

C/2014 R1 (Borisov)

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1	m2
2015 04 01		17 07 53.5	-12 49 25	1.7610	2.3427	113.3	23.1	16.9	
2015 04 02		17 07 57.6	-12 48 57	1.7593	2.3528	114.2	22.8	16.9	
2015 04 03		17 07 59.7	-12 48 28	1.7577	2.3628	115.2	22.5	17.0	
2015 04 04		17 07 59.9	-12 47 59	1.7562	2.3729	116.1	22.2	17.0	
2015 04 05		17 07 58.0	-12 47 30	1.7547	2.3830	117.1	21.9	17.0	
2015 04 06		17 07 54.3	-12 47 01	1.7534	2.3931	118.1	21.6	17.0	
2015 04 07		17 07 48.5	-12 46 32	1.7521	2.4032	119.1	21.3	17.0	
2015 04 08		17 07 40.9	-12 46 03	1.7509	2.4133	120.1	21.0	17.0	
2015 04 09		17 07 31.3	-12 45 34	1.7499	2.4235	121.1	20.7	17.1	
2015 04 10		17 07 19.9	-12 45 06	1.7489	2.4336	122.1	20.4	17.1	
2015 04 11		17 07 06.5	-12 44 38	1.7480	2.4437	123.1	20.1	17.1	
2015 04 12		17 06 51.3	-12 44 11	1.7473	2.4539	124.1	19.8	17.1	
2015 04 13		17 06 34.2	-12 43 44	1.7467	2.4640	125.1	19.4	17.1	
2015 04 14		17 06 15.3	-12 43 18	1.7462	2.4742	126.2	19.1	17.1	
2015 04 15		17 05 54.6	-12 42 53	1.7458	2.4844	127.2	18.8	17.2	
2015 04 16		17 05 32.1	-12 42 29	1.7456	2.4945	128.3	18.4	17.2	
2015 04 17		17 05 07.8	-12 42 06	1.7455	2.5047	129.3	18.1	17.2	
2015 04 18		17 04 41.8	-12 41 43	1.7455	2.5149	130.4	17.7	17.2	
2015 04 19		17 04 14.1	-12 41 23	1.7457	2.5251	131.4	17.3	17.2	
2015 04 20		17 03 44.8	-12 41 03	1.7461	2.5353	132.5	17.0	17.3	
2015 04 21		17 03 13.8	-12 40 45	1.7466	2.5455	133.6	16.6	17.3	
2015 04 22		17 02 41.2	-12 40 28	1.7473	2.5557	134.7	16.2	17.3	
2015 04 23		17 02 07.1	-12 40 13	1.7482	2.5659	135.7	15.9	17.3	
2015 04 24		17 01 31.5	-12 39 59	1.7492	2.5761	136.8	15.5	17.3	
2015 04 25		17 00 54.5	-12 39 47	1.7505	2.5863	137.9	15.1	17.3	
2015 04 26		17 00 16.0	-12 39 37	1.7519	2.5966	139.0	14.7	17.4	
2015 04 27		16 59 36.1	-12 39 28	1.7535	2.6068	140.1	14.3	17.4	
2015 04 28		16 58 55.0	-12 39 22	1.7553	2.6170	141.2	13.9	17.4	
2015 04 29		16 58 12.5	-12 39 17	1.7573	2.6273	142.3	13.5	17.4	
2015 04 30		16 57 28.9	-12 39 15	1.7595	2.6375	143.4	13.2	17.4	

17P/Holmes

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1	m2
2015 04 01		05 06 24.3	+36 56 17	3.4908	3.2675	68.9	16.6	20.2	
2015 04 02		05 07 44.9	+36 52 52	3.5079	3.2717	68.2	16.5	20.2	
2015 04 03		05 09 05.8	+36 49 29	3.5249	3.2759	67.5	16.4	20.2	
2015 04 04		05 10 27.1	+36 46 07	3.5419	3.2801	66.8	16.3	20.2	
2015 04 05		05 11 48.7	+36 42 46	3.5589	3.2843	66.1	16.2	20.2	
2015 04 06		05 13 10.7	+36 39 27	3.5757	3.2885	65.5	16.1	20.2	
2015 04 07		05 14 33.0	+36 36 08	3.5926	3.2927	64.8	16.0	20.2	
2015 04 08		05 15 55.6	+36 32 51	3.6093	3.2969	64.1	15.8	20.2	
2015 04 09		05 17 18.5	+36 29 36	3.6260	3.3011	63.4	15.7	20.2	
2015 04 10		05 18 41.8	+36 26 21	3.6426	3.3053	62.7	15.6	20.3	
2015 04 11		05 20 05.3	+36 23 07	3.6592	3.3095	62.0	15.5	20.3	
2015 04 12		05 21 29.1	+36 19 54	3.6756	3.3137	61.3	15.4	20.3	
2015 04 13		05 22 53.3	+36 16 41	3.6920	3.3178	60.7	15.3	20.3	
2015 04 14		05 24 17.7	+36 13 30	3.7084	3.3220	60.0	15.2	20.3	
2015 04 15		05 25 42.3	+36 10 19	3.7246	3.3262	59.3	15.0	20.3	
2015 04 16		05 27 07.2	+36 07 08	3.7408	3.3304	58.6	14.9	20.3	
2015 04 17		05 28 32.4	+36 03 58	3.7569	3.3345	57.9	14.8	20.3	
2015 04 18		05 29 57.8	+36 00 49	3.7729	3.3387	57.3	14.7	20.3	
2015 04 19		05 31 23.4	+35 57 40	3.7888	3.3428	56.6	14.5	20.3	
2015 04 20		05 32 49.3	+35 54 32	3.8046	3.3470	55.9	14.4	20.3	
2015 04 21		05 34 15.4	+35 51 23	3.8204	3.3512	55.3	14.3	20.3	
2015 04 22		05 35 41.6	+35 48 15	3.8360	3.3553	54.6	14.1	20.4	
2015 04 23		05 37 08.1	+35 45 07	3.8516	3.3595	53.9	14.0	20.4	
2015 04 24		05 38 34.7	+35 42 00	3.8670	3.3636	53.3	13.9	20.4	
2015 04 25		05 40 01.6	+35 38 52	3.8824	3.3677	52.6	13.7	20.4	
2015 04 26		05 41 28.5	+35 35 44	3.8976	3.3719	51.9	13.6	20.4	
2015 04 27		05 42 55.7	+35 32 37	3.9128	3.3760	51.3	13.5	20.4	
2015 04 28		05 44 23.0	+35 29 29	3.9278	3.3802	50.6	13.3	20.4	
2015 04 29		05 45 50.4	+35 26 21	3.9428	3.3843	50.0	13.2	20.4	
2015 04 30		05 47 17.9	+35 23 13	3.9577	3.3884	49.3	13.0	20.4	

22P/Kopff

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1	m2
2015 04 01		12 55 14.8	+02 13 17	1.4724	2.4663	172.4	3.1	14.0	19.6
2015 04 02		12 54 22.5	+02 20 30	1.4660	2.4602	172.5	3.0	14.0	19.6
2015 04 03		12 53 29.7	+02 27 43	1.4598	2.4541	172.3	3.1	14.0	19.6
2015 04 04		12 52 36.3	+02 34 53	1.4540	2.4481	172.0	3.3	13.9	19.6
2015 04 05		12 51 42.5	+02 42 02	1.4484	2.4420	171.5	3.5	13.9	19.6
2015 04 06		12 50 48.3	+02 49 08	1.4430	2.4359	170.9	3.7	13.8	19.6
2015 04 07		12 49 53.8	+02 56 11	1.4379	2.4299	170.1	4.1	13.8	19.6
2015 04 08		12 48 59.0	+03 03 10	1.4331	2.4238	169.3	4.4	13.8	19.6
2015 04 09		12 48 04.0	+03 10 04	1.4286	2.4177	168.3	4.8	13.7	19.6
2015 04 10		12 47 08.8	+03 16 55	1.4243	2.4117	167.4	5.2	13.7	19.6
2015 04 11		12 46 13.6	+03 23 39	1.4203	2.4056	166.4	5.6	13.7	19.6
2015 04 12		12 45 18.5	+03 30 18	1.4166	2.3995	165.3	6.1	13.6	19.6
2015 04 13		12 44 23.4	+03 36 51	1.4131	2.3935	164.3	6.5	13.6	19.6
2015 04 14		12 43 28.4	+03 43 17	1.4099	2.3874	163.2	7.0	13.6	19.7
2015 04 15		12 42 33.7	+03 49 36	1.4069	2.3813	162.1	7.5	13.5	19.7
2015 04 16		12 41 39.3	+03 55 47	1.4042	2.3753	160.9	7.9	13.5	19.7
2015 04 17		12 40 45.3	+04 01 49	1.4017	2.3692	159.8	8.4	13.5	19.7
2015 04 18		12 39 51.7	+04 07 43	1.3995	2.3632	158.7	8.9	13.4	19.7
2015 04 19		12 38 58.7	+04 13 27	1.3976	2.3571	157.5	9.4	13.4	19.7
2015 04 20		12 38 06.2	+04 19 02	1.3959	2.3510	156.4	9.8	13.4	19.7
2015 04 21		12 37 14.5	+04 24 27	1.3944	2.3450	155.3	10.3	13.3	19.7
2015 04 22		12 36 23.5	+04 29 41	1.3932	2.3389	154.1	10.8	13.3	19.7
2015 04 23		12 35 33.3	+04 34 44	1.3922	2.3329	153.0	11.3	13.3	19.8
2015 04 24		12 34 44.0	+04 39 36	1.3914	2.3268	151.8	11.8	13.3	19.8
2015 04 25		12 33 55.7	+04 44 16	1.3909	2.3208	150.7	12.2	13.2	19.8
2015 04 26		12 33 08.3	+04 48 44	1.3905	2.3147	149.5	12.7	13.2	19.8
2015 04 27		12 32 22.1	+04 53 00	1.3904	2.3087	148.4	13.2	13.2	19.8
2015 04 28		12 31 36.9	+04 57 04	1.3905	2.3026	147.3	13.7	13.1	19.8
2015 04 29		12 30 53.0	+05 00 55	1.3908	2.2966	146.2	14.1	13.1	19.8
2015 04 30		12 30 10.3	+05 04 33	1.3914	2.2905	145.0	14.6	13.1	19.8