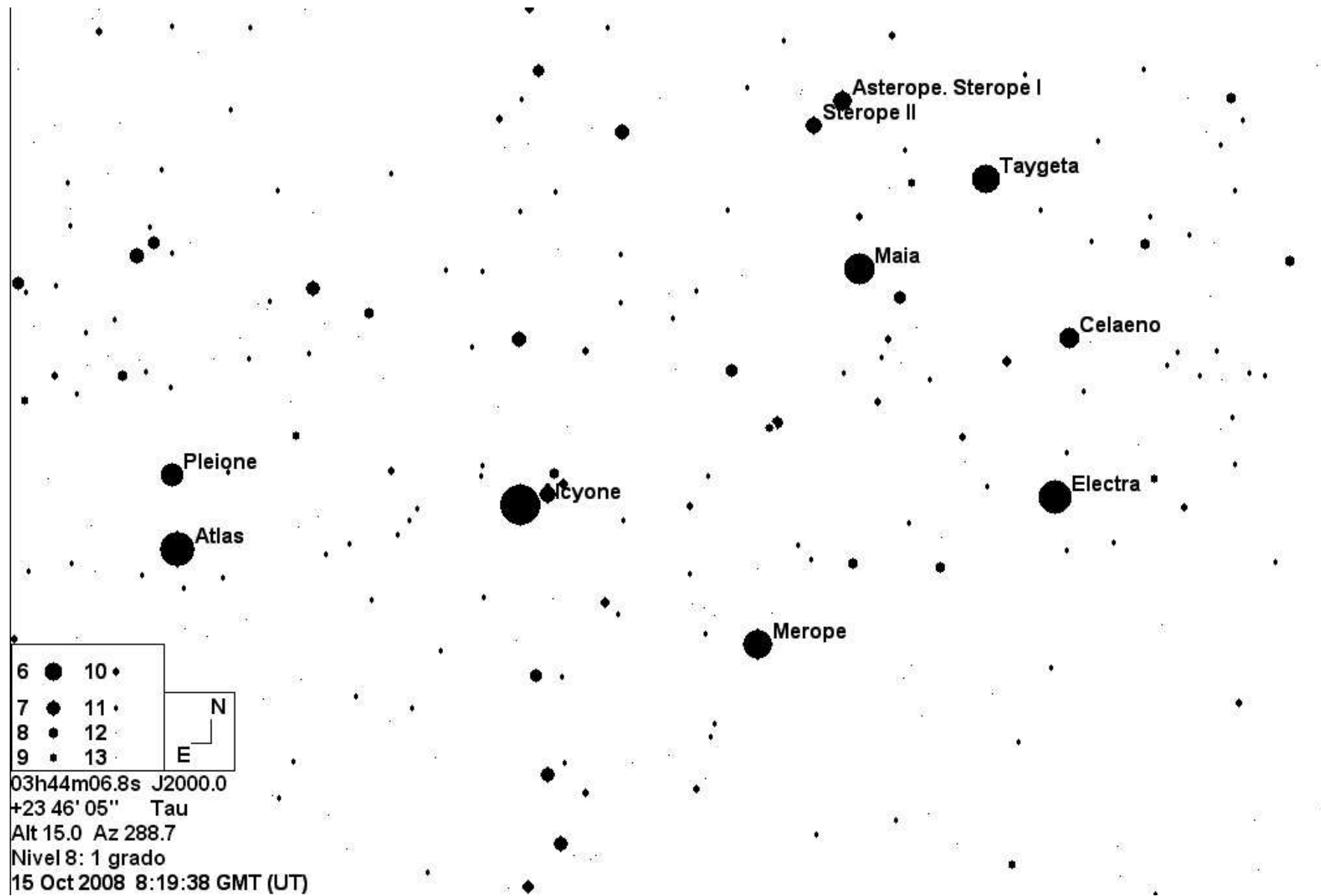


Fuente: Lunar Grazing Occultations
<http://iota.jhuapl.edu/grazmp08.htm>

Recopilado por Jorge A. Vázquez
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Ruta de este archivo:

http://elsegundoluz.com/descargas/2008_nov_13.pdf



NO.	YEAR	MO	DAY	USNO	SAOPPM	D	MAG	%SNL	L	W.U.T.	LONG	LAT	STAR NAME	MAG1	MAG2	SEP	PA	MAG3	SEP3	PA3
60	2008	NOV	13	ZC	539	76140V	4.3	99-	N 18	40.4	12	34 19	q Tau (Taygeta)	4.6	6.1	0.0				
61	2008	NOV	13	ZC	545	76172	4.1	99-	S 18	45.3	9	34 23	Tau (Merope)							
62	2008	NOV	13	ZC	541	76155V	3.9	99-	N 18	48.8	-10	34 20	Tau (Maia)	4.4	5.4		69			
63	2008	NOV	13	ZC	552	76199K	2.9	99-	S 19	19.5	16	34 25	eta Tau (Alcyone)	3.0	4.6	0.0	207			
64	2008	NOV	13	ZC	560	76228U	3.6	99-	S 19	46.6	-9	34 27	Tau (Atlas)	4.1	5.6	0.0				

Esta estrella sería ocultada desde España (sureste)

nighttime bright limb

62: NOV. 13, 2008 STAR: 20 Tau (Maia) MOON: 99% SUNLIT, WANING

NORTHERN LIMIT GRAZE HIP 17573, MAG. 3.9 PHASE-ANGLE: 190.1

DELTAT: 69.37 SEC. USNO ZC 541 SAO 76155 SPEC. B8 POS-AN.CUSP: 320.3

POSITION AND PROPER MOTION SOURCE: HIP

MAGNITUDE SOURCE: HIP, DECL.ERROR: 0.01 SEC. OF ARC

STAR IS DOUBLE.PRIMARY MAG. 4.4

STAR-CODE V, SECONDARY MAG. 5.4, SEP. 0.00 SEC.OF ARC AT POS.ANGLE 69 DEG

EAST LONG.	NORTH LAT.	UNIVERS.TIME	MOON	MOON	SUN	POS.ANGLE	CUSP T
DEG. ' "	DEG. ' "	H M S	ALT.	AZI.	TANZ	ALT. OF GRAZE	ANGLE
- 10	0 0	34 19 31	18 49 6.7	12.6	68.9	4.46	-15.1 341.01 20.7BC
- 9	0 0	34 56 25	18 49 43.9	13.8	69.6	4.09	-16.2 340.94 20.7BC
- 8	0 0	35 33 59	18 50 24.2	14.9	70.4	3.77	-17.2 340.87 20.6BC
- 7	0 0	36 12 12	18 51 7.7	16.0	71.2	3.49	-18.3 340.81 20.5BC
- 6	0 0	36 51 1	18 51 54.1	17.1	72.0	3.25	-19.3 340.75 20.5BC
- 5	0 0	37 30 26	18 52 43.8	18.2	72.8	3.04	-20.4 340.69 20.4BC
- 4	0 0	38 10 25	18 53 36.5	19.3	73.7	2.85	-21.4 340.65 20.4BC
- 3	0 0	38 50 56	18 54 32.4	20.4	74.6	2.68	-22.4 340.61 20.3BC
- 2	0 0	39 31 56	18 55 31.3	21.6	75.5	2.53	-23.5 340.57 20.3BC
- 1	0 0	40 13 23	18 56 33.1	22.6	76.5	2.40	-24.5 340.54 20.3BC
0	0 0	40 55 13	18 57 37.9	23.8	77.5	2.27	-25.5 340.52 20.2BC
1	0 0	41 37 23	18 58 45.5	24.8	78.6	2.16	-26.5 340.51 20.2BC
2	0 0	42 19 51	18 59 55.7	25.9	79.7	2.06	-27.4 340.50 20.2BC
3	0 0	43 2 31	19 1 8.5	27.0	80.9	1.96	-28.4 340.50 20.2BC
4	0 0	43 45 20	19 2 23.7	28.0	82.1	1.88	-29.3 340.51 20.2BC
5	0 0	44 28 14	19 3 41.2	29.1	83.3	1.80	-30.2 340.53 20.3BC
6	0 0	45 11 8	19 5 0.7	30.1	84.6	1.73	-31.1 340.56 20.3BC
7	0 0	45 53 58	19 6 22.1	31.1	85.9	1.66	-32.0 340.59 20.3BC
8	0 0	46 36 40	19 7 45.2	32.0	87.3	1.60	-32.8 340.63 20.4BC
9	0 0	47 19 8	19 9 9.8	33.0	88.7	1.54	-33.6 340.68 20.4BC
10	0 0	48 1 18	19 10 35.6	33.9	90.2	1.49	-34.4 340.73 20.4BC
11	0 0	48 43 6	19 12 2.5	34.8	91.7	1.44	-35.1 340.79 20.5BC
12	0 0	49 24 28	19 13 30.2	35.7	93.2	1.39	-35.8 340.86 20.6BC
13	0 0	50 5 20	19 14 58.4	36.5	94.8	1.35	-36.5 340.94 20.7BC
14	0 0	50 45 37	19 16 27.1	37.3	96.4	1.31	-37.1 341.02 20.7BC
15	0 0	51 25 17	19 17 55.9	38.1	98.1	1.28	-37.7 341.11 20.8BC

16	0	0	52	4	15	19	19	24.6	38.8	99.8	1.24	-38.3	341.21	20.9BC
17	0	0	52	42	30	19	20	53.3	39.5	101.5	1.21	-38.8	341.31	21.0BC
18	0	0	53	19	58	19	22	21.5	40.2	103.3	1.18	-39.3	341.41	21.1BC
19	0	0	53	56	38	19	23	49.1	40.8	105.0	1.16	-39.8	341.52	21.2BC
20	0	0	54	32	27	19	25	16.1	41.4	106.8	1.13	-40.2	341.63	21.4BC
21	0	0	55	7	25	19	26	42.4	42.0	108.6	1.11	-40.6	341.75	21.5BC
22	0	0	55	41	29	19	28	7.6	42.5	110.5	1.09	-41.0	341.87	21.6BC
23	0	0	56	14	40	19	29	31.9	43.0	112.3	1.07	-41.3	341.99	21.7BC
24	0	0	56	46	56	19	30	55.0	43.5	114.2	1.05	-41.6	342.12	21.8BC
25	0	0	57	18	17	19	32	17.0	44.0	116.1	1.04	-41.9	342.24	22.0BC
26	0	0	57	48	43	19	33	37.8	44.4	118.0	1.02	-42.1	342.37	22.1BC
27	0	0	58	18	15	19	34	57.2	44.7	119.9	1.01	-42.3	342.50	22.2BC
28	0	0	58	46	52	19	36	15.3	45.1	121.7	1.00	-42.5	342.63	22.4BC
29	0	0	59	14	36	19	37	32.1	45.4	123.6	0.99	-42.6	342.76	22.5BC
30	0	0	59	41	26	19	38	47.6	45.7	125.5	0.98	-42.8	342.89	22.6BC
31	0	0	60	7	25	19	40	1.6	46.0	127.4	0.97	-42.9	343.03	22.8BC
32	0	0	60	32	31	19	41	14.3	46.2	129.3	0.96	-43.0	343.16	22.9BC
33	0	0	60	56	47	19	42	25.6	46.4	131.2	0.95	-43.0	343.29	23.0BC
34	0	0	61	20	14	19	43	35.6	46.6	133.1	0.94	-43.1	343.42	23.1BC
35	0	0	61	42	52	19	44	44.2	46.8	135.0	0.94	-43.1	343.55	23.3BC
36	0	0	62	4	43	19	45	51.5	47.0	136.8	0.93	-43.1	343.68	23.4BC
37	0	0	62	25	48	19	46	57.5	47.1	138.7	0.93	-43.1	343.81	23.5BC
38	0	0	62	46	8	19	48	2.3	47.2	140.5	0.92	-43.1	343.94	23.7BC
39	0	0	63	5	44	19	49	5.7	47.4	142.4	0.92	-43.1	344.07	23.8BC
40	0	0	63	24	37	19	50	7.9	47.4	144.2	0.92	-43.0	344.19	23.9BC
41	0	0	63	42	49	19	51	9.1	47.5	146.0	0.92	-43.0	344.32	24.0BC
42	0	0	64	0	20	19	52	9.0	47.6	147.8	0.91	-42.9	344.45	24.2BC
43	0	0	64	17	12	19	53	7.7	47.6	149.6	0.91	-42.9	344.57	24.3BC
44	0	0	64	33	26	19	54	5.4	47.6	151.4	0.91	-42.8	344.69	24.4BC
45	0	0	64	49	3	19	55	2.1	47.6	153.1	0.91	-42.7	344.81	24.5BC

Esta estrella sería ocultada desde España (sureste)

nighttime dark limb

64: NOV. 13, 2008 STAR: 27 Tau (Atlas) MOON: 99% SUNLIT, WANING

SOUTHERN LIMIT GRAZE HIP 17847, MAG. 3.6 PHASE-ANGLE: 190.6
 DELTAT: 69.38 SEC. USNO ZC 560 SAO 76228 SPEC. B8 POS-AN.CUSP: 141.8
 POSITION AND PROPER MOTION SOURCE: HIP
 MAGNITUDE SOURCE: HIP, DECL.ERROR: 0.01 SEC. OF ARC

STAR IS DOUBLE.PRIMARY MAG. 4.1
 STAR-CODE U, SECONDARY MAG. 5.6, SEP. 0.01 SEC.OF ARC, POS.ANGLE UNKNOWN

EAST LONG.	NORTH LAT.	UNIVERS.TIME	MOON	MOON	SUN POS.ANGLE	CUSP T
DEG. ' "	DEG. ' "	H M S	ALT.	AZI. TANZ	ALT. OF GRAZE	ANGLE
- 9 0 0	34 18 44	19 46 58.6	24.0	76.3 2.24	-27.8 159.97	18.2DA
- 8 0 0	34 58 23	19 48 1.7	25.2	77.2 2.12	-28.8 159.93	18.1DA
- 7 0 0	35 38 20	19 49 8.0	26.4	78.2 2.02	-29.9 159.91	18.1DA

-	6	0	0	36	18	33	19	50	17.6	27.5	79.2	1.92	-31.0	159.88	18.1DA
-	5	0	0	36	58	58	19	51	30.3	28.7	80.2	1.83	-32.0	159.87	18.1DA
-	4	0	0	37	39	32	19	52	46.1	29.8	81.3	1.75	-33.0	159.87	18.1DA
-	3	0	0	38	20	12	19	54	4.7	31.0	82.4	1.67	-34.1	159.87	18.1DA
-	2	0	0	39	0	55	19	55	26.2	32.1	83.6	1.60	-35.1	159.88	18.1DA
-	1	0	0	39	41	35	19	56	50.4	33.2	84.8	1.53	-36.0	159.90	18.1DA
	0	0	0	40	22	11	19	58	17.1	34.3	86.1	1.47	-37.0	159.92	18.1DA
	1	0	0	41	2	37	19	59	46.1	35.4	87.4	1.41	-37.9	159.96	18.2DA
	2	0	0	41	42	50	20	1	17.3	36.4	88.7	1.36	-38.8	160.00	18.2DA
	3	0	0	42	22	47	20	2	50.6	37.4	90.2	1.31	-39.7	160.05	18.3DA
	4	0	0	43	2	23	20	4	25.7	38.5	91.6	1.26	-40.6	160.11	18.3DA
	5	0	0	43	41	35	20	6	2.4	39.4	93.2	1.22	-41.4	160.17	18.4DA
	6	0	0	44	20	19	20	7	40.5	40.4	94.8	1.17	-42.2	160.25	18.5DA
	7	0	0	44	58	33	20	9	19.9	41.4	96.4	1.14	-42.9	160.33	18.6DA
	8	0	0	45	36	12	20	11	0.1	42.3	98.1	1.10	-43.7	160.42	18.6DA
	9	0	0	46	13	14	20	12	41.3	43.2	99.8	1.07	-44.4	160.52	18.7DA
10	0	0	0	46	49	37	20	14	23.1	44.0	101.6	1.04	-45.0	160.62	18.8DA
11	0	0	0	47	25	17	20	16	5.3	44.8	103.4	1.01	-45.6	160.73	18.9DA
12	0	0	0	48	0	14	20	17	47.8	45.6	105.2	0.98	-46.2	160.84	19.1DA
13	0	0	0	48	34	24	20	19	30.3	46.4	107.1	0.95	-46.7	160.96	19.2DA
14	0	0	0	49	7	47	20	21	12.8	47.1	109.1	0.93	-47.2	161.09	19.3DA
15	0	0	0	49	40	21	20	22	54.9	47.8	111.1	0.91	-47.7	161.22	19.4DA
16	0	0	0	50	12	5	20	24	36.9	48.4	113.1	0.89	-48.1	161.36	19.6DA
17	0	0	0	50	42	59	20	26	18.2	49.0	115.2	0.87	-48.5	161.49	19.7DA
18	0	0	0	51	13	2	20	27	59.1	49.6	117.2	0.85	-48.9	161.64	19.9DA
19	0	0	0	51	42	13	20	29	39.2	50.2	119.4	0.83	-49.2	161.78	20.0DA
20	0	0	0	52	10	32	20	31	18.5	50.7	121.5	0.82	-49.5	161.93	20.1DA
21	0	0	0	52	38	0	20	32	56.9	51.2	123.7	0.81	-49.7	162.09	20.3DA
22	0	0	0	53	4	37	20	34	34.5	51.6	125.9	0.79	-49.9	162.24	20.5DA
23	0	0	0	53	30	22	20	36	11.1	52.0	128.1	0.78	-50.1	162.40	20.6DA
24	0	0	0	53	55	17	20	37	46.6	52.4	130.3	0.77	-50.3	162.55	20.8DA
25	0	0	0	54	19	22	20	39	21.1	52.8	132.5	0.76	-50.4	162.71	20.9DA
26	0	0	0	54	42	37	20	40	54.5	53.1	134.7	0.75	-50.5	162.87	21.1DA
27	0	0	0	55	5	4	20	42	26.8	53.4	137.0	0.74	-50.5	163.04	21.3DA
28	0	0	0	55	26	43	20	43	57.9	53.6	139.2	0.74	-50.6	163.20	21.4DA
29	0	0	0	55	47	35	20	45	28.0	53.8	141.5	0.73	-50.6	163.36	21.6DA
30	0	0	0	56	7	41	20	46	56.8	54.0	143.7	0.73	-50.6	163.52	21.7DA
31	0	0	0	56	27	1	20	48	24.6	54.2	146.0	0.72	-50.6	163.69	21.9DA
32	0	0	0	56	45	38	20	49	51.2	54.4	148.2	0.72	-50.5	163.85	22.1DA
33	0	0	0	57	3	30	20	51	16.6	54.5	150.5	0.71	-50.4	164.01	22.2DA
34	0	0	0	57	20	41	20	52	41.0	54.6	152.7	0.71	-50.3	164.18	22.4DA
35	0	0	0	57	37	9	20	54	4.2	54.6	154.9	0.71	-50.2	164.34	22.6DA
36	0	0	0	57	52	57	20	55	26.4	54.7	157.2	0.71	-50.1	164.50	22.7DA
37	0	0	0	58	8	6	20	56	47.4	54.7	159.3	0.71	-49.9	164.67	22.9DA
38	0	0	0	58	22	35	20	58	7.4	54.7	161.5	0.71	-49.8	164.83	23.1DA
39	0	0	0	58	36	26	20	59	26.5	54.7	163.7	0.71	-49.6	164.99	23.2DA
40	0	0	0	58	49	40	21	0	44.5	54.7	165.9	0.71	-49.4	165.15	23.4DA

41	0	0	59	2	18	21	2	1.5	54.6	168.0	0.71	-49.2	165.31	23.5DA
42	0	0	59	14	20	21	3	17.5	54.6	170.1	0.71	-49.0	165.47	23.7DA
43	0	0	59	25	47	21	4	32.7	54.5	172.2	0.71	-48.7	165.63	23.9DA
44	0	0	59	36	40	21	5	46.9	54.4	174.3	0.72	-48.5	165.78	24.0DA
45	0	0	59	46	59	21	7	0.2	54.3	176.4	0.72	-48.2	165.94	24.2DA

Map legend

In the color maps you only find solid lines now, and the phases of each event are distinguished by color; in the black and white maps (smaller files), the lines are dotted, dashed, or solid:

- nighttime dark limb: black or solid lines
- nighttime bright limb: yellow or dotted lines (large dots for very bright objects)
- daytime dark- and bright limb: blue or small dots (vertical dashes for very bright objects)

