Uploading light curves to Occult4



Available light curves

 Date and Observer
 Circumstances

 Date: 2014 Mar 9
 Ass angle: 7756 dc?

 Libration 1: 3026
 Ass angle: 7756 dc?

 Libration 2: 3026
 Ass angle: 7756 dc?

 Libration 1: 3027
 Ass angle: 7756 dc?

 Libration 2: 3026
 Ass angle: 7756 dc?

 Libration 2: 3027
 High dape: 1106°

 Normal motion: 0.0647 /vec
 Normal motion: 0.0647 /vec

 Observer: A P Patt
 Longbude: 136 250 15.4

 Lattude: 4: 350 15.4
 Attude: 4:5°

 Hp
 ● SA0
 Tyc2

 XZ
 ZC
 2UC

 KZ
 4UC
 Asteroid#

 Observer
 For: 95419

 13915
 395419 - 2014 Mar 09

Alex Pratt IOTA-ES BAA Dave Herald



Occult4 – Dave Herald (Murrumbateman, Australia)



General maintenance functions – General downloads



Download observed light curves

🛃 Download	ds :: Gene	eral downloads, Files for astero	oid predictions, Static data files		\times
3 items	s tagged f	or downloading	Cancel download Help	Exit	~
Genera	al downloa	ads			
10 Aug 2016	Download	1 EOP 1962 to now	Earth Orientation Parameters, giving daily values of UT1-UTC, and polar motion. For accurate lunar reductions, this should be updated weekly.	ЗМВ	
17 Oct 2013	Download	2 Comet elements	Orbital elements of currently visible comets. Update as required	39kB	
3 Jul 2016	Download	3 Asteroid observations	File containing the observations of asteroid occultations. It is usually updated monthly. Download to access the latest observations.	400kB	
7 Jul 2016 7 Jul 2016	Download	4 deltaT tables	File containing the difference between UTC and terrestrial time (generally referred to as del Updates are irregular. Download each year around 1 March and 1 September.	^{taT).} 2kB	
29 Jun 2016	Download	5 Latest Lunar observations	This adds the most recent lunar occultation observations to the historical files. [No files available before 2009.]	~100KB	
9 May 2016	Download	6 Binary asteroids	Details of binary asteroids - for asteroid predictions. Update every six months	4kB	
15 Mar 2015	Download	7 Asteroid rings	Details of asteroid ring systems. Update yearly	0.2kB	
6 Dec 2013	Download	8 Asteroid diameters	Diameters of asteroids - for asteroid predictions. Update yearly	351kB	
16 Jan 2016	Download	9 Future.dat	Steve Preston's files of asteroid occultation elements - covering the next 4 to 6 weeks	200kB	
Dowr	nload All the	above	Download all the above files in this group (Reporting addresses must be done seperately)	l	
11 Aug 2015	Download	10 Reporting addresses for occultations	Lunar occultation reports, and Light Curve reports, need to be emailed to certain addresse This file is automatically updated at start-up, if you are connected to the internet.	15.	
18 Dec 2014	Download	11 Camera delays	A list of video cameras and their corrections for internal delays. Used in AOTA		
28 Jul 2016	Download	12 Observed light curves	Light curves from occultations	several MB	

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Viewing a light curve

Recording Timer

View / analyse

historical Occultations

1623 - now

List events involving

Kepler2 stars

List missing grazes

Administrator function

😪 Program updates...

Х

× Exit

Plot observations

against the

Lunar Limb

Analyse for star

position

Process new

🕜 Help

Lunar Occultation Observations

Add / Edit / Plot

observed

Lunar Occultations

View / analyse

historical Grazes

1706 - now

Solve double star

PA and separation

View a light curve

Close all Lunar Observation forms



Viewing a light curve

th Prediction V Set Output filter Mag limit adjustment Solutions Set Output filter Mag limit adjustment Set UT dates Set Output filter Set UT dates Set Output filter Set Output filter Month Day Starting at Start
1. Select site for predictions 2. Star cat. 3. Objects 4. Set UT dates 5. Events for Site 6. Events anywhere Use home Leeds site ✓ XZ ✓ Stars Stars 5. Events for Site 6. Events anywhere 0 XZ ✓ Planets 9 Planets Start 0. Coultations 0. Coultations 0. Coultations
Use home Leeds site XZ Stars • XZ • XZ • Stars • XZ • XZ • XZ • Stars • Stars • • • • • • • • • • • • • • • • • • •
Use home -3.6 to 0.4, 51.8 to 55.8
-3.6 to 0.4, 51.8 to 55.8
Set home V7 < mag 7 Asteroids
Leeds \checkmark \bigcirc $22 \ (mag \ / \ Leeds$ End $2016 \ \bigcirc \ Aug \ \lor 31 \ \lor \ + 6 hrs \ \bigcirc$
Use single Z C 100 4 Grazes only Year Month Day Today +12hrs
Apply Filter
ht-lick on prediction for further options [2016 Aug 31]
cultation prediction for Leeds
Longitude - 1 36 2/.9, Latitude 53 50 15.5, Ait. 105m; lelescope dia 30cm; 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
m d h m s NoD v rVill AltAltAz o o o o L B m/om/o"/s o sec h m s o m s Mm m/s
Aug 6 10 52 24.6 r 1712SF8 3.6* 3.3 144 40 50 40 400 600 000 000 047 44 5 4 +0.7+1.6 .425 -160.9 11 50 41.7 1 45 53 395.1 861.1
R1712 = Zavijava = beta Virginis 🔄 Copy single line {event}
1712 is triple: AB 3.6 10.6 331" 286.1 Moon map 46sec
Aug 7 20 18 8.3 d 1849cF5 6.1 5.9 +0.6-1.5 .365 35.2 12 53 11.2 -3 33 11 400.2 866.0
R1849 = 38 Virginis Place event into Recording Timer -5 sec, +4 sec
1849 is double: AB 6.1 0.50" 132.
1849 is a close double. Observations a 🐨 Flatenex to events into Recording filmer
Aug 10 21 26 32.8 d 159111 G1 7.5 7.1 Select time offsets for Recording Timer + +1.0-2.3 .302 -41.6 15 13 47.1 -14 1 22 402.7 787.9
Aug 14 19 46 6.4 d 2699 M3 6.8 5.8v +1.4+0.9.377 17.5 18 35 23.7 -19 16 7 389.2 747.3
2699 = V4401 Sgr, 6.64 to 6.77, Hp, Tyi Star details
Aug 14 20 52 25.7 d 1616655wG8 7.0 6.2 Double and Variable details +1.5+0.6 .337 29.6 18 37 7.1 -19 12 34 388.8 731.3
161665 is double: AB 7.2 13.0 10.6" 240.1
Aug 14 21 1 37.3 d X 44341 K5 7.5 6.6 Observed light curves +1.5-0.2 .362 -21.0 18 37 27.7 -19 25 29 388.7 730.9
Aug 15 0 12 22.0 d 2715cM4 6.3* 5.5V +1.0-1.5 .414 -16.5 18 42 55.1 -19 17 3 389.1 815.7
2715 is double: AB 6.7 9.3 0.60" 54.0 Compute predictions for 2016 Aug 6
2715 is a close double. Observations af
2715 = V3879 Sgr, 6.05 to 6.58, V, Type SRB, Period 50. days
Aug 15 23 57 5.3 D 2865 K0 5.7 5.0 93+ 149 14 207 56N 52 36 63 -5.7 -4.4 +1.0-0.2 .377 26.9 19 37 3.3 -18 13 52 383.5 787.4
Aug 16 22 44 8.0 d 163639 F6 7.8 7.5 97+ 161 20 177 72N 64 66 80 -5.4 -3.2 +1.3+0.4 .408 12.5 20 30 39.7 -16 33 3 378.2 766.1
Aug 16 23 46 45.4 d 2997670 7.2 97+ 162 19 193 72S 101 93 116 -5.5 -3.2 +1.5-0.6 .383 -25.4 20 32 31.6 -16 36 35 378.1 777.7
2997 is double: AB 7.94 8.04 0.28" 128.6, dT = +0.6sec
2997 is a close double. Observations are highly desired
Aug 1/ 1 38 59.1 d 3005 A5 6.2 6.1 98+162 12 219 385 134 112 150 -5./ -3.2 +1.8-2.9 .226 -60.5 20 35 32.3 -16 31 33 3/8.5 843.0
Distance of sous to terminator = 17.57, to skm sumit peak = 6.7°
, ANG 15 0 05 5.2 1 S200 AU /.2 0.4 100- 1/2 20 150 055 224 221 24/ -4.3 -0.2 TLUTU./ .410 -150.1 22 24 /.0 -10 11 52 305.0 501.8
Distance of 52 to 0 \pm 2412 M2 4 0 3 Am Subit peak = 0.0"
, mug 12 61 0 72 mil 0712 mil 772 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
2412 - Net 5044 + 2 + 6 + 22 Hz
Distance of 2412 to Tarminator = 0.0": to 3km suplit mask = 0.0"
Source of other of relations of the same sentite peak - 0.0

Light Curve Viewer – asteroidal occultation



Light Curve Viewer – asteroidal occultation



Plot scale	Star	Date and Observer	Circumstances	Select Catalog & star
Horizontal 2.7 🚖	HIP 13832 SAO 56036 TYC 2846-945-1	Date: 2014 Dec 18 UT at start: 14h 15m 37.63s Duration: 32.33 secs # points: 486 Interval: 0.0667 secs	Asteroid: (702) Alauda	 ○ Hip ● SA0 ○ Tyc2 > XZ ○ ZC ○ 2UC ○ K2 ○ 4UC ○ Asteroid#
Available light curves 2060		Observer: D. Gault Longitude: +150 38 27.9 Latitude: -33 39 51.9 Altitude: 286m		Observer name For: 95419 56036 - 2014 Dec 18 >

Light Curve Viewer – lunar occultation disappearance



) Tyc2) 2UC) Asteroid#

Light Curve Viewer – double star disappearance



Plot scale	Star	Date and Observer	Circumstances	Select Catalog & star
Horizontal 6.8 🜩	SAO 98347 TYC 815-1326-1 XZ 13791	Date: 2013 Apr 19 UT at start: 21h 54m 7.25s Duration: 7.72 secs # points: 194 Interval: 0.0400 secs	Axis angle: 75.896° Libration I: -6.013° Libration b: 7.577° Limb slope: 3.89° Normal motion: 0.3924"/sec	 ○ Hip ● SA0 ○ Tyc2 ○ XZ ○ ZC ○ 2UC ○ K2 ○ 4UC ○ Asteroid#
Available light curves 2060		Observer: A R Pratt Longitude: -1 36 28.0 Latitude: +53 50 15.4 Altitude: 114m	Moon size: 0.982 Position angle: 92.58° Cusp angle: 77N° illumination: 63% Moon altitude: 36°	Observer For: "" name 98347 98347 - 2013 Apr 19

Light Curve Viewer – (345) Tercidina occultation



Plot scale	Star	Date and Observer	Circumstances	Select Catalog & star
Horizontal 2.5 🜩	HIP 19388	Date: 2002 Sep 17 UT at start: 0h 45m 15.09s Duration: 10.66 secs # points: 534 Interval: 0.0200 secs	Asteroid: (345) Tercidina	 ○ Hip ○ SA0 ○ Tyc2 ○ XZ ○ ZC ○ 2UC ○ K2 ○ 4UC ④ Asteroid#
Available light curves 2060		Observer: Oliver Kloes, Stefan Messer Longitude: +8 10 16.3 Latitude: +48 21 18.3 Altitude: 762m		Observer For: KLOES Name kloes 345 - 2002 Sep 17 V

Light Curve Viewer – (134340) Pluto occultation



Plot scale	Star	Date and Observer	Circumstances	Select Catalog & star
Horizontal 2.2 🜩	4UCAC 347-165728	Date: 2015 Jun 29 UT at start: 16n 51m 6.05s Duration: 191.98 secs # points: 601 Interval: 0.3200 secs	Asteroid: (134340) Pluto barycenter	 Hip SA0 Tyc2 XZ ZC 2UC K2 4UC Asteroid#
Available light curves 2060		Observer: B. Loader Longitude: +172 06 24.4 Latitude: -43 28 52.9 Altitude: 0m		Observer For: HERALD 134340 134340 - 2015 Jun 29

Reporting a light curve - Lunar

- Enter the observation into the OCCULT Lunar Observations editor, in the usual fashion
- After the observation has been entered, make sure the observation entry is highlighted in the Events screen – then click the menu item



Reporting a light curve – Lunar (2)

- Occult generates all the information required to support the observation
- All you need to do is copy the light curve as a CSV file from Limovie
 Image: All you need to do is copy the light curve as a contract of the file of the second contract of the second contex of the second contract of the second contract of the second

Plot control	Plot scale	Set region to	Lunar O Ast	eroid		S158869_20000613_105000-00.da
Include lines for:		archive	Star	Date and Observer	Circumstances	Save this report
Comp 1 Comp 2 Comp 3 Comp 3 Comp 1	1 5 10 15 Vertical 1.00 🜩	Start End	HIP 72758 SAO 158869 TYC 5582-523-1 XZ 20710	Date: 2000 Jun 13 UT at start: 10h 50m 0.00s Duration: 0.00 secs # points: 0	*** No light curve data *** Axis angle: 165.954° Libration I: 5.417°	Email multiple saved reports
Bckgmd Plot as running average point	Integrity check Set time scale Integration Binning Normalisation	# data pts To set, click Mouse at the start point, then the end point		Interval: 0.0000 secs Observer: David Herald Longitude: +149 03 44.6 Latitude: -35 23 54.8 Altitude: 583m	Libration b: -6.776° Limb slope: -9.63° Normal motion: 0.1594"/sec Contact angle: -62.27° Moon size: 0.981 Position angle: 182.42° Cusp angle: 21S°	Save & Email this report Set CC addresses

Paste CSV data set

Reporting a light curve – Lunar (3)

 Select the start and end of the segment of the light curve to be reported



Reporting a light curve – Lunar (4)

- Click Save this report to save on your PC
- Periodically, click *Email multiple saved reports* to submit them. Occult will periodically remind you.
- Default reminder interval is one month

Light curves due for upload



You have 5 light curves that are due to be uploaded.

Yes

No

Do you want to do the upload now?

Reporting a light curve – Asteroids

 From Asteroid Observations tab, click Light curves – Report



• This will open the Light Curve report form, with some changes specific to asteroids.

Reporting a light curve – Asteroids 2

- First step Paste (or open) the light curve report
- Second step click Set event & observer details

and then enter the details.

Enter event details	×
Details of the ast	eroidal occultation
Date of the event (UT)	Star
Year Month Day 2016 ♀ Mar ∨ 18 ∨	Catalogue Hipparcos ~
Asteroid	Number
Number Name	Star ID's (from coordinates)
-1	h m s o ,
Site	from Star
E. Longitude	Get IDs from coords
Latitude	Hip 0 Tyc 0-0-1
Altitude (msl) meters	SAO 0 K2 0
Observer	
Set as defaults Use defaults	Transfer data and Exit Cancel

- Site details can be set as default values
- Click Get coords from Star to retrieve equivalents
- Click Transfer data and Exit when done

Reporting a light curve – Asteroids 3

- Select the start and end of the segment of the light curve to be reported – as per lunar occs. However the light curve will usually be *much* longer
- Save as per lunar occs. The light curve will be saved in the same location as lunar light curves
- Submit in same manner as for lunar light curves

General maintenance functions – User settings – Email settings

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4. Ema	il settings;	Download ad	ldresses; 、	JPL-DE422		
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Occultation light curves now on VizieR !!!

- VizieR catalogue: B/occ
- Can query using Star ID, observer name, and more...
- Can plot, by clicking the LCxxx Seq no.
- 1671 light curves, soon to exceed 2000.
- ALL OBSERVERS ARE ENCOURAGED TO SUBMIT LIGHT CURVES FOR ARCHIVING!

Example VizieR plot & options

B/occ Star Occultation (2015-08-27T08:39:11, seq=939)

