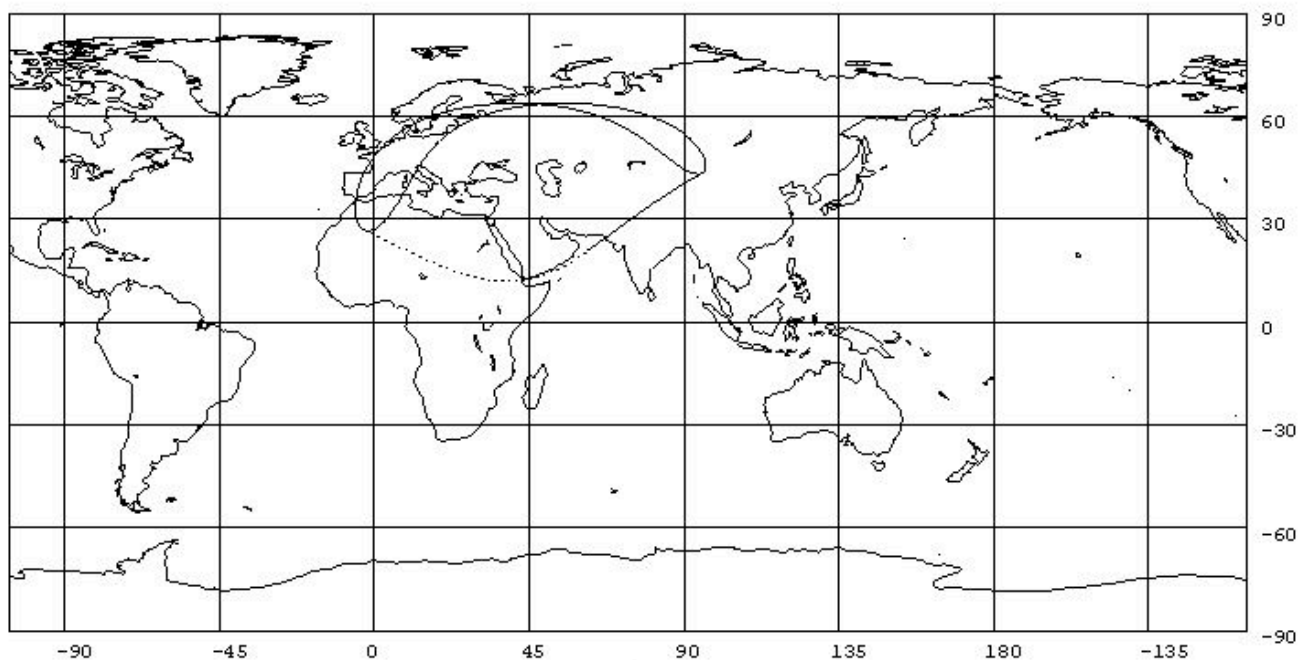


OCCULTATION OF SIGMA SGR on 03 NOV

Occultation of 2750SB2, Magnitude 2.1, on 2008 Nov 3



UT of conjunction = 18h 50.8m

Occult4.0.10

UNIVERSAL TIME OF DISAPPEARANCE & REAPPEARANCE

Occultation predictions of 2750SB2 Magnitude 2.1
Date 2008 Nov 3

Moon: % illumination = 25+, Solar elongation = 61

Disappearance

Location	U.T.			Sun Moon			CA	PA	WA	a	b
	h	m	s	Alt	Alt	Az					
Abastumani Georg	11	51	46	20	20	161	79N	75	79	+2.1	+0.9
Amman Jordan	11	27	51	34	24	148	84S	92	96	+2.1	+0.8
Ankara Turkey	11	29	53	29	16	147	83N	80	84	+1.8	+1.2
Ashkhabad Turkme	12	25	15	7	26	184	89S	88	92	+2.5	-0.1
Aswan Egypt	11	18	18	43	28	141	64S	112	116	+1.9	-0.1
Athens Greece	11	13	0	35	11	136	87S	89	93	+1.4	+1.2
Bagdad Iraq	11	48	32	25	28	160	89S	88	92	+2.5	+0.6
Baku Azerbaijan	12	5	54	14	23	171	82N	79	83	+2.2	+0.6
Beirut Lebanon	11	28	33	32	22	148	88S	89	93	+2.1	+0.9
Beograd Yugoslav	11	18	21	29	5	136	84N	81	85	+1.2	+1.5
Bucharest Romani	11	25	13	27	9	141	81N	77	81	+1.5	+1.5
Cairo Egypt	11	17	16	39	22	141	78S	99	103	+1.8	+0.7
Cluj Romania	11	25	14	26	6	140	79N	76	80	+1.3	+1.5
Damascus Syria	11	29	46	32	23	149	87S	89	93	+2.1	+0.9
Dnepropetrovsk R	11	44	51	19	11	153	72N	69	73	+1.6	+1.3
Iraklion Greece	11	12	2	37	14	137	83S	93	97	+1.4	+1.1
Istanbul Turkey	11	24	50	30	13	143	84N	80	84	+1.6	+1.3
Izmir Turkey	11	18	37	33	13	140	89N	86	90	+1.6	+1.2
Kazan Russia	12	12	41	5	8	172	68N	64	69	+1.4	+0.5
Kharkov Ukraine	11	48	41	17	10	155	70N	67	71	+1.6	+1.2
Kiev Ukraine	11	40	30	19	7	149	72N	68	72	+1.5	+1.4
Kirov Russia	12	15	0	3	5	173	67N	64	68	+1.3	+0.4

Kishinev Moldavi	11 33 6	24 9 145	76N	72	76	+1.5	+1.4
Kuwait Kuwait	11 56 28	24 33 165	80S	96	100	+2.8	+0.2
Lecce Italy	11 9 17	34 6 132	87S	90	94	+1.1	+1.3
Manama Bahrain	12 4 42	22 37 170	72S	105	109	+3.2	-0.3
Mecca Saudi Arab	11 34 23	38 35 150	61S	115	119	+2.6	-0.6
Moscow Russia	11 56 57	11 6 158	67N	63	67	+1.4	+1.0
Nizhny Novgorod	12 6 20	7 7 166	67N	63	67	+1.4	+0.7
Odessa Ukraine	11 35 21	23 10 147	76N	72	76	+1.6	+1.4
Riyadh Saudi Ara	11 53 2	28 37 162	70S	107	111	+3.0	-0.3
Ryazan Russia	11 58 59	11 7 161	67N	64	68	+1.4	+0.9
Saratov Russia	12 5 59	10 12 168	70N	66	70	+1.6	+0.7
Sevastopol Ukrai	11 37 21	24 13 150	77N	73	77	+1.7	+1.3
Shiraz Iran	12 9 54	18 34 174	78S	98	102	+3.0	-0.1
Sofia Bulgaria	11 18 49	30 8 138	85N	82	86	+1.3	+1.4
Tbilisi Georgia	11 56 41	17 20 164	78N	74	79	+2.1	+0.8
Tehran Iran	12 7 33	16 28 172	90N	86	90	+2.6	+0.3
Tel-Aviv Israel	11 25 35	35 23 146	84S	92	97	+2.0	+0.8
Thessaloniki Gre	11 15 26	32 9 137	89N	85	89	+1.3	+1.4
Tirane Albania	11 12 29	32 7 134	90S	87	91	+1.2	+1.4
Tripoli Libya	10 57 45	42 6 126	65S	111	116	+0.6	+0.5
Ulyanovsk Russia	12 11 19	6 9 171	68N	65	69	+1.5	+0.5
Valletta Malta	11 0 50	39 5 128	73S	103	107	+0.8	+0.9
Yerevan Armenia	11 53 35	20 21 163	81N	77	81	+2.2	+0.9
Zelenchukskaya R	11 50 52	19 17 160	76N	73	77	+2.0	+1.0

Reappearance

Location	U.T.			Sun Moon			CA	PA	WA	a	b
	h	m	s	Alt	Alt	Az	o	o	o	m/o	m/o
Abastumani Georg	13 23 54	6	22	183	-83S	259	263	+2.2	+0.1		
Algiers Algeria	12 1 26	38	7	130	-67S	243	247	+1.4	+1.9		
Amman Jordan	13 3 1	19	31	170	-72S	248	252	+2.6	+0.9		
Ankara Turkey	13 0 44	17	23	168	-86S	262	266	+2.3	+0.6		
Ashkhabad Turkme	13 52 47	-10	22	205	-58S	234	239	+1.4	+0.2		
Aswan Egypt	12 44 23	29	37	161	-56S	233	237	+2.8	+1.8		
Athens Greece	12 39 14	26	21	154	-83S	260	264	+2.1	+1.1		
Bagdad Iraq	13 25 1	8	30	185	-68S	244	248	+2.3	+0.6		
Baku Azerbaijan	13 38 27	-1	22	193	-74S	250	254	+1.9	+0.0		
Beirut Lebanon	13 3 24	18	29	170	-75S	252	256	+2.5	+0.8		
Beograd Yugoslav	12 40 6	22	14	152	-88N	268	272	+1.7	+1.0		
Bologna Italy	12 25 23	27	9	142	-87S	263	268	+1.4	+1.4		
Brno Czech Repub	12 38 44	20	9	149	-85N	271	276	+1.4	+1.1		
Bucharest Romani	12 49 53	19	17	159	-88N	268	273	+1.9	+0.8		
Budapest Hungary	12 40 31	21	11	151	-86N	271	275	+1.6	+1.0		
Cairo Egypt	12 48 43	26	31	162	-70S	246	250	+2.6	+1.2		
Catania Italy	12 21 55	32	16	143	-79S	255	259	+1.8	+1.4		
Cluj Romania	12 47 16	19	14	157	-86N	271	275	+1.7	+0.9		
Damascus Syria	13 5 0	17	30	171	-74S	251	255	+2.5	+0.8		
Dnepropetrovsk R	13 9 15	9	15	172	-85N	271	275	+1.9	+0.3		
Graz Austria	12 34 34	23	10	147	-87N	269	273	+1.5	+1.2		
Iraklion Greece	12 39 40	27	24	155	-79S	256	260	+2.3	+1.1		
Istanbul Turkey	12 53 6	19	21	162	-88S	264	269	+2.1	+0.7		
Izmir Turkey	12 47 6	23	22	159	-84S	261	265	+2.2	+0.9		
Kazan Russia	13 32 8	-5	8	190	-88N	269	273	+1.5	-0.4		
Kharkov Ukraine	13 11 53	7	14	174	-85N	272	276	+1.8	+0.2		
Kiev Ukraine	13 1 52	11	12	166	-83N	274	278	+1.7	+0.5		
Kirov Russia	13 32 12	-6	5	191	-87N	270	274	+1.3	-0.5		
Kishinev Moldavi	12 56 57	15	15	164	-85N	271	275	+1.9	+0.6		
Krakow Poland	12 44 19	18	9	153	-83N	273	277	+1.5	+1.0		
Kuwait Kuwait	13 30 0	6	34	191	-55S	232	236	+2.1	+1.0		
Lecce Italy	12 31 5	28	16	148	-85S	261	266	+1.8	+1.2		
Ljubljana Sloven	12 31 54	24	10	146	-89N	267	272	+1.5	+1.2		
Lvov Ukraine	12 50 37	16	11	158	-83N	274	278	+1.6	+0.8		
Manama Bahrain	13 31 28	4	36	194	-44S	220	225	+1.8	+1.5		
Mecca Saudi Arab	12 58 36	22	42	172	-46S	222	226	+2.7	+2.2		
Milano Italy	12 23 50	27	7	140	-87S	263	268	+1.3	+1.4		
Minsk Belarus	12 59 5	10	8	163	-80N	276	281	+1.5	+0.6		
Moscow Russia	13 15 7	3	8	176	-81N	275	279	+1.5	+0.1		
Naples Italy	12 24 58	30	13	143	-84S	260	264	+1.6	+1.3		
Nizhny Novgorod	13 24 57	-2	7	184	-84N	272	276	+1.5	-0.2		

Odessa Ukraine	13	0	11	14	16	166	-86N	270	275	+1.9	+0.5
Padua Italy	12	27	21	26	9	142	-89S	265	269	+1.4	+1.3
Palermo Italy	12	19	45	33	14	141	-79S	255	259	+1.7	+1.5
Riyadh Saudi Ara	13	21	23	10	39	187	-46S	222	227	+2.2	+1.6
Roma Italy	12	23	32	29	11	142	-84S	261	265	+1.5	+1.4
Rostov Russia	13	17	41	1	7	178	-82N	275	279	+1.5	+0.1
Ryazan Russia	13	18	30	2	9	179	-83N	273	278	+1.6	+0.0
Saratov Russia	13	29	19	-1	12	187	-89N	267	271	+1.7	-0.3
Sevastopol Ukrai	13	4	47	13	19	170	-89N	268	272	+2.1	+0.4
Shiraz Iran	13	39	6	0	32	198	-49S	226	230	+1.7	+1.0
Skalnate Pleso S	12	44	5	18	10	153	-84N	273	277	+1.5	+1.0
Smolensk Russia	13	6	22	7	8	169	-80N	276	280	+1.5	+0.4
Sofia Bulgaria	12	43	8	22	17	155	-90S	266	270	+1.9	+0.9
Tbilisi Georgia	13	28	24	3	21	186	-82S	258	262	+2.1	+0.0
Tehran Iran	13	40	50	-1	26	196	-64S	240	244	+1.9	+0.3
Tel-Aviv Israel	13	0	10	20	31	169	-73S	249	253	+2.6	+0.9
Thessaloniki Gre	12	40	24	24	18	154	-87S	263	268	+2.0	+1.0
Tirane Albania	12	35	12	26	16	150	-87S	263	268	+1.8	+1.1
Tripoli Libya	12	11	6	38	17	139	-68S	245	249	+1.9	+1.8
Tunis Tunisia	12	12	22	36	13	137	-74S	250	254	+1.6	+1.6
Ulyanovsk Russia	13	32	5	-4	9	190	-89N	268	272	+1.5	-0.4
Valletta Malta	12	18	16	35	17	141	-75S	252	256	+1.8	+1.5
Vilnius Lithuani	12	56	16	11	7	161	-79N	277	281	+1.4	+0.7
Warszawa Poland	12	48	12	15	8	155	-81N	275	279	+1.4	+0.9
Wien Austria	12	37	13	21	9	148	-86N	270	275	+1.4	+1.1
Wroclaw POLAND	12	41	27	18	7	150	-83N	273	278	+1.4	+1.1
Yerevan Armenia	13	27	4	5	23	185	-79S	256	260	+2.2	+0.1
Zagreb Croatia	12	33	57	24	11	147	-89N	268	272	+1.5	+1.2
Zelenchukskaya R	13	21	9	6	20	181	-86S	262	267	+2.1	+0.1

Sites		
Location	E. Long	Latitude
Abastumani Georg	42 49.4	41 45.3
Algiers Algeria	3 2.1	36 48.1
Amman Jordan	35 56.0	31 57.0
Ankara Turkey	32 46.8	39 50.6
Ashkhabad Turkme	58 21.1	37 57.4
Aswan Egypt	32 53.0	24 5.0
Athens Greece	23 43.2	37 58.4
Bagdad Iraq	44 26.0	33 20.0
Baku Azerbaijan	49 51.0	40 23.0
Beirut Lebanon	35 30.0	33 52.0
Beograd Yugoslav	20 30.8	44 48.2
Bologna Italy	11 20.5	44 28.1
Brno Czech Repub	16 35.3	49 12.3
Bucharest Romani	26 5.8	44 24.8
Budapest Hungary	19 3.9	47 29.1
Cairo Egypt	31 15.0	30 3.0
Catania Italy	15 5.2	37 30.2
Cluj Romania	23 35.9	46 42.8
Damascus Syria	36 15.0	33 30.0
Dnepropetrovsk R	35 2.7	48 26.1
Graz Austria	15 26.9	47 4.6
Iraklion Greece	25 8.0	35 20.0
Istanbul Turkey	28 57.9	41 0.7
Izmir Turkey	27 10.0	38 25.0
Kazan Russia	48 48.9	55 50.3
Kharkov Ukraine	36 13.9	50 0.2
Kiev Ukraine	30 29.9	50 27.2
Kirov Russia	49 42.0	58 33.0
Kishinev Moldavi	28 52.0	46 57.4
Krakow Poland	19 49.6	50 3.3
Kuwait Kuwait	48 0.0	29 20.0
Lecce Italy	18 10.5	40 21.1
Ljubljana Sloven	14 28.2	46 2.8
Lvov Ukraine	24 1.8	49 50.0
Manama Bahrain	50 38.0	26 12.0

Mecca Saudi Arab	39 49.0	21 26.0
Milano Italy	9 11.5	45 28.0
Minsk Belorus	27 34.0	53 54.0
Moscow Russia	37 32.7	55 42.0
Naples Italy	14 15.3	40 51.8
Nizhny Novgorod	44 0.3	56 19.6
Odessa Ukraine	30 45.5	46 28.6
Padua Italy	11 52.3	45 24.0
Palermo Italy	13 21.5	38 6.7
Riyadh Saudi Ara	46 46.0	24 39.0
Roma Italy	12 27.1	41 55.3
Rostov Russia	39 9.0	57 5.5
Ryazan Russia	39 45.2	54 38.1
Saratov Russia	46 6.0	51 24.2
Sevastopol Ukrai	33 32.0	44 36.0
Shiraz Iran	52 34.0	29 38.0
Skalnate Pleso S	20 14.7	49 11.3
Smolensk Russia	32 3.0	54 46.0
Sofia Bulgaria	23 20.8	42 41.0
Tbilisi Georgia	44 54.0	42 25.8
Tehran Iran	51 26.0	35 40.0
Tel-Aviv Israel	34 47.3	32 5.2
Thessaloniki Gre	22 57.5	40 37.0
Tirane Albania	19 49.0	41 20.0
Tripoli Libya	13 12.0	32 53.0
Tunis Tunisia	10 11.0	36 48.0
Ulyanovsk Russia	48 23.2	54 19.3
Valletta Malta	14 32.0	35 45.0
Vilnius Lithuani	25 17.2	54 41.0
Warszawa Poland	21 4.2	52 12.8
Wien Austria	16 20.2	48 13.9
Wroclaw POLAND	17 2.5	51 6.4
Yerevan Armenia	44 17.5	40 20.1
Zagreb Croatia	16 1.3	45 49.5
Zelenchukskaya R	41 26.5	43 39.2

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