.336	+ 16	24	10 16 29.978	29.883	+ 96
10	7 19 04.914	04.891	+ 23	25	10 20 26.539	26.438	+ 101
11	7 23 01.478	01.446	+ 32	26	10 24 23.097	22.993	+ 103
12	7 26 58.045	58.002	+ 44	27	10 28 19.651	19.549	+ 102
13	7 30 54.612	54.557	+ 55	28	10 32 16.202	16.104	+ 98
14	7 34 51.177	51.112	+ 64	Mar. 1	10 36 12.749	12.659	+ 90
15	7 38 47.739	47.668	+ 71	2	10 40 09.296	09.215	+ 81
16	7 42 44.297	44.223	+ 74	3	10 44 05.844	05.770	+ 74
17	7 46 40.852	40.779	+ 73	4	10 48 02.395	02.326	+ 69
18	7 50 37.404	37.334	+ 70	5	10 51 58.950	58.881	+ 69
19	7 54 33.955	33.889	+ 66	6	10 55 55.509	55.436	+ 73
20	7 58 30.505	30.445	+ 61	7	10 59 52.070	51.992	+ 79
21	8 02 27.057	27.000	+ 57	8	11 03 48.632	48.547	+ 85
22	8 06 23.610	23.555	+ 55	9	11 07 45.193	45.102	+ 91
23	8 10 20.166	20.111	+ 55	10	11 11 41.752	41.658	+ 94
24	8 14 16.724	16.666	+ 58	11	11 15 38.307	38.213	+ 94
25	8 18 13.285	13.221	+ 63	12	11 19 34.859	34.768	+ 91
26	8 22 09.848	09.777	+ 71	13	11 23 31.408	31.324	+ 84
27	8 26 06.412	06.332	+ 80	14	11 27 27.955	27.879	+ 76
28	8 30 02.976	02.888	+ 88	15	11 31 24.502	24.435	+ 67
29	8 33 59.538	59.443	+ 95	16	11 35 21.048	20.990	+ 58
30	8 37 56.097	55.998	+ 99	17	11 39 17.596	17.545	+ 51
31	8 41 52.653	52.554	+ 99	18	11 43 14.146	14.101	+ 45
Feb. 1	8 45 49.204	49.109	+ 95	19	11 47 10.698	10.656	+ 42
2	8 49 45.754	45.664	+ 89	20	11 51 07.253	07.211	+ 42
3	8 53 42.303	42.220	+ 83	21	11 55 03.810	03.767	+ 44
4	8 57 38.854	38.775	+ 79	22	11 59 00.370	00.322	+ 47
5	9 01 35.408	35.331	+ 78	23	12 02 56.929	56.878	+ 52
6	9 05 31.967	31.886	+ 81	24	12 06 53.489	53.433	+ 56
7	9 09 28.528	28.441	+ 87	25	12 10 50.047	49.988	+ 59
8	9 13 25.092	24.997	+ 95	26	12 14 46.602	46.544	+ 58
9	9 17 21.656	21.552	+ 104	27	12 18 43.153	43.099	+ 55
10	9 21 18.218	18.107	+ 111	28	12 22 39.702	39.654	+ 47
11	9 25 14.778	14.663	+ 115	29	12 26 36.248	36.210	+ 38
12	9 29 11.335	11.218	+ 116	30	12 30 32.794	32.765	+ 29
13	9 33 07.888	07.773	+ 114	31	12 34 29.344	29.320	+ 23
14	9 37 04.438	04.329	+ 109	Apr. 1	12 38 25.898	25.876	+ 22
15	9 41 00.987	00.884	+ 102	2	12 42 22.456	22.431	+ 25

Table UT-ST – Sidereal Time at 0<sup>h</sup> UT  
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Date	Sidereal Time		Equation of Equinox	Date	Sidereal Time		Equation of Equinox
	Apparent	Mean	app–mean		Apparent	Mean	app–mean
			(0 <sup>s</sup> .001)				(0 <sup>s</sup> .001)
Apr. 1	12 <sup>h</sup> 38 <sup>m</sup> 25.898 <sup>s</sup>	25.876 <sup>s</sup>	+ 22	May 17	15 <sup>h</sup> 39 <sup>m</sup> 47.462 <sup>s</sup>	47.423 <sup>s</sup>	+ 39
2	12 42 22.456	22.431	+ 25	18	15 43 44.024	43.978	+ 46
3	12 46 19.017	18.987	+ 31	19	15 47 40.584	40.534	+ 50
4	12 50 15.580	15.542	+ 38	20	15 51 37.141	37.089	+ 52
5	12 54 12.142	12.097	+ 44	21	15 55 33.695	33.644	+ 51
6	12 58 08.701	08.653	+ 49	22	15 59 30.246	30.200	+ 47
7	13 02 05.258	05.208	+ 50	23	16 03 26.797	26.755	+ 42
8	13 06 01.811	01.763	+ 48	24	16 07 23.347	23.310	+ 37
9	13 09 58.361	58.319	+ 42	25	16 11 19.901	19.866	+ 36
10	13 13 54.909	54.874	+ 35	26	16 15 16.460	16.421	+ 39
11	13 17 51.456	51.430	+ 27	27	16 19 13.023	12.976	+ 46
12	13 21 48.003	47.985	+ 19	28	16 23 09.590	09.532	+ 58
13	13 25 44.552	44.540	+ 11	29	16 27 06.158	06.087	+ 70
14	13 29 41.102	41.096	+ 6	30	16 31 02.724	02.643	+ 82
15	13 33 37.654	37.651	+ 3	31	16 34 59.288	59.198	+ 90
16	13 37 34.210	34.206	+ 3	June 1	16 38 55.848	55.753	+ 95
17	13 41 30.767	30.762	+ 6	2	16 42 52.404	52.309	+ 96
18	13 45 27.327	27.317	+ 10	3	16 46 48.958	48.864	+ 94
19	13 49 23.888	23.872	+ 15	4	16 50 45.509	45.419	+ 90
20	13 53 20.448	20.428	+ 20	5	16 54 42.060	41.975	+ 86
21	13 57 17.008	16.983	+ 25	6	16 58 38.612	38.530	+ 82
22	14 01 13.565	13.539	+ 26	7	17 02 35.165	35.086	+ 80
23	14 05 10.119	10.094	+ 25	8	17 06 31.720	31.641	+ 80
24	14 09 06.670	06.649	+ 21	9	17 10 28.278	28.196	+ 82
25	14 13 03.218	03.205	+ 14	10	17 14 24.839	24.752	+ 87
26	14 16 59.766	59.760	+ 6	11	17 18 21.402	21.307	+ 95
27	14 20 56.316	56.315	— 0	12	17 22 17.966	17.862	+ 104
28	14 24 52.869	52.871	– 1	13	17 26 14.531	14.418	+ 113
29	14 28 49.428	49.426	+ 2	14	17 30 11.094	10.973	+ 121
30	14 32 45.991	45.982	+ 9	15	17 34 07.656	07.528	+ 128
May 1	14 36 42.556	42.537	+ 19	16	17 38 04.215	04.084	+ 131
2	14 40 39.121	39.092	+ 28	17	17 42 00.771	00.639	+ 132
3	14 44 35.684	35.648	+ 36	18	17 45 57.324	57.195	+ 129
4	14 48 32.244	32.203	+ 41	19	17 49 53.876	53.750	+ 126
5	14 52 28.800	28.758	+ 42	20	17 53 50.427	50.305	+ 122
6	14 56 25.353	25.314	+ 39	21	17 57 46.981	46.861	+ 120
7	15 00 21.904	21.869	+ 35	22	18 01 43.538	43.416	+ 122
8	15 04 18.453	18.424	+ 29	23	18 05 40.100	39.971	+ 129
9	15 08 15.002	14.980	+ 23	24	18 09 36.666	36.527	+ 139
10	15 12 11.552	11.535	+ 17	25	18 13 33.234	33.082	+ 152
11	15 16 08.104	08.091	+ 14	26	18 17 29.802	29.638	+ 165
12	15 20 04.658	04.646	+ 13	27	18 21 26.368	26.193	+ 175
13	15 24 01.215	01.201	+ 14	28	18 25 22.930	22.748	+ 182
14	15 27 57.775	57.757	+ 18	29	18 29 19.489	19.304	+ 185
15	15 31 54.336	54.312	+ 24	30	18 33 16.043	15.859	+ 184
16	15 35 50.899	50.867	+ 32	July 1	18 37 12.596	12.414	+ 181
17	15 39 47.462	47.423	+ 39	2	18 41 09.147	08.970	+ 177

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Date	Sidereal Time		Equation of Equinox	Date	Sidereal Time		Equation of Equinox			
	Apparent	Mean	app–mean		Apparent	Mean	app–mean			
			(0 <sup>o</sup> 001)				(0 <sup>o</sup> 001)			
July	1	18 <sup>h</sup> 37 <sup>m</sup> 12.596 <sup>s</sup>	12.414	+	181	Aug. 16	21 <sup>h</sup> 38 <sup>m</sup> 34.202 <sup>s</sup>	33.961	+	241
	2	18 41 09.147	08.970	+	177		21 42 30.762	30.517	+	245
	3	18 45 05.699	05.525	+	173		21 46 27.325	27.072	+	253
	4	18 49 02.251	02.080	+	171		21 50 23.889	23.627	+	261
	5	18 52 58.806	58.636	+	170		21 54 20.452	20.183	+	269
	6	18 56 55.363	55.191	+	172		21 58 17.013	16.738	+	274
	7	19 00 51.923	51.747	+	176		22 02 13.570	13.294	+	276
	8	19 04 48.485	48.302	+	183		22 06 10.123	09.849	+	274
	9	19 08 45.049	44.857	+	191		22 10 06.673	06.404	+	269
	10	19 12 41.613	41.413	+	200		22 14 03.221	02.960	+	261
	11	19 16 38.177	37.968	+	209		22 17 59.768	59.515	+	253
	12	19 20 34.739	34.523	+	216		22 21 56.316	56.070	+	246
	13	19 24 31.298	31.079	+	219		22 25 52.865	52.626	+	240
	14	19 28 27.854	27.634	+	220		22 29 49.417	49.181	+	236
	15	19 32 24.407	24.190	+	217		22 33 45.971	45.736	+	235
	16	19 36 20.958	20.745	+	213		22 37 42.527	42.292	+	236
	17	19 40 17.508	17.300	+	208	Sept. 1	22 41 39.086	38.847	+	239
	18	19 44 14.060	13.856	+	205		2 22 45 35.646	35.403	+	243
	19	19 48 10.616	10.411	+	205		3 22 49 32.206	31.958	+	248
	20	19 52 07.175	06.966	+	209		4 22 53 28.765	28.513	+	252
	21	19 56 03.738	03.522	+	216		5 22 57 25.323	25.069	+	254
	22	20 00 00.304	00.077	+	227		6 23 01 21.877	21.624	+	253
	23	20 03 56.871	56.632	+	238		7 23 05 18.428	18.179	+	249
	24	20 07 53.436	53.188	+	248		8 23 09 14.976	14.735	+	241
	25	20 11 49.998	49.743	+	255		9 23 13 11.522	11.290	+	232
	26	20 15 46.556	46.299	+	258		10 23 17 08.069	07.846	+	224
	27	20 19 43.111	42.854	+	257		11 23 21 04.619	04.401	+	218
	28	20 23 39.662	39.409	+	253		12 23 25 01.172	00.956	+	216
	29	20 27 36.212	35.965	+	247		13 23 28 57.730	57.512	+	218
	30	20 31 32.762	32.520	+	242		14 23 32 54.291	54.067	+	224
	31	20 35 29.312	29.075	+	237		15 23 36 50.853	50.622	+	231
Aug.	1	20 39 25.865	25.631	+	234		16 23 40 47.415	47.178	+	237
	2	20 43 22.419	22.186	+	233		17 23 44 43.975	43.733	+	241
	3	20 47 18.976	18.742	+	235		18 23 48 40.531	40.289	+	242
	4	20 51 15.536	15.297	+	239		19 23 52 37.084	36.844	+	240
	5	20 55 12.097	11.852	+	245		20 23 56 33.633	33.399	+	234
	6	20 59 08.659	08.408	+	252		21 0 00 30.181	29.955	+	226
	7	21 03 05.222	04.963	+	259		22 0 04 26.727	26.510	+	217
	8	21 07 01.783	01.518	+	264		23 0 08 23.273	23.065	+	208
	9	21 10 58.341	58.074	+	267		24 0 12 19.821	19.621	+	200
	10	21 14 54.896	54.629	+	267		25 0 16 16.371	16.176	+	195
	11	21 18 51.447	51.184	+	263		26 0 20 12.923	12.731	+	192
	12	21 22 47.996	47.740	+	257		27 0 24 09.478	09.287	+	191
	13	21 26 44.545	44.295	+	249		28 0 28 06.035	05.842	+	193
	14	21 30 41.094	40.851	+	243		29 0 32 02.594	02.398	+	196
	15	21 34 37.646	37.406	+	240		30 0 35 59.153	58.953	+	200
	16	21 38 34.202	33.961	+	241	Oct. 1	0 39 55.712	55.508	+	204

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Date	Sidereal Time		Equation of Equinox	Date	Sidereal Time		Equation of Equinox
	Apparent	Mean	app–mean		Apparent	Mean	app–mean
			(0 <sup>o</sup> 001)				(0 <sup>o</sup> 001)
Oct. 1	0 <sup>h</sup> 39 <sup>m</sup> 55.712 <sup>s</sup>	55.508 <sup>s</sup>	+ 204	Nov. 16	3 <sup>h</sup> 41 <sup>m</sup> 17.245 <sup>s</sup>	17.055 <sup>s</sup>	+ 190
2	0 43 52.270	52.064	+ 206	17	3 45 13.796	13.611	+ 185
3	0 47 48.825	48.619	+ 206	18	3 49 10.348	10.166	+ 182
4	0 51 45.377	45.174	+ 202	19	3 53 06.903	06.721	+ 182
5	0 55 41.926	41.730	+ 196	20	3 57 03.461	03.277	+ 184
6	0 59 38.472	38.285	+ 187	21	4 00 60.021	59.832	+ 189
7	1 03 35.019	34.841	+ 178	22	4 04 56.583	56.387	+ 195
8	1 07 31.567	31.396	+ 171	23	4 08 53.146	52.943	+ 203
9	1 11 28.120	27.951	+ 168	24	4 12 49.709	49.498	+ 211
10	1 15 24.677	24.507	+ 170	25	4 16 46.271	46.054	+ 218
11	1 19 21.238	21.062	+ 176	26	4 20 42.832	42.609	+ 223
12	1 23 17.801	17.617	+ 184	27	4 24 39.390	39.164	+ 225
13	1 27 14.364	14.173	+ 191	28	4 28 35.945	35.720	+ 225
14	1 31 10.925	10.728	+ 197	29	4 32 32.498	32.275	+ 222
15	1 35 07.483	07.283	+ 200	30	4 36 29.049	28.830	+ 218
16	1 39 04.038	03.839	+ 199	Dec. 1	4 40 25.600	25.386	+ 214
17	1 43 00.589	00.394	+ 194	2	4 44 22.153	21.941	+ 212
18	1 46 57.137	56.950	+ 188	3	4 48 18.711	18.497	+ 214
19	1 50 53.685	53.505	+ 180	4	4 52 15.273	15.052	+ 221
20	1 54 50.232	50.060	+ 172	5	4 56 11.840	11.607	+ 233
21	1 58 46.781	46.616	+ 165	6	5 00 08.410	08.163	+ 247
22	2 02 43.331	43.171	+ 160	7	5 04 04.978	04.718	+ 260
23	2 06 39.884	39.726	+ 158	8	5 08 01.545	01.273	+ 271
24	2 10 36.439	36.282	+ 158	9	5 11 58.107	57.829	+ 278
25	2 14 32.997	32.837	+ 160	10	5 15 54.665	54.384	+ 281
26	2 18 29.557	29.393	+ 164	11	5 19 51.219	50.939	+ 280
27	2 22 26.118	25.948	+ 170	12	5 23 47.772	47.495	+ 277
28	2 26 22.678	22.503	+ 175	13	5 27 44.324	44.050	+ 274
29	2 30 19.238	19.059	+ 179	14	5 31 40.876	40.606	+ 271
30	2 34 15.795	15.614	+ 181	15	5 35 37.430	37.161	+ 269
31	2 38 12.350	12.169	+ 181	16	5 39 33.986	33.716	+ 270
Nov. 1	2 42 08.902	08.725	+ 177	17	5 43 30.545	30.272	+ 273
2	2 46 05.451	05.280	+ 171	18	5 47 27.106	26.827	+ 279
3	2 50 02.000	01.835	+ 164	19	5 51 23.669	23.382	+ 286
4	2 53 58.549	58.391	+ 158	20	5 55 20.233	19.938	+ 295
5	2 57 55.102	54.946	+ 156	21	5 59 16.798	16.493	+ 305
6	3 01 51.659	51.502	+ 158	22	6 03 13.362	13.049	+ 313
7	3 05 48.222	48.057	+ 165	23	6 07 09.924	09.604	+ 320
8	3 09 44.787	44.612	+ 175	24	6 11 06.484	06.159	+ 324
9	3 13 41.354	41.168	+ 186	25	6 15 03.040	02.715	+ 326
10	3 17 37.919	37.723	+ 196	26	6 18 59.595	59.270	+ 325
11	3 21 34.481	34.278	+ 202	27	6 22 56.147	55.825	+ 322
12	3 25 31.039	30.834	+ 205	28	6 26 52.699	52.381	+ 318
13	3 29 27.593	27.389	+ 204	29	6 30 49.252	48.936	+ 316
14	3 33 24.145	23.945	+ 200	30	6 34 45.808	45.491	+ 317
15	3 37 20.695	20.500	+ 195	31	6 38 42.369	42.047	+ 322
16	3 41 17.245	17.055	+ 190	32	6 42 38.934	38.602	+ 332