

The Cartes du Ciel (Sky Charts) Addin for Occult Watcher

Occult Watcher, ver. 4.7.0.1 - LIPOWY MOST (UTC +02:00 DST)

Synchronise now Configuration Add-ins Help

Asteroid Name	Event Date, UT	Sta...	Magn Drop (V)	Max Duration	Feed
My Events					
(136) Austria	sob. 29 sie, 22:25 UT	10,3	2,5		
(4610) Kajov	wt. 01 wrz, 20:30 UT	8,5	7,6		
IOTA Updates					
(5025) 1986 TS6	pt. 02 paź, 22:51 UT	12,0	5,3		
(245) Vera	pon. 12 paź, 00:16 UT	8,6	4,3		
Planned Observations					
(362395) 2010 OP64	niedz. 23 sie, 22:...	11,3	10,2		
(396) Aeolia	śr. 26 sie, 01:23 UT	12,9	0,9		
(28009) 1997 YY1	śr. 26 sie, 23:36 UT	7,1	10,4		
(30888) Okitsumisaki	czw. 27 sie, 20:50 UT	9,9	8,3		
(450) Brigitta	czw. 27 sie, 23:34 UT	10,6	5,2	1,4	ITALOC
(295701) 2008 TW174	pon. 31 sie, 01:28 UT	11,7	9,1	2,4	IBEROO

- Create C2A Occultation Map
- Show event in Sky Chart (Cartes du Ciel)
- Report Observation
- Additional Event Details
- Export All Events to Excel
- View Target Star in 'Google Sky'
- Announce More Stations
- Cancel All Stations

XXXIX European Symposium on Occultations Projects
Aug 29th – Aug 30th, 2020 – Web Video Conference

Wojciech Burzyński - IOTA/ES, SOPiZ PTMA

Cartes du Ciel Addin – the history

During XXXVII ESOP in Rokycany (Aug 2018), I was inspired by the presentation of **Andreas Eberle**, Stuttgart Observarory, who created an addin connecting Occult Watcher with well known Guide 9.1.

I thought then that OW already has addins to two famous planetarium type software such as C2A and Guide, but there is no plugin for another excellent program of this type, **Cartes du Ciel**.

I knew Cartes du Ciel (CdC), **the free and open source software**, was very popular. Since 2006, the author **Patrick Chevalley** has been updating the program very often, even weekly, reacting positively to every user suggestions.

On my request Patrick has changed the beta version code:

- for selecting comet or asteroid as a single object or all (May 20, 2020)
- to accept negative values for backward simulation (Aug 17, 2020)

These two changes make very easy to display the asteroid's trajectory before the event and made planning of the occultation observation very enjoyable!

Cartes du Ciel Addin – the history

In 2019 I contacted Hristo Pavlov on writing a new addin, he gave me some advice and shared sample files. But my programming skills in C turned out to be too weak. Moreover, the lack of time made it impossible for me to properly deal with this ☹

Jan 7, 2020 - I proposed writing a plug for my friend **Grzegorz Czepiczek**, a member of the Polish Amateur Astronomers Society, Czestochowa Branch. Grzegorz is an IT engineer and photographer. Please check out his webpage:

<http://panoramaczestochowy.pl/index.html>

Feb 2, 2020, – I contacted Hristo Pavlov with Grzegorz

Feb 4, 2020 – the first, trial version was born !!

Feb 12-24, 2020 – beta testing

(Claudio Costa, Alfonso Nochese, Miroslav Poláček)



Aug 10, 2020 – the latest version 1.0.7 (minor fixes in the plugin's name)

The plugin was developed on the basis of free open source Guide Add-in for Occult Watcher, available on the GitHub platform for developers.

Download Cartes du Ciel

Go to webpage: <https://www.ap-i.net/skychart/en/start>

Download the latest beta version **4.3.4176** updated on Aug 17, 2020.

*... 4.2.1 stable version does not include yet features useful for occultation work
e.g. appropriate simulation of asteroid trajectories ...*

Please select the version suitable for your operating system, e.g. Windows 64 bit
(file name: **skychart-4.3-4176-windows-x64.exe**)

This file is also the most downloaded file 😊

Download also **UCAC 4** or **Gaia DR2** star catalog suitable for CdC from site:

<https://www.ap-i.net/skychart/en/download>

*I only recommend downloading UCAC4 - the vast majority of the occulted stars
displayed in OW come from this catalog and its 16 mag limit is the limit for most
observers anyway. UCAC 4 really makes it easy to find the target star on the map.*

Download beta version of Cartes du Ciel

 Skychart

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Trace: - en

en:start

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- Download beta version**
- Roadmap
- Bug tracker
- Contribute
- Translations
- Contact

English (en)

News:

Version 4.2.1

Version 4.2


GAIA DR2

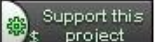
A new look for Skychart

Version 4.0

Cartes du Ciel is free software released under the terms of the

 GNU General Public License

 SOURCEFORGE

 Support this project

SkyChart / Cartes du Ciel

Free software to draw sky charts

For use with Linux, Windows, macOS



Look at the [News](#) and [Documentation](#) for more information about this version.

[Download](#) the current stable version or the **last beta version** and please report any problem [here](#).

Description:

This program enables you to draw sky charts, making use of the data in many catalogs of stars and nebulae. In addition the position of planets, asteroids and comets are shown.

Download star catalogs for Cartes du Ciel

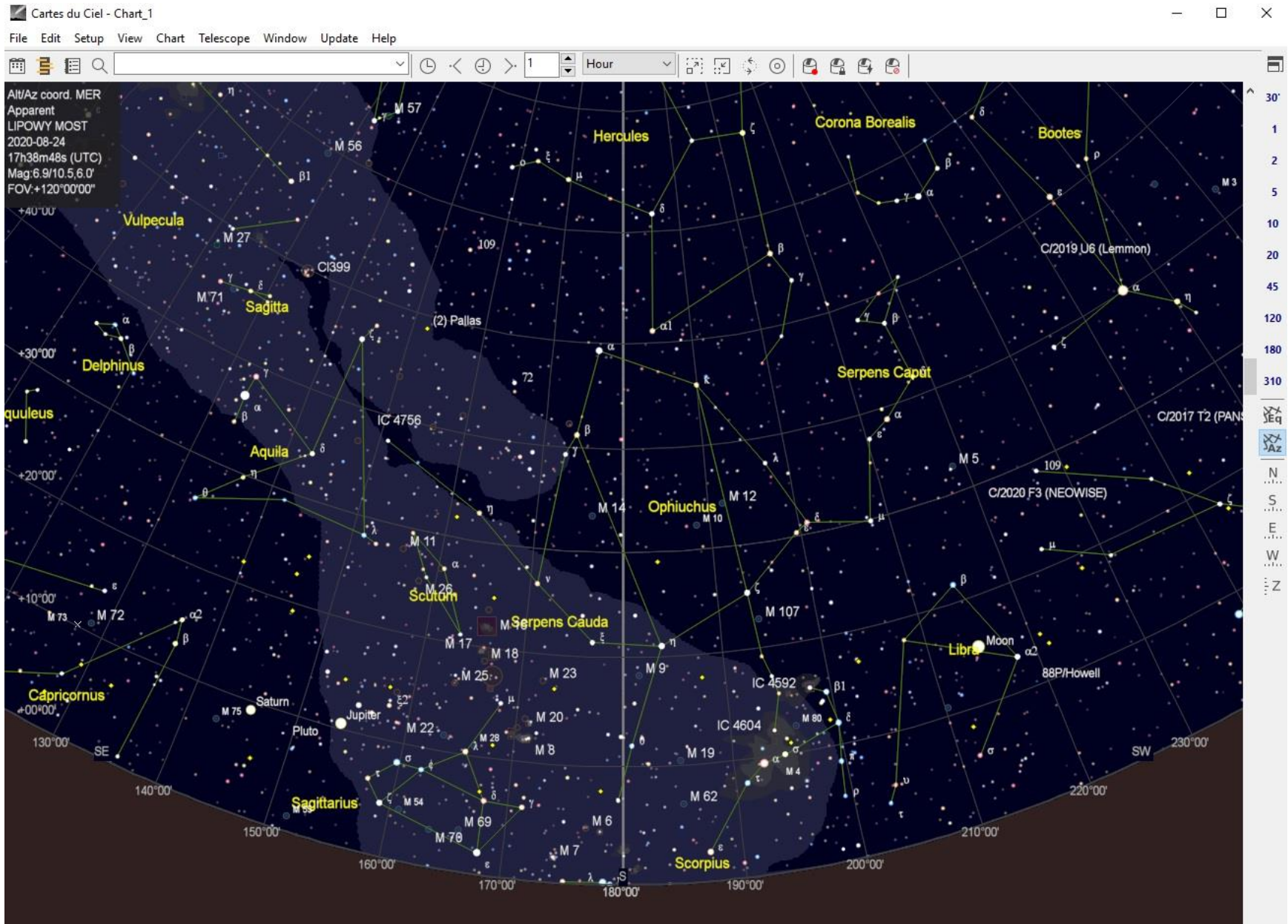
UCAC4 catalog V2		
<ul style="list-style-type: none">🌐 South -90/-30🌐 Equator -30/+22.5🌐 North +22.5/+90🌐 Indexes🌐 MD5 checksum	450MB-2700MB Mar 4 2013	<p>This files are an extraction of the UCAC4 star catalog with stars down to magnitude 16.</p> <p>They contain only a part of the original catalog data. For each star it include: identifier, RA, Dec, magnitude, proper motion, color index.</p> <p>You can get only the stars visible for you. i.e. a northern hemisphere observer can get only the North and Equator files.</p> <p>On Windows be careful to not extract the zip files directly in C:\Program Files\Ciel\ as this may pose problem with the user right management.</p>
GAIA DR2 catalog		
<p>Torrent download:</p> <ul style="list-style-type: none">🌐 Stars to magnitude 15🌐 Stars between 15 and 18🌐 Stars between 18 and 21 <p>Direct download:</p> <ul style="list-style-type: none">🌐 Stars to magnitude 15🌐 Stars between 15 and 18🌐 Stars between 18 and 21	1.1GB 7.3GB 34GB Jun 11 2018	<p>This files install the GAIA DR2 star catalog with stars down to magnitude 21.</p> <p>The 🌐 Torrent download is more reliable for this big files.</p> <p>Download the 3 files and 🌐 extract all in the same directory. You can install only the first file if you want. See this page for more options</p> <p>On Windows be careful to not extract the rar files directly in C:\Program Files\Ciel\ as this may pose problem with the user right management.</p>

I do not need
the SOUTH file



It is a reasonable choice if you want Gaia DR2

Cartes du Ciel – default settings



Set CdC for occultation work – observing site

Observatory

Observatory Horizon

Name LIPOWY MOST Observatory database

Favorite LIPOWY MOST Save Delete

Latitude Longitude Altitude

Degrees, minutes, seconds Degrees, minutes, seconds Meters

53 12 31.5 N 23 31 38.0 E 145

Time zone

☐ Country timezone **do not select**

UTC

Map Internet localization

Help OK Apply Cancel

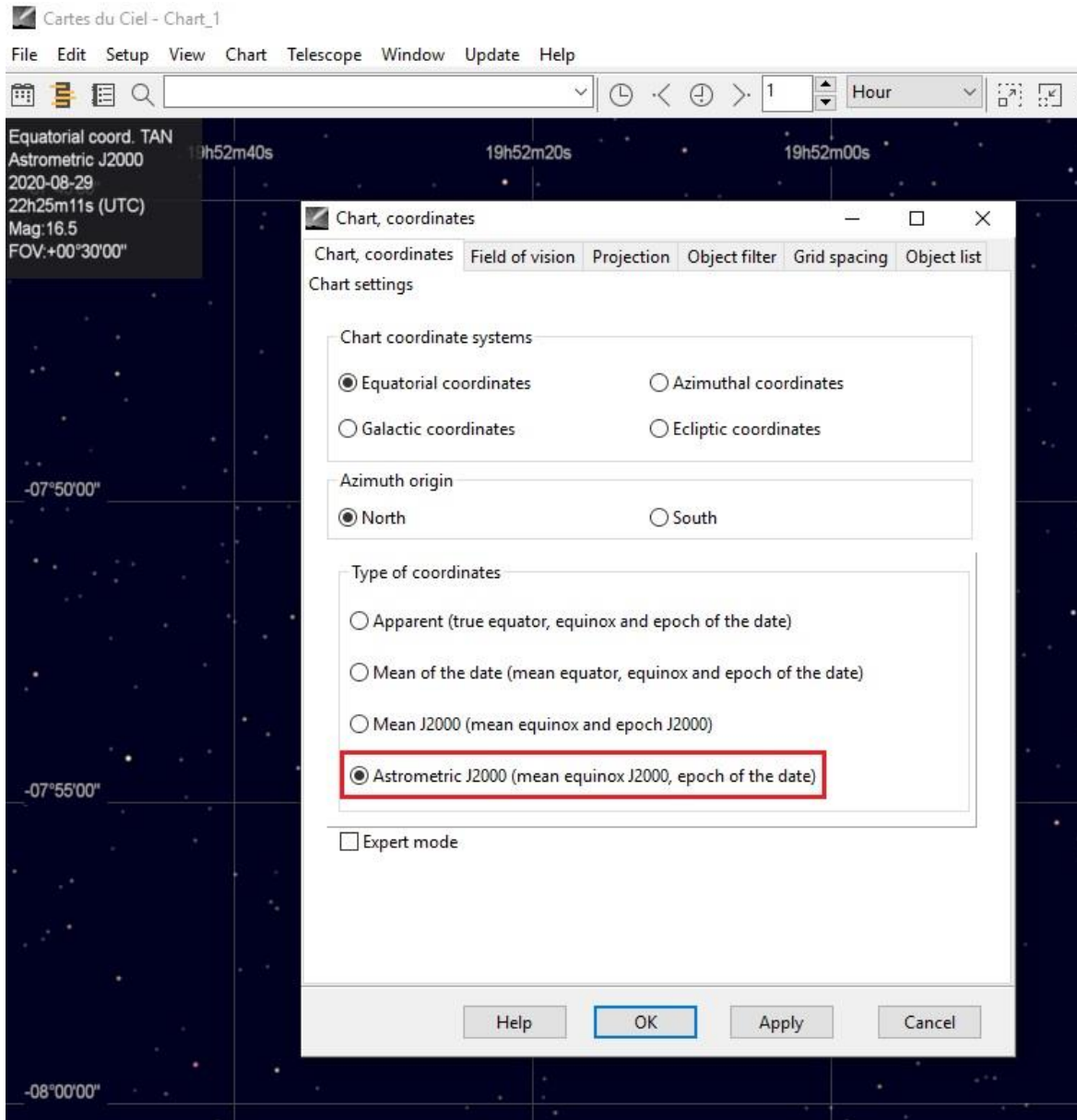
1. Set site name

2. Set site coordinates

3. Set as UTC time

4. Apply and press OK.

Set CdC for occultation work – coordinates



Change type of celestial coordinates from 'Apparent' to **Astrometric J2000** to display occulted star in the center of star map.

This change, and the earlier one related to the UTC time setting, is necessary for the star to display correctly in the map center

Set CdC for occultation work – MPC file

SET SOURCE OF MPC FILE

Setup -> Internet -> Orbital elements -> Source of asteroid elements in MPC format -> select „MPCORB > 70Mb!“

DOWNLOAD THE LATEST ASTEROIDAL ELEMENTS

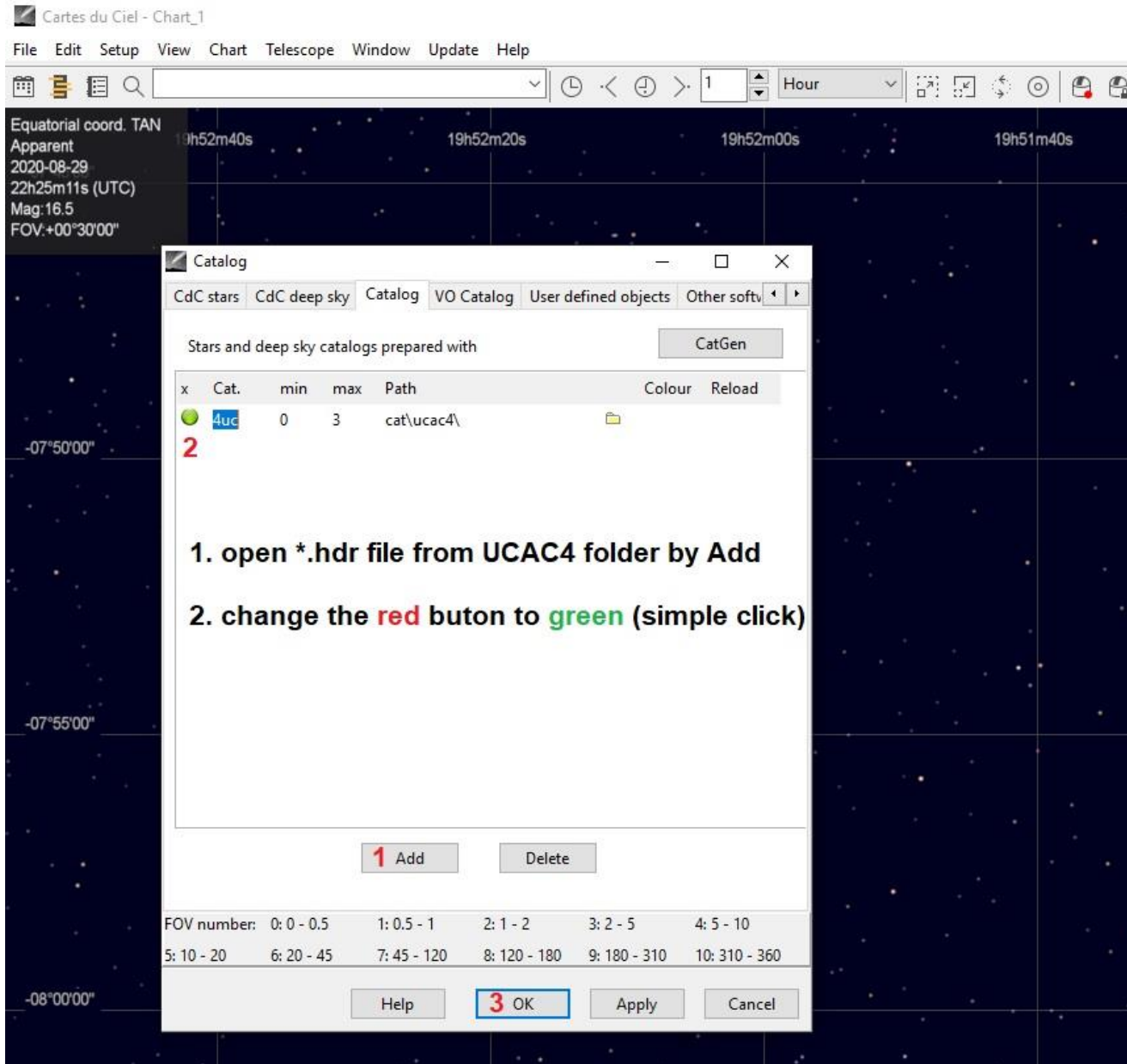
Update -> Asteroid elements

CdC will download the latest MPC file (58.3 MB zipped but 197 MB unzipped) and automatically prepare the data for calculations from orbital elements for default value of 2 months starting from the current month.

The MPC file for August 27, 2020 contains 976 786 asteroids.

After the period of 2 months (or whatever you want) it is recommended to update the asteroid orbital elements again.

Set CdC for occultation work – UCAC 4 catalog



CdC is initially prepared for observation...

... now let's install the addin.

OW appearance without CdC Add-in

Occult Watcher, ver. 4.7.0.1 - LIPOWY MOST (UTC +02:00 DST)

Synchronise now Configuration Add-ins Help

Create C2A Occultation Map

Configure Add-ins

Find Add-ins

C2A Add-in

IOTA Reporting

Asteroid Name	Event Time	Magn Drop (V)	Max Duration	Feed	Last Updated	Shift
My Events						
(136) Austria	22:25:11 UT	10,2	6,7	IOTA	16 sie, 02:39	
(4610) Kajov	00:16 UT	8,6	4,3	IBEROC	05 sie, 19:53	
IOTA Updates						
(5025) 1986 TS6	pt. 02 paź, 22:51 UT	12,0	5,3	IOTA	16 sie, 02:33	
(245) Vera	pon. 12 paź, 00:16 UT	8,6	4,3	IOTA	16 sie, 02:36	
Planned Observations						
(362395) 2010 OP64	niedz. 23 sie, 22:00 UT	11,3	10,2	ITALOccult	22 lip, 09:19	
(396) Aeolia	śr. 26 sie, 01:23 UT	12,9	0,9	IBEROC	05 sie, 19:50 *	
(28009) 1997 YY1	śr. 26 sie, 23:36 UT	7,1	10,4	ITALOccult	06 sie, 19:49 ***	
(30888) Okitsumisaki	czw. 27 sie, 20:50 UT	9,9	8,3	IBEROC	05 sie, 19:51 *	
(450) Brigitta	czw. 27 sie, 23:34 UT	10,6	5,2	ITALOccult	06 sie, 19:49	
(295701) 2008 TW174	pon. 31 sie, 01:28 UT	11,7	9,1	IBEROC	05 sie, 19:53 *	
(519) Sylvania	śr. 02 wrz, 00:32 UT	13,3	1,4	IBEROC	05 sie, 19:54	
(3319) Kibi	śr. 02 wrz, 01:31 UT	12,1	5,5	IBEROC	05 sie, 19:54	
(105203) 2000 OV41	śr. 02 wrz, 02:41 UT	11,6	7,1	IBEROC	05 sie, 19:54 *	
(65228) 2002 EH58	pt. 04 wrz, 02:34 UT	12,6	6,7	IBEROC	05 sie, 19:55 *	
(264123) 2009 TG33	pt. 04 wrz, 23:44 UT	12,8	6,7	IBEROC	05 sie, 19:56 *	
(249680) 1999 VH227	sob. 05 wrz, 21:23 UT	9,9	7,7	IBEROC	05 sie, 19:56 *	
(23918) 1998 SH133	niedz. 06 wrz, 03:00 UT	9,0	9,4	IBEROC	05 sie, 19:57 *	
(117131) 2004 PW60	pon. 07 wrz, 01:41 UT	8,5	10,4	IBEROC	05 sie, 19:57	
(1063) Aquilegia	śr. 09 wrz, 23:11 UT	12,9	2,8	IBEROC	05 sie, 19:58	
(12112) Sprague	czw. 10 wrz, 21:34 UT	12,5	4,7	ITALOccult	06 sie, 19:54	

L [IOTA Updates]

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

(136) Austria occults TYC 5725-01093-1

Event time: 22:25:11 UT Combined magnitude: 10,2 m Constellation: Aquila

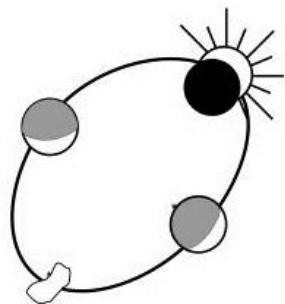
Position: In the shadow, 1 km from the central line Error in time: 4 sec Star magnitude: 10,3 m Star altitude: 21° SW Moon altitude: 8° SW

There are currently 5 announced stations for this event. 1 of them is yours. Max duration: 6,7 sec Magnitude drop: 2,5 m Sun altitude: -28° Moon distance: 16°

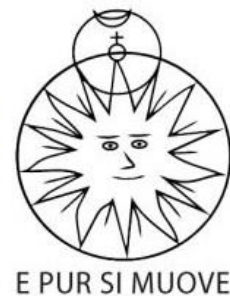
Raw installation of OW – only C2A and IOTA Reporting Addins

How to get CdC Addin for OW ?

Please go to webpage of Occultation Section of Polish Amateur Astronomers Society
(*pol. „SOPiZ PTMA”*) – site is still under construction ☺



SEKCJA OBSERWACJI POZYCJI i ZAKRYĆ
POLSKIEGO TOWARZYSTWA MIŁOŚNIKÓW ASTRONOMII



<http://www.sopiz.ptma.pl/cartes-du-ciel-sky-charts-addin-for-occult-watcher/>

and [DOWNLOAD](#) zip file.

Unzip the CdC Addin inside OW folder

Wyświetlenie folderu **Occult Watcher** na dysku lokalnym (C:).

Widok: **Plik** | Narzędzia główne | Udostępnianie | Widok

Przypnij do paska Szybki dostęp | Kopiuje | Wklej | Wytnij | Kopiuj ścieżkę | Wklej skrót | Przenieś do | Kopiuj do | Usuń | Zmień nazwę | Nowy folder | Nowy element | Łatwy dostęp | Właściwości | Otwórz | Edytuj | Historia

← → ↕ ↑ | Ten komputer > Dysk lokalny (C:) > Occult Watcher >

Nazwa	Data modyfikacji	Typ	Rozmiar
ErrorReports	12.08.2020 10:47	Folder plików	
Microsoft.Office.Interop.Excel.dll	20.08.2020 08:33	Rozszerzenie aplik...	924 KB
Microsoft.Office.Interop.Outlook.dll	20.08.2020 16:53	Rozszerzenie aplik...	380 KB
Microsoft.Web.Services3.dll	01.11.2005 01:00	Rozszerzenie aplik...	864 KB
OccultWatcher.C2a.dll	20.08.2020 08:33	Rozszerzenie aplik...	40 KB
OccultWatcher.Core.dll	20.08.2020 08:32	Rozszerzenie aplik...	503 KB
OccultWatcher	20.08.2020 08:32	Aplikacja	3 113 KB
OccultWatcher.exe.config	20.08.2020 08:32	Plik CONFIG	3 KB
OccultWatcher.Reports.dll	20.08.2020 08:33	Rozszerzenie aplik...	464 KB
OccultWatcher.SDK.dll	20.08.2020 08:32	Rozszerzenie aplik...	15 KB
OWUpdate	20.08.2020 08:30	Aplikacja	66 KB
ReleaseNotes	20.08.2020 08:32	Dokument tekstowy	4 KB
UserHorizon	20.08.2020 08:33	Dokument tekstowy	6 KB
OccultWatcher.SkyChart.dll	10.08.2020 16:50	Rozszerzenie aplik...	31 KB

Configure CdC Addin ...

Occult Watcher, ver. 4.7.0.1 - LIPOWY MOST (UTC +02:00 DST)

Synchronise now Configuration Add-ins 1 Help

Asteroid Name	Event time	Max Duration	Feed	Last Updated	Shift
My Events					
(136) Austria	16 sie, 02:39				
(4610) Kajov	05 sie, 19:53				
IOTA Updates					
(5025) 1986 TS6	pt. 02 paź, 22:51 UT	12,0	5,3		
(245) Vera	pon. 12 paź, 00:16 UT	8,6	4,3		
Planned Observations					
(362395) 2010 OP64	niedz. 23 sie, 22:...	11,3	10,2	0,5	ITALOccult
(396) Aeolia	śr. 26 sie, 01:23 UT	12,9	0,9	4,1	IBEROC
(28009) 1997 YY1	śr. 26 sie, 23:36 UT	7,1	10,4	0,6	ITALOccult
(30888) Okitsumisaki	czw. 27 sie, 20:50 UT	9,9	8,3	0,8	IBEROC
(450) Brigitta	czw. 27 sie, 23:34 UT	10,6	5,2	1,4	ITALOccult
(295701) 2008 TW174	pon. 31 sie, 01:28 UT	11,7	9,1	2,4	IBEROC
(519) Sylvania	śr. 02 wrz, 00:32 UT	13,3	1,4	1,8	IBEROC
(3319) Kibi	śr. 02 wrz, 01:31 UT	12,1	5,5	0,7	IBEROC
(105203) 2000 OV41	śr. 02 wrz, 02:41 UT	11,6	7,1	1,3	IBEROC
(65228) 2002 EH58	pt. 04 wrz, 02:34 UT	12,6	6,7	2,0	IBEROC
(264123) 2009 TG33	pt. 04 wrz, 23:44 UT	12,8	6,7	0,7	IBEROC
(249680) 1999 VH227	sob. 05 wrz, 21:23 UT	9,9	7,7	1,5	IBEROC
(23918) 1998 SH133	niedz. 06 wrz, 03:...	9,0	9,4	1,4	IBEROC
(2996) Bowman	niedz. 06 wrz, 23:...	12,3	5,5	0,9	ITALOccult
(117131) 2004 PW60	pon. 07 wrz, 01:41 UT	8,5	10,4	0,7	IBEROC
(1063) Aquilegia	śr. 09 wrz, 23:11 UT	12,9	2,8	2,4	IBEROC

[IOTA Updates]

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

(136) Austria occults TYC 5725-01093-1

Position: In the shadow, 1 km from the central line

There are currently 5 announced stations for this event.
1 of them is yours.

Event time: 22:25:11 UT

Error in time: 4 sec

Max duration: 6,7 sec

Combined magnitude: 10,2 m

Star magnitude: 10,3 m

Magnitude drop: 2,5 m

Constellation: Aquila

Star altitude: 21° SW

Sun altitude: -28°

Moon altitude: 8° SW

Moon distance: 16°

... and configure ...

Occult Watcher, ver. 4.7.0.1 - LIPOWY MOST (UTC +02:00 DST)

Synchronise now Configuration Add-ins Help

Asteroid Name	Event Date, UT	Sta...	Magn Drop (V)	Max Duration	Feed	Last Updated
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(4610) Kajov	wt. 01 wrz, 20:30 UT	8,5	7,6	0,9	IBEROC	05 sie, 19:53
IOTA Updates						
(5025) 1986 TS6	pt. 02 paź, 22:51 UT	12,0	5,3	3,1	IOTA	16 sie, 02:33
(245) Vera	pon. 12 paź, 00:16 UT	8,6	4,3	4,7	IOTA	16 sie, 02:36
Planned Observations						
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(28009) 1997 YY1	śr. 26 sie, 23:36 UT	7,1	10,4			
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(249680) 1999 VH227	sob. 05 wrz, 21:23 UT	9,9	7,7			
(23918) 1998 SH133	niedz. 06 wrz, 03:...	9,0	9,4			
(2996) Bowman	niedz. 06 wrz, 23:...	12,3	5,5			
(117131) 2004 PW60	pon. 07 wrz, 01:41 UT	8,5	10,4			
(1063) Aquilegia	śr. 09 wrz, 23:11 UT	12,9	2,8			

OW SkyChart Add-in Configuration

Set the path to SkyChart executable on your computer

C:\Program Files\Ciel\skychart.exe **1** Browse ...

FOV: 0.5 **2** (0.5 = my favorite)

PROJ: EQUAT **do not change projection**

About **3** OK Cancel

... and now re-start Occult Watcher

Right-click on the selected event

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Planned Observations							
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(396) Aeolia	śr. 26 sie, 01:23 UT	12,9	0,9			05 sie, 19:50 *	
(28009) 1997 YY1	śr. 26 sie, 23:36 UT	7,1	10,4			06 sie, 19:49 ***	
(30888) Okitsumisaki	czw. 27 sie, 20:50 UT	9,9	8,3			05 sie, 19:51 *	
(450) Brigitta	czw. 27 sie, 23:34 UT	10,6	5,2			06 sie, 19:49	
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(519) Sylvania	śr. 02 wrz, 00:32 UT	13,3	1,4	1,8	IBEROC	05 sie, 19:54	
(3319) Kibi	śr. 02 wrz, 01:31 UT	12,1	5,5	0,7	IBEROC	05 sie, 19:54	
(105203) 2000 OV41	śr. 02 wrz, 02:41 UT	11,6	7,1	1,3	IBEROC	05 sie, 19:54 *	
(65228) 2002 EH58	pt. 04 wrz, 02:34 UT	12,6	6,7	2,0	IBEROC	05 sie, 19:55 *	
(264123) 2009 TG33	pt. 04 wrz, 23:44 UT	12,8	6,7	0,7	IBEROC	05 sie, 19:56 *	
(249680) 1999 VH227	sob. 05 wrz, 21:23 UT	9,9	7,7	1,5	IBEROC	05 sie, 19:56 *	
(23918) 1998 SH133	niedz. 06 wrz, 03:00 UT	9,0	9,4	1,4	IBEROC	05 sie, 19:57 *	
(2996) Bowman	niedz. 06 wrz, 23:00 UT	12,3	5,5	0,9	ITALOccult	23 sie, 13:24 **	
(117131) 2004 FW60	pon. 07 wrz, 01:41 UT	8,5	10,4	0,7	IBEROC	05 sie, 19:57	
(1063) Aquilegia	śr. 09 wrz, 23:11 UT	12,9	2,8	2,4	IBEROC	05 sie, 19:58	

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

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Position: In the shadow, 1 km from the central line

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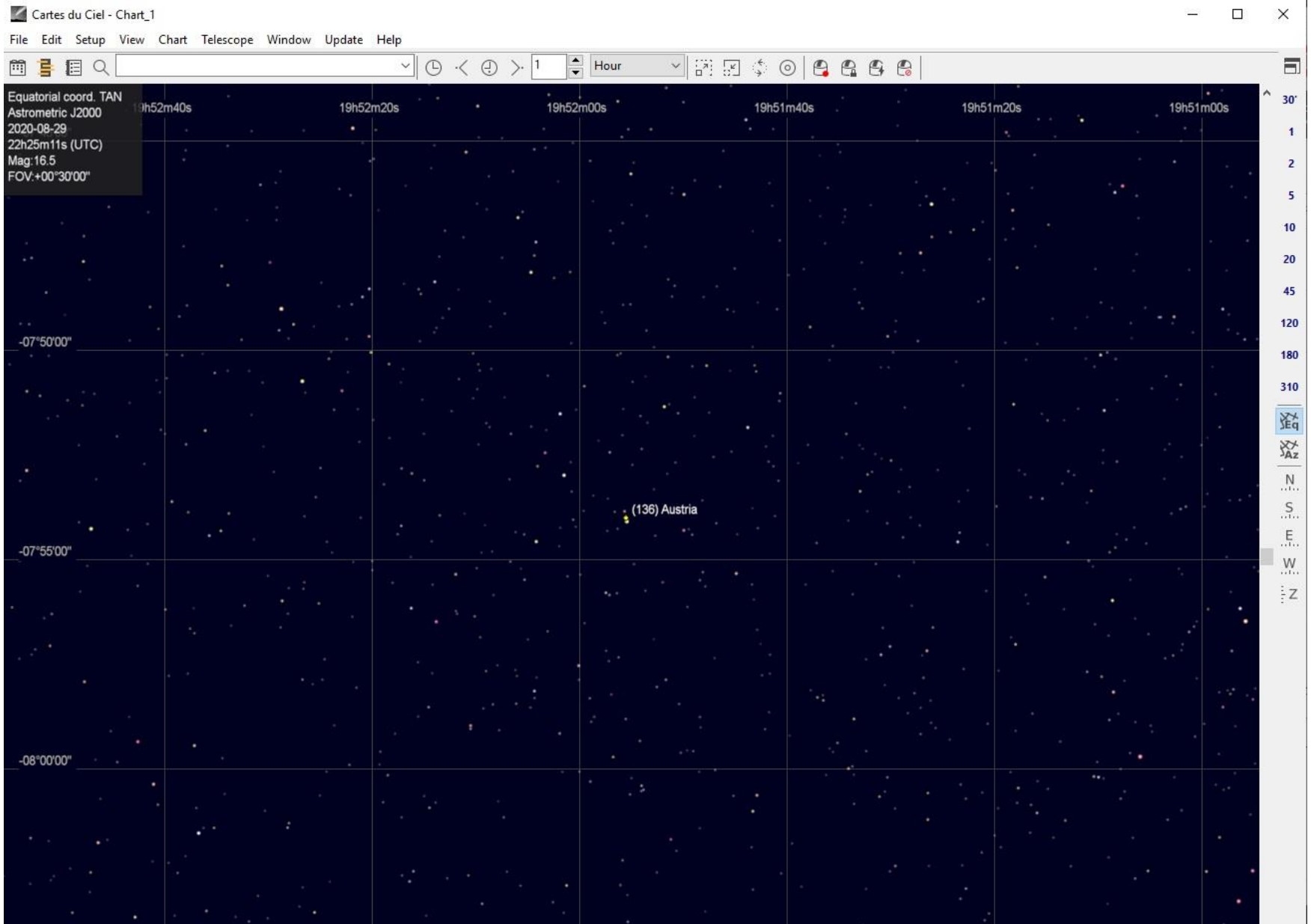
Event time: 22:25:11 UT
Error in time: 4 sec
Max duration: 6,7 sec

Combined magnitude: 10,2 m
Star magnitude: 10,3 m
Magnitude drop: 2,5 m

Constellation: Aquila
Star altitude: 21° SW
Sun altitude: -28°

Moon altitude: 8° SW
Moon distance: 16°

CdC default settings – poor view



CdC – try my basic settings

ADD CROSSHAIR/CCD FRAME

Setup -> Display -> Finder circle (eyepiece) -> select "Mark the centre of the chart" and select "Add a crosshair to the chart center"

Setup -> Display -> Finder rectangle (CCD) -> select "Mark the centre of the chart,,

In „Finder rectangle (CCD)“ section change camera settings to yours by double-click on circle

Set: Field of vision (Telescope focal length, Pixel size, Pixel Count) and Description

*Clicking once on the red circle changes it to green
and activates the visibility of the CCD frame in CdC.*

CHANGE CROSS HAIR/CCD FRAME COLOUR

Setup -> Display -> Colour -> select "Eyepiece" and change colour to red

CHANGE STAR SIZE

Setup -> Display -> Display -> set „Line mode“ -> set „Big stars“

CHANGE STAR COLOUR

Setup -> Display -> Colour -> set „White on black“

REMOVE COORDINATES GRID

Setup -> Display -> Lines -> unselect „Show coordinates grid“

CdC – try my basic settings

SHOW STAR LABEL/MAGNITUDES

Setup -> Display -> Labels -> Label object: Stars

(set "Magnitude difference" as 6, set "Colour" as **grey**, set "Size" as 12).

Setup -> Display -> Labels -> set button "Star label" as "Magnitude"

Setup -> Display -> Labels -> select "Display labels for all star catalogs"

CHANGE ASTEROID COLOUR

Setup -> Display -> Colour -> select „Asteroid" and change colour to **yellow**

CHANGE ORBIT COLOUR

Setup -> Display -> Colour -> select „Orbit" and change colour to **green**

SHOW ASTEROID ON MAP

Setup -> Solar System -> Asteroid -> select „Show asteroids on the chart"

Select „Proportional to the magnitude",

Show asteroids **4** magnitudes fainter than the stars, but never fainter than magnitude **18**

SHOW ASTEROID LABEL

Setup -> Display -> Labels -> Label object: Stars

(set "Magnitude difference" as 6, set "Colour" as **yellow**, set "Size" as 14).

CdC – try my basic settings: asteroid trail

SHOW ASTEROID TRAIL

View -> Trajectories Simulation -> Simulation

Press „None” and then select „Asteroid” only in „Plot orbital motion of solar system object”

Number of steps: **5**

Every: **-1**

Step unit: Hour

IMPORTANT - in the empty box enter ONLY the number of the asteroid you are observing

In this case is (136) Austria, then press „Filter” button

If you select all asteroids, the program will run extremely slow!

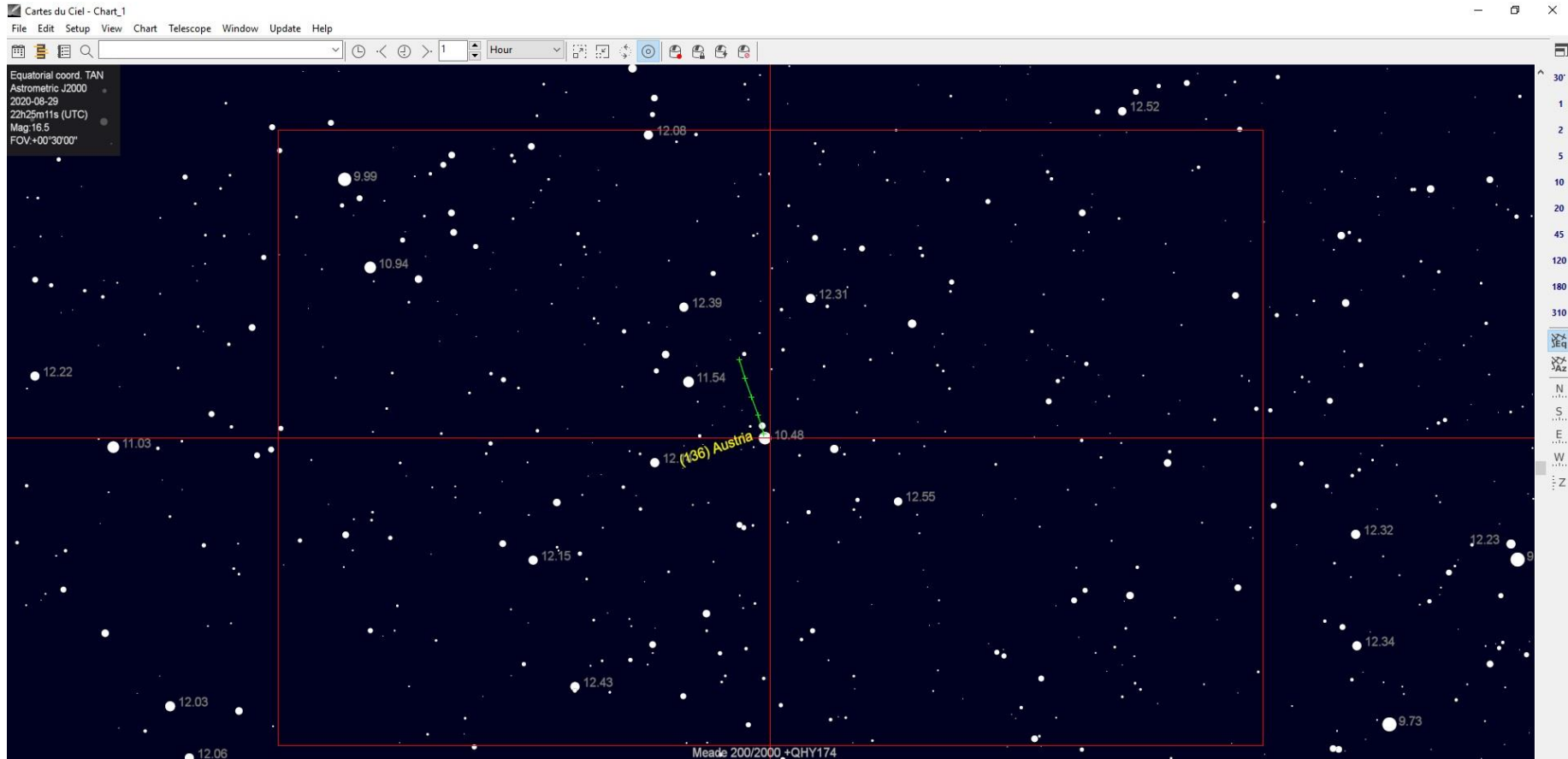
Show labels: select „Only the first”

Label text: select „Object name”

**These settings allow to display choosen asteroid motion against the background stars
up to 5 hours BEFORE the event.**

What do we get by applying all these settings?

My basic settings in CdC – better view ?



The presence of CCD frame, the brightness of some stars and the asteroid's trail before the event is a great help for me during the observation.

Should anything can be improved?

Do we need Stellarium Addin?



MEGAPIXL

Download from megapixl.com/18548023


Thank you for your attention !

Post scriptum

Occult Watcher, ver. 4.7.0.1 - LIPOWY MOST (UTC +02:00 DST)

Synchronise now Configuration Add-ins Help

Asteroid Name	Event Date, UT	Star Mag...	Magn Drop (V)	Max Duration	Feed	Last Updated	Shift	Ast...	Probability	Rank	Tra
My Events											
(136) Austria	sob. 29 sie, 22:25 UT	10,3	2,5	6,7	IOTA	16 sie, 02:39		12,7	58,3%	85	
(4610) Kajov	wt. 01 wrz, 20:30 UT	8,5	7,6	0,9	IBEROC	05 sie, 19:53		16,1	5,7%	11	
(249680) 1999 VH227								17,6	2,8%	6	
(23918) 1998 SH133								18,4	8,0%	17	
(117131) 2004 FW60								18,9	3,2%	6	
(10226) Seishika								16,9	5,1%	23	
(245) Vera								13,1	10,1%	69	
(111) Ate								13,5	55,8%	98	
(96) Aegle								12,8	45,5%	100	
(245) Vera								12,9	28,3%	100	
All Events											
(408092) 2012 HB69								21,2	1,9%	10	
(401446) 2013 CY135								20,8	0,4%	1	
(43847) 1993 QG5								18,8	2,1%	6	
(254141) 2004 PT60								20,3	0,9%	3	
(86435) 2000 CL9								18,1	1,8%	7	
(295701) 2008 TW174								20,8	2,8%	5	
(67199) 2000 CP96								18,1	6,2%	13	
(128821) 2004 RC306								20,9	1,7%	5	
(519) Sylvania								14,3	10,9%	53	
(3319) Kibi								17,6	5,3%	22	
(105203) 2000 OV41								18,7	1,8%	5	
(218296) 2003 QN54								18,3	4,9%	9	



(136) Austria occults TYC 5725-01093-1

Event time: 22:25:11 UT Combined magnitude: 10,2 m
 Error in time: 4 sec Star magnitude: 10,3 m
 Max duration: 6,7 sec Magnitude drop: 2,5 m

Position: In the shadow, 1 km from the central line
 There are currently 6 announced stations for this event.

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

(5) Burzynski W Home [High]
 W BURZYNSKI
 [No observation - Clouded out 17 mins before the event, setup ready for recording]
 <Right-click for more options>
 (3) Burzynski W Home [Medium]
 Wojciech Burzynski
 {10% cloud cover and stable weather forecast by '7Timer!'; 13°C; Moderate Wind}
 {24% cloud cover forecast by 'Meteoblue'; 14°C; Light Wind}

Maciej Borkowski, Kleosin near Białystok – ready but clouded out as well