

Dark Times January 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Sunday	1	648		S 141	612	2	Mon	
Monday	2	649		S 239	612	3	Tue	
Tuesday	3	650		S 337	613	4	Wed	Quadrantid meteor shower
Wednesday	4	650		S 434	613	5	Thu	
Thursday	5	651		S 529	613	6	Fri	
Friday	6	652			613	7	Sat	
Saturday	7	653			613	8	Sun	
Sunday	8	654			613	9	Mon	Full Moon
Monday	9	655			613	10	Tue	
Tuesday	10	656	R 709		613	11	Wed	
Wednesday	11	656	R 817		612	12	Thu	
Thursday	12	657	R 925		612	13	Fri	
Friday	13	658	R 1034		612	14	Sat	
Saturday	14	659	R 1144		612	15	Sun	
Sunday	15	700		R 54	612	16	Mon	
Monday	16	701		R 205	611	17	Tue	
Tuesday	17	702		R 315	611	18	Wed	
Wednesday	18	703		R 422	611	19	Thu	
Thursday	19	704		R 523	610	20	Fri	
Friday	20	705			610	21	Sat	
Saturday	21	706			609	22	Sun	
Sunday	22	707			609	23	Mon	New Moon
Monday	23	708			608	24	Tue	
Tuesday	24	709	S 725		608	25	Wed	
Wednesday	25	710	S 828		607	26	Thu	
Thursday	26	711	S 930		607	27	Fri	
Friday	27	712	S 1029		606	28	Sat	
Saturday	28	713	S 1128		605	29	Sun	
Sunday	29	714		S 27	605	30	Mon	
Monday	30	716		S 125	604	31	Tue	
Tuesday	31	717		S 222	603	1	Sun	

Dark Times February 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Wednesday	1	718		S 317	602	2	Thu	
Thursday	2	719		S 410	601	3	Fri	
Friday	3	720		S 459	601	4	Sat	
Saturday	4	721		S 543	600	5	Sun	
Sunday	5	722			559	6	Mon	
Monday	6	723			558	7	Tue	Full Moon
Tuesday	7	724			557	8	Wed	
Wednesday	8	725			556	9	Thu	
Thursday	9	726	R 821		555	10	Fri	Venus less than ½ degree from Uranus
Friday	10	727	R 933		554	11	Sat	
Saturday	11	728	R 1044		553	12	Sun	
Sunday	12	730	R 1156		552	13	Mon	
Monday	13	731		R 107	550	14	Tue	
Tuesday	14	732		R 214	549	15	Wed	
Wednesday	15	733		R 316	548	16	Thu	
Thursday	16	734		R 410	547	17	Fri	
Friday	17	735		R 457	546	18	Sat	
Saturday	18	736		R 536	544	19	Sun	
Sunday	19	737			543	20	Mon	
Monday	20	738			542	21	Tue	
Tuesday	21	739			540	22	Wed	New Moon
Wednesday	22	741			539	23	Thu	
Thursday	23	742	S 816		538	24	Fri	
Friday	24	743	S 916		536	25	Sat	
Saturday	25	744	S 1015		535	26	Sun	
Sunday	26	745	S 1113		533	27	Mon	
Monday	27	746		S 10	532	28	Tue	
Tuesday	28	747		S 106	529	29	Wed	
Wednesday	29	748		S 159	528	1	Thu	

Dark Times March 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Thursday	1	749		S 249	528	2	Fri	
Friday	2	750		S 334	526	3	Sat	
Saturday	3	752		S 415	524	4	Sun	Mars at opposition
Sunday	4	753		S 453	523	5	Mon	
Monday	5	754			521	6	Tue	Mercury at greatest evening elongation.
Tuesday	6	755			520	7	Wed	
Wednesday	7	756			518	8	Thu	Full Moon
Thursday	8	757			516	9	Fri	
Friday	9	758	R 826		515	10	Sat	
Saturday	10	759	R 940		513	11	Sun	
Sunday	11	801	R 1054		611	12	Mon	Daylight Savings time begins
Monday	12	802		R 104	610	13	Tue	
Tuesday	13	903		R 209	608	14	Wed	
Wednesday	14	904		R 306	606	15	Thu	Venus and Jupiter in conjunction, about 3 degrees, but close from 10 th -20 th
Thursday	15	905		R 355	605	16	Fri	
Friday	16	906		R 436	603	17	Sat	
Saturday	17	908		R 512	601	18	Sun	
Sunday	18	909		R 543	559	19	Mon	
Monday	19	910			558	20	Tue	
Tuesday	20	911			556	21	Wed	
Wednesday	21	912			554	22	Thu	New Moon
Thursday	22	914			552	23	Fri	
Friday	23	915			550	24	Sat	
Saturday	24	916	S 1003		549	25	Sun	
Sunday	25	917	S 1101		547	26	Mon	The Moon in conjunction with Jupiter with Venus just to the east
Monday	26	918	S 1157		545	27	Tue	
Tuesday	27	920		S 50	543	28	Wed	Greatest evening elongation of Venus
Wednesday	28	921		S 141	541	29	Thu	
Thursday	29	922		S 227	539	30	Fri	
Friday	30	923		S 309	537	31	Sat	
Saturday	31	925		S 347	536	1	Sun	

Dark Times April 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Sunday	1	926		S 422	534	2	Mon	
Monday	2	927		S 454	532	3	Tue	
Tuesday	3	929		S 526	530	4	Wed	
Wednesday	4	930			528	5	Thu	
Thursday	5	931			526	6	Fri	
Friday	6	933			524	7	Sat	Full Moon
Saturday	7	934			522	8	Sun	
Sunday	8	935	R 1046		520	9	Mon	
Monday	9	937	R 1155		519	10	Tue	
Tuesday	10	938		R 58	517	11	Wed	
Wednesday	11	939		R 151	515	12	Thu	
Thursday	12	941		R 236	513	13	Fri	
Friday	13	942		R 313	511	14	Sat	
Saturday	14	944		R 346	509	15	Sun	
Sunday	15	945		R 415	507	16	Mon	Saturn at opposition
Monday	16	946		R 442	505	17	Tue	
Tuesday	17	948			503	18	Wed	Mercury at greatest morning elongation.
Wednesday	18	949			502	19	Thu	
Thursday	19	951			500	20	Fri	
Friday	20	952			458	21	Sat	
Saturday	21	954			456	22	Sun	New Moon ; Lyrid meteor shower
Sunday	22	955			454	23	Mon	
Monday	23	957	S 1045		452	24	Tue	
Tuesday	24	958	S 1136		450	25	Wed	
Wednesday	25	1000		S 23	449	26	Thu	
Thursday	26	1001		S 106	447	27	Fri	
Friday	27	1003		S 144	445	28	Sat	
Saturday	28	1004		S 219	443	29	Sun	
Sunday	29	1006		S 252	441	30	Mon	
Monday	30	1007		S 323	440	1	Tue	

Dark Times May 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Tuesday	1	1009		S 354	438	2	Wed	
Wednesday	2	1010		S 426	436	3	Thu	
Thursday	3	1012			434	4	Fri	
Friday	4	1013			433	5	Sat	
Saturday	5	1015			431	6	Sun	Full Moon; Eta Aquarid meteor shower.
Sunday	6	1016			429	7	Mon	
Monday	7	1018	R 1040		428	8	Tue	
Tuesday	8	1020	R 1140		426	9	Wed	
Wednesday	9	1021		R 30	424	10	Thu	
Thursday	10	1023		R 112	423	11	Fri	
Friday	11	1024		R 147	421	12	Sat	
Saturday	12	1026		R 218	420	13	Sun	
Sunday	13	1027		R 246	418	14	Mon	
Monday	14	1029		R 313	417	15	Tue	
Tuesday	15	1030		R 339	415	16	Wed	
Wednesday	16	1032		R 406	414	17	Thu	
Thursday	17	1033			412	18	Fri	
Friday	18	1035			411	19	Sat	
Saturday	19	1036			410	20	Sun	
Sunday	20	1038			408	21	Mon	New Moon; Annular Solar eclipse visible in S.W. U.S. late afternoon.
Monday	21	1039			407	22	Tue	
Tuesday	22	1041			406	23	Wed	
Wednesday	23	1042	S 1105		404	24	Thu	
Thursday	24	1044	S 1145		403	25	Fri	
Friday	25	1045		S 21	402	26	Sat	
Saturday	26	1046		S 53	401	27	Sun	
Sunday	27	1048		S 124	400	28	Mon	
Monday	28	1049		S 154	359	29	Tue	
Tuesday	29	1050		S 224	358	30	Wed	
Wednesday	30	1051		S 256	357	31	Thu	
Thursday	31	1053		S 333	356	1	Fri	

Dark Times June 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Friday	1	1054			355	2	Sat	Venus and Mercury about 10 arc-sec apart 4:10 in the afternoon
Saturday	2	1055			355	3	Sun	
Sunday	3	1056			354	4	Mon	Full Moon
Monday	4	1057			353	5	Tue	Partial Lunar eclipse (occurs during Moonset)
Tuesday	5	1058			353	6	Wed	
Wednesday	6	1059	R 1105		352	7	Thu	Venus transits the Sun
Thursday	7	1100	R 1144		351	8	Fri	
Friday	8	1101		R 18	351	9	Sat	
Saturday	9	1101		R 48	351	10	Sun	
Sunday	10	1102		R 115	350	11	Mon	
Monday	11	1103		R 142	350	12	Tue	
Tuesday	12	1104		R 209	350	13	Wed	
Wednesday	13	1104		R 238	349	14	Thu	
Thursday	14	1105		R 310	349	15	Fri	
Friday	15	1105		R 345	349	16	Sat	5% illuminated Moon and Jupiter rise in conjunction at about 4:30 AM
Saturday	16	1106			349	17	Sun	
Sunday	17	1106			349	18	Mon	
Monday	18	1107			349	19	Tue	New Moon
Tuesday	19	1107			349	20	Wed	
Wednesday	20	1107			350	21	Thu	
Thursday	21	1107			350	22	Fri	
Friday	22	1107			350	23	Sat	
Saturday	23	1108	S 1128		351	24	Sun	
Sunday	24	1108	S 1157		351	25	Mon	
Monday	25	1107		S 27	352	26	Tue	
Tuesday	26	1107		S 57	352	27	Wed	
Wednesday	27	1107		S 131	353	28	Thu	
Thursday	28	1107		S 209	353	29	Fri	
Friday	29	1107		S 253	354	30	Sat	
Saturday	30	1106		S 345	355	1	Sun	

Dark Times July 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Sunday	1	1106			356	2	Mon	Mercury at greatest evening elongation.
Monday	2	1105			356	3	Tue	
Tuesday	3	1105			357	4	Wed	Full Moon
Wednesday	4	1104			358	5	Thu	
Thursday	5	1104			359	6	Fri	
Friday	6	1103			400	7	Sat	
Saturday	7	1102	R 1116		401	8	Sun	
Sunday	8	1102	R 1144		402	9	Mon	
Monday	9	1101		R 12	403	10	Tue	
Tuesday	10	1100		R 40	405	11	Wed	
Wednesday	11	1059		R 111	406	12	Thu	
Thursday	12	1058		R 144	407	13	Fri	
Friday	13	1057		R 222	408	14	Sat	
Saturday	14	1056		R 305	409	15	Sun	Venus, Jupiter and the Moon form a nice trio before sunrise
Sunday	15	1055		R 353	411	16	Mon	
Monday	16	1054			412	17	Tue	
Tuesday	17	1053			413	18	Wed	New Moon
Wednesday	18	1051			415	19	Thu	
Thursday	19	1050			416	20	Fri	
Friday	20	1049			418	21	Sat	
Saturday	21	1047			419	22	Sun	
Sunday	22	1046			420	23	Mon	
Monday	23	1045	S 1102		422	24	Tue	
Tuesday	24	1043	S 1134		423	25	Wed	
Wednesday	25	1042		S 9	425	26	Thu	
Thursday	26	1040		S 50	426	27	Fri	
Friday	27	1039		S 138	428	28	Sat	
Saturday	28	1037		S 233	429	29	Sun	Delta Aquarid meteor shower (28 th -30 th)
Sunday	29	1036		S 335	431	30	Mon	Capricornid meteor shower
Monday	30	1034			432	31	Tue	
Tuesday	31	1033			434	1	Wed	

Dark Times August 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Wednesday	1	1031			435	2	Thu	Full Moon
Thursday	2	1029			437	3	Fri	
Friday	3	1028			438	4	Sat	
Saturday	4	1026			440	5	Sun	
Sunday	5	1024			441	6	Mon	
Monday	6	1022	R 1041		443	7	Tue	
Tuesday	7	1021	R 1111		444	8	Wed	
Wednesday	8	1019	R 1144		446	9	Thu	
Thursday	9	1017		R 20	447	10	Fri	
Friday	10	1015		R 100	449	11	Sat	
Saturday	11	1014		R 146	450	12	Sun	Perseid meteor shower
Sunday	12	1012		R 237	451	13	Mon	The Moon occults Venus at about 4:38 in the afternoon EDT
Monday	13	1010		R 333	453	14	Tue	
Tuesday	14	1008		R 433	454	15	Wed	Greatest morning elongation of Venus
Wednesday	15	1006			456	16	Thu	Mercury at greatest morning elongation, Mars and Saturn in conjunction
Thursday	16	1004			457	17	Fri	New Moon
Friday	17	1003			459	18	Sat	
Saturday	18	1001			500	19	Sun	
Sunday	19	959			501	20	Mon	
Monday	20	957			503	21	Tue	
Tuesday	21	955	S 1012		504	22	Wed	
Wednesday	22	953	S 1051		506	23	Thu	Neptune at opposition
Thursday	23	951	S 1136		507	24	Fri	
Friday	24	949		S 28	508	25	Sat	
Saturday	25	948		S 127	510	26	Sun	
Sunday	26	946		S 231	511	27	Mon	
Monday	27	944		S 338	512	28	Tue	
Tuesday	28	942		S 446	514	29	Wed	
Wednesday	29	940			515	30	Thu	
Thursday	30	938			516	31	Fri	Full Moon
Friday	31	936			518	1	Sat	

Dark Times September 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Saturday	1	934			519	2	Sun	
Sunday	2	932			520	3	Mon	
Monday	3	930			521	4	Tue	
Tuesday	4	928	R 943		523	5	Wed	
Wednesday	5	926	R 1018		524	6	Thu	
Thursday	6	924	R 1057		525	7	Fri	
Friday	7	923	R 1140		526	8	Sat	
Saturday	8	921		R 29	528	9	Sun	
Sunday	9	919		R 122	529	10	Mon	
Monday	10	917		R 219	530	11	Tue	
Tuesday	11	915		R 320	531	12	Wed	
Wednesday	12	913		R 424	532	13	Thu	
Thursday	13	911		R 530	534	14	Fri	
Friday	14	909			535	15	Sat	
Saturday	15	907			536	16	Sun	New Moon
Sunday	16	906			537	17	Mon	
Monday	17	904			538	18	Tue	
Tuesday	18	902			539	19	Wed	
Wednesday	19	900	S 935		541	20	Thu	
Thursday	20	858	S 1025		542	21	Fri	
Friday	21	856	S 1122		543	22	Sat	
Saturday	22	855		S 25	544	23	Sun	
Sunday	23	853		S 130	545	24	Mon	
Monday	24	851		S 237	546	25	Tue	
Tuesday	25	849		S 342	547	26	Wed	
Wednesday	26	847		S 447	548	27	Thu	
Thursday	27	846			549	28	Fri	
Friday	28	844			550	29	Sat	
Saturday	29	842			552	30	Sun	Full Moon; Uranus at opposition
Sunday	30	840			553	1	Mon	

Dark Times October 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Monday	1	839			554	2	Tue	
Tuesday	2	837			555	3	Wed	
Wednesday	3	835	R 854		556	4	Thu	
Thursday	4	834	R 936		557	5	Fri	
Friday	5	832	R 1022		558	6	Sat	
Saturday	6	830	R 1113		559	7	Sun	
Sunday	7	829		R 8	600	8	Mon	
Monday	8	827		R 106	601	9	Tue	Draconid meteor shower.
Tuesday	9	826		R 207	602	10	Wed	
Wednesday	10	824		R 311	603	11	Thu	
Thursday	11	822		R 416	604	12	Fri	
Friday	12	821		R 525	605	13	Sat	
Saturday	13	819			606	14	Sun	
Sunday	14	818			607	15	Mon	New Moon
Monday	15	816			608	16	Tue	
Tuesday	16	815			609	17	Wed	
Wednesday	17	814	S 817		610	18	Thu	
Thursday	18	812	S 914		611	19	Fri	
Friday	19	811	S 1016		612	20	Sat	
Saturday	20	809	S 1122		613	21	Sun	
Sunday	21	808		S 30	614	22	Mon	Orionid meteor shower
Monday	22	807		S 136	616	23	Tue	
Tuesday	23	806		S 240	617	24	Wed	
Wednesday	24	804		S 343	618	25	Thu	
Thursday	25	803		S 444	619	26	Fri	
Friday	26	802		S 545	620	27	Sat	Mercury at greatest evening elongation.
Saturday	27	801			621	28	Sun	
Sunday	28	759			622	29	Mon	
Monday	29	758			623	30	Tue	Full Moon
Tuesday	30	757			624	31	Wed	
Wednesday	31	756			625	1	Thu	

Dark Times November 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Thursday	1	755	R 818		626	2	Fri	
Friday	2	754	R 907		627	3	Sat	
Saturday	3	753	R 1000		528	4	Sun	Daylight Savings time ends 2 AM
Sunday	4	652	R 956		529	5	Mon	
Monday	5	651	R 1055		530	6	Tue	
Tuesday	6	650	R 1155		531	7	Wed	
Wednesday	7	649		R 58	532	8	Thu	
Thursday	8	648		R 203	533	9	Fri	Taurid meteor shower (5 th -12 th)
Friday	9	648		R 311	534	10	Sat	
Saturday	10	647		R 421	535	11	Sun	
Sunday	11	646		R 534	536	12	Mon	
Monday	12	645			537	13	Tue	
Tuesday	13	645			538	14	Wed	New Moon; Total Solar Eclipse visible from Australia & S. Pacific
Wednesday	14	644			539	15	Thu	
Thursday	15	643	S 659		540	16	Fri	
Friday	16	643	S 807		541	17	Sat	
Saturday	17	642	S 916		542	18	Sun	Leonid meteor shower (16 th -18 th)
Sunday	18	641	S 1025		543	19	Mon	
Monday	19	641	S 1132		544	20	Tue	
Tuesday	20	640		S 36	545	21	Wed	
Wednesday	21	640		S 138	546	22	Thu	
Thursday	22	640		S 239	547	23	Fri	
Friday	23	639		S 338	548	24	Sat	
Saturday	24	639		S 437	549	25	Sun	
Sunday	25	638		S 535	550	26	Mon	
Monday	26	638			551	27	Tue	Venus and Saturn rise in conjunction less than 1 degree apart at about 5 AM
Tuesday	27	638			552	28	Wed	Full Moon; Penumbral lunar eclipse visible in Alaska, Hawaii, Australia, or East Asia.
Wednesday	28	638			552	29	Thu	The Moon is about 2.5 degrees from Jupiter
Thursday	29	638			553	30	Fri	
Friday	30	637	R 654		453	1	Sat	

Dark Times December 2012

PM Day	PM Date	Twilight Ends	PM Moon	AM Moon	Twilight Begins	AM Date	AM Day	Events
Saturday	1	637	R 749		555	2	Sun	
Sunday	2	637	R 847		556	3	Mon	
Monday	3	637	R 946		557	4	Tue	Mercury at greatest morning elongation, Jupiter at opposition
Tuesday	4	637	R 1047		558	5	Wed	
Wednesday	5	637	R 1149		558	6	Thu	
Thursday	6	637		R 53	559	7	Fri	
Friday	7	637		R 200	600	8	Sat	
Saturday	8	637		R 309	601	9	Sun	
Sunday	9	638		R 421	602	10	Mon	
Monday	10	638		R 534	602	11	Tue	Saturn < 1° from asteroids (16) Psyche (mag 12.2) and (1912) Anubis (mag 17.6)
Tuesday	11	638			603	12	Wed	
Wednesday	12	638			604	13	Thu	New Moon
Thursday	13	638			604	14	Fri	Geminid meteor shower (12 th -14 th)
Friday	14	639	S 652		605	15	Sat	
Saturday	15	639	S 804		606	16	Sun	
Sunday	16	639	S 915		606	17	Mon	
Monday	17	640	S 1023		607	18	Tue	
Tuesday	18	640	S 1128		607	19	Wed	
Wednesday	19	641		S 30	608	20	Thu	
Thursday	20	641		S 131	608	21	Fri	
Friday	21	642		S 230	609	22	Sat	
Saturday	22	642		S 328	609	23	Sun	
Sunday	23	643		S 425	610	24	Mon	
Monday	24	643		S 519	610	25	Tue	Jupiter in conjunction with the Moon
Tuesday	25	644			611	26	Wed	
Wednesday	26	644			611	27	Thu	
Thursday	27	645			611	28	Fri	Full Moon
Friday	28	646			612	29	Sat	
Saturday	29	646			612	30	Sun	
Sunday	30	647	R 740		612	31	Mon	
Monday	31	648	R 840		612	1	Tue	