

DECEMBER 2011

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
1 UT	+Sun	+Venus	–Jupiter	–Hamal	–Aldebaran
0	73 53.2 3145	47 5.2 3240	69 22.9 2774	74 58.9 2816	108 3.1 2808
3	75 20.5 3163	48 30.5 3258	67 47.9 2790	73 24.8 2833	106 28.8 2824
6	76 47.3 3179	49 55.5 3274	66 13.2 2806	71 51.1 2849	104 54.9 2838
9	78 13.9 3195	51 20.2 3290	64 38.9 2821	70 17.7 2864	103 21.2 2853
12	79 40.2 3211	52 44.6 3306	63 4.9 2836	68 44.6 2879	101 47.9 2867
15	81 6.1 3226	54 8.7 3322	61 31.2 2851	67 11.9 2894	100 14.9 2881
18	82 31.7 3241	55 32.4 3337	59 57.9 2866	65 39.4 2909	98 42.2 2895
21	83 57.1 3256	56 55.9 3352	58 24.8 2880	64 7.3 2923	97 9.8 2908
2 UT	+Sun	+Venus	–Jupiter	–Hamal	–Aldebaran
0	85 22.1 3269	58 19.1 3365	56 52.1 2893	62 35.5 2937	95 37.7 2921
3	86 46.9 3283	59 42.0 3380	55 19.7 2908	61 4.0 2951	94 5.8 2933
6	88 11.4 3297	61 4.6 3393	53 47.5 2921	59 32.8 2965	92 34.2 2945
9	89 35.6 3309	62 27.0 3406	52 15.7 2933	58 1.8 2978	91 2.9 2957
12	90 59.6 3321	63 49.2 3418	50 44.1 2946	56 31.2 2990	89 31.7 2968
15	92 23.4 3334	65 11.1 3431	49 12.7 2958	55 0.8 3003	88 0.9 2979
18	93 46.9 3344	66 32.8 3442	47 41.7 2970	53 30.6 3015	86 30.2 2989
21	95 10.3 3355	67 54.3 3453	46 10.8 2982	52 0.7 3027	84 59.8 2999
3 UT	+Sun	+Venus	–Jupiter	–Hamal	–Aldebaran
0	96 33.4 3366	69 15.6 3463	44 40.2 2992	50 31.1 3039	83 29.6 3009
3	97 56.3 3376	70 36.6 3473	43 9.9 3004	49 1.7 3050	81 59.6 3018
6	99 19.0 3384	71 57.5 3483	41 39.8 3014	47 32.5 3061	80 29.8 3027
9	100 41.6 3393	73 18.2 3492	40 9.8 3025	46 3.6 3072	79 0.1 3035
12	102 4.0 3402	74 38.8 3500	38 40.2 3036	44 34.9 3083	77 30.6 3043
15	103 26.2 3409	75 59.2 3509	37 10.7 3046	43 6.4 3094	76 1.3 3051
18	104 48.3 3417	77 19.4 3516	35 41.4 3056	41 38.1 3105	74 32.2 3057
21	106 10.3 3423	78 39.5 3522	34 12.4 3066	40 10.1 3115	73 3.1 3064
4 UT	+Sun	+Venus	–Jupiter	–Aldebaran	–Elnath
0	107 32.1 3430	79 59.5 3530	32 43.6 3077	71 34.2 3070	83 14.6 3070
3	108 53.8 3435	81 19.4 3535	31 14.9 3088	70 5.5 3076	81 45.8 3076
6	110 15.4 3441	82 39.1 3541	29 46.5 3098	68 36.8 3081	80 17.2 3081
9	111 36.9 3445	83 58.7 3545	28 18.4 3110	67 8.3 3086	78 48.6 3085
12	112 58.3 3450	85 18.3 3550	26 50.4 3123	65 39.9 3091	77 20.2 3090
15	114 19.7 3453	86 37.8 3553	25 22.7 3136	64 11.5 3095	75 51.8 3093
18	115 40.9 3457	87 57.2 3558	23 55.3 3152	62 43.3 3099	74 23.5 3097
21	117 2.1 3459	89 16.5 3560	22 28.2 3168	61 15.1 3101	72 55.3 3099
5 UT	+Venus	–Jupiter	–Aldebaran	–Elnath	–Betelgeuse
0	90 35.8 3563	21 1.4 3189	59 47.0 3105	71 27.1 3102	79 47.7 3222
3	91 55.0 3565	19 35.1 3213	58 18.9 3107	69 59.0 3104	78 22.1 3226
6	93 14.2 3567	18 9.2 3242	56 50.9 3110	68 31.0 3106	76 56.4 3229
9	94 33.4 3568	16 43.9 3279	55 23.0 3112	67 2.9 3108	75 30.8 3232
12	95 52.6 3569	15 19.3 3327	53 55.1 3114	65 35.0 3109	74 5.3 3234
15	97 11.7 3569	13 55.6 3391	52 27.2 3115	64 7.0 3110	72 39.9 3237
18	98 30.8 3569	12 33.2 3481	50 59.3 3117	62 39.0 3111	71 14.5 3240
21	99 49.9 3569	11 12.4 3609	49 31.5 3118	61 11.1 3110	69 49.1 3243

DECEMBER 2011

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6 UT	+Venus	–Aldebaran	–Elnath	–Betelgeuse	–Procyon
0	101 9.1 3568	48 3.7 3118	59 43.2 3111	68 23.8 3244	94 9.5 3180
3	102 28.2 3566	46 36.0 3119	58 15.2 3110	66 58.5 3247	92 43.0 3179
6	103 47.4 3564	45 8.2 3119	56 47.3 3109	65 33.3 3249	91 16.4 3177
9	105 6.6 3563	43 40.4 3120	55 19.3 3109	64 8.1 3252	89 49.8 3175
12	106 25.9 3560	42 12.7 3120	53 51.4 3108	62 43.0 3254	88 23.2 3172
15	107 45.2 3558	40 45.0 3121	52 23.4 3107	61 17.9 3257	86 56.5 3171
18	109 4.5 3555	39 17.2 3121	50 55.4 3105	59 52.9 3259	85 29.8 3167
21	110 23.9 3551	37 49.5 3122	49 27.3 3104	58 27.9 3262	84 3.0 3165
7 UT	+Venus	+Jupiter	–Aldebaran	–Elnath	–Procyon
0	111 43.3 3547	5 59.6 5038	36 21.8 3123	47 59.2 3102	82 36.1 3161
3	113 2.9 3544	6 56.0 4320	34 54.1 3125	46 31.1 3101	81 9.2 3159
6	114 22.4 3539	8 2.6 3912	33 26.5 3126	45 3.0 3099	79 42.2 3155
9	115 42.1 3535	9 15.7 3663	31 58.9 3128	43 34.8 3097	78 15.2 3152
12	117 1.9 3530	10 33.1 3500	30 31.3 3131	42 6.6 3096	76 48.1 3148
15	118 21.7 3525	11 53.5 3388	29 3.8 3136	40 38.4 3095	75 20.9 3145
18	119 41.6 3520	13 16.0 3307	27 36.3 3141	39 10.1 3093	73 53.7 3141
21	121 1.7 3515	14 40.1 3247	26 9.0 3149	37 41.9 3093	72 26.4 3138
8 UT	+Jupiter	–Elnath	–Betelgeuse	–Pollux	–Procyon
0	16 5.3 3200	36 13.6 3092	45 46.7 3312	66 42.9 3097	70 59.0 3134
3	17 31.4 3163	34 45.2 3092	44 22.8 3323	65 14.6 3093	69 31.5 3131
6	18 58.3 3133	33 16.9 3093	42 59.0 3335	63 46.4 3089	68 4.0 3127
9	20 25.8 3107	31 48.6 3094	41 35.5 3349	62 18.0 3085	66 36.4 3124
12	21 53.8 3084	30 20.4 3096	40 12.3 3364	60 49.5 3081	65 8.7 3120
15	23 22.3 3065	28 52.1 3101	38 49.3 3383	59 21.0 3078	63 41.0 3117
18	24 51.1 3048	27 24.0 3106	37 26.7 3405	57 52.4 3074	62 13.2 3114
21	26 20.4 3031	25 56.0 3114	36 4.6 3430	56 23.7 3070	60 45.3 3111
9 UT	+Jupiter	+Hamal	–Pollux	–Procyon	–Regulus
0	27 49.9 3017	22 17.3 3174	54 55.0 3067	59 17.4 3109	91 26.0 2986
3	29 19.8 3003	23 44.0 3143	53 26.1 3064	57 49.4 3106	89 55.5 2979
6	30 49.9 2991	25 11.3 3116	51 57.3 3062	56 21.4 3105	88 24.9 2971
9	32 20.3 2979	26 39.1 3092	50 28.3 3059	54 53.4 3104	86 54.1 2964
12	33 50.9 2967	28 7.4 3071	48 59.3 3057	53 25.3 3102	85 23.1 2957
15	35 21.8 2956	29 36.2 3051	47 30.3 3055	51 57.2 3101	83 52.0 2949
18	36 52.9 2945	31 5.3 3033	46 1.2 3054	50 29.1 3101	82 20.8 2942
21	38 24.3 2935	32 34.8 3016	44 32.2 3054	49 0.9 3103	80 49.3 2934
10 UT	+Jupiter	–Pollux	–Procyon	–Regulus	–Mars
0	39 55.9 2924	43 3.1 3055	47 32.8 3104	79 17.8 2927	92 19.1 3085
3	41 27.6 2915	41 34.0 3056	46 4.8 3107	77 46.0 2919	90 50.7 3077
6	42 59.6 2904	40 5.0 3058	44 36.8 3111	76 14.1 2911	89 22.1 3068
9	44 31.8 2895	38 36.0 3063	43 8.8 3116	74 42.1 2904	87 53.3 3060
12	46 4.2 2886	37 7.1 3068	41 41.0 3123	73 9.8 2896	86 24.3 3052
15	47 36.9 2876	35 38.3 3075	40 13.3 3132	71 37.4 2889	84 55.2 3044
18	49 9.7 2867	34 9.6 3085	38 45.8 3142	70 4.9 2881	83 25.9 3035
21	50 42.7 2858	32 41.1 3097	37 18.5 3155	68 32.2 2874	81 56.4 3027

DECEMBER 2011

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
11 UT	+Jupiter	+Hamal	+Aldebaran	-Regulus	-Mars
0	52 15.9 2848	46 14.2 2898	13 50.5 3231	66 59.3 2865	80 26.7 3018
3	53 49.3 2840	47 46.5 2887	15 16.1 3152	65 26.3 2858	78 56.9 3011
6	55 22.9 2830	49 19.1 2877	16 43.2 3090	63 53.1 2850	77 26.9 3002
9	56 56.7 2822	50 51.9 2866	18 11.5 3041	62 19.7 2843	75 56.8 2994
12	58 30.6 2813	52 24.9 2856	19 40.9 3002	60 46.2 2836	74 26.4 2986
15	60 4.8 2804	53 58.2 2846	21 11.0 2967	59 12.5 2828	72 55.9 2978
18	61 39.2 2795	55 31.6 2836	22 41.9 2938	57 38.7 2821	71 25.3 2970
21	63 13.7 2787	57 5.3 2826	24 13.4 2913	56 4.7 2814	69 54.5 2962
12 UT	+Jupiter	+Hamal	+Aldebaran	-Regulus	-Mars
0	64 48.5 2778	58 39.2 2816	25 45.4 2891	54 30.5 2807	68 23.5 2955
3	66 23.4 2770	60 13.3 2807	27 17.9 2871	52 56.2 2800	66 52.3 2947
6	67 58.5 2761	61 47.6 2798	28 50.9 2853	51 21.8 2793	65 21.0 2940
9	69 33.8 2753	63 22.1 2788	30 24.2 2836	49 47.2 2786	63 49.6 2932
12	71 9.3 2744	64 56.8 2779	31 57.9 2820	48 12.4 2780	62 17.9 2925
15	72 45.0 2736	66 31.7 2770	33 31.9 2806	46 37.5 2774	60 46.2 2917
18	74 20.8 2728	68 6.8 2761	35 6.2 2792	45 2.5 2769	59 14.2 2911
21	75 56.9 2719	69 42.2 2752	36 40.8 2779	43 27.4 2763	57 42.2 2904
13 UT	+Jupiter	+Aldebaran	+Elnath	-Regulus	-Mars
0	77 33.1 2710	38 15.8 2766	26 48.5 2828	41 52.1 2757	56 9.9 2897
3	79 9.5 2702	39 50.9 2754	28 22.4 2808	40 16.7 2752	54 37.6 2891
6	80 46.1 2694	41 26.4 2743	29 56.7 2790	38 41.2 2748	53 5.1 2885
9	82 22.9 2686	43 2.1 2731	31 31.3 2773	37 5.6 2743	51 32.5 2879
12	83 59.9 2678	44 38.1 2720	33 6.4 2757	35 29.9 2740	49 59.7 2874
15	85 37.0 2670	46 14.3 2710	34 41.8 2743	33 54.1 2738	48 26.9 2869
18	87 14.4 2661	47 50.7 2699	36 17.5 2728	32 18.3 2736	46 53.9 2863
21	88 51.9 2653	49 27.4 2689	37 53.5 2715	30 42.5 2735	45 20.8 2859
14 UT	+Jupiter	+Aldebaran	+Elnath	-Mars	-Spica
0	90 29.6 2645	51 4.3 2679	39 29.8 2703	43 47.6 2856	82 41.7 2645
3	92 7.5 2637	52 41.4 2669	41 6.4 2690	42 14.4 2852	81 3.8 2637
6	93 45.5 2629	54 18.7 2659	42 43.3 2679	40 41.0 2850	79 25.7 2628
9	95 23.8 2620	55 56.3 2649	44 20.4 2667	39 7.7 2847	77 47.5 2620
12	97 2.2 2612	57 34.1 2640	45 57.8 2656	37 34.2 2847	76 9.0 2612
15	98 40.9 2604	59 12.1 2630	47 35.5 2645	36 0.8 2847	74 30.4 2603
18	100 19.7 2596	60 50.3 2621	49 13.3 2634	34 27.4 2849	72 51.5 2595
21	101 58.7 2587	62 28.7 2611	50 51.5 2624	32 54.0 2852	71 12.5 2586
15 UT	+Jupiter	+Aldebaran	+Elnath	-Spica	-Saturn
0	103 37.9 2580	64 7.4 2602	52 29.8 2613	69 33.3 2578	72 55.7 2631
3	105 17.3 2571	65 46.3 2593	54 8.4 2603	67 53.9 2569	71 17.5 2623
6	106 56.8 2563	67 25.3 2583	55 47.3 2593	66 14.3 2560	69 39.1 2615
9	108 36.6 2555	69 4.6 2574	57 26.3 2583	64 34.4 2552	68 0.5 2606
12	110 16.5 2547	70 44.1 2565	59 5.6 2573	62 54.4 2543	66 21.8 2599
15	111 56.7 2538	72 23.8 2555	60 45.1 2563	61 14.2 2534	64 42.8 2591
18	113 37.0 2530	74 3.7 2546	62 24.9 2554	59 33.8 2526	63 3.7 2582
21	115 17.5 2522	75 43.9 2537	64 4.9 2544	57 53.2 2517	61 24.4 2575

DECEMBER 2011

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
16 UT	+Betelgeuse	+Pollux	–Spica	–Saturn	–Sun
0	58 40.3 2699	36 15.7 2692	56 12.4 2508	59 44.9 2567	115 47.4 2844
3	60 17.0 2684	37 52.6 2670	54 31.4 2499	58 5.2 2559	114 13.9 2834
6	61 54.0 2669	39 29.9 2649	52 50.1 2491	56 25.4 2551	112 40.2 2825
9	63 31.3 2654	41 7.7 2629	51 8.7 2482	54 45.4 2544	111 6.3 2815
12	65 9.0 2640	42 45.9 2610	49 27.1 2473	53 5.2 2536	109 32.2 2805
15	66 47.0 2627	44 24.6 2593	47 45.2 2464	51 24.8 2529	107 57.8 2795
18	68 25.3 2614	46 3.7 2577	46 3.2 2455	49 44.3 2522	106 23.2 2786
21	70 3.9 2601	47 43.1 2560	44 20.9 2446	48 3.6 2515	104 48.5 2775
17 UT	+Pollux	+Procyon	–Spica	–Saturn	–Sun
0	49 22.9 2545	45 48.8 2632	42 38.4 2437	46 22.7 2508	103 13.5 2765
3	51 3.1 2531	47 27.0 2612	40 55.7 2429	44 41.7 2503	101 38.3 2756
6	52 43.6 2516	49 5.6 2593	39 12.9 2420	43 0.5 2496	100 2.8 2745
9	54 24.4 2503	50 44.7 2575	37 29.8 2411	41 19.2 2491	98 27.2 2735
12	56 5.6 2489	52 24.2 2558	35 46.4 2402	39 37.8 2486	96 51.3 2725
15	57 47.0 2477	54 4.0 2542	34 2.9 2394	37 56.3 2482	95 15.2 2715
18	59 28.8 2464	55 44.3 2526	32 19.2 2386	36 14.6 2479	93 38.9 2706
21	61 10.8 2452	57 24.9 2511	30 35.3 2377	34 32.9 2476	92 2.4 2695
18 UT	+Pollux	+Procyon	+Regulus	–Spica	–Sun
0	62 53.2 2440	59 5.9 2497	25 51.3 2462	28 51.2 2369	90 25.6 2686
3	64 35.8 2428	60 47.1 2483	27 33.4 2441	27 6.9 2361	88 48.6 2675
6	66 18.7 2417	62 28.8 2469	29 16.1 2422	25 22.4 2354	87 11.4 2666
9	68 1.8 2406	64 10.7 2456	30 59.1 2404	23 37.7 2347	85 34.0 2656
12	69 45.3 2395	65 52.9 2444	32 42.6 2389	21 52.9 2342	83 56.4 2646
15	71 28.9 2385	67 35.4 2432	34 26.4 2374	20 7.9 2336	82 18.5 2637
18	73 12.9 2374	69 18.3 2420	36 10.6 2360	18 22.8 2332	80 40.4 2627
21	74 57.1 2364	71 1.4 2409	37 55.1 2347	16 37.6 2330	79 2.1 2618
19 UT	+Pollux	+Procyon	+Regulus	+Mars	–Sun
0	76 41.5 2355	72 44.7 2398	39 40.0 2334	24 10.7 2630	77 23.6 2609
3	78 26.1 2345	74 28.3 2387	41 25.1 2322	25 48.9 2593	75 44.9 2599
6	80 11.0 2336	76 12.2 2377	43 10.5 2311	27 28.0 2561	74 6.0 2590
9	81 56.1 2327	77 56.3 2368	44 56.2 2300	29 7.8 2533	72 26.8 2581
12	83 41.4 2319	79 40.7 2358	46 42.2 2290	30 48.3 2508	70 47.5 2573
15	85 26.9 2310	81 25.2 2349	48 28.5 2280	32 29.3 2485	69 8.0 2564
18	87 12.7 2303	83 10.0 2341	50 14.9 2270	34 10.8 2465	67 28.3 2556
21	88 58.6 2295	84 55.0 2333	52 1.6 2261	35 52.9 2447	65 48.3 2548
20 UT	+Procyon	+Alphard	+Regulus	+Mars	–Sun
0	86 40.2 2325	57 18.6 2506	53 48.6 2252	37 35.3 2431	64 8.3 2540
3	88 25.5 2318	58 59.7 2488	55 35.7 2244	39 18.1 2416	62 28.0 2533
6	90 11.1 2311	60 41.2 2472	57 23.1 2236	41 1.3 2402	60 47.5 2526
9	91 56.8 2305	62 23.1 2457	59 10.6 2228	42 44.9 2389	59 6.9 2518
12	93 42.7 2299	64 5.3 2443	60 58.4 2221	44 28.7 2377	57 26.1 2512
15	95 28.7 2294	65 47.9 2430	62 46.3 2215	46 12.8 2366	55 45.2 2506
18	97 14.8 2289	67 30.7 2418	64 34.4 2208	47 57.2 2356	54 4.1 2500
21	99 1.0 2285	69 13.8 2407	66 22.6 2202	49 41.8 2347	52 22.9 2495

DECEMBER 2011

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
21 UT	+Regulus	+Mars	+Gienah	+Spica	–Sun
0	68 11.0 2197	51 26.7 2338	29 10.0 2439	14 8.3 2213	50 41.6 2489
3	69 59.5 2192	53 11.7 2330	30 52.6 2408	15 56.5 2201	49 0.2 2485
6	71 48.2 2188	54 57.0 2324	32 36.0 2381	17 44.9 2191	47 18.6 2481
9	73 36.9 2183	56 42.4 2317	34 20.0 2358	19 33.6 2183	45 36.9 2477
12	75 25.8 2180	58 27.9 2311	36 4.6 2338	21 22.4 2177	43 55.2 2474
15	77 14.8 2176	60 13.6 2306	37 49.6 2321	23 11.5 2171	42 13.4 2471
18	79 3.8 2174	61 59.5 2302	39 35.1 2307	25 0.7 2167	40 31.5 2470
21	80 52.9 2172	63 45.4 2298	41 20.9 2294	26 49.9 2163	38 49.6 2467
22 UT	+Mars	+Gienah	+Spica	+Saturn	–Sun
0	65 31.4 2295	43 7.1 2283	28 39.3 2161	25 27.5 2306	37 7.6 2466
3	67 17.5 2293	44 53.5 2274	30 28.8 2158	27 13.4 2289	35 25.6 2466
6	69 3.7 2290	46 40.1 2266	32 18.2 2157	28 59.6 2276	33 43.6 2466
9	70 49.9 2290	48 26.9 2260	34 7.8 2156	30 46.2 2265	32 1.6 2467
12	72 36.1 2289	50 13.8 2254	35 57.3 2156	32 33.0 2257	30 19.6 2468
15	74 22.4 2289	52 1.0 2251	37 46.9 2157	34 20.0 2251	28 37.7 2470
18	76 8.6 2290	53 48.1 2247	39 36.4 2157	36 7.2 2245	26 55.7 2473
21	77 54.8 2291	55 35.4 2245	41 25.9 2160	37 54.6 2242	25 13.9 2477
23 UT	+Mars	+Spica	+Saturn	+Zubenelgen	–Sun
0	79 41.0 2293	43 15.4 2162	39 42.0 2240	22 1.8 2193	23 32.1 2481
3	81 27.2 2297	45 4.8 2165	41 29.4 2239	23 50.4 2191	21 50.5 2487
6	83 13.2 2300	46 54.1 2168	43 16.9 2239	25 39.1 2191	20 9.0 2493
9	84 59.2 2303	48 43.4 2172	45 4.4 2240	27 27.7 2192	18 27.6 2501
12	86 45.1 2308	50 32.5 2177	46 51.8 2242	29 16.4 2194	16 46.4 2511
15	88 30.9 2313	52 21.6 2182	48 39.3 2245	31 5.0 2198	15 5.4 2522
18	90 16.6 2320	54 10.5 2188	50 26.6 2249	32 53.5 2202	13 24.7 2538
21	92 2.1 2326	55 59.2 2194	52 13.8 2253	34 41.9 2207	11 44.4 2557
26 UT	+Sun	–Venus	–Markab	–Jupiter	–Hamal
0	16 33.3 2727	17 3.3 3115	64 3.2 2547	100 18.0 2393	106 51.7 2410
3	18 9.4 2739	15 35.5 3204	62 23.1 2568	98 34.3 2408	105 8.4 2424
6	19 45.2 2753	14 9.4 3320	60 43.5 2588	96 50.9 2422	103 25.4 2438
9	21 20.6 2767	12 45.6 3475	59 4.3 2610	95 7.9 2437	101 42.7 2453
12	22 55.8 2783	11 24.8 3695	57 25.6 2633	93 25.2 2453	100 0.4 2468
15	24 30.6 2797	10 7.9 4017	55 47.5 2656	91 42.8 2468	98 18.4 2483
18	26 5.2 2814	8 56.5 4518	54 9.8 2682	90 0.9 2484	96 36.8 2499
21	27 39.3 2831	7 52.9 5350	52 32.8 2707	88 19.3 2500	94 55.6 2515
27 UT	+Sun	–Markab	–Alpheratz	–Jupiter	–Hamal
0	29 13.1 2847	50 56.3 2734	70 50.7 2845	86 38.1 2517	93 14.7 2530
3	30 46.5 2864	49 20.4 2763	69 17.3 2869	84 57.3 2533	91 34.2 2547
6	32 19.6 2881	47 45.1 2793	67 44.3 2894	83 16.8 2550	89 54.1 2563
9	33 52.3 2898	46 10.5 2824	66 11.8 2920	81 36.8 2567	88 14.3 2580
12	35 24.7 2916	44 36.6 2858	64 40.0 2946	79 57.1 2583	86 35.0 2596
15	36 56.6 2934	43 3.4 2893	63 8.6 2975	78 17.8 2600	84 56.0 2613
18	38 28.2 2951	41 30.9 2930	61 37.9 3003	76 38.9 2617	83 17.4 2630
21	39 59.4 2969	39 59.2 2971	60 7.8 3034	75 0.4 2634	81 39.1 2647

DECEMBER 2011

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
28 UT	+Sun	+Venus	–Jupiter	–Hamal	–Aldebaran
0	41 30.3 2987	10 31.5 3843	73 22.3 2651	80 1.3 2663	113 5.5 2657
3	43 0.8 3004	11 45.7 3689	71 44.5 2668	78 23.8 2680	111 27.9 2674
6	44 30.9 3022	13 2.7 3585	70 7.1 2685	76 46.7 2697	109 50.6 2689
9	46 0.6 3040	14 21.5 3515	68 30.2 2702	75 10.0 2714	108 13.8 2705
12	47 30.0 3057	15 41.7 3467	66 53.5 2719	73 33.7 2731	106 37.2 2721
15	48 59.0 3074	17 2.7 3434	65 17.3 2735	71 57.7 2748	105 1.0 2737
18	50 27.7 3092	18 24.3 3411	63 41.4 2752	70 22.1 2764	103 25.2 2752
21	51 56.0 3109	19 46.4 3397	62 5.9 2769	68 46.9 2781	101 49.7 2768
29 UT	+Sun	+Venus	–Jupiter	–Hamal	–Aldebaran
0	53 24.0 3125	21 8.7 3389	60 30.8 2784	67 12.0 2797	100 14.5 2783
3	54 51.7 3142	22 31.2 3385	58 56.0 2801	65 37.5 2813	98 39.7 2798
6	56 19.0 3159	23 53.7 3385	57 21.5 2817	64 3.3 2830	97 5.2 2814
9	57 45.9 3175	25 16.3 3386	55 47.5 2833	62 29.5 2845	95 31.1 2828
12	59 12.6 3191	26 38.8 3391	54 13.7 2849	60 56.0 2862	93 57.2 2843
15	60 38.9 3206	28 1.3 3396	52 40.3 2864	59 22.9 2877	92 23.7 2857
18	62 4.9 3222	29 23.6 3402	51 7.3 2879	57 50.1 2893	90 50.5 2871
21	63 30.6 3236	30 45.8 3410	49 34.5 2894	56 17.7 2908	89 17.6 2884
30 UT	+Sun	+Venus	–Jupiter	–Hamal	–Aldebaran
0	64 56.1 3251	32 7.9 3418	48 2.1 2910	54 45.5 2923	87 44.9 2898
3	66 21.2 3265	33 29.8 3426	46 30.0 2924	53 13.7 2938	86 12.6 2911
6	67 46.1 3279	34 51.6 3435	44 58.2 2938	51 42.2 2953	84 40.5 2924
9	69 10.7 3292	36 13.2 3444	43 26.7 2953	50 11.0 2968	83 8.7 2936
12	70 35.0 3305	37 34.7 3453	41 55.5 2967	48 40.2 2982	81 37.2 2949
15	71 59.1 3318	38 55.9 3462	40 24.6 2981	47 9.6 2997	80 5.9 2960
18	73 22.9 3330	40 17.0 3471	38 54.0 2995	45 39.3 3011	78 34.9 2972
21	74 46.5 3342	41 37.9 3481	37 23.7 3009	44 9.3 3025	77 4.1 2983
31 UT	+Sun	+Venus	–Jupiter	–Hamal	–Aldebaran
0	76 9.9 3353	42 58.7 3489	35 53.7 3022	42 39.7 3039	75 33.5 2993
3	77 33.1 3363	44 19.3 3497	34 24.0 3037	41 10.3 3054	74 3.2 3003
6	78 56.0 3375	45 39.7 3506	32 54.5 3050	39 41.2 3068	72 33.0 3013
9	80 18.8 3384	47 0.0 3514	31 25.3 3064	38 12.4 3082	71 3.1 3022
12	81 41.3 3393	48 20.2 3521	29 56.5 3078	36 43.9 3097	69 33.4 3031
15	83 3.7 3402	49 40.2 3529	28 27.9 3093	35 15.6 3112	68 3.8 3040
18	84 26.0 3410	51 0.0 3535	26 59.6 3109	33 47.7 3127	66 34.4 3048
21	85 48.1 3418	52 19.8 3542	25 31.6 3125	32 20.1 3144	65 5.2 3056