

LEVER et COUCHER de la LUNE 2023

AST0421E – 07 août 2019

Date (UTC)	Lever		Méridien		Coucher	
	heure (TU)	azimut	heure (TU)	hauteur	heure (TU)	azimut
2023-01-01	12:45	69°29'	19:56	61°44'	2:11	287°16'
2023-01-02	13:10	62°38'	20:42	66°18'	3:20	294°44'
2023-01-03	13:39	56°60'	21:31	69°49'	4:27	301°03'
2023-01-04	14:15	52°55'	22:22	72°06'	5:33	305°51'
2023-01-05	14:58	50°46'	23:13	73°02'	6:34	308°45'
2023-01-06	15:50	50°46'			7:29	309°29'
2023-01-07	16:48	52°57'	0:04	72°33'	8:14	308°02'
2023-01-08	17:51	57°00'	0:54	70°45'	8:52	304°39'
2023-01-09	18:55	62°33'	1:42	67°44'	9:22	299°42'
2023-01-10	19:60	69°12'	2:27	63°45'	9:47	293°37'
2023-01-11	21:04	76°37'	3:10	58°59'	10:08	286°42'
2023-01-12	22:08	84°34'	3:52	53°38'	10:27	279°11'
2023-01-13	23:13	92°51'	4:33	47°54'	10:46	271°17'
2023-01-14			5:14	41°56'	11:04	263°10'
2023-01-15	0:20	101°17'	5:57	35°57'	11:24	255°01'
2023-01-16	1:30	109°38'	6:43	30°11'	11:47	247°05'
2023-01-17	2:45	117°29'	7:34	24°60'	12:15	239°49'
2023-01-18	4:03	124°13'	8:31	20°48'	12:53	233°52'
2023-01-19	5:21	128°53'	9:33	18°09'	13:43	230°13'
2023-01-20	6:32	130°28'	10:40	17°31'	14:48	229°48'
2023-01-21	7:32	128°27'	11:46	19°10'	16:06	233°02'
2023-01-22	8:18	123°14'	12:50	22°54'	17:31	239°21'
2023-01-23	8:54	115°46'	13:50	28°15'	18:56	247°42'
2023-01-24	9:22	107°03'	14:44	34°36'	20:18	257°03'
2023-01-25	9:45	97°50'	15:34	41°23'	21:35	266°39'
2023-01-26	10:06	88°39'	16:21	48°08'	22:49	276°01'
2023-01-27	10:27	79°50'	17:07	54°31'		
2023-01-28	10:48	71°40'	17:53	60°16'	0:00	284°49'
2023-01-29	11:12	64°24'	18:39	65°10'	1:10	292°44'
2023-01-30	11:40	58°19'	19:28	69°02'	2:19	299°31'
2023-01-31	12:14	53°44'	20:18	71°41'	3:26	304°49'
2023-02-01	12:55	50°60'	21:09	73°01'	4:29	308°18'
2023-02-02	13:44	50°22'	22:00	72°57'	5:25	309°40'
2023-02-03	14:41	51°56'	22:51	71°30'	6:13	308°50'
2023-02-04	15:42	55°30'	23:39	68°50'	6:53	305°58'
2023-02-05	16:47	60°41'			7:25	301°25'
2023-02-06	17:52	67°06'	0:25	65°05'	7:51	295°35'
2023-02-07	18:56	74°23'	1:09	60°28'	8:14	288°49'
2023-02-08	20:00	82°16'	1:51	55°14'	8:33	281°23'
2023-02-09	21:05	90°29'	2:32	49°33'	8:51	273°33'
2023-02-10	22:10	98°51'	3:13	43°38'	9:09	265°30'
2023-02-11	23:18	107°08'	3:55	37°41'	9:28	257°24'
2023-02-12			4:39	31°55'	9:49	249°30'
2023-02-13	0:29	115°01'	5:26	26°37'	10:14	242°08'
2023-02-14	1:44	122°02'	6:19	22°08'	10:46	235°47'
2023-02-15	2:60	127°29'	7:16	18°54'	11:29	231°12'
2023-02-16	4:12	130°26'	8:19	17°23'	12:25	229°17'
2023-02-17	5:16	130°08'	9:24	17°55'	13:35	230°44'
2023-02-18	6:07	126°29'	10:28	20°35'	14:56	235°32'
2023-02-19	6:47	120°05'	11:29	25°10'	16:21	242°58'
2023-02-20	7:18	111°50'	12:26	31°08'	17:46	252°02'
2023-02-21	7:44	102°36'	13:19	37°55'	19:07	261°51'
2023-02-22	8:07	93°03'	14:09	44°58'	20:25	271°44'

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2023-02-23	8:28	83°40'	14:57	51°49'	21:40	281°12'
2023-02-24	8:50	74°51'	15:45	58°07'	22:54	289°52'
2023-02-25	9:13	66°53'	16:33	63°35'		
2023-02-26	9:40	60°06'	17:22	67°59'	0:06	297°24'
2023-02-27	10:12	54°49'	18:12	71°09'	1:15	303°27'
2023-02-28	10:51	51°21'	19:04	72°57'	2:21	307°41'
2023-03-01	11:38	50°00'	19:55	73°19'	3:20	309°48'
2023-03-02	12:32	50°53'	20:46	72°18'	4:11	309°39'
2023-03-03	13:33	53°52'	21:35	69°60'	4:54	307°23'
2023-03-04	14:37	58°37'	22:22	66°33'	5:28	303°18'
2023-03-05	15:42	64°44'	23:07	62°09'	5:56	297°47'
2023-03-06	16:47	71°52'	23:49	57°02'	6:19	291°13'
2023-03-07	17:52	79°42'			6:39	283°53'
2023-03-08	18:57	87°58'	0:31	51°23'	6:58	276°02'
2023-03-09	20:03	96°26'	1:12	45°25'	7:15	267°53'
2023-03-10	21:10	104°53'	1:54	39°22'	7:34	259°40'
2023-03-11	22:21	112°58'	2:37	33°27'	7:54	251°37'
2023-03-12	23:34	120°18'	3:24	27°58'	8:17	244°01'
2023-03-13			4:14	23°14'	8:47	237°20'
2023-03-14	0:48	126°15'	5:09	19°36'	9:24	232°10'
2023-03-15	2:00	130°03'	6:08	17°30'	10:13	229°18'
2023-03-16	3:06	130°58'	7:10	17°16'	11:16	229°26'
2023-03-17	3:60	128°40'	8:13	19°02'	12:31	232°49'
2023-03-18	4:43	123°30'	9:13	22°43'	13:52	239°02'
2023-03-19	5:16	116°10'	10:11	27°58'	15:16	247°16'
2023-03-20	5:43	107°27'	11:04	34°20'	16:37	256°42'
2023-03-21	6:07	98°02'	11:55	41°18'	17:56	266°38'
2023-03-22	6:28	88°26'	12:44	48°23'	19:14	276°30'
2023-03-23	6:50	79°07'	13:32	55°08'	20:29	285°50'
2023-03-24	7:12	70°28'	14:21	61°13'	21:44	294°12'
2023-03-25	7:38	62°52'	15:11	66°17'	22:57	301°12'
2023-03-26	8:08	56°40'	16:02	70°08'		
2023-03-27	8:45	52°16'	16:55	72°34'	0:07	306°26'
2023-03-28	9:30	49°59'	17:47	73°32'	1:11	309°30'
2023-03-29	10:22	50°01'	18:39	73°02'	2:06	310°15'
2023-03-30	11:21	52°16'	19:30	71°10'	2:52	308°44'
2023-03-31	12:24	56°27'	20:17	68°05'	3:29	305°14'
2023-04-01	13:29	62°08'	21:03	64°01'	3:59	300°11'
2023-04-02	14:34	68°57'	21:46	59°07'	4:23	293°56'
2023-04-03	15:40	76°36'	22:28	53°36'	4:44	286°49'
2023-04-04	16:45	84°49'	23:09	47°40'	5:03	279°04'
2023-04-05	17:51	93°23'	23:51	41°31'	5:21	270°55'
2023-04-06	18:59	102°01'			5:39	262°33'
2023-04-07	20:10	110°27'	0:34	35°25'	5:59	254°15'
2023-04-08	21:23	118°14'	1:21	29°38'	6:21	246°18'
2023-04-09	22:39	124°48'	2:10	24°31'	6:49	239°08'
2023-04-10	23:53	129°22'	3:04	20°27'	7:24	233°21'
2023-04-11			4:03	17°50'	8:09	229°41'
2023-04-12	1:00	131°12'	5:04	17°01'	9:08	228°52'
2023-04-13	1:57	129°54'	6:05	18°09'	10:18	231°13'
2023-04-14	2:42	125°41'	7:05	21°09'	11:35	236°26'
2023-04-15	3:17	119°12'	8:02	25°46'	12:56	243°49'
2023-04-16	3:46	111°10'	8:55	31°35'	14:16	252°37'
2023-04-17	4:09	102°13'	9:45	38°10'	15:33	262°09'

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Date (UTC)	Lever		Méridien		Coucher	
2023-04-18	4:31	92°50'	10:33	45°06'	16:50	271°55'
2023-04-19	4:51	83°29'	11:21	51°59'	18:05	281°28'
2023-04-20	5:13	74°31'	12:09	58°24'	19:20	290°21'
2023-04-21	5:37	66°20'	12:59	64°02'	20:35	298°07'
2023-04-22	6:05	59°20'	13:50	68°33'	21:48	304°20'
2023-04-23	6:39	53°57'	14:43	71°42'	22:56	308°30'
2023-04-24	7:21	50°37'	15:37	73°21'	23:56	310°18'
2023-04-25	8:11	49°38'	16:30	73°28'		
2023-04-26	9:08	50°60'	17:21	72°08'	0:47	309°43'
2023-04-27	10:10	54°28'	18:11	69°31'	1:27	306°57'
2023-04-28	11:15	59°36'	18:57	65°49'	2:00	302°27'
2023-04-29	12:20	65°60'	19:41	61°14'	2:26	296°39'
2023-04-30	13:25	73°19'	20:23	55°59'	2:49	289°52'
2023-05-01	14:30	81°18'	21:04	50°13'	3:08	282°23'
2023-05-02	15:35	89°44'	21:45	44°08'	3:26	274°24'
2023-05-03	16:43	98°24'	22:28	37°56'	3:44	266°06'
2023-05-04	17:53	107°03'	23:14	31°55'	4:03	257°41'
2023-05-05	19:06	115°17'			4:24	249°26'
2023-05-06	20:23	122°33'	0:03	26°24'	4:50	241°46'
2023-05-07	21:40	128°04'	0:56	21°47'	5:22	235°15'
2023-05-08	22:52	130°57'	1:55	18°33'	6:05	230°39'
2023-05-09	23:53	130°38'	2:56	17°04'	7:00	228°48'
2023-05-10			3:59	17°36'	8:08	230°11'
2023-05-11	0:42	127°12'	5:00	20°05'	9:24	234°38'
2023-05-12	1:20	121°19'	5:58	24°15'	10:44	241°26'
2023-05-13	1:50	113°45'	6:51	29°40'	12:03	249°45'
2023-05-14	2:14	105°11'	7:41	35°56'	13:20	258°54'
2023-05-15	2:36	96°07'	8:29	42°38'	14:35	268°24'
2023-05-16	2:56	86°57'	9:15	49°24'	15:48	277°50'
2023-05-17	3:16	78°00'	10:02	55°53'	17:02	286°49'
2023-05-18	3:39	69°37'	10:50	61°46'	18:15	294°58'
2023-05-19	4:05	62°11'	11:40	66°44'	19:28	301°50'
2023-05-20	4:36	56°06'	12:32	70°29'	20:39	306°54'
2023-05-21	5:14	51°51'	13:26	72°47'	21:43	309°45'
2023-05-22	6:01	49°50'	14:20	73°33'	22:38	310°09'
2023-05-23	6:56	50°15'	15:12	72°48'	23:23	308°14'
2023-05-24	7:57	52°55'	16:03	70°40'	23:59	304°22'
2023-05-25	9:01	57°27'	16:50	67°22'		
2023-05-26	10:06	63°22'	17:35	63°08'	0:28	299°03'
2023-05-27	11:10	70°18'	18:17	58°10'	0:52	292°39'
2023-05-28	12:14	77°57'	18:58	52°39'	1:12	285°30'
2023-05-29	13:19	86°06'	19:39	46°45'	1:30	277°47'
2023-05-30	14:24	94°35'	20:21	40°40'	1:48	269°42'
2023-05-31	15:32	103°11'	21:04	34°36'	2:06	261°25'
2023-06-01	16:44	111°38'	21:52	28°49'	2:26	253°07'
2023-06-02	18:00	119°26'	22:44	23°44'	2:49	245°09'
2023-06-03	19:18	125°53'	23:41	19°47'	3:19	237°59'
2023-06-04	20:35	130°03'			3:57	232°23'
2023-06-05	21:43	131°02'	0:43	17°29'	4:48	229°15'
2023-06-06	22:38	128°37'	1:47	17°13'	5:53	229°23'
2023-06-07	23:21	123°21'	2:51	19°05'	7:10	232°55'
2023-06-08	23:53	116°05'	3:52	22°49'	8:31	239°11'
2023-06-09			4:47	27°60'	9:52	247°15'
2023-06-10	0:19	107°40'	5:39	34°07'	11:10	256°17'

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Date (UTC)	Lever		Méridien		Coucher	
2023-06-11	0:41	98°41'	6:27	40°44'	12:25	265°43'
2023-06-12	1:02	89°34'	7:13	47°27'	13:38	275°06'
2023-06-13	1:22	80°39'	7:59	53°58'	14:51	284°06'
2023-06-14	1:43	72°12'	8:46	59°57'	16:03	292°24'
2023-06-15	2:07	64°34'	9:34	65°09'	17:15	299°36'
2023-06-16	2:36	58°05'	10:25	69°16'	18:25	305°16'
2023-06-17	3:11	53°13'	11:17	72°04'	19:31	308°54'
2023-06-18	3:54	50°24'	12:11	73°23'	20:30	310°11'
2023-06-19	4:46	49°56'	13:04	73°10'	21:19	309°05'
2023-06-20	5:45	51°48'	13:56	71°31'	21:58	305°52'
2023-06-21	6:49	55°43'	14:45	68°37'	22:29	301°02'
2023-06-22	7:54	61°11'	15:30	64°42'	22:54	294°59'
2023-06-23	8:58	67°46'	16:13	59°60'	23:16	288°07'
2023-06-24	10:02	75°07'	16:54	54°43'	23:34	280°41'
2023-06-25	11:05	82°60'	17:34	49°02'	23:52	272°51'
2023-06-26	12:09	91°13'	18:15	43°06'		
2023-06-27	13:14	99°37'	18:56	37°08'	0:09	264°46'
2023-06-28	14:23	107°59'	19:41	31°19'	0:28	256°37'
2023-06-29	15:36	115°59'	20:30	25°57'	0:49	248°38'
2023-06-30	16:52	123°05'	21:24	21°28'	1:15	241°09'
2023-07-01	18:10	128°25'	22:24	18°21'	1:48	234°47'
2023-07-02	19:23	130°59'	23:28	17°06'	2:33	230°23'
2023-07-03	20:26	130°04'			3:33	228°56'
2023-07-04	21:15	125°48'	0:34	18°02'	4:46	231°02'
2023-07-05	21:52	119°00'	1:38	21°06'	6:09	236°25'
2023-07-06	22:21	110°40'	2:38	25°56'	7:33	244°09'
2023-07-07	22:46	101°33'	3:33	31°58'	8:55	253°13'
2023-07-08	23:07	92°13'	4:23	38°39'	10:14	262°51'
2023-07-09	23:27	83°04'	5:11	45°32'	11:29	272°28'
2023-07-10	23:48	74°24'	5:58	52°13'	12:42	281°44'
2023-07-11			6:44	58°25'	13:54	290°16'
2023-07-12	0:11	66°31'	7:32	63°50'	15:06	297°47'
2023-07-13	0:38	59°43'	8:21	68°15'	16:17	303°52'
2023-07-14	1:11	54°24'	9:13	71°25'	17:24	308°06'
2023-07-15	1:51	50°58'	10:06	73°10'	18:24	310°05'
2023-07-16	2:40	49°47'	10:59	73°25'	19:15	309°42'
2023-07-17	3:37	50°57'	11:51	72°12'	19:57	307°07'
2023-07-18	4:39	54°15'	12:40	69°41'	20:31	302°44'
2023-07-19	5:44	59°17'	13:27	66°03'	20:58	297°01'
2023-07-20	6:48	65°34'	14:11	61°34'	21:20	290°23'
2023-07-21	7:52	72°43'	14:52	56°27'	21:39	283°06'
2023-07-22	8:55	80°25'	15:32	50°54'	21:57	275°25'
2023-07-23	9:58	88°29'	16:12	45°06'	22:14	267°30'
2023-07-24	11:02	96°43'	16:52	39°12'	22:31	259°30'
2023-07-25	12:08	104°57'	17:34	33°26'	22:50	251°35'
2023-07-26	13:17	112°57'	18:20	27°59'	23:13	244°02'
2023-07-27	14:30	120°19'	19:10	23°12'	23:42	237°17'
2023-07-28	15:45	126°24'	20:06	19°30'		
2023-07-29	16:60	130°18'	21:07	17°21'	0:21	231°59'
2023-07-30	18:07	131°05'	22:12	17°13'	1:12	229°04'
2023-07-31	19:03	128°23'	23:17	19°17'	2:18	229°25'
2023-08-01	19:46	122°36'			3:38	233°19'
2023-08-02	20:20	114°40'	0:20	23°24'	5:04	240°12'
2023-08-03	20:46	105°30'	1:19	29°06'	6:30	249°02'

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Date (UTC)	Lever		Méridien		Coucher	
2023-08-04	21:09	95°51'	2:13	35°48'	7:52	258°52'
2023-08-05	21:30	86°15'	3:04	42°55'	9:12	268°56'
2023-08-06	21:52	77°05'	3:52	49°59'	10:28	278°42'
2023-08-07	22:14	68°42'	4:40	56°35'	11:43	287°48'
2023-08-08	22:40	61°24'	5:28	62°25'	12:57	295°51'
2023-08-09	23:11	55°32'	6:18	67°13'	14:09	302°30'
2023-08-10	23:49	51°30'	7:09	70°48'	15:17	307°20'
2023-08-11			8:02	72°58'	16:20	309°59'
2023-08-12	0:36	49°40'	8:55	73°38'	17:14	310°16'
2023-08-13	1:30	50°10'	9:47	72°50'	17:58	308°16'
2023-08-14	2:31	52°54'	10:37	70°40'	18:34	304°21'
2023-08-15	3:35	57°29'	11:25	67°19'	19:02	298°58'
2023-08-16	4:40	63°28'	12:09	63°03'	19:25	292°32'
2023-08-17	5:45	70°26'	12:51	58°04'	19:45	285°22'
2023-08-18	6:48	78°03'	13:32	52°36'	20:03	277°45'
2023-08-19	7:51	86°04'	14:11	46°50'	20:20	269°51'
2023-08-20	8:54	94°17'	14:51	40°57'	20:37	261°52'
2023-08-21	9:58	102°30'	15:32	35°09'	20:55	253°58'
2023-08-22	11:05	110°31'	16:15	29°38'	21:16	246°22'
2023-08-23	12:15	118°00'	17:02	24°42'	21:41	239°25'
2023-08-24	13:28	124°29'	17:54	20°38'	22:14	233°37'
2023-08-25	14:41	129°15'	18:51	17°53'	22:58	229°42'
2023-08-26	15:50	131°26'	19:53	16°51'	23:56	228°33'
2023-08-27	16:50	130°21'	20:57	17°51'		
2023-08-28	17:38	126°02'	21:60	20°57'	1:08	230°45'
2023-08-29	18:15	119°05'	23:00	25°55'	2:30	236°12'
2023-08-30	18:45	110°23'	23:57	32°14'	3:56	244°11'
2023-08-31	19:09	100°43'			5:22	253°45'
2023-09-01	19:31	90°45'	0:50	39°22'	6:44	264°01'
2023-09-02	19:53	80°60'	1:41	46°45'	8:04	274°20'
2023-09-03	20:16	71°54'	2:30	53°51'	9:23	284°09'
2023-09-04	20:41	63°49'	3:20	60°17'	10:40	293°01'
2023-09-05	21:11	57°11'	4:11	65°43'	11:55	300°30'
2023-09-06	21:47	52°21'	5:03	69°53'	13:07	306°11'
2023-09-07	22:31	49°42'	5:56	72°36'	14:13	309°40'
2023-09-08	23:23	49°28'	6:50	73°46'	15:11	310°43'
2023-09-09			7:43	73°25'	15:58	309°23'
2023-09-10	0:23	51°34'	8:34	71°38'	16:36	305°59'
2023-09-11	1:26	55°39'	9:22	68°37'	17:06	300°59'
2023-09-12	2:31	61°17'	10:07	64°36'	17:31	294°48'
2023-09-13	3:36	68°02'	10:50	59°47'	17:52	287°47'
2023-09-14	4:40	75°32'	11:31	54°24'	18:10	280°13'
2023-09-15	5:43	83°31'	12:11	48°38'	18:27	272°19'
2023-09-16	6:47	91°47'	12:51	42°43'	18:43	264°15'
2023-09-17	7:51	100°06'	13:31	36°49'	19:01	256°14'
2023-09-18	8:57	108°16'	14:14	31°10'	19:21	248°28'
2023-09-19	10:06	115°58'	14:60	26°01'	19:44	241°17'
2023-09-20	11:18	122°48'	15:49	21°40'	20:14	235°06'
2023-09-21	12:30	128°08'	16:44	18°30'	20:53	230°33'
2023-09-22	13:39	131°14'	17:42	16°51'	21:44	228°22'
2023-09-23	14:40	131°25'	18:43	17°03'	22:48	229°12'
2023-09-24	15:31	128°28'	19:44	19°13'		
2023-09-25	16:11	122°46'	20:44	23°16'	0:04	233°13'
2023-09-26	16:43	114°59'	21:41	28°52'	1:26	239°58'

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Date (UTC)	Lever		Méridien		Coucher	
2023-09-27	17:09	105°51'	22:34	35°34'	2:50	248°41'
2023-09-28	17:32	96°00'	23:26	42°52'	4:13	258°34'
2023-09-29	17:53	86°00'			5:34	268°57'
2023-09-30	18:15	76°21'	0:16	50°15'	6:54	279°14'
2023-10-01	18:39	67°29'	1:07	57°13'	8:14	288°52'
2023-10-02	19:08	59°52'	1:58	63°22'	9:32	297°20'
2023-10-03	19:42	53°60'	2:51	68°18'	10:48	304°07'
2023-10-04	20:24	50°18'	3:46	71°46'	11:60	308°43'
2023-10-05	21:14	49°05'	4:41	73°37'	13:03	310°48'
2023-10-06	22:12	50°22'	5:36	73°51'	13:55	310°20'
2023-10-07	23:15	53°50'	6:28	72°33'	14:37	307°35'
2023-10-08			7:18	69°55'	15:09	303°03'
2023-10-09	0:20	59°01'	8:04	66°12'	15:36	297°12'
2023-10-10	1:25	65°26'	8:48	61°38'	15:57	290°26'
2023-10-11	2:30	72°44'	9:29	56°24'	16:16	283°00'
2023-10-12	3:33	80°36'	10:09	50°44'	16:33	275°09'
2023-10-13	4:37	88°51'	10:49	44°47'	16:50	267°03'
2023-10-14	5:41	97°16'	11:30	38°47'	17:07	258°54'
2023-10-15	6:48	105°38'	12:12	32°57'	17:26	250°55'
2023-10-16	7:57	113°38'	12:57	27°32'	17:49	243°24'
2023-10-17	9:08	120°53'	13:46	22°51'	18:17	236°47'
2023-10-18	10:21	126°48'	14:39	19°16'	18:52	231°38'
2023-10-19	11:31	130°40'	15:37	17°07'	19:39	228°39'
2023-10-20	12:35	131°47'	16:36	16°44'	20:39	228°31'
2023-10-21	13:28	129°51'	17:36	18°14'	21:49	231°27'
2023-10-22	14:10	125°08'	18:35	21°34'	23:08	237°09'
2023-10-23	14:43	118°16'	19:31	26°27'		
2023-10-24	15:10	109°53'	20:24	32°32'	0:28	244°55'
2023-10-25	15:33	100°35'	21:14	39°25'	1:49	254°05'
2023-10-26	15:55	90°51'	22:03	46°38'	3:08	264°01'
2023-10-27	16:16	81°08'	22:53	53°46'	4:27	274°10'
2023-10-28	16:39	71°52'	23:43	60°21'	5:45	284°05'
2023-10-29	17:05	63°32'			7:04	293°12'
2023-10-30	17:36	56°39'	0:36	65°59'	8:23	300°58'
2023-10-31	18:15	51°46'	1:31	70°16'	9:38	306°48'
2023-11-01	19:02	49°20'	2:27	72°58'	10:47	310°09'
2023-11-02	19:58	49°32'	3:24	73°56'	11:45	310°49'
2023-11-03	21:01	52°12'	4:18	73°15'	12:32	308°57'
2023-11-04	22:06	56°48'	5:10	71°07'	13:09	305°02'
2023-11-05	23:12	62°49'	5:58	67°47'	13:38	299°37'
2023-11-06			6:43	63°30'	14:01	293°09'
2023-11-07	0:17	69°49'	7:25	58°30'	14:21	285°58'
2023-11-08	1:21	77°28'	8:06	52°60'	14:39	278°17'
2023-11-09	2:24	85°34'	8:46	47°10'	14:55	270°17'
2023-11-10	3:28	93°56'	9:26	41°10'	15:12	262°07'
2023-11-11	4:33	102°21'	10:07	35°13'	15:31	254°00'
2023-11-12	5:42	110°36'	10:52	29°33'	15:52	246°12'
2023-11-13	6:54	118°17'	11:40	24°29'	16:18	239°05'
2023-11-14	8:08	124°52'	12:33	20°24'	16:52	233°15'
2023-11-15	9:21	129°35'	13:30	17°41'	17:35	229°25'
2023-11-16	10:28	131°39'	14:30	16°43'	18:32	228°20'
2023-11-17	11:26	130°37'	15:31	17°40'	19:40	230°23'
2023-11-18	12:11	126°40'	16:30	20°29'	20:57	235°20'
2023-11-19	12:46	120°25'	17:27	24°54'	22:16	242°28'

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Date (UTC)	Lever		Méridien		Coucher	
2023-11-20	13:14	112°34'	18:19	30°33'	23:35	251°04'
2023-11-21	13:38	103°45'	19:09	37°01'		
2023-11-22	13:59	94°25'	19:57	43°56'	0:52	260°31'
2023-11-23	14:19	84°58'	20:44	50°55'	2:08	270°19'
2023-11-24	14:40	75°45'	21:33	57°35'	3:24	280°03'
2023-11-25	15:04	67°10'	22:24	63°33'	4:41	289°18'
2023-11-26	15:32	59°41'	23:17	68°24'	5:58	297°33'
2023-11-27	16:07	53°52'			7:15	304°16'
2023-11-28	16:51	50°16'	0:12	71°50'	8:27	308°48'
2023-11-29	17:44	49°17'	1:09	73°37'	9:31	310°42'
2023-11-30	18:45	50°56'	2:06	73°39'	10:24	309°54'
2023-12-01	19:51	54°49'	2:60	72°06'	11:06	306°46'
2023-12-02	20:57	60°21'	3:50	69°12'	11:38	301°52'
2023-12-03	22:03	67°01'	4:37	65°15'	12:04	295°45'
2023-12-04	23:07	74°25'	5:20	60°30'	12:25	288°49'
2023-12-05			6:01	55°12'	12:43	281°21'
2023-12-06	0:10	82°18'	6:41	49°31'	12:60	273°32'
2023-12-07	1:13	90°29'	7:20	43°38'	13:16	265°31'
2023-12-08	2:17	98°49'	8:01	37°43'	13:34	257°27'
2023-12-09	3:23	107°05'	8:44	31°57'	13:54	249°32'
2023-12-10	4:33	115°02'	9:30	26°36'	14:18	242°05'
2023-12-11	5:47	122°10'	10:21	22°02'	14:48	235°36'
2023-12-12	7:02	127°49'	11:17	18°40'	15:28	230°47'
2023-12-13	8:14	131°05'	12:18	16°57'	16:20	228°31'
2023-12-14	9:17	131°14'	13:20	17°11'	17:27	229°26'
2023-12-15	10:08	128°09'	14:22	19°26'	18:43	233°34'
2023-12-16	10:47	122°26'	15:21	23°29'	20:04	240°16'
2023-12-17	11:18	114°52'	16:16	28°54'	21:25	248°38'
2023-12-18	11:43	106°11'	17:07	35°14'	22:43	257°56'
2023-12-19	12:04	96°59'	17:55	42°02'	23:59	267°36'
2023-12-20	12:24	87°37'	18:42	48°56'		
2023-12-21	12:45	78°29'	19:29	55°35'	1:13	277°14'
2023-12-22	13:07	69°52'	20:18	61°39'	2:28	286°27'
2023-12-23	13:33	62°10'	21:08	66°48'	3:43	294°52'
2023-12-24	14:05	55°51'	22:02	70°42'	4:58	302°00'
2023-12-25	14:44	51°26'	22:58	73°04'	6:11	307°17'
2023-12-26	15:33	49°26'	23:54	73°47'	7:18	310°11'
2023-12-27	16:31	50°04'			8:14	310°26'
2023-12-28	17:35	53°08'	0:49	72°50'	9:00	308°09'
2023-12-29	18:42	58°08'	1:41	70°26'	9:36	303°52'
2023-12-30	19:49	64°27'	2:30	66°49'	10:05	298°08'
2023-12-31	20:54	71°38'	3:15	62°20'	10:27	291°26'