GALILEAN SATELLITE MUTUAL EVENTS 2026/27

Some headings in the tables are abbreviated, as follows:

ID = Event identifier

Satel. = Satellites involved, for example 1O2 indicates satellite I occults satellite II etc.

Dur. = Duration of the eclipse or occultation (minutes).

Mag. = Combined visual magnitude

Drop = Magnitude drop at maximum phase of the occultation or eclipse. All occultations are partial; eclipses may be partial or annular.

Magn. = Percentage of the diameter of the second named satellite occulted (or eclipsed) by the first named satellite. Note that this terminology follows historical Handbooks and differs from the MULTI-SAT service.

Dist. = Separation between the eclipsing satellite and its shadow (arcseconds).

Alt. = Altitude of the Sun and Jupiter at Greenwich, London at the time of the event.

All data generated using the MULTI-SAT ephemeride server, *https://www.sai.msu.ru/neb/nss/html/multisat/nsszph5he.htm*

OCCULTATIONS

ID	Date	Start	Satel.	Dur.	Mag.	Mag. drop	Magn.	Jup. alt.	Sun alt.
		UT		mins.	V	V		°	°
7	22/08/2026	05:47:51	1O2	2.8	5.3	0.061	20%	22.0	7.1
13	10/09/2026	06:30:36	2O1	4.5	5.3	0.586	94%	36.8	9.3
14	19/09/2026	06:21:34	4O2	6.0	5.5	0.815	70%	39.1	5.7
16	23/09/2026	04:29:47	1O2	3.6	5.2	0.262	53%	24.0	-12.6
17	25/09/2026	06:35:38	2O3	5.2	5.0	0.064	25%	43.3	6.4
19	30/09/2026	06:50:18	1O2	2.4	5.2	0.061	20%	46.8	7.3
22	05/10/2026	05:13:07	4O1	8.3	5.3	0.204	31%	36.0	-9.0
34	01/11/2026	01:42:21	1O3	5.2	4.7	0.140	41%	16.6	-45.9
35	04/11/2026	02:23:50	3O1	4.9	4.7	0.246	46%	24.6	-41.8
37	07/11/2026	04:13:04	2O3	10.2	4.7	0.208	57%	41.8	-26.6
40	08/11/2026	04:35:34	1O3	2.6	4.6	0.017	10%	44.8	-23.3
41	11/11/2026	05:14:45	3O1	3.8	4.6	0.075	21%	49.5	-17.9
44	14/11/2026	07:51:38	2O3	10.9	4.7	0.183	52%	48.0	4.0
48	18/11/2026	08:07:53	3O1	0.8	4.6	0.000	1%	44.8	5.1
62	07/12/2026	04:56:17	2O3	56.7	4.6	0.148	44%	52.0	-25.9
64	10/12/2026	07:43:27	3O1	14.1	4.4	0.040	14%	37.4	-2.1
66	12/12/2026	23:13:58	2O3	23.5	4.5	0.283	84%	17.0	-60.8
70	20/12/2026	03:46:34	2O3	35.4	4.5	0.283	90%	51.9	-38.4
73	24/12/2026	04:07:24	3O1	22.2	4.3	0.026	10%	51.9	-35.5
95	08/03/2027	23:36:13	1O3	1.9	4.2	0.001	2%	51.8	-42.7
97	09/03/2027	16:55:22	1O3	40.7	4.2	0.088	30%	18.4	8.3
98	09/03/2027	19:56:16	1O3	24.5	4.2	0.023	12%	45.1	-19.5
99	16/03/2027	02:29:38	1O3	7.6	4.3	0.061	24%	25.2	-32.4
100	17/03/2027	00:34:28	1O3	4.3	4.3	0.004	4%	41.7	-39.8
102	28/04/2027	18:00:40	1O3	3.2	4.5	0.032	15%	53.7	10.7
103	01/05/2027	18:41:38	3O1	4.6	4.6	0.152	33%	55.2	5.2
104	05/05/2027	20:46:05	1O3	2.8	4.6	0.023	12%	45.7	-10.5
105	08/05/2027	21:30:58	3O1	5.1	4.6	0.166	35%	38.2	-14.4
106	12/05/2027	23:32:12	1O3	2.0	4.6	0.009	7%	17.3	-20.2
108	30/05/2027	21:16:53	3O1	24.9	4.8	0.354	58%	28.1	-8.8
109	06/06/2027	19:20:31	3O1	22.5	4.8	0.376	60%	41.3	5.7

GALILEAN SATELLITE MUTUAL EVENTS 2026/27

ECLIPSES

ID	Date	Start	Satel.	Dur.	Mag.	Mag. drop	Magn.	Dist.	Jup. alt.	Sun alt.
		UT		mins.	V	V		"	°	°
0	21/05/2026	21:33:20	1E2	16.9	5.1	0.367	57%	16.6	17.7	-11.8
4	15/06/2026	19:02:25	1E2	5.5	5.2	0.063	17%	14.5	28.4	8.9
6	22/08/2026	05:11:48	1E2	4.3	5.3	0.183	32%	10.6	16.4	1.6
12	10/09/2026	05:29:32	2E1	4.5	5.3	0.281	42%	20.2	27.5	-0.2
18	30/09/2026	05:26:12	1E2	5.0	5.2	0.626	80%	31.1	35.7	-5.7
23	12/10/2026	03:34:52	2E1	6.2	5.1	0.896	98%	30.1	24.3	-25.7
24	13/10/2026	03:10:47	1E4	13.2	5.3	0.212	45%	73.0	21.0	-29.4
26	17/10/2026	03:34:49	1E3	8.1	4.8	0.007	5%	26.3	26.7	-27.1
27	19/10/2026	05:51:02	2E1	6.4	5.1	0.779	80%	31.4	46.3	-6.7
28	21/10/2026	02:37:10	3E2	6.3	4.8	0.282	36%	66.6	19.6	-36.2
29	26/10/2026	08:08:02	2E1	6.4	5.1	0.556	67%	32.3	52.0	11.1
30	28/10/2026	05:48:42	3E2	7.1	4.8	0.450	52%	71.4	48.7	-9.3
31	29/10/2026	02:44:21	3E4	18.1	4.9	0.353	97%	95.9	24.7	-37.4
32	30/10/2026	07:31:02	2E4	9.4	5.4	0.587	79%	112.1	52.6	5.2
39	08/11/2026	01:36:21	1E3	3.5	4.6	0.022	9%	59.9	19.3	-48.5
42	13/11/2026	01:55:21	2E1	5.9	5.0	0.189	35%	32.5	24.9	-47.7
43	14/11/2026	03:28:59	2E3	9.6	4.7	0.155	33%	51.5	39.1	-35.0
45	15/11/2026	04:26:57	1E3	4.6	4.6	0.066	18%	64.3	46.4	-26.3
46	16/11/2026	07:47:00	1E4	20.4	5.1	0.460	83%	73.1	47.7	3.0
47	18/11/2026	05:08:05	3E1	2.7	4.6	0.020	7%	67.7	50.5	-20.5
49	20/11/2026	04:17:11	2E1	5.4	4.9	0.099	24%	31.8	47.1	-28.9
50	21/11/2026	07:00:29	2E3	10.9	4.7	0.185	37%	49.8	49.9	-4.4
51	23/11/2026	06:21:55	4E3	14.2	4.8	0.353	35%	104.9	51.5	-10.3
53	25/11/2026	07:54:43	3E1	4.8	4.5	0.107	20%	66.0	43.3	1.9
54	25/11/2026	09:22:21	4E2	11.1	5.2	0.947	65%	109.2	31.5	11.3
55	27/11/2026	06:41:26	2E1	4.3	4.9	0.034	12%	30.5	49.6	-8.3
56	02/12/2026	00:02:50	2E4	5.6	5.2	0.007	5%	93.3	18.0	-60.5
57	03/12/2026	00:40:35	2E4	25.8	5.1	0.225	52%	61.8	24.5	-59.1
58	03/12/2026	01:11:10	1E4	8.0	5.0	0.482	77%	112.3	29.1	-56.7
60	04/12/2026	09:09:41	2E1	1.1	4.8	0.000	1%	28.9	28.2	8.5
63	10/12/2026	00:54:28	3E2	6.7	4.5	0.444	51%	82.6	30.7	-59.2
65	11/12/2026	04:00:03	4E1	6.9	4.9	0.630	40%	108.0	51.2	-35.3
67	17/12/2026	04:05:11	3E2	5.9	4.5	0.276	35%	79.8	52.0	-35.2
68	19/12/2026	06:11:40	1E4	3.8	4.9	0.013	7%	97.5	44.4	-15.9
71	20/12/2026	07:27:54	1E4	27.0	4.9	0.260	53%	81.4	34.0	-5.2
72	21/12/2026	09:00:07	2E3	48.2	4.5	0.309	58%	26.4	19.4	5.7
74	24/12/2026	07:16:25	3E2	4.6	4.4	0.118	20%	75.3	33.4	-7.0
75	27/12/2026	02:46:26	2E3	19.1	4.4	0.073	22%	28.5	51.0	-47.8
77	30/12/2026	23:50:35	3E1	21.9	4.3	0.567	78%	35.8	33.9	-61.7
78	31/12/2026	07:20:53	3E1	28.8	4.3	0.567	80%	27.9	28.6	-6.6
80	03/01/2027	08:33:11	2E3	10.5	4.4	0.001	2%	22.2	15.5	2.6
81	03/01/2027	23:27:43	1E3	6.8	4.3	0.977	96%	54.5	33.1	-60.6
82	08/01/2027	00:55:36	3E1	10.5	4.3	0.567	82%	39.2	46.5	-59.5
83	11/01/2027	02:09:19	1E3	6.8	4.3	0.895	86%	46.0	52.3	-52.3
84	11/01/2027	23:20:54	2E3	16.3	4.4	0.270	50%	26.0	37.1	-59.0
85	15/01/2027	03:58:57	3E1	8.9	4.2	0.567	70%	34.4	47.2	-36.6

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ID	Date	Start	Satel.	Dur.	Mag.	Mag. drop	Magn.	Dist.	Jup. alt.	Sun alt.
		UT		mins.	V	V		"	°	°
86	18/01/2027	04:52:09	1E3	6.8	4.2	0.678	74%	36.1	39.4	-28.1
87	19/01/2027	03:15:36	2E3	11.2	4.3	0.101	26%	22.4	49.6	-42.7
88	22/01/2027	06:54:55	3E1	7.7	4.2	0.500	57%	27.3	18.6	-8.8
92	19/02/2027	18:07:38	3E1	1.2	4.2	0.002	1%	15.4	16.9	-7.5
93	22/02/2027	19:01:10	1E3	6.7	4.2	0.117	27%	17.7	27.4	-15.1
94	01/03/2027	22:08:08	1E3	7.2	4.2	0.085	22%	25.0	53.6	-39.0
96	09/03/2027	01:31:59	1E3	9.0	4.2	0.073	20%	30.0	38.3	-40.3