

**TÜRKSAT-2A BSS BANDI İÇİN 2010 SONBAHAR DÖNEMİ GÜNEŞ ETKİ (SOLAR OUTAGE) ZAMANLARI (UPLINK)**

**Solar Outage Times in Autumn 2010 for BSS band of Türksat 2A (Eurasiasat 1) (UPLINK)**

Şehirler (Cities)		İstanbul			Ankara			Van			Bağdat Baghdad		
Anten Çapı (Antenna Diameter)	Tarih (Date)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)
1.8 m.	Oct 3												
	Oct 4										09:00	09:02	09:04
	Oct 5										08:58	09:02	09:05
	Oct 6				08:54	08:55	08:57	08:58	09:01	09:03	08:57	09:01	09:06
	Oct 7				08:52	08:55	08:58	08:57	09:00	09:04	08:57	09:01	09:05
	Oct 8	08:49	08:53	08:57	08:50	08:55	08:59	08:56	09:00	09:05	08:57	09:01	09:05
	Oct 9	08:48	08:53	08:57	08:50	08:54	08:59	08:56	09:00	09:04	08:58	09:01	09:03
	Oct 10	08:48	08:52	08:57	08:50	08:54	08:58	08:56	09:00	09:03			
Oct 11	08:49	08:52	08:56	08:51	08:54	08:57	08:57	08:59	09:02				
Oct 12	08:50	08:52	08:54										
3.0 m.	Oct 5										09:00	09:02	09:04
	Oct 6										08:59	09:02	09:05
	Oct 7				08:53	08:55	08:57	08:58	09:01	09:03	08:58	09:01	09:04
	Oct 8	08:50	08:53	08:56	08:52	08:55	08:58	08:57	09:00	09:03	08:58	09:01	09:04
	Oct 9	08:50	08:53	08:56	08:51	08:54	08:58	08:57	09:00	09:03			
	Oct 10	08:49	08:52	08:55	08:51	08:54	08:57	08:58	09:00	09:02			
Oct 11	08:50	08:52	08:54	08:53	08:54	08:55							
5.0 m.	Oct 6										08:59	09:01	09:04
	Oct 7							08:59	09:01	09:02	08:59	09:01	09:04
	Oct 8	08:51	08:53	08:55	08:52	08:54	08:57	08:58	09:00	09:03	08:59	09:01	09:03
	Oct 9	08:50	08:53	08:55	08:52	08:54	08:57	08:58	09:00	09:02			
	Oct 10	08:50	08:52	08:55	08:52	08:54	08:56	08:59	09:00	09:01			
Oct 11	08:52	08:52	08:52										
Şehirler (Cities)		Madrid			Londra London			Berlin			Belgrat Belgrade		
Anten Çapı (Antenna Diameter)	Tarih (Date)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)
1.8 m.	Oct 6	08:37	08:40	08:42									
	Oct 7	08:36	08:39	08:43									
	Oct 8	08:35	08:39	08:43							08:46	08:49	08:52
	Oct 9	08:35	08:39	08:43	08:41	08:44	08:46				08:45	08:49	08:53
	Oct 10	08:35	08:39	08:42	08:40	08:43	08:47	08:45	08:48	08:51	08:44	08:49	08:53
	Oct 11	08:36	08:38	08:41	08:39	08:43	08:47	08:43	08:47	08:52	08:44	08:48	08:53
	Oct 12				08:39	08:43	08:47	08:43	08:47	08:52	08:45	08:48	08:51
	Oct 13				08:39	08:43	08:46	08:43	08:47	08:51	08:46	08:48	08:49
	Oct 14				08:40	08:42	08:45	08:43	08:47	08:50			
Oct 15							08:45	08:47	08:48				
Oct 16													
3.0 m.	Oct 7	08:37	08:40	08:42									
	Oct 8	08:36	08:39	08:42							08:48	08:49	08:50
	Oct 9	08:36	08:39	08:42							08:46	08:49	08:52
	Oct 10	08:37	08:39	08:41	08:41	08:43	08:46	08:47	08:48	08:49	08:46	08:49	08:52
	Oct 11				08:40	08:43	08:46	08:45	08:48	08:51	08:46	08:48	08:51
	Oct 12				08:40	08:43	08:46	08:44	08:48	08:51	08:47	08:48	08:50
	Oct 13				08:40	08:43	08:45	08:44	08:47	08:50			
Oct 14							08:46	08:47	08:48				
5.0 m.	Oct 7	08:38	08:40	08:41									
	Oct 8	08:37	08:39	08:42									
	Oct 9	08:37	08:39	08:41							08:47	08:49	08:51
	Oct 10	08:38	08:39	08:40	08:42	08:43	08:44				08:46	08:49	08:51
	Oct 11				08:41	08:43	08:45	08:46	08:48	08:50	08:47	08:49	08:51
	Oct 12				08:40	08:43	08:45	08:45	08:47	08:50			
Oct 13				08:41	08:43	08:44	08:45	08:47	08:49				

Şehirler (Cities)		Bakü Baku			Astana			Kabil Kabul			Karaçi Karachi		
Anten Çapı (Antenna Diameter)	Tarih (Date)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)
1.8 m.	Oct 1										09:14	09:17	09:20
	Oct 2										09:13	09:17	09:21
	Oct 3										09:12	09:16	09:21
	Oct 4							09:14	09:16	09:17	09:12	09:16	09:20
	Oct 5							09:12	09:15	09:19	09:12	09:16	09:19
	Oct 6							09:11	09:15	09:19	09:14	09:15	09:17
	Oct 7	09:01	09:04	09:07				09:10	09:15	09:19			
	Oct 8	08:59	09:03	09:08				09:10	09:14	09:18			
	Oct 9	08:59	09:03	09:08	09:09	09:11	09:13	09:11	09:14	09:17			
	Oct 10	08:59	09:03	09:07	09:07	09:11	09:14						
	Oct 11	08:59	09:03	09:06	09:06	09:11	09:15						
	Oct 12	09:01	09:02	09:03	09:06	09:10	09:15						
	Oct 13				09:06	09:10	09:14						
	Oct 14				09:07	09:10	09:13						
3.0 m.	Oct 2										09:14	09:17	09:19
	Oct 3										09:13	09:16	09:19
	Oct 4										09:13	09:16	09:19
	Oct 5							09:13	09:15	09:17	09:14	09:16	09:17
	Oct 6							09:12	09:15	09:18			
	Oct 7	09:03	09:04	09:05				09:11	09:14	09:18			
	Oct 8	09:01	09:04	09:07				09:11	09:14	09:17			
	Oct 9	09:00	09:03	09:07				09:13	09:14	09:15			
	Oct 10	09:00	09:03	09:06	09:09	09:11	09:13						
	Oct 11	09:01	09:03	09:04	09:07	09:10	09:13						
	Oct 12				09:07	09:10	09:13						
	Oct 13				09:07	09:10	09:12						
	Oct 14				09:09	09:10	09:10						
	5.0 m.	Oct 2										09:15	09:17
Oct 3											09:14	09:16	09:19
Oct 4											09:14	09:16	09:18
Oct 5											09:16	09:16	09:16
Oct 6								09:13	09:15	09:17			
Oct 7								09:12	09:15	09:17			
Oct 8		09:02	09:04	09:05				09:12	09:14	09:16			
Oct 9		09:01	09:03	09:06									
Oct 10		09:01	09:03	09:05	09:10	09:11	09:11						
Oct 11					09:08	09:10	09:13						
Oct 12					09:08	09:10	09:13						
Oct 13					09:08	09:10	09:12						

**Not:** Hesaplamalarda anten hüzmeye genişliği (antenna beamwidth) geniş (**kötümser**) alınmıştır. Kullanılan frekans, BSS band uplink frekansının merkezi seçilmiştir. Zamanlar **GMT**'ye göre verilmiştir. Tabloda verilen şehirlerden farklı bir yerden yayın yapıyorsanız size en yakın merkezin değerlerini kullanabilirsiniz. *Türkiye yerel saati GMT+2'dir.*

**Note:** The calculations are performed regarding wide (**pessimistic**) beamwidth and center frequency of BSS Band uplink. If your earth station place is not in the table, you can use the place above nearest your transmission place. Please note that all times are in **GMT**.





Şehirler (Cities)		Bakü Baku			Astana			Kabil Kabul			Karaçi Karachi		
Anten Çapı (Antenna Diameter)	Tarih (Date)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)
0.6 m.	Sep 24										09:16	09:20	09:23
	Sep 25										09:12	09:19	09:27
	Sep 26										09:09	09:19	09:28
	Sep 27										09:07	09:18	09:30
	Sep 28							09:12	09:18	09:23	09:06	09:18	09:30
	Sep 29							09:09	09:17	09:26	09:05	09:18	09:31
	Sep 30	09:01	09:06	09:11				09:07	09:17	09:27	09:04	09:17	09:31
	Oct 1	08:57	09:06	09:14				09:05	09:17	09:28	09:03	09:17	09:32
	Oct 2	08:55	09:05	09:16				09:03	09:16	09:29	09:02	09:17	09:31
	Oct 3	08:54	09:05	09:17	09:06	09:13	09:20	09:02	09:16	09:30	09:02	09:17	09:31
	Oct 4	08:52	09:05	09:17	09:03	09:13	09:22	09:02	09:16	09:30	09:01	09:16	09:31
	Oct 5	08:51	09:04	09:18	09:01	09:12	09:23	09:01	09:15	09:30	09:01	09:16	09:30
	Oct 6	08:50	09:04	09:18	09:00	09:12	09:24	09:00	09:15	09:30	09:01	09:16	09:30
	Oct 7	08:49	09:04	09:18	08:59	09:12	09:25	09:00	09:15	09:30	09:02	09:15	09:29
	Oct 8	08:49	09:04	09:18	08:58	09:11	09:25	09:00	09:14	09:29	09:02	09:15	09:28
	Oct 9	08:48	09:03	09:18	08:57	09:11	09:25	09:00	09:14	09:29	09:03	09:15	09:27
	Oct 10	08:48	09:03	09:18	08:56	09:11	09:25	09:00	09:14	09:28	09:04	09:14	09:25
	Oct 11	08:48	09:03	09:17	08:56	09:11	09:25	09:00	09:14	09:27	09:05	09:14	09:23
	Oct 12	08:48	09:03	09:17	08:55	09:10	09:25	09:01	09:13	09:26	09:07	09:14	09:21
	Oct 13	08:49	09:02	09:16	08:55	09:10	09:25	09:02	09:13	09:25	09:11	09:14	09:16
	Oct 14	08:49	09:02	09:15	08:55	09:10	09:24	09:03	09:13	09:23			
	Oct 15	08:50	09:02	09:14	08:56	09:10	09:24	09:04	09:13	09:21			
Oct 16	08:51	09:02	09:12	08:56	09:09	09:23	09:07	09:12	09:18				
Oct 17	08:52	09:01	09:10	08:56	09:09	09:22							
Oct 18	08:54	09:01	09:08	08:57	09:09	09:21							
Oct 19	08:59	09:01	09:03	08:58	09:09	09:19							
Oct 20				09:00	09:09	09:17							
Oct 21				09:02	09:08	09:15							
Oct 22				09:07	09:08	09:09							
0.9 m.	Sep 27										09:14	09:18	09:22
	Sep 28										09:11	09:18	09:24
	Sep 29										09:10	09:18	09:25
	Sep 30										09:08	09:17	09:26
	Oct 1							09:11	09:16	09:21	09:07	09:17	09:27
	Oct 2							09:09	09:16	09:23	09:06	09:17	09:27
	Oct 3	09:00	09:05	09:10				09:07	09:16	09:24	09:06	09:16	09:27
	Oct 4	08:58	09:05	09:11				09:06	09:15	09:25	09:06	09:16	09:26
	Oct 5	08:56	09:04	09:13	09:10	09:12	09:14	09:05	09:15	09:25	09:06	09:16	09:26
	Oct 6	08:55	09:04	09:13	09:06	09:12	09:17	09:04	09:15	09:25	09:06	09:15	09:25
	Oct 7	08:54	09:04	09:14	09:04	09:11	09:19	09:04	09:14	09:25	09:06	09:15	09:24
	Oct 8	08:53	09:03	09:14	09:02	09:11	09:20	09:04	09:14	09:24	09:07	09:15	09:22
	Oct 9	08:53	09:03	09:13	09:01	09:11	09:20	09:04	09:14	09:24	09:09	09:14	09:20
	Oct 10	08:53	09:03	09:13	09:01	09:11	09:21	09:04	09:14	09:23	09:12	09:14	09:16
	Oct 11	08:53	09:03	09:13	09:00	09:10	09:21	09:05	09:13	09:22			
	Oct 12	08:53	09:02	09:12	09:00	09:10	09:20	09:06	09:13	09:20			
	Oct 13	08:54	09:02	09:11	09:00	09:10	09:20	09:08	09:13	09:18			
	Oct 14	08:55	09:02	09:09	09:00	09:10	09:19						
Oct 15	08:56	09:02	09:07	09:00	09:09	09:19							
Oct 16	09:00	09:01	09:03	09:01	09:09	09:17							
Oct 17				09:02	09:09	09:16							
Oct 18				09:04	09:09	09:14							
1.2 m.	Sep 29										09:13	09:18	09:22
	Sep 30										09:11	09:17	09:23
	Oct 1										09:10	09:17	09:24
	Oct 2							09:13	09:16	09:19	09:09	09:17	09:24
	Oct 3							09:10	09:16	09:21	09:08	09:16	09:24
	Oct 4	09:02	09:05	09:08				09:09	09:15	09:22	09:08	09:16	09:24
	Oct 5	08:59	09:05	09:10				09:07	09:15	09:23	09:08	09:16	09:23
	Oct 6	08:58	09:04	09:11				09:07	09:15	09:23	09:08	09:15	09:22
	Oct 7	08:57	09:04	09:11	09:08	09:11	09:15	09:06	09:14	09:23	09:09	09:15	09:21
	Oct 8	08:56	09:04	09:12	09:05	09:11	09:17	09:06	09:14	09:22	09:11	09:15	09:19
	Oct 9	08:55	09:03	09:12	09:04	09:11	09:18	09:06	09:14	09:21			
	Oct 10	08:55	09:03	09:11	09:03	09:11	09:18	09:07	09:14	09:20			
	Oct 11	08:55	09:03	09:10	09:02	09:10	09:18	09:08	09:13	09:19			
	Oct 12	08:56	09:03	09:09	09:02	09:10	09:18	09:10	09:13	09:16			
	Oct 13	08:57	09:02	09:08	09:02	09:10	09:18						
	Oct 14	08:59	09:02	09:06	09:02	09:10	09:17						
	Oct 15				09:03	09:09	09:16						
Oct 16				09:04	09:09	09:14							
Oct 17				09:06	09:09	09:12							

Şehirler (Cities)		Bakü Baku			Astana			Kabil Kabul			Karaçi Karachi		
Anten Çapı (Antenna Diameter)	Tarih (Date)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)	Başlangıç (Begin)	Tepe (Peak)	Bitiş (End)
1.8 m.	Sep 30										09:14	09:17	09:20
	Oct 1										09:12	09:17	09:21
	Oct 2										09:11	09:17	09:22
	Oct 3										09:10	09:16	09:22
	Oct 4							09:11	09:15	09:19	09:10	09:16	09:22
	Oct 5							09:10	09:15	09:20	09:10	09:16	09:21
	Oct 6	09:00	09:04	09:08				09:09	09:15	09:20	09:11	09:15	09:19
	Oct 7	08:59	09:04	09:09				09:09	09:14	09:20	09:13	09:15	09:17
	Oct 8	08:58	09:04	09:09	09:09	09:11	09:13	09:09	09:14	09:20			
	Oct 9	08:57	09:03	09:09	09:07	09:11	09:15	09:09	09:14	09:19			
	Oct 10	08:57	09:03	09:09	09:05	09:11	09:16	09:10	09:14	09:17			
	Oct 11	08:58	09:03	09:08	09:05	09:10	09:16						
	Oct 12	08:59	09:02	09:06	09:04	09:10	09:16						
	Oct 13	09:01	09:02	09:03	09:04	09:10	09:15						
	Oct 14				09:05	09:10	09:14						
Oct 15				09:06	09:09	09:13							

**Not:** Hesaplamalarda anten hüzme genişliği (antenna beamwidth) geniş (**kötümser**) alınmıştır. Kullanılan frekans, BSS band downlink frekansının merkezi seçilmiştir. Zamanlar **GMT**'ye göre verilmiştir. Tabloda verilen şehirlerden farklı bir yerden yayın yapıyorsanız size en yakın merkezin değerlerini kullanabilirsiniz. *Türkiye yerel saati GMT+3'dir.*

**Note:** The calculations are performed regarding wide (**pessimistic**) beamwidth and center frequency of BSS Band downlink. If your earth station place is not in the table, you can use the place above nearest your transmission place. Please note that all times are in **GMT**.