

Rapporto 2024 del Gruppo Corpi Minori della Società Astronomica Ticinese

di Stefano Sposetti

1. Bilancio osservativo annuale del GCM: 61 corde in 43 eventi positivi

OSSERVATORE	eventi osservati	corde
Luca Bartek	1	1
Carlo Gualdoni	1	1
Andrea Manna	10	6
Alberto Ossola	25	11
Stefano Sposetti	162	41
Ivan Zivko et al.	1	1
TOTALE	200	61
TOTALE 2023	223	48

Segue l'elenco dei 43 eventi positivi del 2024 (in grassetto). Qui sono anche elencati gli eventi con 1 o 2 "integration frame" considerati come possibili o probabili.

Data	(N) Asteroide	Note	Corde	Luogo
2024-12-31 (137) Meliboea			3	CUG GNO MUZ
2024-12-30 (5885) Apeldoorn		(2 integr frame)	1	GNO
2024-12-27 (5757) Ticha			1	GNO
2024-12-25 (169418) 2001 XF208			1	GNO
2024-12-25 (58327) 1994 SC9		(1 integr frame)	1	GNO
2024-12-24 (109990) 2001 SS58			1	MUZ
2024-12-23 (420) Bertholda			3	CUG GNO MUZ
2024-12-23 (1284) Latvia			2	GNO MUZ
2024-12-03 (27605) 2001 HN9			1	GNO
2024-12-02 (1237) Genevieve		GAIAMOONS Feed	1	BER
2024-11-29 (368) Haidea			2	CUG GNO
2024-11-18 (718) Erida			1	GNO
2024-11-09 (436) Patricia			1	MUZ
2024-11-07 (85571) 1998 BV21			1	GNO
2024-11-05 (9193) Geoffreycopland		(2 integr frame)	1	GNO
2024-11-03 (445) Edna			1	GNO
2024-11-02 (501) Urhixidur			1	GNO
2024-11-02 (247) Eukrate			2	GNO MUZ
2024-09-30 (48153) 2001 FW172			1	FLU
2024-09-17 (137) Meliboea			1	FLU
2024-09-14 24471) 2000 SH313		Jupiter Trojan	1	FLU
2024-09-05 (308) Polyxo			1	FLU
2024-08-11 (165650) 2001 HN36			1	GNO
2024-07-17 (13345) 1998 SW132			1	GNO
2024-04-25 (45611) 2000 DV54			1	GNO
2024-04-18 (1960) Guisan			1	GNO
2024-04-12 (599) Luisa			1	LOC
2024-04-12 (248) Lameia			2	CUG LOC
2024-04-12 (4446) Carolyn			1	GNO
2024-04-02 (4280) Simonenko			2	CRS GNO
2024-03-23 (54861) 2001 OJ25			1	MUZ
2024-03-19 (131) Vala			3	GNO MEZ MUZ
2024-03-16 (11745) 1999 NH3			1	GNO
2024-03-14 (7210) Darius			1	POR
2024-03-12 (10931) Ceccano			1	MUZ
2024-02-05 (738) Alagasta			6	BEL COM CUG GNO MEZ MUZ
2024-02-02 (491) Carina			2	GNO VER
2024-02-28 (998) Bodea			1	MUZ

2024-01-28 (2098) Zyskin	1	SMC
2024-01-28 (16708) 1995 SP1	1	GNO
2024-01-27 (1420) Radcliffe	1	GNO
2024-01-25 (217) Eudora	1	GNO
2024-01-24 (1018) Arnolda	1	GNO
2024-01-16 (32950) 1996 CA1	1	GNO
2024-01-15 (14569) 1998 QB32	2	CUG GNO
2024-01-13 (510) Mabella	1	GNO
2024-01-11 (8389) 1993 FT37	1	GNO

(1 integr frame)

Il 2024 è risultato molto proficuo poiché il numero di corde ha superato del 27% quello dell'anno precedente. L'anno non si è distinto per l'importanza degli eventi osservati ma piuttosto per il numero di corde misurate. Un'occultazione quasi straordinaria (Alagasta) ha ottenuto sei corde e tre eventi ne hanno ottenute tre (Vala, Bertholda, Meliboea).

Le corde più numerose sono state ottenute:

- 9 corde a gennaio
- 9 corde a febbraio (con l'evento di Alagasta)
- 7 corde a marzo
- 8 corde ad aprile
- 9 corde a novembre
- 13 corde a dicembre.

Le osservazioni sono state eseguite dalle **6 postazioni fisse** di Bellinzona, Como, Cugnasco, Gnosca, Muzzano, Porza e dalle **7 postazioni mobili** di Carasso, Locarno, Mezzovico, San Bernardino, Santa Maria Calanca, Verdabbio, Fluminimaggiore (I).

A proposito dell'occultazione asteroidale di (738) Alagasta, programmata per il 5 febbraio e promossa dal Gruppo Corpi Minori, ci preme riferire che è stata seguita in tempo reale da circa una dozzina di persone dislocate sia nel Sopra che nel Sottoceneri. Le condizioni meteorologiche erano ottime e il breve evento è stato osservato con successo. La stella è sparita in maniera improvvisa lasciando un vuoto di luce che in alcune postazioni è durato fino ad una decina di secondi. Un gruppo di studenti del Liceo di Bellinzona ha pure contribuito con una sua misura. I dati registrati permetteranno di migliorare l'orbita e le dimensioni dell'asteroide.

Le osservazioni svolte per "Feed" importanti sono state:

Data	Nome	Feed	Luogo	Risultato
2024-01-20	Miranda (Uranus V)	LuckyStar	GNO	?
2024-02-14	2002 XW93	Luckystar	GNO	?
2024-03-12	(4875) Ingalls	Gaiamoons	GNO	NEG
2024-10-30	2010 XE91	Luckystar	GNO	NEG
2024-11-29	(911) Agamemnon	Gaiamoons	CUG GNO	NEG e NEG
2024-12-02	(1237) Genevieve	Gaiamoons	BER GNO	POS e NEG

Il punto interrogativo definisce lo status ancora sconosciuto delle analisi.

Tutte le nostre misure sono riportate sul sito europeo *SODIS* come pure su *SOTAS* (<http://www.occultations.ch/>) che è il sito del gruppo di lavoro svizzero sulle occultazioni asteroidali sotto l'ombrello della SAS.

Segue l'elenco completo delle occultazioni svolte dal gruppo.

Le positive sono indicate anche col segno "+" e in grassetto.

Le negative sono indicate col segno "-".

Le possibili o probabili (1 o 2 integr. frame) sono indicate col segno "?".

Luca Bartek (1 misura; 1 corda)

	Mag Ste. / Ast.	Durata [sec.]	
2024-03-14 (7210) Darius	13.1 / 18.3	0.68	POR + Luca Bartek

Carlo Gualdoni (1 misura; 1 corda)

	Mag Ste. / Ast.	Durata [sec.]	
2024-02-05 (738) Alagasta	11.6 / 14.9	9.04	COM + Carlo Gualdoni

Andrea Manna (10 misure; 6 corde)

	Mag Ste. / Ast.	Durata [sec.]	
2024-12-31 (137) Meliboea	13.3 / 13.8	4.84	CUG + Andrea Manna
2024-12-23 (420) Bertholda	13.3 / 13.2	9.50	CUG + Andrea Manna
2024-11-29 (911) Agamemnon	13.8 / 15.7		CUG - Andrea Manna
2024-11-29 (368) Haidea	14.0 / 15.1	6.40	CUG + Andrea Manna
2024-11-18 (10244) Thuringer Wald	8.5 / 18.7		CUG - Andrea Manna
2024-11-14 (30956) 1994 QP	13.6 / 19.5		CUG - Andrea Manna
2024-10-30 (2266) Tchaikovsky	14.8 / 15.2		CUG - Andrea Manna
2024-04-12 (248) Lameia	12.4 / 15.0	5.28	CUG + Andrea Manna
2024-02-05 (738) Alagasta	11.6 / 14.9	8.80	CUG + Andrea Manna
2024-01-15 (14569) 1998 QB32	11.8 / 17.7	1.68	CUG + Andrea Manna

Alberto Ossola (25 misure; 11 corde)

	Mag Ste. / Ast.	Durata [sec.]	
2024-12-31 (137) Meliboea	13.3 / 13.8	5.76	MUZ + Alberto Ossola
2024-12-24 (109990) 2001 SS58	12.0 / 19.7	0.16	MUZ + Alberto Ossola
2024-12-23 (1284) Latvia	14.3 / 13.1	5.10	MUZ + Alberto Ossola
2024-12-23 (420) Bertholda	13.3 / 13.2	9.78	MUZ + Alberto Ossola
2024-11-27 (3122) Florence	9.2 / 15.0		MUZ - Alberto Ossola
2024-11-09 (436) Patricia	13.9 / 15.0	10.24	MUZ + Alberto Ossola
2024-11-02 (247) Eukrate	11.9 / 11.7	10.60	MUZ + Alberto Ossola
2024-10-30 (2266) Tchaikovsky	14.8 / 15.2		MUZ - Alberto Ossola
2024-10-30 (25540) 1999 XQ159	10.9 / 18.5		MUZ - Alberto Ossola
2024-08-15 (84873) 2003 BW55	10.3 / 19.5		MUZ - Alberto Ossola
2024-07-16 (94747) 2001 XB85			MUZ - Alberto Ossola
2024-04-11 (2304) Slavia	10.6 / 18.0		MUZ - Alberto Ossola
2024-03-24 (17311) 6584 P-L			MUZ - Alberto Ossola
2024-03-23 (54861) 2001 OJ25	13.1/20.3	0.6	MUZ + Alberto Ossola
2024-03-19 (131) Vala	13.2 / 13.8	3.68	MUZ + Alberto Ossola
2024-03-14 (3278) Behounek	13.0 / 17.3		MUZ - Alberto Ossola
2024-03-12 (10931) Ceccano	11.7 / 18.6	1.00	MUZ + Alberto Ossola
2024-03-11 (674) Rachele	14.1 / 12.7		MUZ - Alberto Ossola
2024-02-28 (998) Bodea	13.3 / 17.0	1.60	MUZ + Alberto Ossola
2024-02-20 (186289) 2002 BB19	9.3 / 19.4		MUZ - Alberto Ossola
2024-02-05 (738) Alagasta	11.6 / 14.9	10.16	MUZ + Alberto Ossola
2024-01-15 (14569) 1998 QB32	11.8 / 17.7		MUZ - Alberto Ossola
2024-01-04 (35167) 1993 RX13	12.3 / 19.4		MUZ - Alberto Ossola
2024-01-03 (38462) 1999 TL21	12.6 / 18.8		MUZ - Alberto Ossola
2024-01-01 (60688) 2000 GY35	8.7 / 19.0		MUZ - Alberto Ossola

Stefano Sposetti (162 misure; 41 corde)

	Mag Ste. / Ast.	Durata [sec.]	
2024-12-31 (137) Meliboea	13.3 / 13.8	4.71	GNO + Stefano Sposetti
2024-12-30 (5885) Apeldoorn	14.8 / 16.9	2.30	GNO ? Stefano Sposetti
2024-12-30 (340653) 2006 RM7	8.8 / 20.9		GNO - Stefano Sposetti
2024-12-29 (320848) 2008 FU95	8.5 / 20.4		GNO - Stefano Sposetti
2024-12-28 (553) Kundry	13.4 / 14.4		GNO - Stefano Sposetti
2024-12-27 (5757) Ticha	13.3 / 17.7	0.77	GNO + Stefano Sposetti
2024-12-26 (268240) 2005 GW181	10.7 / 20.8		GNO - Stefano Sposetti
2024-12-25 (347299) 2011 OA28	13.1 / 21.3		GNO - Stefano Sposetti
2024-12-25 (169418) 2001 XF208	11.9 / 19.0	0.36	GNO + Stefano Sposetti
2024-12-25 (58327) 1994 SC9	14.0 / 19.4	0.45	GNO ? Stefano Sposetti
2024-12-23 (420) Bertholda	13.3 / 13.2	8.94	GNO + Stefano Sposetti
2024-12-23 (1284) Latvia	14.3 / 13.2	4.61	GNO + Stefano Sposetti
2024-12-22 (300519) 2007 TK210	9.0 / 21.2		GNO - Stefano Sposetti
2024-12-21 (543733) 2014 OZ393	15.2 / 22.3		GNO - Stefano Sposetti
2024-12-12 (P/2023 V6) PANSTARRS	12.2 / 21.9		GNO - Stefano Sposetti
2024-12-07 (247) Eukrate	10.5 / 11.4		GNO - Stefano Sposetti
2024-12-06 (342) Endymion	13.1 / 12.9		GNO - Stefano Sposetti
2024-12-03 (27605) 2001 HN9	9.0 / 18.5	0.37	GNO + Stefano Sposetti
2024-12-02 (1237) Genevieve	12.9 / 14.5		GNO - Stefano Sposetti
2024-12-02 (1237) Genevieve	12.9 / 14.5	3.78	BER + Stefano Sposetti
2024-12-01 (376055) 2010 EO113	12.4 / 20.3		GNO - Stefano Sposetti
2024-12-01 (112289) 2002 LL32	12.2 / 17.9		GNO - Stefano Sposetti

2024-11-29 (911) Agamemnon	13.8 / 15.7		GNO - Stefano Sposetti
2024-11-29 (134642) 1999 UV44	14.2 / 20.5		GNO - Stefano Sposetti
2024-11-29 (58547) 1997 FZ2	14.9 / 20.4		GNO - Stefano Sposetti
2024-11-29 (368) Haidea	14.0 / 15.1	6.30	GNO + Stefano Sposetti
2024-11-28 (508) Princetonia	12.8 / 13.1		GNO - Stefano Sposetti
2024-11-28 (90642) 5093 T-2	12.2 / 18.3		GNO - Stefano Sposetti
2024-11-28 (18963) 2000 QB141	11.7 / 18.0		GNO - Stefano Sposetti
2024-11-27 (420) Bertholda	11.8 / 13.6		GNO - Stefano Sposetti
2024-11-27 (276P) Vorobjov	11.7 / 17.9		GNO - Stefano Sposetti
2024-11-27 (255) Oppavia	12.9 / 15.9		GNO - Stefano Sposetti
2024-11-20 (1237) Genevieve	14.0 / 14.8		GNO - Stefano Sposetti
2024-11-18 (10244) Thuringer Wald	8.5 / 18.7		GNO - Stefano Sposetti
2024-11-18 (718) Erida	13.5 / 14.9	4.17	GNO + Stefano Sposetti
2024-11-12 (139868) 2001 RX69	13.8 / 19.8		GNO - Stefano Sposetti
2024-11-10 (420313) 2011 YQ62	13.0 / 20.5		GNO - Stefano Sposetti
2024-11-07 (703353) 2007 PH48	10.6 / 21.3		GNO - Stefano Sposetti
2024-11-07 (543775) 2014 PM41	9.8 / 22.1		GNO - Stefano Sposetti
2024-11-07 (243662) 1999 VW71	10.4 / 20.4		GNO - Stefano Sposetti
2024-11-07 (85571) 1998 BV21	14.1 / 17.8	1.24	GNO + Stefano Sposetti
2024-11-07 (1739) Meyermann	14.0 / 16.6		GNO - Stefano Sposetti
2024-11-07 (875) Nympe	14.2 / 14.8		GNO - Stefano Sposetti
2024-11-06 (-) 2012 CW65	6.8 / 22.1		GNO - Stefano Sposetti
2024-11-05 (107726) 2001 FZ26	13.0 / 20.0		GNO - Stefano Sposetti
2024-11-05 (13233) 1998 FC66	10.3 / 17.4		GNO - Stefano Sposetti
2024-11-05 (9193) Geoffreycopland	14.4 / 16.5	0.95	GNO ? Stefano Sposetti
2024-11-03 (364965) 2008 GJ139	6.8 / 21.9		GNO - Stefano Sposetti
2024-11-03 (195614) 2002 LG20	12.5 / 18.7		GNO - Stefano Sposetti
2024-11-03 (183509) 2003 FZ40	9.3 / 20.0		GNO - Stefano Sposetti
2024-11-03 (445) Edna	12.3 / 14.0	8.01	GNO + Stefano Sposetti
2024-11-02 (501) Urhixidur	15.4 / 14.1	10.00	GNO + Stefano Sposetti
2024-11-02 (595730) 2003 UL342	9.6 / 20.4		GNO - Stefano Sposetti
2024-11-02 (500) Selinur	11.6 / 12.4		GNO - Stefano Sposetti
2024-11-02 (-) 2022 QK32	13.7 / 22.4		GNO - Stefano Sposetti
2024-11-02 (247) Eukrate	11.9 / 11.7	8.91	GNO + Stefano Sposetti
2024-11-01 (544992) 2014 XS5	11.0 / 20.9		GNO - Stefano Sposetti
2024-11-01 (487P) SidingSpring	12.0 / 15.5		GNO - Stefano Sposetti
2024-10-31 (486018) 2012 SQ23	13.1 / 20.9		GNO - Stefano Sposetti
2024-10-31 (425430) 2010 DJ44	8.9 / 20.8		GNO - Stefano Sposetti
2024-10-31 (375387) 2008 SW201	9.9 / 20.8		GNO - Stefano Sposetti
2024-10-30 (649172) 2010 XE91	10.9 / 23.0		GNO - Stefano Sposetti
2024-10-30 (529480) 2010 AR120	10.7 / 21.2		GNO - Stefano Sposetti
2024-10-30 (428853) 2008 UD88	9.0 / 20.4		GNO - Stefano Sposetti
2024-10-30 (71740) 2000 QV25	8.1 / 18.6		GNO - Stefano Sposetti
2024-10-30 (2266) Tchaikovsky	14.8 / 15.2		GNO - Stefano Sposetti
2024-10-29 (78673) 2002 TP114	12.5 / 18.9		GNO - Stefano Sposetti
2024-10-29 (56866) 2000 QN94	11.4 / 18.3		GNO - Stefano Sposetti
2024-10-29 (4031) Mueller	8.6 / 14.9		GNO - Stefano Sposetti
2024-10-29 (360P) WISE	13.2 / 19.8		GNO - Stefano Sposetti
2024-10-28 (54969) 2001 PL34	12.3 / 19.9		GNO - Stefano Sposetti
2024-10-15 (235982) 2005 EE293	9.8 / 20.5		GNO - Stefano Sposetti
2024-10-10 (45462) 2000 AZ197	12.9 / 19.5		GNO - Stefano Sposetti
2024-09-30 (48153) 2001 FW172	13.4 / 17.9	2.44	FLU + Stefano Sposetti
2024-09-28 (C/2023 TD22) Lemmon	11.5 / 17.2		FLU - Stefano Sposetti
2024-09-27 (1724) Vladimir	11.3 / 16.5		FLU - Stefano Sposetti
2024-09-17 (137) Meliboea	12.4 / 11.9	9.95	FLU + Stefano Sposetti
2024-09-14 (24471) 2000 SH313	12.7 / 18.4	0.86	FLU + Stefano Sposetti
2024-09-06 (276049) 2002 CE26	10.1 / 15.0		FLU - Stefano Sposetti
2024-09-06 (276049) 2002 CE26	9.8 / 15.0		FLU - Stefano Sposetti
2024-09-05 (308) Polyxo	12.6 / 13.2	11.20	FLU + Stefano Sposetti
2024-08-21 (3005) Pervictoralex	11.2 / 19.6		GNO - Stefano Sposetti
2024-08-11 (165650) 2001 HN36	13.6 / 19.0	0.60	GNO + Stefano Sposetti
2024-08-11 (331448) 2012 HX7	11.0 / 20.5		GNO - Stefano Sposetti
2024-08-11 (43815) 1991 VD4	14.6 / 17.3		GNO - Stefano Sposetti
2024-08-10 (8577) Choseikomori	11.2 / 15.5		GNO - Stefano Sposetti
2024-07-24 (41362) 2000 AJ81	12.2 / 18.0		GNO - Stefano Sposetti
2024-07-24 (1167) Dubiago	14.6 / 14.8		GNO - Stefano Sposetti
2024-07-22 (523722) 2014 LV28	14.0 / 21.2		GNO - Stefano Sposetti
2024-07-18 (C/2023 V1) Lemmon	12.7 / 14.7		GNO - Stefano Sposetti
2024-07-18 (66069) 1998 RK42	12.4 / 18.7		GNO - Stefano Sposetti
2024-07-17 (13345) 1998 SW132	12.8 / 18.0	0.45	GNO + Stefano Sposetti
2024-04-25 (45611) 2000 DV54	10.1 / 19.5	0.50	GNO + Stefano Sposetti
2024-04-20 (105512) 2000 RJ14	11.7 / 20.0		GNO - Stefano Sposetti
2024-04-18 (1960) Guisan	12.3 / 15.5	1.65	GNO + Stefano Sposetti
2024-04-12 (3962) Valyaev	14.0 / 17.9		LOC - Stefano Sposetti
2024-04-12 (599) Luisa	13.9 / 14.8	1.16	LOC + Stefano Sposetti
2024-04-12 (248) Lameia	12.4 / 15.0	4.10	LOC + Stefano Sposetti
2024-04-12 (4446) Carolyn	12.4 / 17.0	1.37	GNO + Stefano Sposetti
2024-04-12 (458703) 2011 HU73	8.8 / 21.4		GNO - Stefano Sposetti

2024-04-12 (372) Palma	9.1 / 12.3		GNO - Stefano Sposetti
2024-04-02 (4280) Simonenko	12.8 / 17.0	0.64	GNO + Stefano Sposetti
2024-04-02 (4280) Simonenko	12.8 / 17.0	0.86	CRS + Stefano Sposetti
2024-03-21 (195284) 2002 EC76	13.4 / 21.1		GNO - Stefano Sposetti
2024-03-21 (3025) Higson	14.5 / 16.2		GNO - Stefano Sposetti
2024-03-19 (131) Vala	13.2 / 13.8	7.10	MEZ + Stefano Sposetti
2024-03-19 (131) Vala	13.2 / 13.8	4.99	GNO + Stefano Sposetti
2024-03-16 (11745) 1999 NH3	12.8 / 17.9	0.75	GNO + Stefano Sposetti
2024-03-16 (226355) 2003 GR24	13.5 / 20.4		GNO - Stefano Sposetti
2024-03-16 (111068) 2001 VP48	11.8 / 20.0		GNO - Stefano Sposetti
2024-03-16 (15595) Melwincheng	11.1 / 19.1		GNO - Stefano Sposetti
2024-03-12 (10931) Ceccano	11.7 / 18.6		GNO - Stefano Sposetti
2024-03-12 (180768) 2004 PK54	11.7 / 21.5		GNO - Stefano Sposetti
2024-03-12 (176476) 2001 XM164	15.9 / 20.0		GNO - Stefano Sposetti
2024-03-12 (4875) Ingalls	13.0 / 18.1		GNO - Stefano Sposetti
2024-03-11 (482226) 2011 AP21	12.3 / 21.5		GNO - Stefano Sposetti
2024-03-11 (264087) 2009 SL252	13.8 / 21.5		GNO - Stefano Sposetti
2024-03-11 (7293) Kazuyuki	11.5 / 17.2		GNO - Stefano Sposetti
2024-02-23 (13463) Antiphos	14.5 / 18.6		GNO - Stefano Sposetti
2024-02-23 (167579) 2004 BF73	13.6 / 20.1		GNO - Stefano Sposetti
2024-02-14 (80040) 1999 JT31	13.2 / 20.8		GNO - Stefano Sposetti
2024-02-14 (66) Maja	12.9 / 13.1		GNO - Stefano Sposetti
2024-02-06 (19771) 2000 OF44	12.9 / 17.0		GNO - Stefano Sposetti
2024-02-05 (738) Alagasta	11.6 / 14.9	10.46	MEZ + Stefano Sposetti
2024-02-05 (738) Alagasta	11.6 / 14.9	1.83	GNO + Stefano Sposetti
2024-02-05 (-) 2010 AM116	12.2 / 20.8		GNO - Stefano Sposetti
2024-02-04 (356279) 2010 BD41	11.7 / 20.2		GNO - Stefano Sposetti
2024-02-04 (21653) Davidwang	11.7 / 18.8		GNO - Stefano Sposetti
2024-02-02 (491) Carina	10.6 / 14.0	6.34	GNO + Stefano Sposetti
2024-02-02 (491) Carina	10.6 / 14.0	7.36	VER + Stefano Sposetti
2024-01-29 (245930) 2006 RZ21	13.9 / 20.3		GNO - Stefano Sposetti
2024-01-29 (9799) Thronium	14.7 / 16.9		GNO - Stefano Sposetti
2024-01-28 (2098) Zyskin	9.0 / 17.7	0.67	SMC + Stefano Sposetti
2024-01-28 (16708) 1995 SP1	12.8 / 18.0	0.90	GNO + Stefano Sposetti
2024-01-27 (5928) Pindarus	11.0 / 18.0		GNO - Stefano Sposetti
2024-01-27 (1420) Radcliffe	14.0 / 16.6	2.91	GNO + Stefano Sposetti
2024-01-25 (217) Eudora	13.4 / 15.6	2.40	GNO + Stefano Sposetti
2024-01-24 (1018) Arnolda	12.3 / 15.6	0.68	GNO + Stefano Sposetti
2024-01-19 (310432) 1999 XN226	10.9 / 19.7		GNO - Stefano Sposetti
2024-01-16 (32950) 1996 CA1	11.3 / 19.6	0.63	GNO + Stefano Sposetti
2024-01-15 (467801) 2010 AS130	13.7 / 20.8		GNO - Stefano Sposetti
2024-01-15 (64414) 2001 UJ171	10.2 / 18.7		GNO - Stefano Sposetti
2024-01-15 (14569) 1998 QB32	11.8 / 17.7	1.63	GNO + Stefano Sposetti
2024-01-13 (510) Mabella	13.1 / 14.3	2.08	GNO + Stefano Sposetti
2024-01-11 (8389) 1993 FT37	14.0 / 17.6	0.70	GNO ? Stefano Sposetti
2024-01-11 (473266) 2015 MC36	12.6 / 20.4		GNO - Stefano Sposetti
2024-01-11 (249789) 2000 XC53	13.2 / 19.0		GNO - Stefano Sposetti
2024-01-11 (81977) 2000 QK85	14.3 / 19.1		GNO - Stefano Sposetti
2024-01-11 (30572) 2001 OE98	11.6 / 17.3		GNO - Stefano Sposetti
2024-01-11 (1222) Tina	10.4 / 16.8		GNO - Stefano Sposetti
2024-01-04 (-) 2001 AO54	12.4 / 21.3		GNO - Stefano Sposetti
2024-01-04 (19321) 1996 XY7	13.2 / 17.6		GNO - Stefano Sposetti
2024-01-04 (2138) Swissair	12.8 / 16.1		GNO - Stefano Sposetti
2024-01-04 (35167) 1993 RX13	12.3 / 19.4		GNO - Stefano Sposetti
2024-01-03 (38462) 1999 TL21	12.6 / 18.8		GNO - Stefano Sposetti
2024-01-03 (210921) 2001 SA328	13.4 / 20.3		GNO - Stefano Sposetti
2024-01-03 (18219) 6260 P-L	14.5 / 17.7		GNO - Stefano Sposetti
2024-01-01 (105022) 2000 KQ29	13.7 / 19.1		GNO - Stefano Sposetti
2024-01-01 (77735) 2001 OJ76	13.9 / 18.7		GNO - Stefano Sposetti
2024-01-01 (58541) 1997 EA18	12.5 / 18.6		GNO - Stefano Sposetti
2024-01-01 (25630) Sarkar	9.8 / 20.5		GNO - Stefano Sposetti
2024-01-01 (60688) 2000 GY35	8.7 / 19.0		GNO - Stefano Sposetti

Ivan Zivko et al. (1 misura; 1 corda)

	Mag Ste. / Ast.	Durata [sec.]	
2024-02-05 (738) Alagasta	11.6 / 14.9	4.64	BEL + I. Zivko / D. Speziga / L. Berti

2. Confronto con la Svizzera: 61 corde del GCM su 123 (~50 %)

In questo 2024 gli osservatori d'oltralpe sono stati P. Englmaier, M. Kohl, S. Meister, A. Schweizer, R. Spinner, C. Ziolek. Hanno fatto 164 osservazioni ottenendo 62 corde. Noi a Sud delle Alpi siamo fieri di aver contribuito con le nostre 61 corde.

3. Giornate di studio

Il GCM ha organizzato in Ticino tre incontri:

- 17 febbraio 2024: online per discutere l'evento di Alagasta (dieci partecipanti)
- 9 marzo 2024: presso il Ristorante Casa del Popolo a Bellinzona (nove presenti)
- 16 novembre 2024: sempre presso il Ristorante Casa del Popolo (otto partecipanti).

Il Gruppo svizzero SOTAS ha organizzato un incontro:

- 4 maggio 2024: Bülach: gruppo SOTAS della SAG (dieci presenti).

L'associazione IOTA ha organizzato i seguenti incontri:

- 4 febbraio 2024: Meeting online SODIS
- 7 aprile 2024: IOTA/ES Meeting online
- 2 giugno 2024: IOTA/ES Meeting online
- 4 agosto 2024: IOTA/ES Meeting online
- 23/25 agosto 2024: incontro IOTA/ES a Stuttgart con 7 persone provenienti dalla Svizzera
- 2 dicembre 2024: IOTA/ES Meeting online.

4. Pubblicazioni

JOA 2024-2: Stefano Sposetti, **Encouraging Young Students to Practice Stellar Occultations**

5. Prestito materiale sociale

-

6. Altro

- Il GCM ha annunciato sulla piattaforma AstroTi l'allerta per l'osservazione di (738) Alagasta.
- Questo rapporto è pubblicato sul sito <https://www.astroticino.ch/occultazioni-asterodiali/>

Appendice

Ed infine ecco alcuni profili di asteroidi ottenuti nel 2024 con nostre misure e pubblicati sul sito CORA (<https://astro.kretlow.de/?CORA>)

2024-02-05 / TYC 1325-00631-1 / (738) Alagasta

#	OBS	Observer	Occ	Meth.	Instr.	CC	TSRC	UT1	UT2	UT3	UT4	UT2E	UT3E	Dur.	Chrd
1	show	Carlo Gualdoni	O+	VID	M250	IT	GPS	18:49:35	18:54:27.81	18:54:36.85	18:59:32	0.04	0.04	9.04	48.8
2	show	Alberto Ossola	O+	VID	M230	CH	GPS	18:53:23	18:54:29.85	18:54:40.01	18:56:00	0.04	0.04	10.16	54.9
3	show	Stefano Sposetti	O+	VID	M200	CH	GPS	18:51:53	18:54:29.459	18:54:39.919	18:57:23	0.020	0.020	10.46	56.5
4	show	Andrea Manna	O+	VID	M200	CH	GPS	18:50:08	18:54:30.05	18:54:38.85	18:59:23	0.04	0.04	8.80	47.5
5	show	Ivan Zivko, Davide Speziga, Luca Berti, +1	O+	VID	M200	CH	GPS	18:54:10	18:54:32.28	18:54:36.92	18:55:07	0.08	0.08	4.64	25.1
6	show	Stefano Sposetti	O+	VID	M420	CH	GPS	18:51:30	18:54:34.12	18:54:35.95	18:57:30	0.04	0.03	1.83	9.9

UT1/UT4: Begin/End of observation | UT2/UT3: Begin/End of occultation | Dur: Reported duration in seconds | Chrd: Corresponding chord length in km | [More](#)

6 observations found in db: sodis

Available (probably) matching predictions (click on the link to switch):

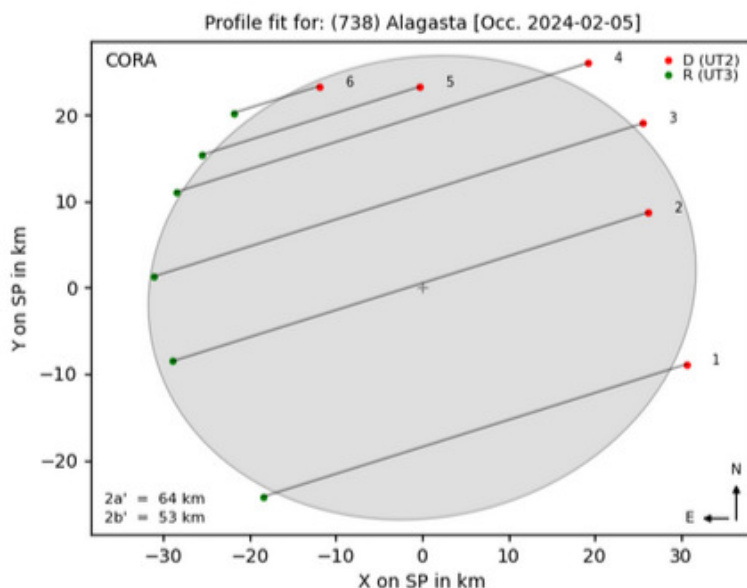
JPL#79 : [3a42e630-c344-11ef-5276-26fa57f239be](#) [db: observed]

JPL#75 : [bb138930-122e-11ef-67cb-3bbefb77ab3f](#) [db: asteroids]

Using prediction [3a42e630-c344-11ef-5276-26fa57f239be](#) for map and profile fit

[Get observations as KML file \(reduced site location resolution\)](#)

Ellipse and circular profile fits to the timings (chords)



Auto-Fit Result:

Size = 64 x 53 km
a', b' = 32.0, 26.6 km
X0, Y0 = -670.9, 29.7 km
Mean diameter = 58 km

From 6 chords (VID)

[Fit Ellipse](#) [Fit Circle](#)

Chords to ignore:

Fill: ☒ Grid: ☐

Show (close) miss chords: ☐

You can enter space separated chord numbers (example: 11 4 8) or a method like VIS to ignore all visual timings, or a time source like RAD and NTP (but not GPS).

If the plot disappears, then there are less than 2 chords left (too much ignored, go back with browser).

Check [SIMDA](#) for size and mass data.

Check [Johnston Archive](#) for satellites.

2024-03-19 / UCAC4 567-044771 / (131) Vala

#	OBS	Observer	Occ	Meth.	Instr.	CC	TSRC	UT1	UT2	UT3	UT4	UT2E	UT3E	Dur.	Chrd
1	show	Alberto Ossola	O+	VID	M230	CH	GPS	20:00:15	20:01:21.27	20:01:24.95	20:02:38	0.48	0.32	3.68	15.1
2	show	Stefano Sposetti	O+	VID	M200	CH	GPS	19:58:30	20:01:19.7	20:01:26.8	20:04:20	0.3	0.2	7.10	29.1
3	show	Stefano Sposetti	O+	VID	M420	CH	GPS	19:58:30	20:01:19.70	20:01:24.69	20:04:30	0.09	0.09	4.99	20.5

UT1/UT4: Begin/End of observation | UT2/UT3: Begin/End of occultation | Dur: Reported duration in seconds | Chrd: Corresponding chord length in km | [More](#)

3 observations found in db: sodis

Available (probably) matching predictions (click on the link to switch):

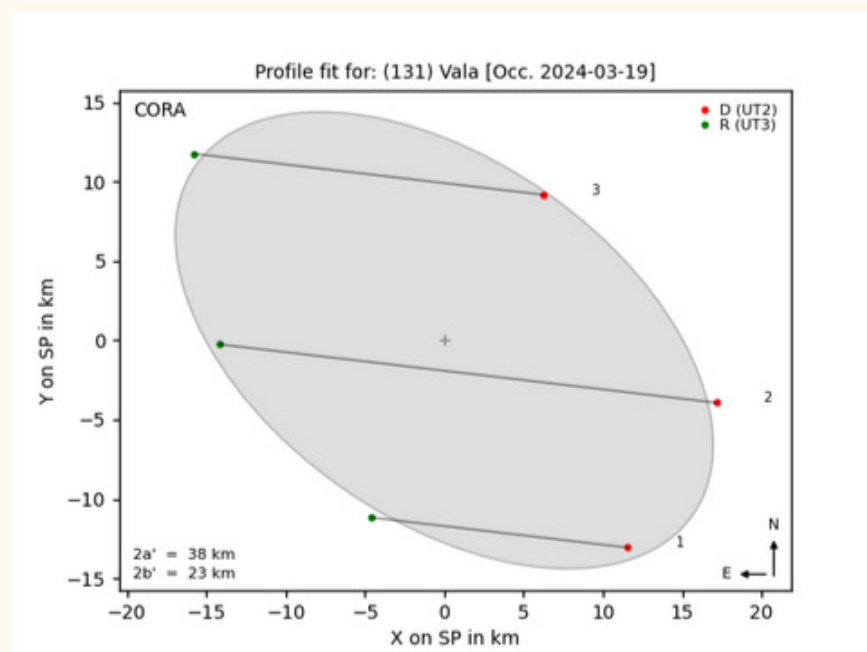
JPL#101 : [79613c30-c345-11ef-5276-43d7fff107a8](#) [db: observed]

JPL#97 : [7fd5c1a0-1191-11ef-67cb-ee62fdbf592b](#) [db: asteroids]

Using prediction [79613c30-c345-11ef-5276-43d7fff107a8](#) for map and profile fit

[Get observations as KML file \(reduced site location resolution\)](#)

Ellipse and circular profile fits to the timings (chords)



Auto-Fit Result:

Size = 38 x 23 km
a',b' = 19.1, 11.3 km
X0,Y0 = 341.1, 16.4 km
Mean diameter = 29 km

From 3 chords (VID)

[Fit Ellipse](#) [Fit Circle](#)

Chords to ignore:

Fill: ☒ Grid: ☐

Show (close) miss chords: ☐

You can enter space separated chord numbers (example: 11 4 8) or a method like VIS to ignore all visual timings, or a time source like RAD and NTP (but not GPS).

If the plot disappears, then there are less than 2 chords left (too much ignored, go back with browser).

Check [SiMDA](#) for size and mass data.

Check [Johnston Archive](#) for satellites.

2024-12-23 / UCAC4 540-029517 / (420) Bertholda

#	OBS	Observer	Occ	Meth.	Instr.	CC	TSRC	UT1	UT2	UT3	UT4	UT2E	UT3E	Dur.	Chrd
1	show	Alberto Ossola	O+	VID	M230	CH	GPS	21:17:14	21:18:06.42	21:18:16.2	21:19:04	0.16	0.3	9.78	135.9
2	show	Andrea Manna	O+	VID	M200	CH	GPS	21:16:04	21:18:05.6	21:18:15.1	21:21:24	0.3	0.4	9.50	132.1
3	show	Stefano Sposetti	O+	VID	M420	CH	GPS	21:17:14	21:18:05.226	21:18:14.168	21:19:13	0.228	0.228	8.94	124.3

UT1/UT4: Begin/End of observation | UT2/UT3: Begin/End of occultation | Dur: Reported duration in seconds | Chrd: Corresponding chord length in km | [More](#)

3 observations found in db: sodis

Available (probably) matching predictions (click on the link to switch):

JPL#137 : [9c18dc90-c35b-11ef-5276-bfe8a15c10c9](#) [db: observed]

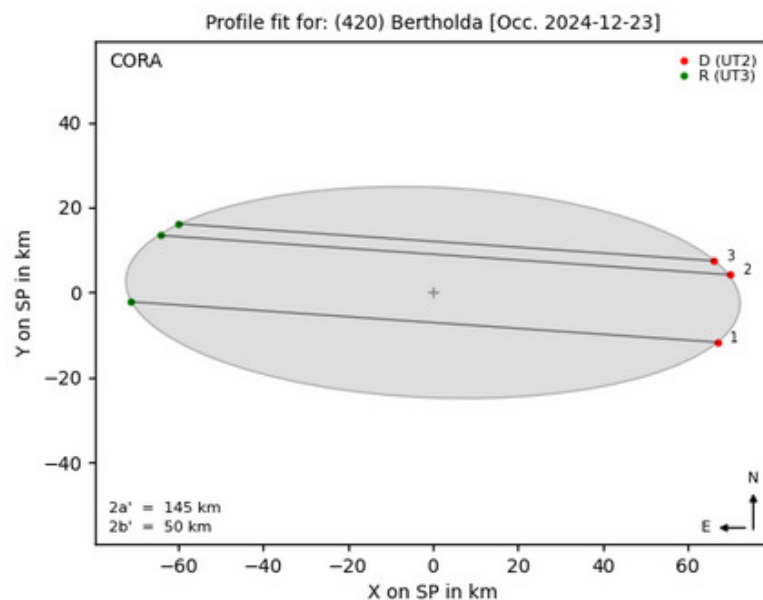
JPL#135 : [b03e87f0-85a9-11ef-78cd-fc947e6fabae](#) [db: asteroids]

JPL#135 : [34a512c0-8276-11ef-6618-5d543fcb470](#) [db: asteroids]

Using prediction [9c18dc90-c35b-11ef-5276-bfe8a15c10c9](#) for map and profile fit

[Get observations as KML file \(reduced site location resolution\)](#)

Ellipse and circular profile fits to the timings (chords)



Auto-Fit Result:

Size = 145 x 50 km
a', b' = 72.3, 24.8 km
X0, Y0 = 243.1, 43.9 km
Mean diameter = 85 km

From 3 chords (VID)

[Fit Ellipse](#) [Fit Circle](#)

Chords to ignore:

Fill: ☒ Grid: ☐

Show (close) miss chords: ☐

You can enter space separated chord numbers (example: 11 4 8) or a method like VIS to ignore all visual timings, or a time source like RAD and NTP (but not GPS).

If the plot disappears, then there are less than 2 chords left (too much ignored, go back with browser).

Check [SIMDA](#) for size and mass data.

Check [Johnston Archive](#) for satellites.

2024-12-31 / UCAC4 453-000016 / (137) Meliboea

#	OBS	Observer	Occ	Meth.	Instr.	CC	TSRC	UT1	UT2	UT3	UT4	UT2E	UT3E	Dur.	Chrd
1	show	Alberto Ossola	O+	VID	M230	CH	GPS	18:10:13	18:11:49.65	18:11:55.41	18:13:00	0.32	0.32	5.76	136.5
2	show	Andrea Manna	O+	VID	M200	CH	GPS	18:09:05	18:11:49.84	18:11:54.68	18:14:53	0.08	0.12	4.84	114.7
3	show	Stefano Sposetti	O+	VID	M420	CH	GPS	18:09:00	18:11:50.205	18:11:54.912	18:15:00	0.051	0.051	4.71	111.6

UT1/UT4: Begin/End of observation | UT2/UT3: Begin/End of occultation | Dur: Reported duration in seconds | Chrd: Corresponding chord length in km | [More](#)

3 observations found in db: sodis

Available (probably) matching predictions (click on the link to switch):

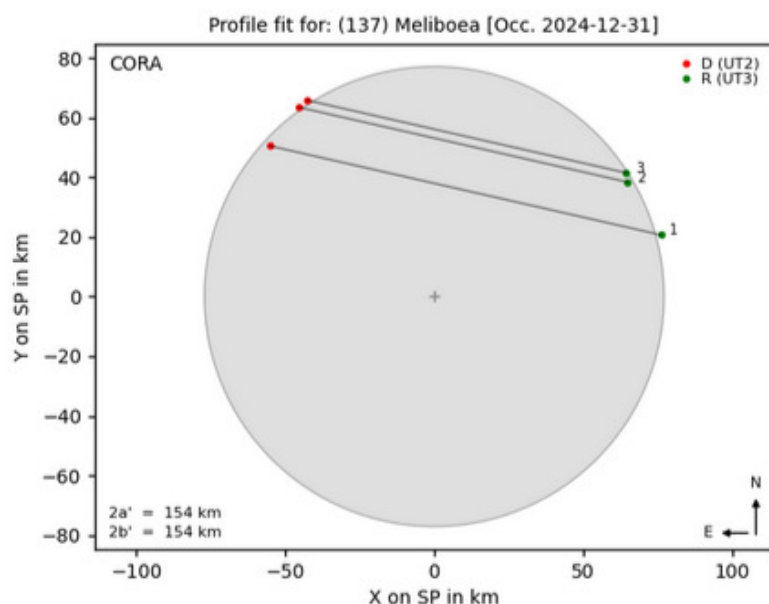
JPL#135 : [72363ba0-8541-11ef-78cd-e3e65dff5322](#) [db: asteroids]

JPL#135 : [81f86830-825b-11ef-6618-75a7ffda030](#) [db: asteroids]

Using prediction [72363ba0-8541-11ef-78cd-e3e65dff5322](#) for map and profile fit

[Get observations as KML file \(reduced site location resolution\)](#)

Ellipse and circular profile fits to the timings (chords)



Auto-Fit Result:

Ellipse profile fit was not successful. Trying circular fit.

Circular diameter = 154 km

From 3 chords (VID)

[Fit Ellipse](#) [Fit Circle](#)

Chords to ignore:

Fill: ☒ Grid: ☐

Show (close) miss chords: ☐

You can enter space separated chord numbers (example: 11 4 8) or a method like VIS to ignore all visual timings, or a time source like RAD and NTP (but not GPS).

If the plot disappears, then there are less than 2 chords left (too much ignored, go back with browser).

Check [SIMDA](#) for size and mass data.

Check [Johnston Archive](#) for satellites.