



Localazione

Terra
 Lng: 11°45' E
 Lat: 45°8' N

Periodo:

90 giorni

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DATA	SORGE		TRANSITA		TRAMONTA		MAG.	Diam.	DIST. (u.a.)	Fase	SOLE			LUNA	
	Tempo	Azm	Orario	Alt	Tempo	Azm					Sorge	Cala	Elong.	Fase	Ang.
02.08.03	21:18	108°50'	02:28	31°20'	07:34	251°13'	-2.4	00'23"	0.415	0.96	04:58	19:39	148°	0.21	162°
03.08.03	21:14	108°56'	02:24	31°16'	07:30	251°07'	-2.4	00'23"	0.412	0.96	05:00	19:38	149°	0.32	149°
04.08.03	21:10	109°02'	02:20	31°12'	07:26	251°01'	-2.4	00'23"	0.409	0.97	05:01	19:37	150°	0.43	135°
05.08.03	21:06	109°08'	02:16	31°08'	07:21	250°54'	-2.4	00'23"	0.406	0.97	05:02	19:35	151°	0.55	121°
06.08.03	21:02	109°15'	02:11	31°03'	07:17	250°48'	-2.5	00'23"	0.403	0.97	05:03	19:34	152°	0.67	107°
07.08.03	20:58	109°22'	02:07	30°58'	07:12	250°41'	-2.5	00'23"	0.401	0.97	05:04	19:33	153°	0.77	092°
08.08.03	20:54	109°29'	02:03	30°54'	07:07	250°34'	-2.5	00'24"	0.398	0.98	05:05	19:31	154°	0.86	078°
09.08.03	20:50	109°36'	01:58	30°49'	07:03	250°27'	-2.5	00'24"	0.396	0.98	05:07	19:30	155°	0.93	064°
10.08.03	20:46	109°44'	01:54	30°44'	06:58	250°19'	-2.6	00'24"	0.393	0.98	05:08	19:28	156°	0.98	050°
11.08.03	20:42	109°52'	01:50	30°38'	06:53	250°12'	-2.6	00'24"	0.391	0.98	05:09	19:27	157°	1.00	036°
12.08.03	20:38	110°00'	01:45	30°33'	06:48	250°04'	-2.6	00'24"	0.389	0.98	05:10	19:25	158°	1.00	022°
13.08.03	20:34	110°08'	01:40	30°28'	06:43	249°56'	-2.6	00'24"	0.387	0.98	05:11	19:24	160°	0.99	008°
14.08.03	20:29	110°16'	01:36	30°22'	06:38	249°48'	-2.7	00'24"	0.385	0.99	05:12	19:22	161°	0.96	004°
15.08.03	20:25	110°24'	01:31	30°17'	06:33	249°40'	-2.7	00'24"	0.383	0.99	05:14	19:21	162°	0.91	017°
16.08.03	20:21	110°32'	01:27	30°11'	06:28	249°31'	-2.7	00'25"	0.382	0.99	05:15	19:19	163°	0.84	030°
17.08.03	20:16	110°41'	01:22	30°05'	06:23	249°23'	-2.7	00'25"	0.380	0.99	05:16	19:17	164°	0.77	042°
18.08.03	20:12	110°49'	01:17	30°00'	06:18	249°15'	-2.8	00'25"	0.379	0.99	05:17	19:16	165°	0.68	055°
19.08.03	20:08	110°57'	01:12	29°54'	06:12	249°07'	-2.8	00'25"	0.378	0.99	05:18	19:14	166°	0.58	067°
20.08.03	20:03	111°06'	01:08	29°48'	06:07	248°58'	-2.8	00'25"	0.377	0.99	05:20	19:12	167°	0.49	079°
21.08.03	19:59	111°14'	01:03	29°43'	06:02	248°50'	-2.8	00'25"	0.376	0.99	05:21	19:11	168°	0.39	091°
22.08.03	19:54	111°22'	00:58	29°37'	05:57	248°42'	-2.8	00'25"	0.375	1.00	05:22	19:09	169°	0.29	103°
23.08.03	19:50	111°30'	00:53	29°31'	05:51	248°34'	-2.8	00'25"	0.374	1.00	05:23	19:07	170°	0.21	116°
24.08.03	19:45	111°38'	00:48	29°26'	05:46	248°26'	-2.9	00'25"	0.374	1.00	05:24	19:06	171°	0.13	128°
25.08.03	19:41	111°45'	00:43	29°21'	05:41	248°18'	-2.9	00'25"	0.373	1.00	05:26	19:04	171°	0.07	141°
26.08.03	19:36	111°53'	00:38	29°16'	05:35	248°10'	-2.9	00'25"	0.373	1.00	05:27	19:02	172°	0.02	155°
27.08.03	19:32	112°00'	00:33	29°11'	05:30	248°03'	-2.9	00'25"	0.373	1.00	05:28	19:00	172°	0.00	168°
28.08.03	19:27	112°07'	00:28	29°06'	05:25	247°56'	-2.9	00'25"	0.373	1.00	05:29	18:59	173°	0.01	176°
29.08.03	19:22	112°14'	00:23	29°01'	05:19	247°49'	-2.9	00'25"	0.373	1.00	05:30	18:57	173°	0.04	163°
30.08.03	19:18	112°20'	00:18	28°56'	05:14	247°43'	-2.9	00'25"	0.373	1.00	05:32	18:55	173°	0.11	148°
31.08.03	19:13	112°26'	00:13	28°52'	05:09	247°36'	-2.9	00'25"	0.374	1.00	05:33	18:53	172°	0.19	134°
01.09.03	19:08	112°32'	00:08	28°48'	05:03	247°31'	-2.9	00'25"	0.374	1.00	05:34	18:51	172°	0.29	120°
02.09.03	19:04	112°37'	00:03	28°44'	04:58	247°25'	-2.9	00'25"	0.375	1.00	05:35	18:49	171°	0.41	105°
03.09.03	18:59	112°42'	23:53	28°38'	04:53	247°20'	-2.8	00'25"	0.377	1.00	05:36	18:48	170°	0.52	077°
04.09.03	18:54	112°46'	23:48	28°35'	04:48	247°15'	-2.8	00'25"	0.378	1.00	05:38	18:46	169°	0.64	063°
05.09.03	18:49	112°50'	23:43	28°32'	04:43	247°11'	-2.8	00'25"	0.379	0.99	05:39	18:44	168°	0.75	048°
06.09.03	18:45	112°54'	23:39	28°30'	04:37	247°07'	-2.8	00'25"	0.381	0.99	05:40	18:42	167°	0.84	035°
07.09.03	18:40	112°57'	23:34	28°28'	04:32	247°04'	-2.7	00'25"	0.382	0.99	05:41	18:40	166°	0.91	021°
08.09.03	18:35	113°00'	23:29	28°26'	04:27	247°01'	-2.7	00'24"	0.384	0.99	05:42	18:38	165°	0.96	007°
09.09.03	18:30	113°02'	23:24	28°25'	04:22	246°58'	-2.7	00'24"	0.386	0.99	05:44	18:36	164°	0.99	005°
10.09.03	18:26	113°04'	23:19	28°23'	04:17	246°56'	-2.7	00'24"	0.388	0.99	05:45	18:35	162°	1.00	018°
11.09.03	18:21	113°05'	23:14	28°23'	04:13	246°55'	-2.7	00'24"	0.390	0.99	05:46	18:33	161°	1.00	031°
12.09.03	18:16	113°05'	23:10	28°22'	04:08	246°54'	-2.6	00'24"	0.392	0.99	05:47	18:31	160°	0.98	044°
13.09.03	18:12	113°06'	23:05	28°22'	04:03	246°53'	-2.6	00'24"	0.394	0.98	05:48	18:29	159°	0.95	056°
14.09.03	18:07	113°05'	23:00	28°22'	03:58	246°53'	-2.6	00'24"	0.397	0.98	05:50	18:27	158°	0.89	068°
15.09.03	18:02	113°05'	22:56	28°23'	03:54	246°54'	-2.6	00'23"	0.399	0.98	05:51	18:25	157°	0.82	080°



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DATA	SORGE		TRANSITA		TRAMONTA		MAG.	Diam.	DIST. (u.a.)	Fase	SOLE			LUNA	
	Tempo	Azm	Orario	Alt	Tempo	Azm					Sorge	Cala	Elong.	Fase	Ang.
16.09.03	17:58	113°03'	22:51	28°24'	03:49	246°55'	-2.5	00'23"	0.402	0.98	05:52	18:23	156°	0.74	092°
17.09.03	17:53	113°02'	22:47	28°25'	03:45	246°56'	-2.5	00'23"	0.405	0.98	05:53	18:21	155°	0.65	104°
18.09.03	17:48	113°00'	22:42	28°27'	03:40	246°58'	-2.5	00'23"	0.408	0.97	05:54	18:19	154°	0.56	116°
19.09.03	17:44	112°57'	22:38	28°29'	03:36	247°01'	-2.4	00'23"	0.411	0.97	05:56	18:17	153°	0.46	129°
20.09.03	17:39	112°54'	22:33	28°31'	03:32	247°03'	-2.4	00'23"	0.414	0.97	05:57	18:15	152°	0.36	141°
21.09.03	17:35	112°50'	22:29	28°33'	03:27	247°07'	-2.4	00'22"	0.417	0.97	05:58	18:14	151°	0.26	154°
22.09.03	17:30	112°46'	22:25	28°36'	03:23	247°11'	-2.4	00'22"	0.421	0.97	05:59	18:12	150°	0.17	167°
23.09.03	17:26	112°41'	22:20	28°39'	03:19	247°15'	-2.3	00'22"	0.424	0.96	06:01	18:10	149°	0.10	178°
24.09.03	17:21	112°36'	22:16	28°43'	03:15	247°20'	-2.3	00'22"	0.428	0.96	06:02	18:08	148°	0.04	165°
25.09.03	17:17	112°31'	22:12	28°47'	03:11	247°25'	-2.3	00'22"	0.432	0.96	06:03	18:06	147°	0.01	151°
26.09.03	17:12	112°25'	22:08	28°51'	03:07	247°31'	-2.2	00'22"	0.436	0.96	06:04	18:04	146°	0.00	136°
27.09.03	17:08	112°18'	22:04	28°55'	03:04	247°37'	-2.2	00'21"	0.440	0.96	06:05	18:02	145°	0.03	122°
28.09.03	17:04	112°11'	22:00	29°00'	03:00	247°44'	-2.2	00'21"	0.444	0.95	06:07	18:00	144°	0.08	107°
29.09.03	16:59	112°04'	21:56	29°05'	02:56	247°51'	-2.1	00'21"	0.448	0.95	06:08	17:58	143°	0.16	093°
30.09.03	16:55	111°56'	21:52	29°11'	02:53	247°58'	-2.1	00'21"	0.452	0.95	06:09	17:56	142°	0.26	078°
01.10.03	16:51	111°48'	21:48	29°16'	02:49	248°06'	-2.1	00'21"	0.456	0.95	06:10	17:55	141°	0.38	064°
02.10.03	16:47	111°39'	21:44	29°22'	02:46	248°15'	-2.1	00'20"	0.461	0.95	06:12	17:53	140°	0.49	050°
03.10.03	16:42	111°30'	21:41	29°28'	02:43	248°23'	-2.0	00'20"	0.465	0.94	06:13	17:51	139°	0.60	037°
04.10.03	16:38	111°21'	21:37	29°35'	02:39	248°32'	-2.0	00'20"	0.470	0.94	06:14	17:49	139°	0.71	023°
05.10.03	16:34	111°11'	21:33	29°41'	02:36	248°42'	-2.0	00'20"	0.475	0.94	06:15	17:47	138°	0.80	010°
06.10.03	16:30	111°01'	21:30	29°48'	02:33	248°52'	-1.9	00'20"	0.480	0.94	06:17	17:45	137°	0.88	002°
07.10.03	16:26	110°51'	21:26	29°55'	02:30	249°02'	-1.9	00'19"	0.485	0.93	06:18	17:43	136°	0.94	015°
08.10.03	16:22	110°40'	21:23	30°03'	02:27	249°13'	-1.9	00'19"	0.490	0.93	06:19	17:41	135°	0.98	027°
09.10.03	16:18	110°29'	21:19	30°11'	02:24	249°24'	-1.8	00'19"	0.495	0.93	06:20	17:40	134°	1.00	039°
10.10.03	16:14	110°17'	21:16	30°18'	02:21	249°35'	-1.8	00'19"	0.500	0.93	06:22	17:38	134°	1.00	051°
11.10.03	16:10	110°06'	21:13	30°27'	02:18	249°47'	-1.8	00'19"	0.505	0.93	06:23	17:36	133°	1.00	063°
12.10.03	16:06	109°53'	21:09	30°35'	02:16	249°59'	-1.7	00'18"	0.510	0.92	06:24	17:34	132°	0.97	075°
13.10.03	16:02	109°41'	21:06	30°43'	02:13	250°11'	-1.7	00'18"	0.516	0.92	06:25	17:32	131°	0.93	087°
14.10.03	15:58	109°28'	21:03	30°52'	02:10	250°23'	-1.7	00'18"	0.521	0.92	06:27	17:31	130°	0.88	098°
15.10.03	15:54	109°15'	21:00	31°01'	02:08	250°36'	-1.7	00'18"	0.527	0.92	06:28	17:29	130°	0.81	110°
16.10.03	15:50	109°02'	20:56	31°10'	02:05	250°49'	-1.6	00'18"	0.532	0.92	06:29	17:27	129°	0.72	122°
17.10.03	15:47	108°49'	20:53	31°20'	02:03	251°03'	-1.6	00'17"	0.538	0.92	06:31	17:25	128°	0.63	134°
18.10.03	15:43	108°35'	20:50	31°29'	02:00	251°16'	-1.6	00'17"	0.544	0.91	06:32	17:24	127°	0.53	146°
19.10.03	15:39	108°21'	20:47	31°39'	01:58	251°30'	-1.5	00'17"	0.550	0.91	06:33	17:22	127°	0.43	158°
20.10.03	15:35	108°06'	20:44	31°49'	01:56	251°44'	-1.5	00'17"	0.556	0.91	06:35	17:20	126°	0.32	170°
21.10.03	15:32	107°52'	20:41	31°59'	01:53	251°59'	-1.5	00'17"	0.562	0.91	06:36	17:19	125°	0.23	175°
22.10.03	15:28	107°37'	20:38	32°09'	01:51	252°14'	-1.4	00'17"	0.568	0.91	06:37	17:17	125°	0.14	162°
23.10.03	15:25	107°22'	20:35	32°20'	01:49	252°29'	-1.4	00'16"	0.574	0.91	06:39	17:15	124°	0.07	148°
24.10.03	15:21	107°07'	20:33	32°30'	01:47	252°44'	-1.4	00'16"	0.580	0.90	06:40	17:14	123°	0.02	134°
25.10.03	15:17	106°51'	20:30	32°41'	01:45	252°59'	-1.4	00'16"	0.586	0.90	06:41	17:12	123°	0.00	119°
26.10.03	15:14	106°35'	20:27	32°52'	01:43	253°15'	-1.3	00'16"	0.593	0.90	06:43	17:11	122°	0.01	104°
27.10.03	15:10	106°19'	20:24	33°03'	01:41	253°31'	-1.3	00'16"	0.599	0.90	06:44	17:09	121°	0.06	090°
28.10.03	15:07	106°03'	20:22	33°14'	01:39	253°47'	-1.3	00'15"	0.605	0.90	06:45	17:08	121°	0.13	075°
29.10.03	15:03	105°47'	20:19	33°26'	01:37	254°03'	-1.2	00'15"	0.612	0.90	06:47	17:06	120°	0.23	061°
30.10.03	15:00	105°30'	20:16	33°37'	01:35	254°20'	-1.2	00'15"	0.618	0.90	06:48	17:05	119°	0.33	048°



Resoconto di Visibilità: Marte

Locazione

Terra
Lng: 11° 45' E
Lat: 45° 8' N

Periodo:

90 giorni

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DATA	SORGE		TRANSITA		TRAMONTA		MAG.	Diam.	DIST. (u.a.)	Fase	SOLE			LUNA	
	Tempo	Azm	Orario	Alt	Tempo	Azm					Sorge	Cala	Elong.	Fase	Ang.
31.10.03	14:56	105°13'	20:14	33°49'	01:33	254°36'	-1.2	00'15"	0.625	0.89	06:50	17:03	119°	0.45	034°
01.11.03	14:53	104°56'	20:11	34°01'	01:31	254°53'	-1.2	00'15"	0.632	0.89	06:51	17:02	118°	0.56	021°