

TABLE UT – ST, 2024
 SIDEREAL TIME AT 0^h U.T.

Date		Sidereal Time		Equation of Equinox		Date	Sidereal Time		Equation of Equinox		
		Apparent	Mean	app–mean			Apparent	Mean	app–mean		
				(0 ^s .001)				(0 ^s .001)			
Jan.	0	6 ^h 36 ^m 39.745 ^s	40.072 ^s	–	328	Feb.	15	9 ^h 38 ^m 01.364 ^s	01.619 ^s	–	255
	1	6 40 36.300	36.628	–	328		16	9 41 57.919	58.175	–	256
	2	6 44 32.853	33.183	–	330		17	9 45 54.477	54.730	–	253
	3	6 48 29.405	29.738	–	333		18	9 49 51.037	51.285	–	248
	4	6 52 25.957	26.294	–	337		19	9 53 47.599	47.841	–	242
	5	6 56 22.510	22.849	–	339		20	9 57 44.160	44.396	–	236
	6	7 00 19.064	19.405	–	340		21	10 01 40.720	40.952	–	232
	7	7 04 15.622	15.960	–	338		22	10 05 37.277	37.507	–	230
	8	7 08 12.183	12.515	–	333		23	10 09 33.832	34.062	–	230
	9	7 12 08.747	09.071	–	324		24	10 13 30.384	30.618	–	234
	10	7 16 05.314	05.626	–	312		25	10 17 26.934	27.173	–	239
	11	7 20 01.882	02.181	–	300		26	10 21 23.481	23.728	–	247
	12	7 23 58.448	58.737	–	289		27	10 25 20.028	20.284	–	255
	13	7 27 55.011	55.292	–	281		28	10 29 16.576	16.839	–	263
14	7 31 51.570	51.848	–	278	29	10 33 13.124	13.394	–	270		
15	7 35 48.124	48.403	–	279	Mar.	1	10 37 09.675	09.950	–	275	
16	7 39 44.675	44.958	–	283		2	10 41 06.229	06.505	–	277	
17	7 43 41.226	41.514	–	287		3	10 45 02.785	03.061	–	275	
18	7 47 37.778	38.069	–	291		4	10 48 59.345	59.616	–	271	
19	7 51 34.333	34.624	–	291		5	10 52 55.906	56.171	–	265	
20	7 55 30.891	31.180	–	289		6	10 56 52.468	52.727	–	258	
21	7 59 27.452	27.735	–	283		7	11 00 49.029	49.282	–	253	
22	8 03 24.015	24.290	–	275		8	11 04 45.587	45.837	–	250	
23	8 07 20.579	20.846	–	266		9	11 08 42.140	42.393	–	252	
24	8 11 17.143	17.401	–	258		10	11 12 38.690	38.948	–	258	
25	8 15 13.705	13.957	–	252		11	11 16 35.236	35.504	–	267	
26	8 19 10.265	10.512	–	247	12	11 20 31.783	32.059	–	276		
27	8 23 06.821	07.067	–	246	13	11 24 28.331	28.614	–	283		
28	8 27 03.375	03.623	–	247	14	11 28 24.883	25.170	–	287		
29	8 30 59.927	60.178	–	251	15	11 32 21.439	21.725	–	286		
30	8 34 56.477	56.733	–	256	16	11 36 17.998	18.280	–	283		
31	8 38 53.027	53.289	–	262	17	11 40 14.558	14.836	–	278		
Feb.	1	8 42 49.577	49.844	–	267	18	11 44 11.118	11.391	–	273	
	2	8 46 46.129	46.400	–	271	19	11 48 07.677	07.946	–	269	
	3	8 50 42.683	42.955	–	272	20	11 52 04.234	04.502	–	268	
	4	8 54 39.240	39.510	–	271	21	11 56 00.789	01.057	–	269	
	5	8 58 35.800	36.066	–	266	22	11 59 57.340	57.613	–	272	
	6	9 02 32.363	32.621	–	258	23	12 03 53.889	54.168	–	279	
	7	9 06 28.928	29.176	–	249	24	12 07 50.437	50.723	–	287	
	8	9 10 25.492	25.732	–	239	25	12 11 46.983	47.279	–	296	
	9	9 14 22.055	22.287	–	232	26	12 15 43.529	43.834	–	305	
	10	9 18 18.613	18.842	–	230	27	12 19 40.077	40.389	–	313	
	11	9 22 15.166	15.398	–	231	28	12 23 36.626	36.945	–	318	
	12	9 26 11.716	11.953	–	237	29	12 27 33.179	33.500	–	321	
	13	9 30 08.264	08.509	–	244	30	12 31 29.734	30.056	–	321	
	14	9 34 04.813	05.064	–	251	31	12 35 26.292	26.611	–	319	
	15	9 38 01.364	01.619	–	255	Apr. 1	12 39 22.853	23.166	–	314	

Table UT-ST – Sidereal Time at 0^h 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 ^s .001)			(0 ^s .001)			
Apr.	1	12 ^h 39 ^m 22.853 ^s	23.166 ^s	– 314	May	17	15 ^h 40 ^m 44.416 ^s	44.713 ^s	– 297	
	2	12 43 19.414	19.722	– 308		18	15 44 40.967	41.269	– 302	
	3	12 47 15.975	16.277	– 302		19	15 48 37.517	37.824	– 307	
	4	12 51 12.533	12.832	– 299		20	15 52 34.067	34.379	– 312	
	5	12 55 09.088	09.388	– 299		21	15 56 30.619	30.935	– 315	
	6	12 59 05.639	05.943	– 304		22	16 00 27.174	27.490	– 316	
	7	13 03 02.187	02.498	– 311		23	16 04 23.732	24.045	– 313	
	8	13 06 58.734	59.054	– 320		24	16 08 20.293	20.601	– 308	
	9	13 10 55.281	55.609	– 328		25	16 12 16.857	17.156	– 299	
	10	13 14 51.832	52.165	– 332		26	16 16 13.422	13.712	– 289	
	11	13 18 48.387	48.720	– 333		27	16 20 09.987	10.267	– 280	
	12	13 22 44.946	45.275	– 329		28	16 24 06.551	06.822	– 271	
	13	13 26 41.508	41.831	– 323		29	16 28 03.112	03.378	– 266	
	14	13 30 38.069	38.386	– 317		30	16 31 59.668	59.933	– 265	
	15	13 34 34.631	34.941	– 311		31	16 35 56.222	56.488	– 266	
	16	13 38 31.190	31.497	– 307		June	1	16 39 52.773	53.044	– 271
	17	13 42 27.746	28.052	– 306			2	16 43 49.324	49.599	– 275
	18	13 46 24.300	24.608	– 308			3	16 47 45.877	46.154	– 278
	19	13 50 20.851	21.163	– 312			4	16 51 42.432	42.710	– 278
	20	13 54 17.400	17.718	– 319			5	16 55 38.992	39.265	– 273
	21	13 58 13.948	14.274	– 326			6	16 59 35.556	35.821	– 265
	22	14 02 10.495	10.829	– 334			7	17 03 32.121	32.376	– 255
	23	14 06 07.044	07.384	– 340			8	17 07 28.688	28.931	– 244
	24	14 10 03.595	03.940	– 345			9	17 11 25.253	25.487	– 234
	25	14 14 00.148	00.495	– 347			10	17 15 21.816	22.042	– 226
	26	14 17 56.704	57.050	– 346			11	17 19 18.375	18.597	– 222
	27	14 21 53.264	53.606	– 342			12	17 23 14.932	15.153	– 221
	28	14 25 49.825	50.161	– 336			13	17 27 11.486	11.708	– 222
	29	14 29 46.388	46.717	– 328			14	17 31 08.039	08.264	– 225
	30	14 33 42.951	43.272	– 321			15	17 35 04.590	04.819	– 229
May	1	14 37 39.512	39.827	– 315	July	1	18 38 09.517	09.705	– 187	
	2	14 41 36.070	36.383	– 313		2	18 42 06.076	06.260	– 184	
	3	14 45 32.624	32.938	– 314						
	4	14 49 29.174	29.493	– 319						
	5	14 53 25.723	26.049	– 326						
	6	14 57 22.272	22.604	– 332						
	7	15 01 18.824	19.160	– 336						
	8	15 05 15.379	15.715	– 336						
	9	15 09 11.939	12.270	– 331						
	10	15 13 08.502	08.826	– 324						
	11	15 17 05.066	05.381	– 315						
	12	15 21 01.631	01.936	– 306						
	13	15 24 58.193	58.492	– 299						
	14	15 28 54.753	55.047	– 294						
	15	15 32 51.310	51.602	– 293						

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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 ^s .001)				(0 ^s .001)
July 1	18 ^h 38 ^m 09.517 ^s	09.705 ^s	– 187	Aug. 16	21 ^h 39 ^m 31.160 ^s	31.252 ^s	– 92
2	18 42 06.076	06.260	– 184	17	21 43 27.723	27.807	– 84
3	18 46 02.638	02.816	– 177	18	21 47 24.285	24.363	– 78
4	18 49 59.203	59.371	– 168	19	21 51 20.843	20.918	– 75
5	18 53 55.769	55.926	– 157	20	21 55 17.397	17.473	– 76
6	18 57 52.335	52.482	– 147	21	21 59 13.947	14.029	– 81
7	19 01 48.898	49.037	– 139	22	22 03 10.495	10.584	– 89
8	19 05 45.459	45.592	– 134	23	22 07 07.043	07.139	– 97
9	19 09 42.016	42.148	– 132	24	22 11 03.593	03.695	– 102
10	19 13 38.571	38.703	– 133	25	22 15 00.146	00.250	– 104
11	19 17 35.123	35.258	– 136	26	22 18 56.703	56.805	– 103
12	19 21 31.674	31.814	– 140	27	22 22 53.263	53.361	– 98
13	19 25 28.225	28.369	– 144	28	22 26 49.824	49.916	– 92
14	19 29 24.777	24.925	– 148	29	22 30 46.386	46.472	– 86
15	19 33 21.330	21.480	– 150	30	22 34 42.946	43.027	– 81
16	19 37 17.886	18.035	– 149	Sept. 31	22 38 39.504	39.582	– 78
17	19 41 14.445	14.591	– 146	1	22 42 36.059	36.138	– 79
18	19 45 11.007	11.146	– 139	2	22 46 32.611	32.693	– 82
19	19 49 07.572	07.701	– 130	3	22 50 29.160	29.248	– 88
20	19 53 04.137	04.257	– 119	4	22 54 25.708	25.804	– 96
21	19 57 00.703	00.812	– 110	5	22 58 22.254	22.359	– 105
22	20 00 57.265	57.368	– 102	6	23 02 18.801	18.915	– 113
23	20 04 53.824	53.923	– 99	7	23 06 15.349	15.470	– 120
24	20 08 50.379	50.478	– 100	8	23 10 11.900	12.025	– 126
25	20 12 46.930	47.034	– 104	9	23 14 08.453	08.581	– 128
26	20 16 43.480	43.589	– 109	10	23 18 05.008	05.136	– 128
27	20 20 40.030	40.144	– 114	11	23 22 01.567	01.691	– 125
28	20 24 36.583	36.700	– 117	12	23 25 58.127	58.247	– 120
29	20 28 33.139	33.255	– 116	13	23 29 54.688	54.802	– 114
30	20 32 29.699	29.811	– 112	14	23 33 51.248	51.357	– 109
Aug. 31	20 36 26.261	26.366	– 104	15	23 37 47.806	47.913	– 106
1	20 40 22.825	22.921	– 96	16	23 41 44.361	44.468	– 107
2	20 44 19.389	19.477	– 88	17	23 45 40.911	41.024	– 112
3	20 48 15.951	16.032	– 81	18	23 49 37.458	37.579	– 121
4	20 52 12.510	12.587	– 77	19	23 53 34.004	34.134	– 130
5	20 56 09.067	09.143	– 76	20	23 57 30.552	30.690	– 138
6	21 00 05.620	05.698	– 78	21	0 01 27.103	27.245	– 143
7	21 04 02.171	02.253	– 83	22	0 05 23.658	23.800	– 143
8	21 07 58.720	58.809	– 89	23	0 09 20.216	20.356	– 139
9	21 11 55.269	55.364	– 95	24	0 13 16.777	16.911	– 134
10	21 15 51.818	51.920	– 102	25	0 17 13.339	13.467	– 128
11	21 19 48.369	48.475	– 106	26	0 21 09.899	10.022	– 123
12	21 23 44.922	45.030	– 109	27	0 25 06.456	06.577	– 121
13	21 27 41.477	41.586	– 108	28	0 29 03.011	03.133	– 121
14	21 31 38.036	38.141	– 105	29	0 32 59.563	59.688	– 125
15	21 35 34.597	34.696	– 99	Oct. 30	0 36 56.113	56.243	– 131
16	21 39 31.160	31.252	– 92	1	0 40 52.660	52.799	– 139

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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 ^s 001)				(0 ^s 001)
Oct. 1	0 ^h 40 ^m 52.660 ^s	52.799 ^s	– 139	Nov. 16	3 ^h 42 ^m 14.178 ^s	14.346 ^s	– 168
2	0 44 49.207	49.354	– 147	17	3 46 10.742	10.901	– 159
3	0 48 45.753	45.909	– 156	18	3 50 07.308	07.456	– 149
4	0 52 42.301	42.465	– 164	19	3 54 03.874	04.012	– 138
5	0 56 38.850	39.020	– 170	20	3 58 00.439	00.567	– 128
6	1 00 35.402	35.576	– 173	21	4 01 57.000	57.123	– 122
7	1 04 31.957	32.131	– 174	22	4 05 53.559	53.678	– 119
8	1 08 28.515	28.686	– 171	23	4 09 50.114	50.233	– 119
9	1 12 25.074	25.242	– 167	24	4 13 46.667	46.789	– 122
10	1 16 21.635	21.797	– 162	25	4 17 43.218	43.344	– 126
11	1 20 18.196	18.352	– 157	26	4 21 39.769	39.899	– 131
12	1 24 14.755	14.908	– 153	27	4 25 36.320	36.455	– 135
13	1 28 11.311	11.463	– 152	28	4 29 32.873	33.010	– 137
14	1 32 07.863	08.019	– 155	29	4 33 29.429	29.565	– 137
15	1 36 04.412	04.574	– 162	30	4 37 25.987	26.121	– 134
16	1 40 00.959	01.129	– 170	Dec. 1	4 41 22.548	22.676	– 128
17	1 43 57.507	57.685	– 178	2	4 45 19.111	19.232	– 120
18	1 47 54.057	54.240	– 183	3	4 49 15.677	15.787	– 110
19	1 51 50.611	50.795	– 184	4	4 53 12.242	12.342	– 100
20	1 55 47.170	47.351	– 181	5	4 57 08.806	08.898	– 92
21	1 59 43.732	43.906	– 174	6	5 01 05.368	05.453	– 85
22	2 03 40.296	40.461	– 166	7	5 05 01.927	02.008	– 82
23	2 07 36.858	37.017	– 159	8	5 08 58.482	58.564	– 82
24	2 11 33.419	33.572	– 154	9	5 12 55.035	55.119	– 85
25	2 15 29.976	30.128	– 151	10	5 16 51.586	51.675	– 88
26	2 19 26.531	26.683	– 152	11	5 20 48.139	48.230	– 91
27	2 23 23.082	23.238	– 156	12	5 24 44.694	44.785	– 91
28	2 27 19.632	19.794	– 162	13	5 28 41.253	41.341	– 87
29	2 31 16.180	16.349	– 169	14	5 32 37.817	37.896	– 79
30	2 35 12.728	12.904	– 176	15	5 36 34.384	34.451	– 67
Nov. 31	2 39 09.278	09.460	– 182	16	5 40 30.952	31.007	– 55
1	2 43 05.829	06.015	– 187	17	5 44 27.520	27.562	– 43
2	2 47 02.382	02.571	– 188	18	5 48 24.084	24.117	– 33
3	2 50 58.938	59.126	– 187	19	5 52 20.646	20.673	– 27
4	2 54 55.498	55.681	– 184	20	5 56 17.204	17.228	– 25
5	2 58 52.059	52.237	– 178	21	6 00 13.759	13.784	– 25
6	3 02 48.622	48.792	– 170	22	6 04 10.312	10.339	– 27
7	3 06 45.184	45.347	– 163	23	6 08 06.864	06.894	– 31
8	3 10 41.746	41.903	– 157	24	6 12 03.416	03.450	– 34
9	3 14 38.305	38.458	– 153	25	6 15 59.969	60.005	– 36
10	3 18 34.860	35.013	– 153	26	6 19 56.525	56.560	– 36
11	3 22 31.413	31.569	– 156	27	6 23 53.083	53.116	– 33
12	3 26 27.963	28.124	– 161	28	6 27 49.644	49.671	– 27
13	3 30 24.512	24.680	– 167	29	6 31 46.208	46.227	– 19
14	3 34 21.063	21.235	– 171	30	6 35 42.773	42.782	– 9
15	3 38 17.618	17.790	– 172	31	6 39 39.339	39.337	+ 2
16	3 42 14.178	14.346	– 168	32	6 43 35.905	35.893	+ 12