

Rapporto 2015 dell'attività pratica Corpi Minori, presentato il 23 aprile 2016 all'assemblea SAT a Mendrisio

Stefano Sposetti

1. Bilancio osservativo

ELENCO DELLE OCCULTAZIONI OSSERVATE nel 2015 DA MEMBRI del gruppo e pubblicate sul sito www.euraster.net

<u>OSSERVATORE/I</u>	<u>misure</u>	<u>corde</u>	<u>score</u>
Fausto Delucchi	1	1	100%
Carlo Gualdoni	17	6	35%
Andrea Manna	27	5	19%
A. & S. Manna	2	1	50%
Alberto Ossola	19	7	37%
Stefano Sposetti	60	8	13%
TOTALE	126	28	22%

28 corde in 9 eventi positivi

2015/03/09 | 51 | Nemausa
2015/03/12 | 216 | Kleopatra
2015/04/09 | 173 | Ino
2015/06/04 | 322 | Phaeo
2015/08/20 | 409 | Aspasia
2015/09/25 | 135 | Hertha
2015/10/31 | 1075 | Helina
2015/12/02 | 1114 | Lorraine
2015/12/29 | 63 | Ausonia

Nel dettaglio:

Fausto Delucchi (1 misura; 1 corda; 100%)
2015/03/12 | 216 | Kleopatra

Carlo Gualdoni (17 misure; 6 corde; 35%)
2015/01/03 | 2173 | Maresjev
2015/01/03 | 176 | Iduna
2015/01/05 | 702 | Alauda
2015/01/05 | 26572 | 2000 EP84
2015/02/18 | 66 | Maja
2015/02/22 | 515 | Athalia
2015/02/22 | 4973 | Showa
2015/03/12 | 216 | Kleopatra
2015/03/27 | 5254 | Ulysses
2015/04/06 | 930 | Westphalia
2015/04/09 | 173 | Ino
2015/04/14 | 1723 | Klemola
2015/06/04 | 322 | Phaeo
2015/08/19 | 688 | Melanie
2015/08/20 | 409 | Aspasia
2015/09/25 | 135 | Hertha
2015/10/31 | 1075 | Helina

Andrea Manna (27 misure; 5 corde; 19%)

2015/01/03 | 176 | Iduna
2015/01/05 | 702 | Alauda
2015/01/05 | 26572 | 2000 EP84
2015/01/07 | 1937 | Locarno
2015/01/23 | 545 | Messalina
2015/03/03 | 32484 | 2000 TV29
2015/03/09 | 51 | Nemausa
2015/03/12 | 216 | Kleopatra
2015/04/05 | 535 | Montague
2015/04/09 | 173 | Ino
2015/04/09 | 30016 | 2000 CA95
2015/04/09 | 1154 | Astronomia
2015/07/13 | 1285 | Julietta
2015/08/19 | 688 | Melanie
2015/08/20 | 1271 | Isergina
2015/08/20 | 409 | Aspasia
2015/09/07 | 2520 | Novorossijsk
2015/09/21 | 618 | Elfriede
2015/10/24 | 20059 | 1993 OY9
2015/11/02 | 6166 | Univsima
2015/11/03 | 3017 | Petrovic
2015/11/08 | 97713 | 2000 GS88
2015/11/08 | 79888 | 1999 AQ33
2015/11/13 | 285 | Regina
2015/12/05 | 14039 | 1995 KZ1
2015/12/13 | 373 | Melusina
2015/12/17 | 4709 | Ennomos
2015/12/29 | 63 | Ausonia

A. & S. Manna (2 misure; 1 corda; 50%)

2015/01/03 | 2173 | Maresjev
2015/12/02 | 1114 | Lorraine

Alberto Ossola (19 misure; 7 corde; 37%)

2015/01/03 | 176 | Iduna
2015/03/09 | 51 | Nemausa
2015/03/12 | 216 | Kleopatra
2015/04/09 | 173 | Ino
2015/04/13 | 6052 | Junichi
2015/04/21 | 10513 | 1989 TJ14
2015/06/04 | 322 | Phaeo
2015/08/19 | 688 | Melanie
2015/08/20 | 1271 | Isergina
2015/08/20 | 409 | Aspasia
2015/09/07 | 2520 | Novorossijsk
2015/11/08 | 27189 | 1999 CF51
2015/11/09 | 2302 | Florya
2015/11/13 | 285 | Regina
2015/11/24 | 1345 | Potomac
2015/12/02 | 1114 | Lorraine
2015/12/13 | 373 | Melusina
2015/12/17 | 4709 | Ennomos
2015/12/19 | 4722 | Agelaos
2015/12/29 | 63 | Ausonia

Stefano Sposetti (60 misure; 8 corde; 13%)

2015/01/01 | 753 | Tiflis
2015/01/01 | 5886 | Rutger
2015/01/02 | 800 | Kressmannia
2015/01/03 | 2173 | Maresjev
2015/01/03 | 1672 | Gezelle
2015/01/04 | 669 | Kypria
2015/01/04 | 5550 | 1981 UB1
2015/01/05 | 702 | Alauda
2015/01/05 | 26572 | 2000 EP84
2015/01/11 | 844 | Leontina
2015/01/14 | 456 | Abnoba
2015/01/14 | 20392 | Mikeshepard
2015/01/14 | 105694 | 2000 SV62
2015/01/23 | 545 | Messalina
2015/01/24 | 455 | Bruchsalia
2015/02/07 | 222 | Lucia
2015/02/11 | 29891 | 1999 GQ37
2015/02/11 | 3633 | Mira
2015/02/22 | 515 | Athalia
2015/03/09 | 51 | Nemausa
2015/03/12 | 216 | Kleopatra
2015/03/12 | 216 | Kleopatra
2015/03/27 | 5254 | Ulysses

2015/04/05 | 535 | Montague
 2015/04/06 | 930 | Westphalia
2015/04/09 | 173 | Ino
2015/04/09 | 173 | Ino
 2015/04/18 | 27789 | Astrakhan
 2015/08/19 | 688 | Melanie
 2015/08/20 | 1271 | Isergina
2015/08/20 | 409 | Aspasia
 2015/09/07 | 2520 | Novorossijsk
 2015/09/21 | 618 | Elfriede
 2015/09/21 | 654 | Zelinda
 2015/10/09 | 116 | Sirona
 2015/10/10 | 3339 | Treshnikov
 2015/10/20 | 1052 | Belgica
 2015/10/30 | 1743 | Schmidt
2015/10/31 | 1075 | Helina
 2015/11/08 | 27189 | 1999 CF51
 2015/11/08 | 97713 | 2000 GS88
 2015/11/08 | 79888 | 1999 AQ33
 2015/11/10 | 2892 | Filipenko
 2015/11/10 | 962 | Aslog
 2015/11/13 | 285 | Regina
 2015/11/13 | 285 | Regina
 2015/11/15 | 1029 | La Plata
 2015/11/26 | 3078 | Horrocks
 2015/11/26 | 2263 | Shaanxi
 2015/11/27 | 665 | Sabine
2015/12/02 | 1114 | Lorraine
 2015/12/10 | 3504 | Kholshchevnikov
 2015/12/10 | 1641 | Tana
 2015/12/13 | 1177 | Gonnessia
 2015/12/13 | 373 | Melusina
 2015/12/13 | 27 | Euterpe
 2015/12/17 | 4709 | Ennomos
 2015/12/19 | 4722 | Agelaos
 2015/12/19 | 1187 | Afra
 2015/12/19 | 720 | Bohlinia

2. Sei anni di occultazioni del gruppo Corpi Minori: un bilancio

Anno	Persone coinvolte	Eventi osservati	Eventi positivi	Corde
2010	4	49	5	6
2011	10	48	6	17
2012	9	62	6	8
2013	8	87	7	11
2014	8	123	11	21
2015	6	126	9	28
TOTALE	-	495	44	91

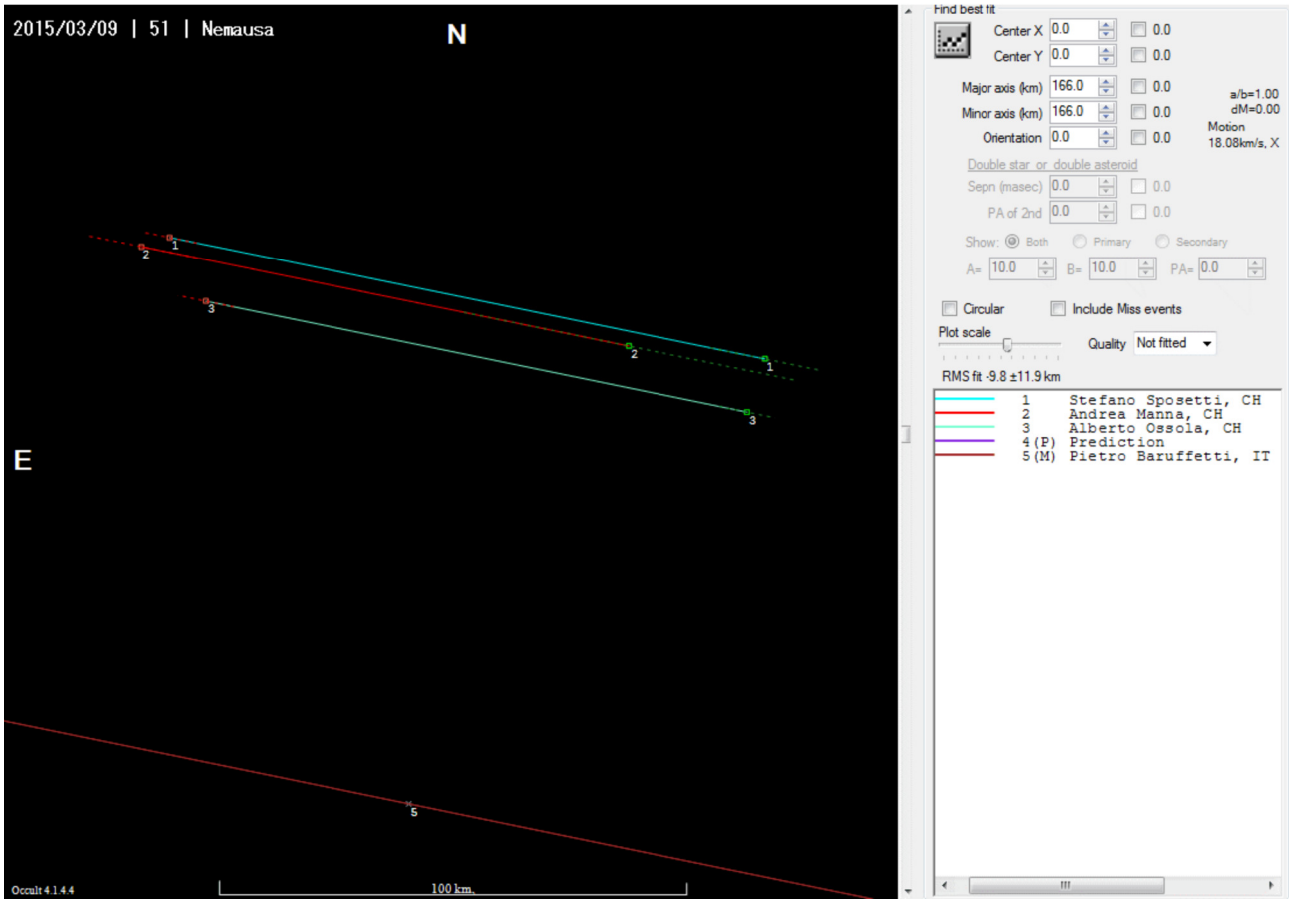
3. Giornate di studio

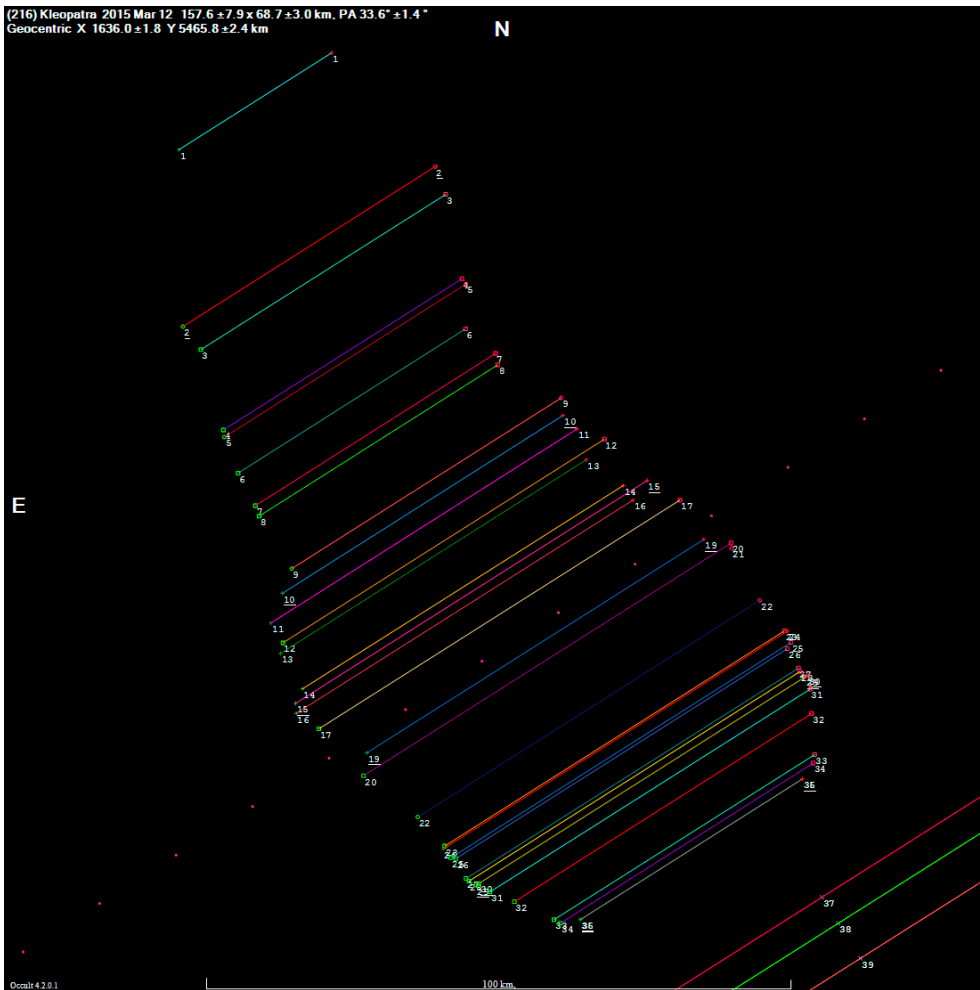
Erano 10 i presenti al pomeriggio di studio del 24 ottobre 2015 all'osservatorio Calina di Carona sull'"uso del software AOTA per la determinazione degli istanti durante le occultazioni asteroidali".

4. Prestito materiale sociale.

Dal 25 ottobre 2015 a Benedetto Gendotti.

Le corde pubblicate su Euraster.net ottenute da nostre misure.





Find best fit

Center X: -105.1 ✓ 0.0
 Center Y: 148.1 ✓ 0.0

Major axis (km): 157.6 ✓ 0.0 $a/b=2.29$
 Minor axis (km): 68.7 ✓ 0.0 $dM=-0.90$
 Orientation: 33.6 ✓ 0.0 Motion: 13.10 km/s, X

Double star or double asteroid
 Sepn (msec): 0.0 0.0
 PA of 2nd: 0.0 0.0

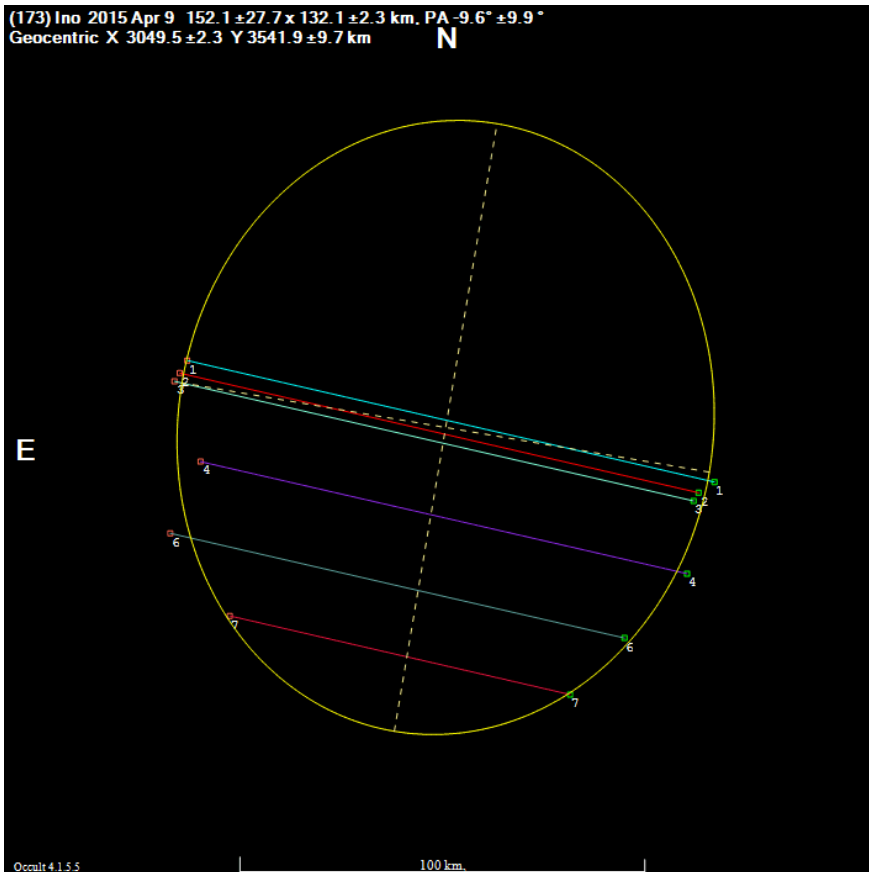
Show: Both Primary Secondary
 A= 10.0 B= 10.0 PA= 0.0

Circular Include Miss events

Plot scale: Quality: Good

RMS fit: -0.3 ± 7.7 km

1	Henk Bulder, NL
2	Friedhelm Dost, DE
3	Oliver Kloes, DE
4	Jan-Maarten Winkel, NL
5	Otto Pasago, DE
6	Vassilis Metallinos, GR
7	Harrie Rutten, NL
8	Henk De Groot, NL
9	Bernd Gashöken, DE
10	Hans Kostense, NL
11	D Fischer/HG Furucker/R St
12	Eberhard Bredner, FR
13	Andre Mueller, DE
14	Lex Blommers, NL
15	K Moddemeljer/F Bastiaanse
16	Christof Sauter, CH
17	Maxime Devoelée, BE
18 (P)	Prediction
19	Mike Kohl, CH
20	Jose De Queiroz, CH
21	Karl-Ludwig Bath, DE
22	Fernand Emering, LU
23	F. Van Den Abbeel, BE
24	Rene Bourtembourg, BE
25	Jonas Schenker, CH
26	J Lecacheux/E Meza, FR
27	Stefano Sposetti, CH
28	Roberto Di Luca, IT
29	I. Pauwels/P. De Cat, BE
30	C Demaurel/D Mattar, FR
31	Stefano Sposetti, CH
32	Andrea Manna, CH
33	Alberto Ossola, CH
34	Carlo Gualdoni, IT
35	Roland Boninsegna, BE
36	Roland Decellier, BE
37 (M)	Fabrizio Chabatari, IT
38 (M)	Mauro Bachini, IT
39 (M)	Giancarlo Bonatti, IT
40 (M)	Alex Frappa, FR
41 (M)	Gilles Sautot, FR
46 (M)	G Sautot/E Vauthrin, FR
47 (M)	Olivier Dechambre, FR
48 (M)	Jarome Berthier, FR
49 (M)	Frederic Vachier, FR
50 (M)	B. Carry/M. Paquelo, FR
51 (M)	Juan Rovira, ES



Find best fit

Center X: 0.8 ✓ 0.0
 Center Y: 114.1 ✓ 0.0

Major axis (km): 152.1 ✓ 0.1 $a/b=1.15$
 Minor axis (km): 132.1 ✓ 0.0 $dM=-0.15$
 Orientation: -9.6 ✓ 0.0 Motion: 25.03 km/s, X

Double star or double asteroid
 Sepn (msec): 0.0 0.0
 PA of 2nd: 0.0 0.0

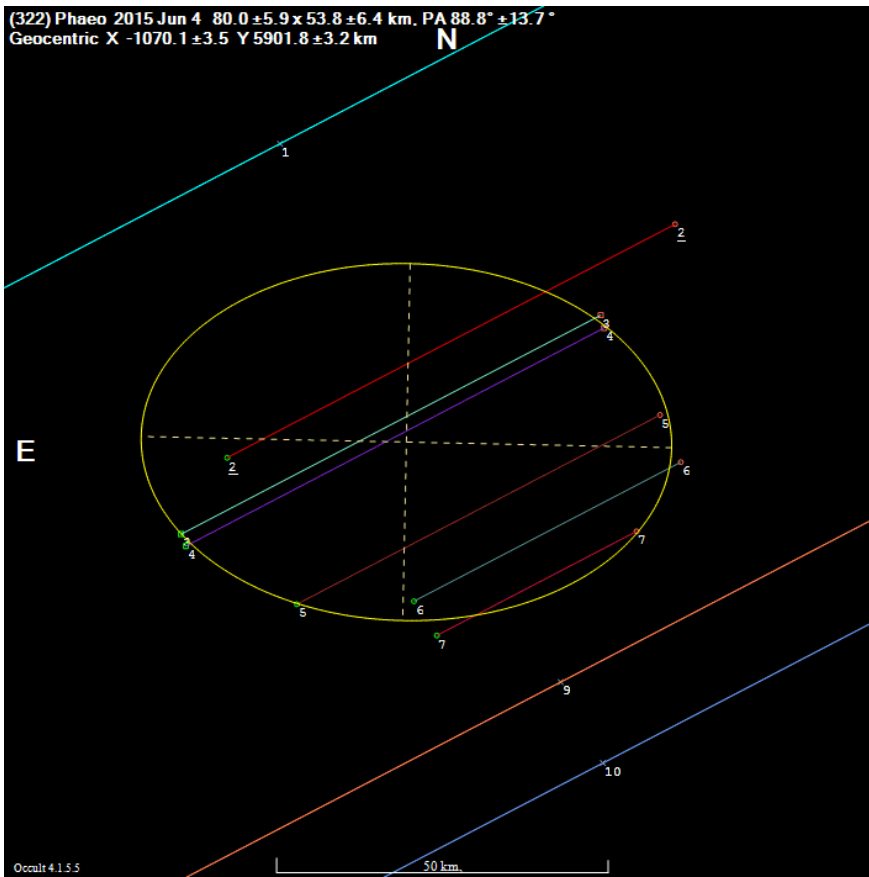
Show: Both Primary Secondary
 A= 10.0 B= 10.0 PA= 0.0

Circular Include Miss events

Plot scale: Quality: Not fitted

RMS fit: 0.0 ± 2.5 km

1	Stefano Sposetti, CH
2	Stefano Sposetti, CH
3	Andrea Manna, CH
4	Alberto Ossola, CH
5 (P)	Prediction
6	Carlo Gualdoni, IT
7	Eric Frappa, FR
8 (M)	E. Frappa/A. Klotz, FR



Find best fit

Center X 0.0
 Center Y 0.0

Major axis (km) 0.0
 Minor axis (km) 0.0
 Orientation 0.0

a/b=1.49
dM=-0.43
Motion 11.15km/s, X

Double star or double asteroid
 Sepn (masec) 0.0
 PA of 2nd 0.0

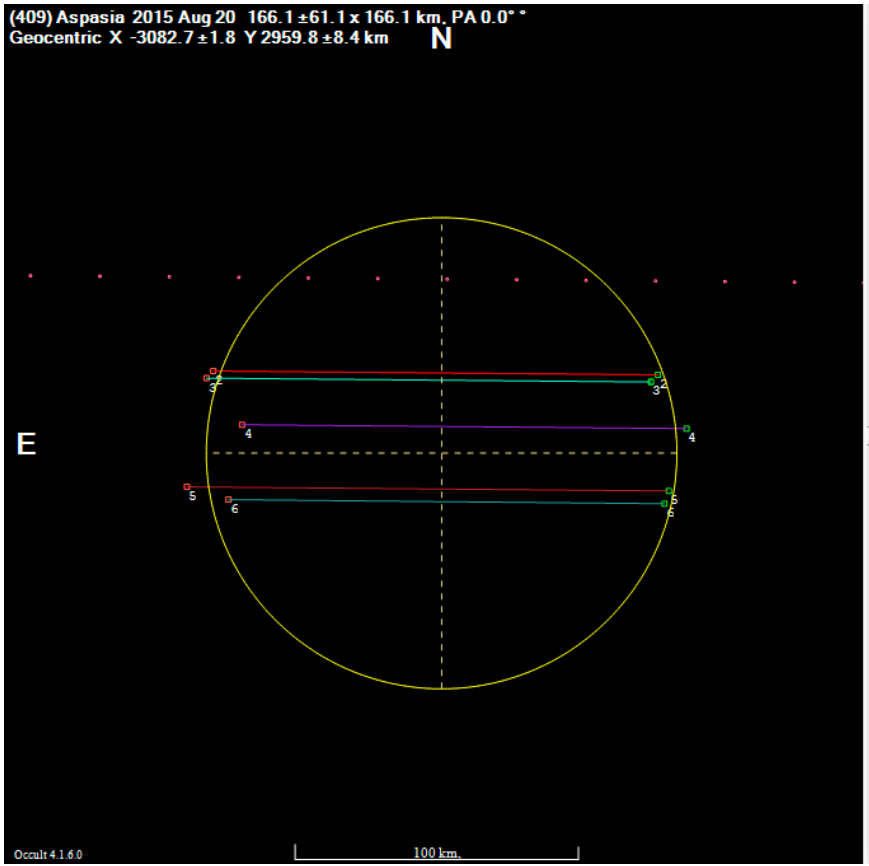
Show: Both Primary Secondary
 A= B= PA=

Circular Include Miss events

Plot scale Quality Not fitted

RMS fit 0.0 ± 1.4 km

- 1 (M) F. Van Den Abbeel, BE
- 2 Roberto Nesci, IT
- 3 Alberto Ossola, CH
- 4 Carlo Gualdoni, IT
- 5 Alfonso Noschese, IT
- 6 Antonio Vecchione, IT
- 7 Fabrizio Ciabattari, IT
- 8 (P) Prediction
- 9 (M) Pietro Baruffetti, IT
- 10 (M) Simone Bolzoni, IT



Find best fit

Center X 0.0
 Center Y 2.6

Major axis (km) -32.8
 Minor axis (km) 0.0
 Orientation 0.0

a/b=1.00
dM=0.00
Motion 24.52km/s, X

Double star
 Sepn (masec) 0.0
 PA of 2nd 0.0

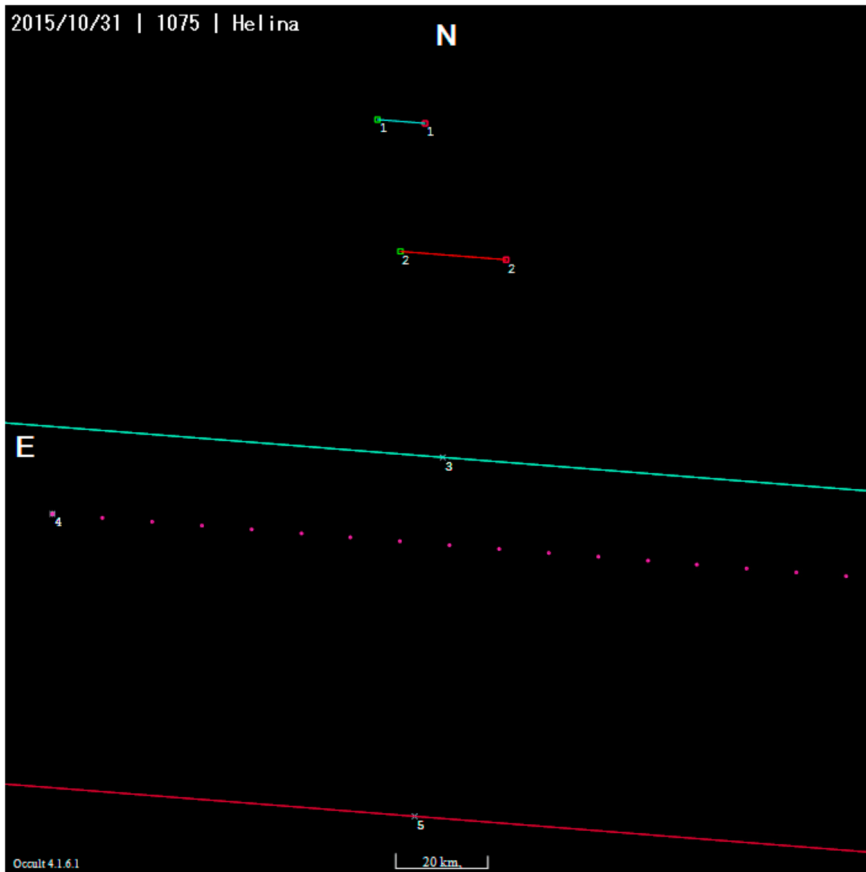
Show: Both Primary Secondary
 A= B= PA=

Circular Include Miss events

Plot scale Quality Not fitted

RMS fit -1.1 ± 5.5 km

- 1 (P) Prediction
- 2 Stefano Sposetti, CH
- 3 Andrea Manna, CH
- 4 Alberto Ossola, CH
- 5 Carlo Gualdoni, IT
- 6 G Vaudeschal/JP Dupre, FR



Find best fit

Center X: 0.0 -30.0
 Center Y: 0.0 43.4

Major axis (km): 37.0 0.0
 Minor axis (km): 37.0 0.0
 Orientation: 0.0 0.0

Double star or double asteroid
 Sepn (masec): 0.0 0.0
 PA of 2nd: 0.0 0.0

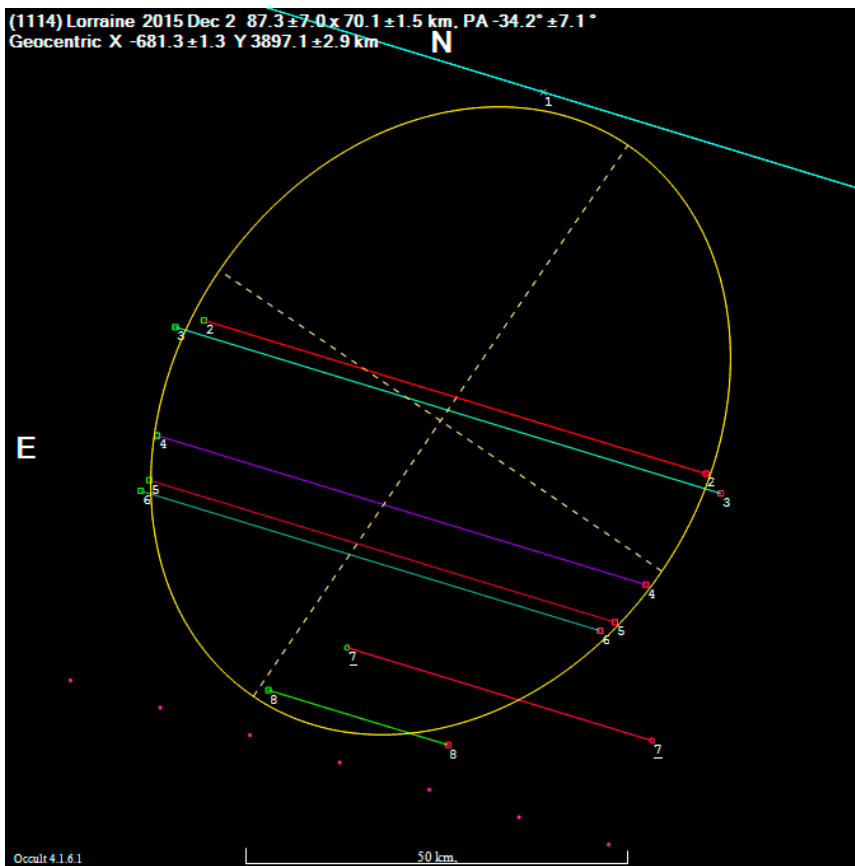
Show: Both Primary Secondary
 A= 10.0 B= 10.0 PA= 0.0

Circular Include Miss events

Plot scale: _____ Quality: Not fitted

RMS fit 43.3 ± 14.2 km

1	Stefano Sposetti, CH
2	Carlo Gualdoni, IT
3 (M)	Guy Brabant, FR
4 (P)	Prediction
5 (M)	Pietro Baruffetti, IT



Find best fit

Center X: 1.3 0.0
 Center Y: -0.3 0.0

Major axis (km): 87.3 0.0
 Minor axis (km): 70.1 0.0
 Orientation: -34.2 0.0

Double star or double asteroid
 Sepn (masec): 0.0 0.0
 PA of 2nd: 0.0 0.0

Show: Both Primary Secondary
 A= 10.0 B= 10.0 PA= 0.0

Circular Include Miss events

Plot scale: _____ Quality: Not fitted

RMS fit 0.1 ± 1.3 km

1 (M)	Jose De Queiroz, CH
2	Stefano Sposetti, CH
3	Andrea Manna, CH
4	Alberto Ossola, CH
5	Gerard Vaudeschal, FR
6	J.J. Castellani, FR
7	Michel Bonnardeau, FR
8	P Andre/ML Faye/JC Lachur
9 (P)	Prediction

