

# Occult Watcher Add-ins

Occult Watcher, ver. 3.9.0.1 - Home (UTC +01:00 DST)

Synchronise now Configuration Add-ins Help

Asteroid Name	Event Date, loc.time	Magn.	Shadow Width	Rank	Travel Dist.	Last Updated
<b>My Events</b>						
(568) Cheruskia	Tue 27 Jun, 23:45	14.0	121 km	83	7 km @27°	02 Jun, 13:51
2497 D	Thu 06 Jul, 23:59	6.5	-	100	-	23 Jun, 00:58
(19306) Voves	Thu 27 Jul, 00:37	13.3	31 km	15	27 km @333°	27 Jun, 17:21
(10773) Jamespaton	Fri 04 Aug, 22:17	13.1	14 km	7	143 km @319°	27 Jun, 17:21
(5140) Kida	Mon 07 Aug, 23:20	10.7	26 km	14	144 km @306°	29 Jul, 12:16
(654) Zelinda	Fri 11 Aug, 23:13	12.3	311 km	99	66 km @194°	28 Jul, 11:27
(5140) Kida	Tue 15 Aug, 22:40	13.5	23 km	7	93 km @296°	29 Jul, 12:24
(36772) 2000 RF99	Fri 18 Aug, 22:34	12.5	20 km	15	13 km @163°	28 Jul, 11:28
(1258) Sicilia	Sun 20 Aug, 00:29	13.1	121 km	54	204 km @160°	28 Jul, 11:28
3122	Thu 31 Aug, 22:00	8.7	-	100	-	03 Jul, 01:00
(6925) Susumu	Sun 10 Sep, 00:44	5.1	26 km	20	31 km @163°	17 Jul, 01:15
<b>All Events</b>						
(49849) 1999 XK94	Tue 20 Jun, 00:00	13.5	14 km	7	143 km @319°	27 Jun, 17:21
(2708) Burns	Wed 21 Jun, 00:00	13.5	14 km	7	143 km @319°	27 Jun, 17:21
(14995) Archytas	Wed 21 Jun, 00:00	13.5	14 km	7	143 km @319°	27 Jun, 17:21
C2015 X7 ATLAS*	Wed 21 Jun, 00:00	13.5	14 km	7	143 km @319°	27 Jun, 17:21
(50982) 2000 GO93	Thu 22 Jun, 00:00	13.5	14 km	7	143 km @319°	27 Jun, 17:21
(4955) Gold	Thu 22 Jun, 00:00	13.5	14 km	7	143 km @319°	27 Jun, 17:21
(28884) 2000 KA54	Thu 22 Jun, 00:00	13.5	14 km	7	143 km @319°	27 Jun, 17:21

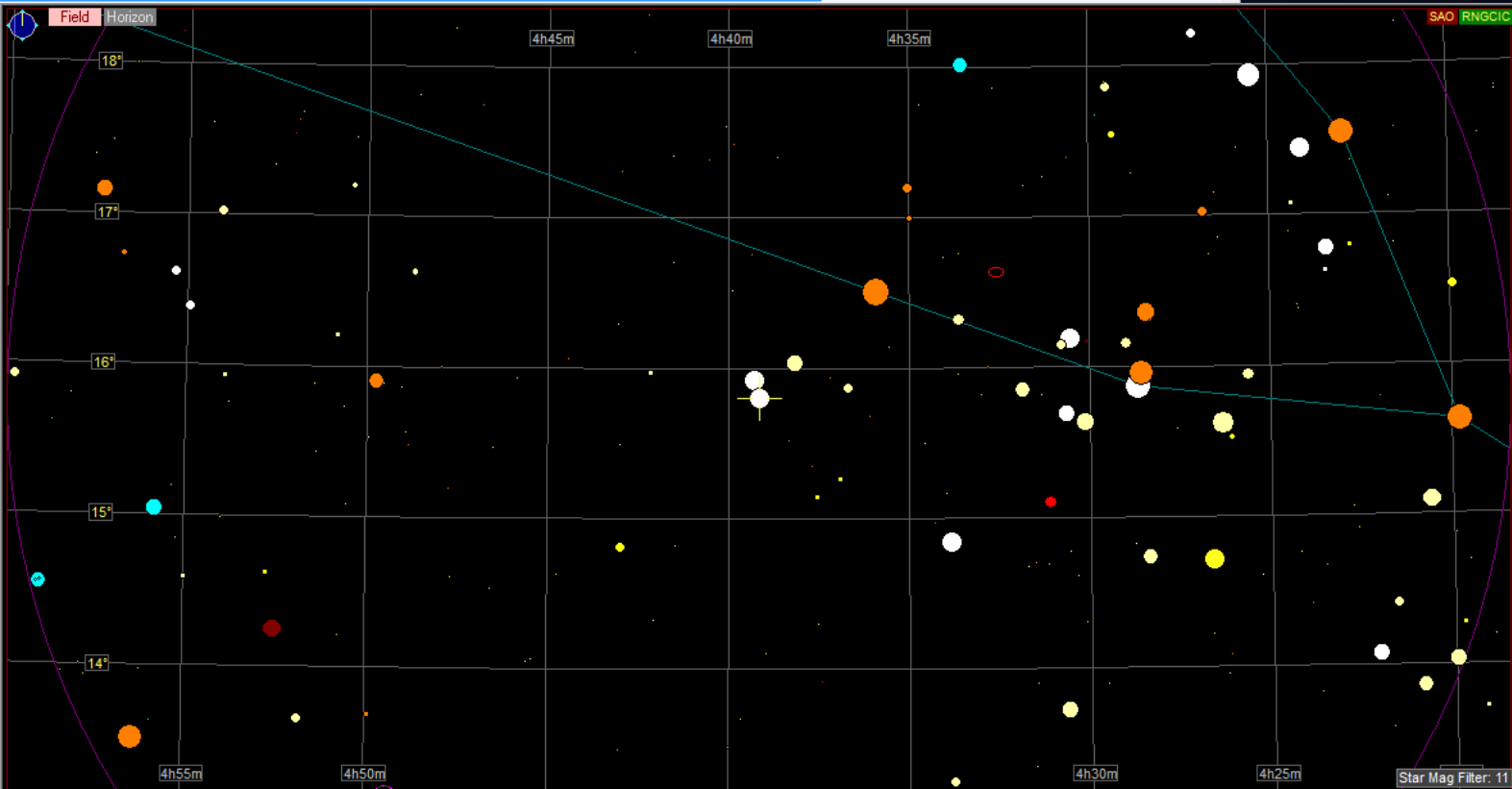
**(6925) Susumu occults HIP 21673**

Position: In the 1-sigma zone, 18 km outside the shadow

There is currently 1 announced station for this event.  
1 of them is yours.

[Show online map with stations](#) [View](#)

Last updated on 8/18/2017 12:29:55 PM



Alex Pratt (IOTA-ES, BAA)

# Occult Watcher Add-ins

Occult Watcher, ver. 3.9.0.1 - Home (UTC +01:00 DST)

Synchronise now Configuration Add-ins Help

Create C2A Occultation Map  
 Configure Add-ins  
 Find Add-ins

Asteroid Name	Event	Shadow Width	Rank	Travel Dist.	Last Updated
My Events					
2497 D	T				
(19306) Voves	T				23 Jun, 00:58
(10773) Jamespaton	Fri 04 Aug, 22:17	13.1			27 Jun, 17:21
(5140) Kida	Mon 07 Aug, 23:20	10.7	26 km	14	29 Jul, 12:16
(654) Zelinda	Fri 11 Aug, 23:13	12.3	311 km	99	28 Jul, 11:27
(5140) Kida	Tue 15 Aug, 22:40	13.5	23 km	7	29 Jul, 12:24
(36772) 2000 RF99	Fri 18 Aug, 22:34	12.5	20 km	15	28 Jul, 11:28
(1258) Sicilia	Sun 20 Aug, 00:29	13.1	121 km	54	28 Jul, 11:28
3122	Thu 31 Aug, 22:00	8.7	-	100	02 Aug, 01:00 *
(111069) 2001 VS48	Sat 02 Sep, 22:44	10.6	7 km	6	27 Aug, 20:29 *
(626) Notburga	Sat 09 Sep, 01:21	11.9	133 km	100	17 Jul, 01:15
(6925) Susumu	Sun 10 Sep, 00:44	5.1	26 km	20	17 Jul, 01:15
(207) Hedda	Tue 12 Sep, 22:25	10.7	107 km	100	17 Jul, 01:16
2012 TC4	Thu 12 Oct, 00:00	14.0	-	100	05 Aug, 01:00
All Events					
(17355) 1978 NK	Sun 02 Jul, 23:32	13.2	20 km	6	27 Jun, 17:19 *
(47713) 2000 DM23	Mon 03 Jul, 01:09	11.9	23 km	3	27 Jun, 17:19 *
(239973) 2001 QV226	Mon 03 Jul, 02:05	12.7	6 km	3	27 Jun, 17:19 *
(1546) Izsak	Mon 03 Jul, 22:25	12.5	70 km	28	27 Jun, 17:19 *
(1123) Shapleya	Mon 03 Jul, 23:00	13.9	79 km	25	01 Jul, 09:15 *
(15257) 1990 RQ8	Mon 03 Jul, 23:46	13.8	34 km	6	27 Jun, 17:19 *

**C2A – Planetarium software**  
**Lunar occultations of double stars**  
**Report form tool**

[IOTA Updates]

you |  center |  shadow |  1-sigma |  2 & 3-sigma limits

**(6925) Susumu occults HIP 21673**

Event time: 00:44:01    Combined magnitude: 5.1 m    Constellation: Taurus  
 Position: In the 1-sigma zone, 18 km outside the shadow path    Error in time: 9 sec    Star magnitude: 5.1 m    Star altitude: 14° @82°    Moon altitude: 29° @117°  
 Max duration: 1.8 sec    Magnitude drop: 12.7 m    Sun altitude: -31°    Moon distance: 36°

[Show online map with stations](#) | [View details on the web](#) | [Save 'Google Earth' kml file](#) | [View station sorts](#)

Last updated on 8/31/2017 9:58:51 AM

# Occult Watcher

Occult Watcher, ver. 3.9.0.1 - Home (UTC +01:00 DST)

Synchronise now Configuration Add-ins Help

Asteroid Name	Event Date, loc.time	Magn.	Shadow Width	Rank	Travel Dist.	Last Updated
<b>My Events</b>						
<input type="checkbox"/> (568) Cheruskia	Tue 27 Jun, 23:45	14.0	121 km	83	7 km @27°	02 Jun, 13:51
<input type="checkbox"/> 2497 D	Thu 06 Jul, 23:59	6.5	-	100	-	23 Jun, 00:58
<input type="checkbox"/> (19306) Voves	Thu 27 Jul, 00:37	13.3	31 km	15	27 km @333°	27 Jun, 17:21
<input type="checkbox"/> (10773) Jamespaton	Fri 04 Aug, 22:17	13.1	14 km	7	143 km @319°	27 Jun, 17:21
<input type="checkbox"/> (5140) Kida	Mon 07 Aug, 23:20	10.7	26 km	14	144 km @306°	29 Jul, 12:16
<input type="checkbox"/> (654) Zelinda	Fri 11 Aug, 23:13	12.3	311 km	99	66 km @194°	28 Jul, 11:27
<input type="checkbox"/> (5140) Kida	Tue 15 Aug, 22:40	13.5	23 km	7	93 km @296°	29 Jul, 12:24
<input type="checkbox"/> (36772) 2000 RF99	Fri 18 Aug, 22:34	12.5	20 km	15	13 km @163°	28 Jul, 11:28
<input type="checkbox"/> (1258) Sicilia	Sun 20 Aug, 00:29	13.1	121 km	54	204 km @160°	28 Jul, 11:28
<input type="checkbox"/> 3122	Thu 31 Aug, 22:00	8.7	-	100	-	03 Jul, 01:00
<input checked="" type="checkbox"/> (6925) Susumu	Sun 10 Sep, 00:44	5.1	26 km	20	31 km @163°	17 Jul, 01:15
<input type="checkbox"/> (207) Hedda	Tue 12 Sep, 22:25	10.7	107 km	100	116 km @157°	17 Jul, 01:16
<input type="checkbox"/> 2012 TC4	Thu 12 Oct, 00:00	14.0	-	100	-	05 Aug, 01:00
<b>All Events</b>						
<input type="checkbox"/> (49849) 1999 XK94	Tue 20 Jun, 01:40	12.1	15 km	7	153 km @101°	10 Jun, 17:22
<input type="checkbox"/> (2708) Burns	Wed 21 Jun, 23:33	12.9	71 km	24	129 km @20°	26 May, 11:49
<input type="checkbox"/> (14995) Archytas	Wed 21 Jun, 23:35	13.2	43 km	15	119 km @27°	26 May, 11:49
<input type="checkbox"/> C2015 X7 ATLAS*	Wed 21 Jun, 23:39	10.4	34 km	0	2865 km @77°	14 Jun, 17:24
<input type="checkbox"/> (50982) 2000 GO93	Thu 22 Jun, 01:08	13.9	11 km	10	168 km @140°	10 Jun, 17:23
<input type="checkbox"/> (4955) Gold	Thu 22 Jun, 01:38	14.0	51 km	19	191 km @138°	10 Jun, 17:24
<input type="checkbox"/> (28884) 2000 KA54	Thu 22 Jun, 03:22	12.8	14 km	8	168 km @176°	26 May, 11:49
<input type="checkbox"/> (20524) 2001 QG07	Thu 22 Jun, 23:53	13.0	22 km	6	120 km @223°	26 May, 11:49

L [IOTA Updates]

you center shadow 1-sigma 2 & 3-sigma limits

**(6925) Susumu occults HIP 21673**

Event time: 00:44:01    Combined magnitude: 5.1 m    Constellation: Taurus

Error in time: 9 sec    Star magnitude: 5.1 m

Position: In the 1-sigma zone, 18 km outside the shadow path    Star altitude: 14° @82°    Moon altitude: 29° @117°

There is currently 1 announced station for this event.    Max duration: 1.8 sec    Magnitude drop: 12.7 m    Sun altitude: -31°    Moon distance: 36°

1 of them is yours.

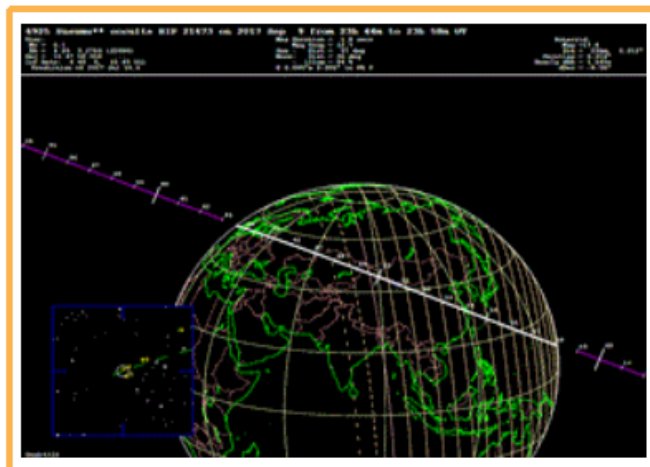
[Show online map with stations](#)    [View details on the web](#)    [Save 'Google Earth' kml file](#)    [View station sorts](#)

Last updated on 8/18/2017 12:29:55 PM

View details on the web

# Occult Watcher

<u>Event Date/Time</u>	<u>Rank</u>	<u>Asteroid</u>	<u>Star</u>	<u>Visibility</u>	<u>dM D A</u>	<u>Comments</u>
09 Sep 2017 , 23:51 UT	28	(6925) Susumu mag 17.8	HIP 21673 mag 5.1	Russia, Europe	12.70m 1.8s 61°	possible double star



Detailed Maps: [Russia/Europe](#)

(click on map above for enlarged view)

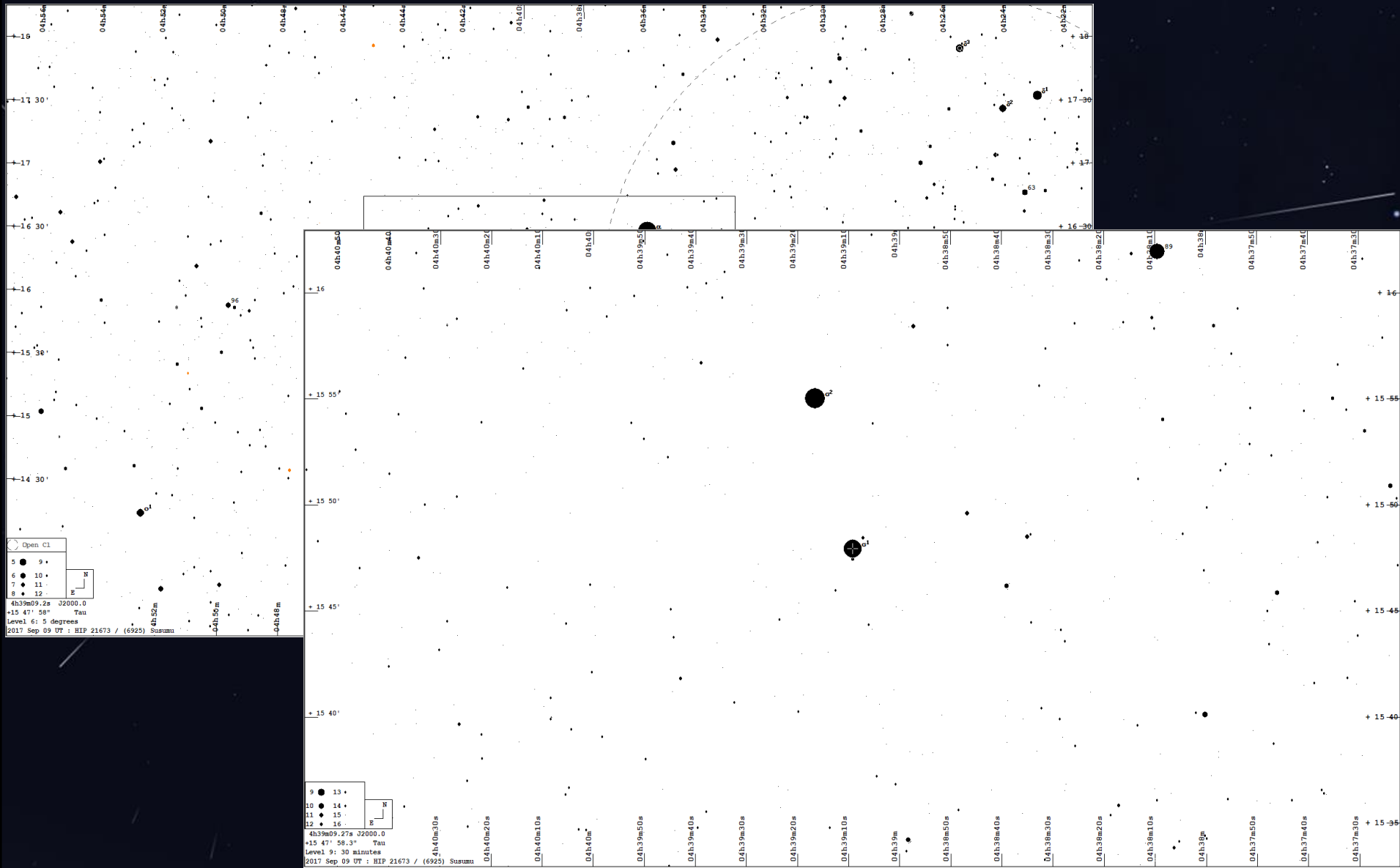
[Detailed Info](#) (updated 2017 Jul 16, 22:32 UT)

Finder Charts (courtesy of [Guide](#)): [Wide Field](#) , [15 degree view](#) , [5 degree view](#) , [2 degree view](#) , [30' view](#)

Questions? contact [Steve Preston](#)

**View details on the web**








# Occult Watcher



[View details on the web – Star charts](#)

# Occult Watcher C2A Add-in

<input checked="" type="checkbox"/>	(36772) 2000 RF99	Fri 18 Aug, 22:34	12.5	20 km
<input checked="" type="checkbox"/>	(1258) Sicilia	Sun 20 Aug, 00:29	13.1	121 km
<input type="checkbox"/>	3122	Thu 31 Aug, 22:00	8.7	-
<input checked="" type="checkbox"/>	(6925) Susumu	Sun 10 Sep		26 km
<input type="checkbox"/>	(207) Hedda	Tue 12 Sep		107 km
<input type="checkbox"/>	2012 TC4	Thu 12 Oct		-
<b>All Events</b>				
<input checked="" type="checkbox"/>	(49849) 1999 XK94	Tue 20 Jun		15 km
<input checked="" type="checkbox"/>	(2708) Burns	Wed 21 Jun		71 km
<input checked="" type="checkbox"/>	(14995) Archytas	Wed 21 Jun		43 km
<input checked="" type="checkbox"/>	C2015 X7 ATLAS*	Wed 21 Jun		34 km
<input type="checkbox"/>	(50982) 2000 GO93	Thu 22 Jun		11 km
<input checked="" type="checkbox"/>	(4955) Gold	Thu 22 Jun, 01:38	14.0	51 km
<input type="checkbox"/>	(28884) 2000 KA54	Thu 22 Jun, 03:22	12.8	14 km

-  Create C2A Occultation Map
-  Report Observation
- 
-  Additional Event Details
-  Export All Events to Excel
-  View Target Star in 'Google Sky'
-  Announce More Stations
-  Cancel All Stations

**Create C2A Occultation Map**

# Occult Watcher C2A Add-in

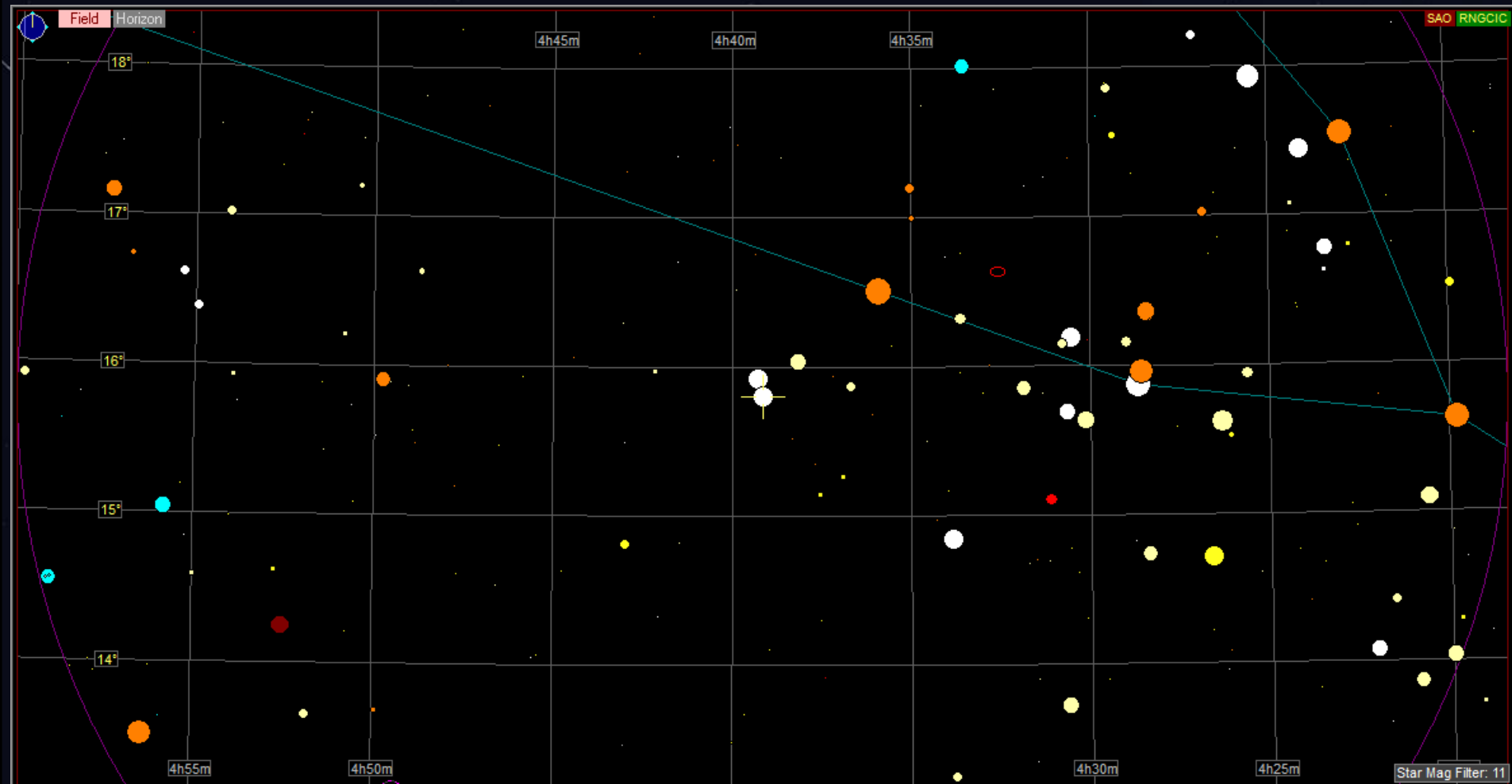
The screenshot displays the C2A software interface, which is used for planning occultations. The main window shows a star chart with a grid of Right Ascension (RA) and Declination (DE) lines. The chart includes several labeled stars and constellations, such as Patania, Bambowska, Massana, Isis, Doris, and Nysa. A large red circle indicates the path of an occultation. The interface includes a menu bar (File, Edit, View, Tools, Images, Telescope, Help), a toolbar with various icons, and a status bar at the bottom.

Key interface elements include:

- Menu Bar:** File, Edit, View, Tools, Images, Telescope, Help
- Toolbar:** Navigation and tool icons for zooming, panning, and other functions.
- Coordinate Fields:** RA: 120° 90' 60' 30' 10' 5' 2' 1' 30' 10' 5' 1', DE: M1 M2 M3
- Quick Search:** A search bar with a question mark icon.
- Data Fields:** RA: 04 39 09, DE: +15 47 58, Field: 60 00 00, JD: 2458006.48889, ST: 22:54:25
- Filters:** Star Mag Filter: 6, Deep Sky Mag Filter: 15
- Other Information:** A section for additional data and notes.

C2A Occultation Star Chart – 60 degree field

# Occult Watcher C2A Add-in



**C2A Occultation Star Chart – 10 degree field**



# Occult Watcher C2A Add-in

C2A

File Edit View Tools Images Telescope Help

Quick Search

Field Horizon

Star

Catalogue

UCAC4

Designation in catalogue

529-009019

RA (J2000) 04h 39m 09.27s DE (J2000) +15° 47' 58.35"

Azimuth +83° 31' 24" Altitude +14° 55' 36"

Hour Angle -05h 44m 45s Magnitude 6.944 S.T.

Rise (UT) 21h50m Transit (UT) 05h28m Set (UT) 13h02m

RA Epoch 1991.25 DE Epoch 1991.25

B, V, g, r and i Mags. J, H, Ks Mags

5.256 / 5.101 / - 4.823 / 4.856 / 4

JHKs cc\_flg/ph\_flg JHKs phot.Err.

0, 0, 0 / 4, 4, 5 0.02 / 0.04 / 0.02

Object Type

6 - poor astrometric result

Lumin.	Mag. Error	DST	DSF
0.6		6	0

Fit M.	Aper.	Surf.B.	RA Err.	DE Err.
6.944	7.684		2	2

RA pm	DE pm	Er RA pm	Er DE pm
41.9	-66.9	1	1

Other Information

RA (eq. date): 04h 40m 09.36s  
 DE (eq. date): +15° 50' 00.12"

Double Star Flag: single star  
 Double Star Type: Brighter secondary picked

Total # of CCD images: 4

Ready RA: 04 39 09 DE: +15 47 58 Field: 01 00 00 09/09/2017 23:44:00 JD: 2458006.48889 ST: 22:54:26

Star Mag Filter: 16

C2A Occultation Star Chart – 1 degree field

# Occult Watcher C2A Add-in

Occult Watcher, ver. 3.9.0.1 - Home (UTC +01:00 DST)

Synchronise now Configuration Add-ins Help

**My Events**

Asteroid Name	Date	Time	Mag	Shadow Width	Rank	Travel
2497 D						
(19306) Voves						
(10773) Jamespaton	Fri 04 Aug	22:17	13.1			
(5140) Kida	Mon 07 Aug	23:20	10.7	26 km	14	
(654) Zelinda	Fri 11 Aug	23:13	12.3	311 km	99	
(5140) Kida	Tue 15 Aug	22:40	13.5	23 km	7	
(36772) 2000 RF99	Fri 18 Aug	22:34	12.5	20 km	15	
(1258) Sicilia	Sun 20 Aug	00:29	13.1	121 km	54	
3122	Thu 31 Aug	22:00	8.7	-	100	
(111069) 2001 VS48	Sat 02 Sep	22:44	10.6	7 km	6	
(626) Notburga	Sat 09 Sep	01:21	11.9	133 km	100	
(6925) Susumu	Sun 10 Sep	00:44	5.1	26 km	20	
(207) Hedda	Tue 12 Sep	22:25	10.7	107 km	100	
2012 TC4	Thu 12 Oct	00:00	14.0	-	100	

**All Events**

(17355) 1978 NK	Sun 02 Jul	23:32	13.2	20 km	6	
(47713) 2000 DM23	Mon 03 Jul	01:09	11.9	23 km	5	
(239973) 2001 QV226	Mon 03 Jul	02:05	12.7	6 km	2	
(1546) Izsak	Mon 03 Jul	22:25	12.5	70 km	28	
(1123) Shapleya	Mon 03 Jul	23:00	13.9	79 km	20	
(15257) 1990 RQ8	Mon 03 Jul	23:46	13.8	34 km	6	

**[IOTA Updates]**

you center shadow 1-sigma 2 & 3-sigma limits

**(6925) Susumu occults HIP 21673**

Event time: 00:44:01 Combined magnitude: 5.1 m  
Error in time: 9 sec Star magnitude: 5.1 m  
Max duration: 1.8 sec Magnitude drop: 12.7 m

Position: In the 1-sigma zone, 18 km outside the shadow path  
There is currently 1 announced station for this event.  
1 of them is yours.

Show online map with stations View details on the web Save 'Google Earth' kml file View sta...

Last updated on 8/31/2017 9:58:51 AM

### C2A Add-in Configuration

C2a for Windows Path: C:\Program Files (x86)\C2a\C2aw.exe

Field Size: 60 x 60

Map Type:  Equatorial  Altazimuth

Field Symmetries:  Horizontal Symmetry  Vertical Symmetry

Field Rotation: 0

Display the Field 0 Hours before Occultation Event

Display Asteroid in the Field (requires asteroid orbital elements to be loaded)

Automatically load asteroid orbital elements from local Astorb.dat file

Display Prepoint Track in the field map

Use a single instance of C2A when called from Occult Watcher

Catalog to be Used in C2A Display

Use the star catalog from the event

Force star catalog UCAC4

Force NOMAD catalog except when UCAC3 is referenced by the event

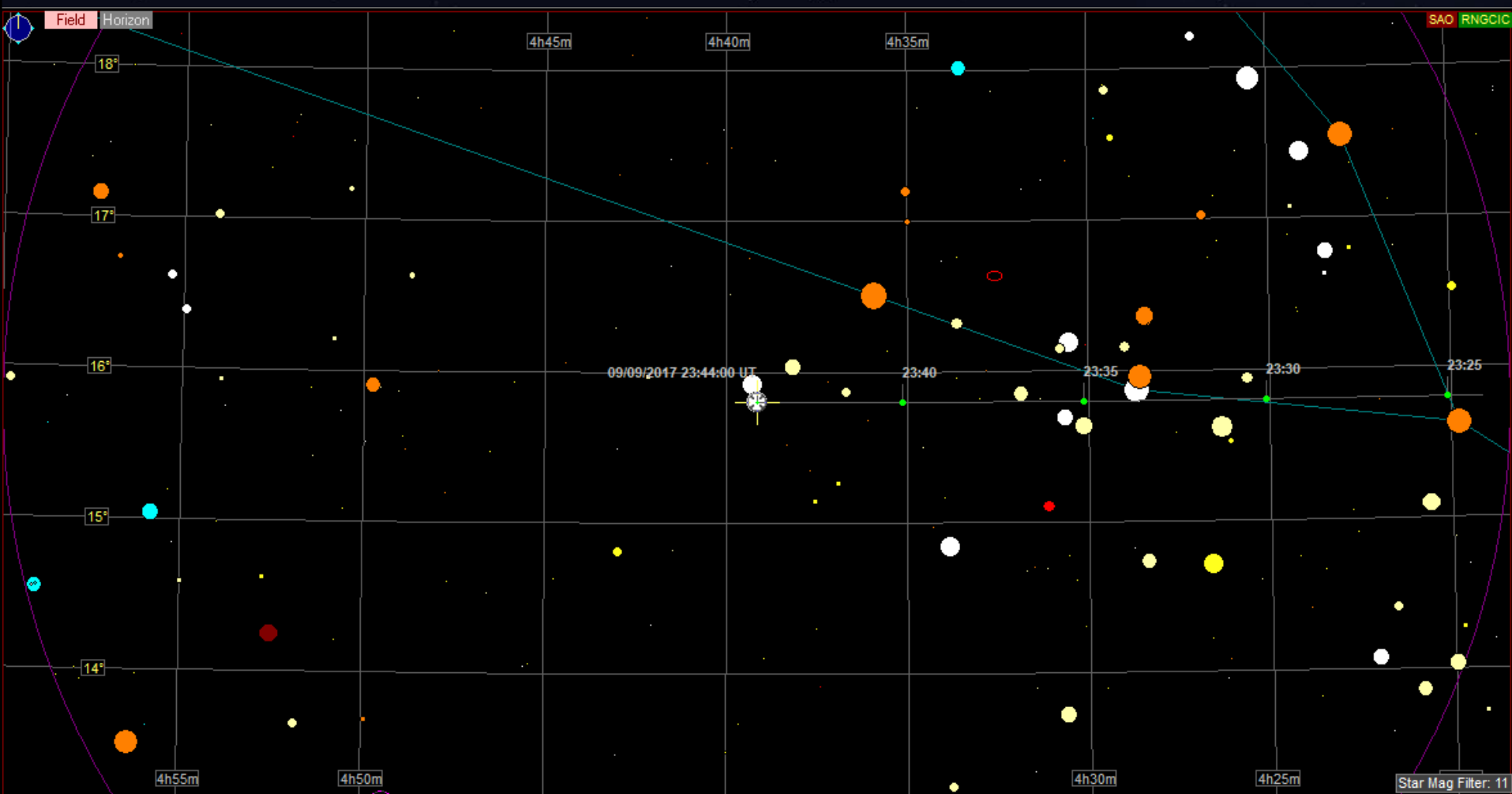
[Link to get help for setting up the C2A add-in](#)

[Link to the C2a Web Site](#)

About... OK Cancel

Configure C2A – display prepoint track

# Occult Watcher C2A Add-in



C2A occultation star chart with prepoint track

# Occult Watcher C2A Add-in

Planetarium Software

Computer Aided Astronomy

**New version 2.1.4**

- Artificial Satellites
- Magnitude histogram
- Planet elongation
- Bug fixes

Home Information Downloads Support

**C2A (Computer Aided Astronomy)** is a Planetarium software that allows you to build detailed views of stellar fields. It is only available for the **Microsoft Windows** Operating System (all versions). An important objective of this software is to take into account the main catalogues available to professional and amateur astronomers in order to prepare observations on small fields as well as astrometry and photometry works. C2A is also an easy to use general purpose Planetarium software with many functions.

C2A is able to display the following catalogues:  
**SAO, GCVS, WDS, Gliese** and **Hipparcos** (all four provided with the standard program)

<http://www.astrosurf.com/c2a/english/>

**Philippe Deverchère**

**C2A website**

# **Occult Watcher Lunar Occultations Add-in**

**Predictions for known (and suspected) double stars**

**Occult4**

**Download and install the Add-in:-**

**[http://www.hristopavlov.net/OccultWatcher/OccultWatcher\\_3\\_3\\_0\\_5/OccultW  
atcher.LunarOccultations.zip](http://www.hristopavlov.net/OccultWatcher/OccultWatcher_3_3_0_5/OccultWatcher.LunarOccultations.zip)**

**Required software**

# Occult Watcher Lunar Occultations Add-in

The screenshot shows the Occult Watcher software interface. The main window displays a list of events, with the 'Add-ins' menu open, highlighting 'Lunar Occultations for OccultWatcher'. A configuration dialog box is overlaid on the screen, titled 'Lunar Occultations for OccultWatcher, ver. 1.0.3'. The dialog contains the following fields and controls:

- Occult4 Path:** A text box containing 'C:\Occult 4' and a browse button (...).
- IMPORTANT:** A warning message: 'While the Lunar Occultations for OccultWatcher addin is loaded you will not be able to update Occult. You will need to stop OccultWatcher before updating Occult.'
- Site Altitude:** A spin box set to '114' m.
- Aperture:** A spin box set to '28' cm.
- Mag Limit Adj.:** A spin box set to '0' m.
- Feed Url:** A text box containing 'http://www.iota-es.de/OWFeed/EuroDIs.txt'.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

The background software interface shows a table of events with columns for Asteroid Name, Date/Time, Shadow Width, Rank, Travel Dist., and Last Updated. The event '(6925) Susumu' is highlighted in blue. Below the table, there is a section for 'IOTA Updates' and a detailed view for the event '(6925) Susumu occults HIP 21673', including position information and a link to show an online map.

Configure link to Occult and the feed URL

# Occult Watcher Lunar Occultations Add-in

Occult Watcher, ver. 3.9.0.1 - Home (UTC +01:00 DST)

Synchronise now **Configuration** Add-ins Help

Asteroid Name	Event Date, loc.time	Magn.	Shadow Width	Rank	Travel Dist.	Last Updated
<b>My Events</b>						
(19306) Voves	Thu 27 Jun		27 km @333°			27 Jun, 17:21
(10773) Jamespaton	Fri 04 Jul		43 km @319°			27 Jun, 17:21
(5140) Kida	Mon 07 Aug		44 km @306°			29 Jul, 12:16
(654) Zelinda	Fri 11 Aug		66 km @194°			28 Jul, 11:27
(5140) Kida	Tue 15 Aug		93 km @296°			29 Jul, 12:24
(36772) 2000 RF99	Fri 18 Aug		13 km @163°			28 Jul, 11:28
(1258) Sicilia	Sun 20 Aug		04 km @160°			28 Jul, 11:28
3122	Thu 31 Aug					02 Aug, 01:00 *
(111069) 2001 VS48	Sat 02 Sep		43 km @323°			27 Aug, 20:29 *
(626) Notburga	Sat 09 Sep		52 km @264°			17 Jul, 01:15
(6925) Susumu	Sun 10 Sep		31 km @163°			17 Jul, 01:15
(207) Hedda	Tue 12 Sep		16 km @157°			17 Jul, 01:16
Triton	Fri 06 Oct		10 km @155°			01 Sep, 23:37 new
2012 TC4	Thu 12 Oct					05 Aug, 01:00
<b>All Events</b>						
(169368) 2001 UJ111	Fri 07 Jul		36 km @212°			27 Jun, 17:19
(29555) MACEK	Sat 08 Jul		25 km @122°			01 Jul, 09:20 *
(73944) 1997 SG24	Sat 08 Jul		15 km @179°			27 Jun, 17:19
2632 d	Sat 08 Jul					23 Jun, 00:58
(51932) 2001 QF129	Sat 08 Jul		48 km @167°			27 Jun, 17:19
(40144) 1998 QC71	Sat 08 Jul		22 km @194°			27 Jun, 17:19
(54306) 2000 TC28	Sat 08 Jul		1 km @52°			01 Jul, 00:00

**Configuration**

General Event filters Other options Prediction feeds **Observation planner**

**Asteroidal occultations predictions**

The Occult Watcher experience wouldn't be possible without the people publishing predictions computed with Dave Herald's Occult. Please select from the list below the feeds you want Occult Watcher to monitor for you.

- Comet Occultations (Global)
- Planet Satellites (Global)
- LinOccult Personal Predictions
- Lunar Occultations of Close Double Stars**
- NEA (Global)

**Lunar Occultations**

Total Lunar Occultations of suspected double stars. The filtering is done at the time of the synchronisation so you need to have your correct coordinates set before you synchronise.

Url <http://www.iota-es.de/OWFeed/EuroDIs.txt>

OK Cancel

L [IOTA Updates]

you center shadow 1-sigma 2 & 3-sigma limits

Activate the prediction feed








# Occult Watcher Lunar Occultations Add-in

Occult Watcher, ver. 3.9.0.1 - Home (UTC +01:00 DST)

Synchronise now Configuration Add-ins Help

Asteroid Name	Event Date, loc.time	Magn.	Shadow Width	Rank	Tr
41P/Tuttle-Giac	Fri 08 Sep, 21:42	11.5	26 km	0	
(27544) 2000 JR14	Fri 08 Sep, 21:59	13.6	23 km	5	
(67515) 2000 RN62	Fri 08 Sep, 22:08	13.6	6 km	6	
210 R	Sat 09 Sep, 04:04	6.6		100	
(1000) Piazzia	Sat 09 Sep, 04:31	10.2			
213P/Van Ness	Sat 09 Sep, 20:05	10.9			
(7949) 1992 SU	Sat 09 Sep, 21:21	13.9			
(3122) Florence	Sat 09 Sep, 23:34	10.6			
(1373) Cincinnati	Sun 10 Sep, 00:32	13.1			
(49488) 1999 BZ23	Sun 10 Sep, 01:40	11.7			
(101890) 1999 NK55	Sun 10 Sep, 03:51	12.0	16 km	6	

-  Create C2A Occultation Map
-  Additional Event Details
-  Export All Events to Excel
-  View Target Star in 'Google Sky'
-  Add to 'My Events' ▶

**210 [R ] (Home)** Event time: 04 : 04 : 20 Star magnitude: 6.6 m

210 is double: AB 6.7 9.5 5.7" 329.4, dT = +1.9sec  
 210 is a close double. Observations are highly desired

[View details on the web](#)

**Double star prediction – Event details from Occult**



# Occult Watcher Lunar Occultations Add-in

Lunar occultation predictions: Occult v.4.3.2

with Prediction ... Set Output filter Mag limit adjustment... show Recording Timer Weather forecasts... Help Exit

1. Specify a single site location  
 Site name: OW.LunarOcc  
 Lon: [redacted] Lat: [redacted] Altitude (m): 114  
 Apert(cm): 28 Use Site files

2. Star cat.  
 XZ  
 XZ < mag 9  
 XZ < mag 7  
 XZ < mag 4  
 ZC

3. Objects  
 Stars  
 Planets  
 Asteroids  
 Grazes only  
 Doubles only

4. Set UT dates  
 Start: Year 2017, Month Sep, Day 8, Starting at -6 hrs  
 End: Year 2017, Month Sep, Day 10, Today, +6 hrs, +12hrs

5. Events for Site  
 Occultations  
 Short Output  
 Apply Filter

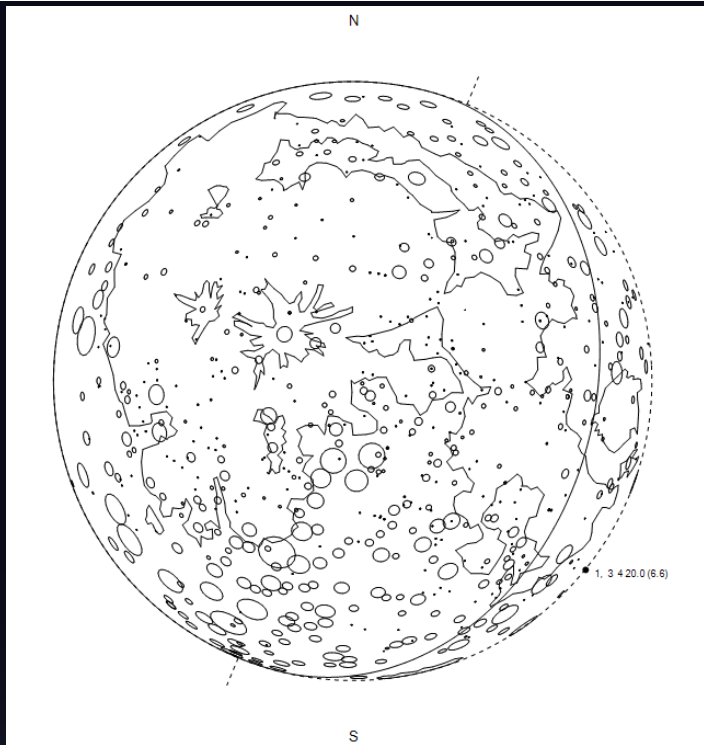
6. Events anywhere

Right-click on prediction for further options [2017 Sep 10]

Occultation prediction for OW.LunarOcc  
 E. Longitude - [redacted], Latitude [redacted], Alt. 114m; Telescope dia 28cm; dMag 0.0

day	Time	P	Star	Sp	Mag	Mag	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV									
y	m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s
17	Sep	9	3	4	20.0	R	210	DB9	6.6	6.7	91-144	39	194	66S	231	223	253	-4.3	+6.4	+1.1	+0.7	.429	-166.0	1	26	53.6	3	32	8	371.2	796.6	

210 is double: AB 6.7 9.5 5.7" 329.4, dT = +1.9sec  
 210 is a close double. Observations are highly desired



European feed maintained by  
 Oliver Klös and Jan Manek

Occult prediction

# Occult Watcher Report Add-in

Asteroidal Occultation Report Addin, ver 1.8

Region: Europe - Eric Frappa

The reporting add-in will help you maintain a list of templates for your different telescopes, fixed observatories and equipment and will prepopulate the event information (date, star, asteroid, negative/positive and others) when you press "Prefill Report". Then you will have to enter the event times and the rest of the required details.

Template to use  
ARP Home Observatory    Reload    New    Edit    Delete

Templates must be text files (extension .txt) saved under the Report Templates directory and containing all compulsory tokens that the Reporting Addin will replace with real data. These tokens are: %EVENT-DATE%, %STAR%, %ASTEROID% and %ASTEROID-NO%. Leave "xxxxTIVE" as it is as it will be also updated with "NEGATIVE" or "POSITIVE". Additionally more tokens can be used at your discretion. Click [here](#) for the full list of available tokens.

The Report Templates directory is:  
C:\Program Files (x86)\Occult Watcher\Report Templates

It is recommended that you create one template for each of your fixed observatory telescopes and one template for each of your mobile telescopes. You should fill in section 3 (OBSERVING STATION) for all fixed telescopes as their location doesn't change. Leave the OBSERVING STATION for the mobile telescope reporting templates blank and fill it in before you submit your report. Complete section 2 (OBSERVER) for all of the templates so you don't have to fill in your contact information every time.

Prefill Report    Cancel

Report your observation

# Occult Watcher Report Add-in

## ASTEROIDAL OCCULTATION - REPORT FORM

EAOB	IOTA/ES
EUROPEAN ASTEROIDAL OCCULTATION NETWORK	INTERNATIONAL OCCULTATION TIMING ASSOCIATION EUROPEAN SECTION

1 DATE: %EVENT-DATE% STAR: %STAR%  
ASTEROID: %ASTEROID% N?: %ASTEROID-NO%

2 OBSERVER: Name: Abbr:  
E-mail:  
Address:

3 OBSERVING STATION: Nearest city:  
Station:  
Latitude:  
Longitude:  
Altitude:  
Datum (WGS84 preferred):

Single, OR Double or Multiple station (Specify observer's name):

4 TIMING OF EVENTS: +-----+  
| OCCULTATION RECORDED: xxxxtIVE |

Report template

# Occult Watcher Report Add-in

## ASTEROIDAL OCCULTATION - REPORT FORM

EAON EUROPEAN ASTEROIDAL OCCULTATION NETWORK	IOTA/ES INTERNATIONAL OCCULTATION TIMING ASSOCIATION EUROPEAN SECTION
--	--

1 DATE: 9 September 2017

STAR: HIP 21673

ASTEROID: Susumu

M?: 6925

2 OBSERVER: Name: Alex Pratt

Abbr: ARP

E-mail: [REDACTED]

Address: [REDACTED]

3 OBSERVING STATION: Nearest city: Leeds

Station: West Park Observatory - MPC Z92

Latitude: [REDACTED]

Longitude: [REDACTED]

Altitude: 114m above sea level

Datum (WGS84 preferred): WGS84 - position confirmed with GPS and Google Earth

Single, OR Double or Multiple station (Specify observer's name): Single - Alex Pratt

4 TIMING OF EVENTS:

OCCULTATION RECORDED: NEGATIVE

**Prefilled report**

# Occult Watcher Report Add-in

Token	Description
▶ %AsteroidName%	The name of the asteroid
%StarName%	The name of the star
%FeedName%	Feed name listing the event
%EventTimeUT%	Predicted event time for the current site
%ErrorInTime%	Error in time
%StarMagnitude%	Star magnitude in V
%StarMagnitudeR%	Star magnitude in R
%CombinedMagnitude%	Combined magnitude
%MaxDuration%	Maximum duration
%MagnitudeDrop%	Magnitude drop
%MagnitudeDropR%	Magnitude drop in red
%EventRank%	Event rank as define by Steve Preston
%Probability%	Probability for the current site
%StarAltitude%	Star altitude
%StarAzimuth%	Star azimuth
%SunAltitude%	Sun altitude
%MoonAltitude%	Moon altitude
%SunDistance%	Sun distance
%ShadowWidth%	Shadow width in km
%TravelDistance%	Travel Distance as defiend in OccultWatcher
%CenterDistance%	Distance from the center line
%ChordOffset%	Chord Offset as defined in OccultWatcher
%Constellation%	The constellation
%StarRA%	The right acension of the star
%StarDE%	The declination of the star

**Report tokens**

# **Occult Watcher Add-ins**

**C2A planetarium software**

**Predictions of known (and suspected) double stars**

**Report form tool**