ESOP XXXVIII Paris

"Observing asteroid & lunar occultations from inside a tipi"

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Sparta Astronomy Association

MPC/C68 - Ellinogermaniki Agogi School Observatory

IOTA-ES

Royal Astronomy Association of Canada

Club des astronomes amateurs de Laval-QC

Société Astronomique de Liège

2013-2016 : saw many tipis in Canada!

What is a **tipi** (or teepee)

The tipi is a a portable conical tent made of skins, cloth, or canvas on a frame of poles, used by North American Indians of the Plains and Great Lakes regions.

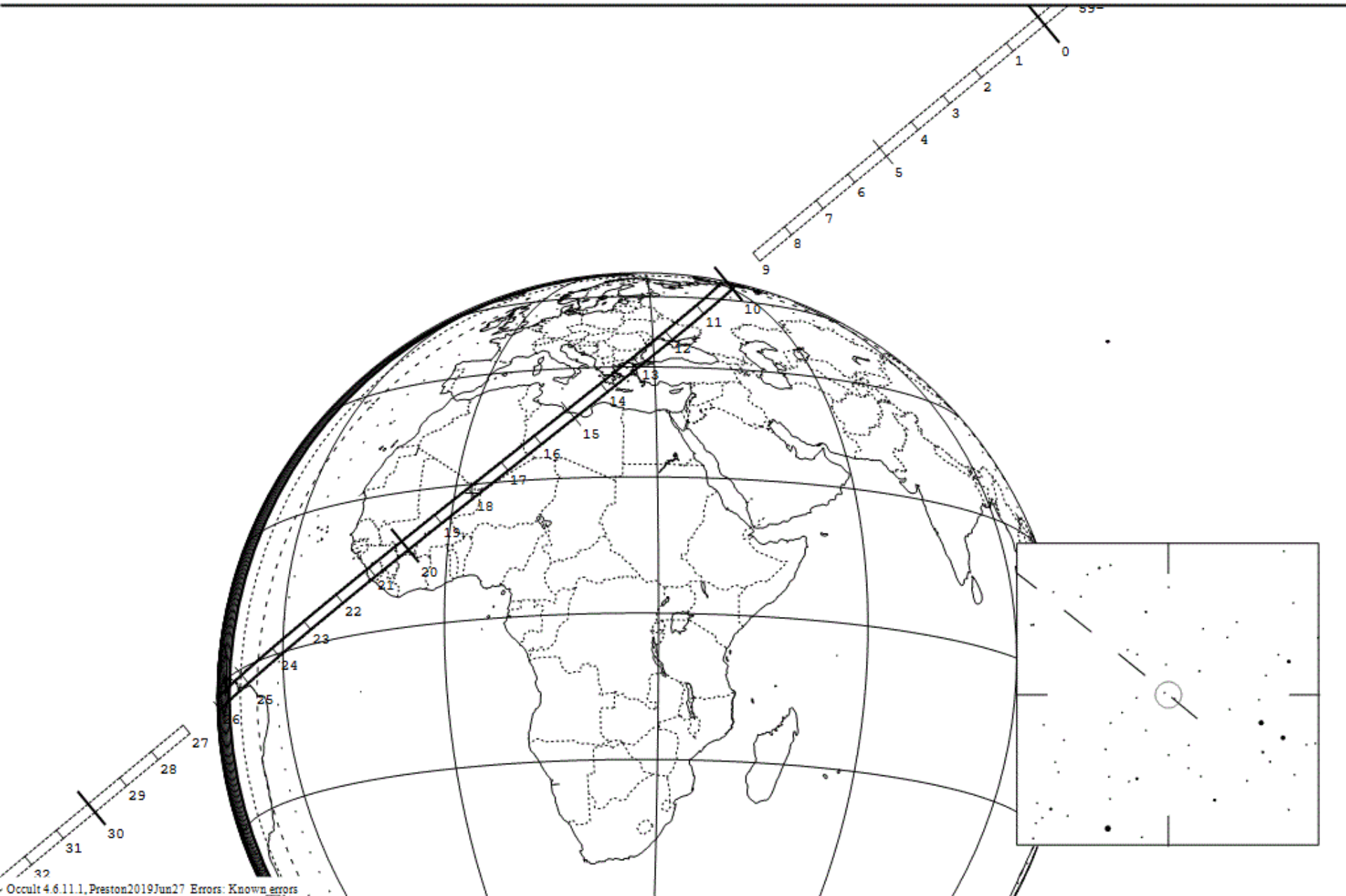
The word **tipi** comes into English from the Lakota language.The Lakota word **thípi** [ˈtʰipi] means "a dwelling" or "they dwell", from the verb **thí**, meaning "to dwell".

39 Laetitia occults UCAC4-394-125258 on 2019 Aug 27 from 21h 10m to 21h 26m UT

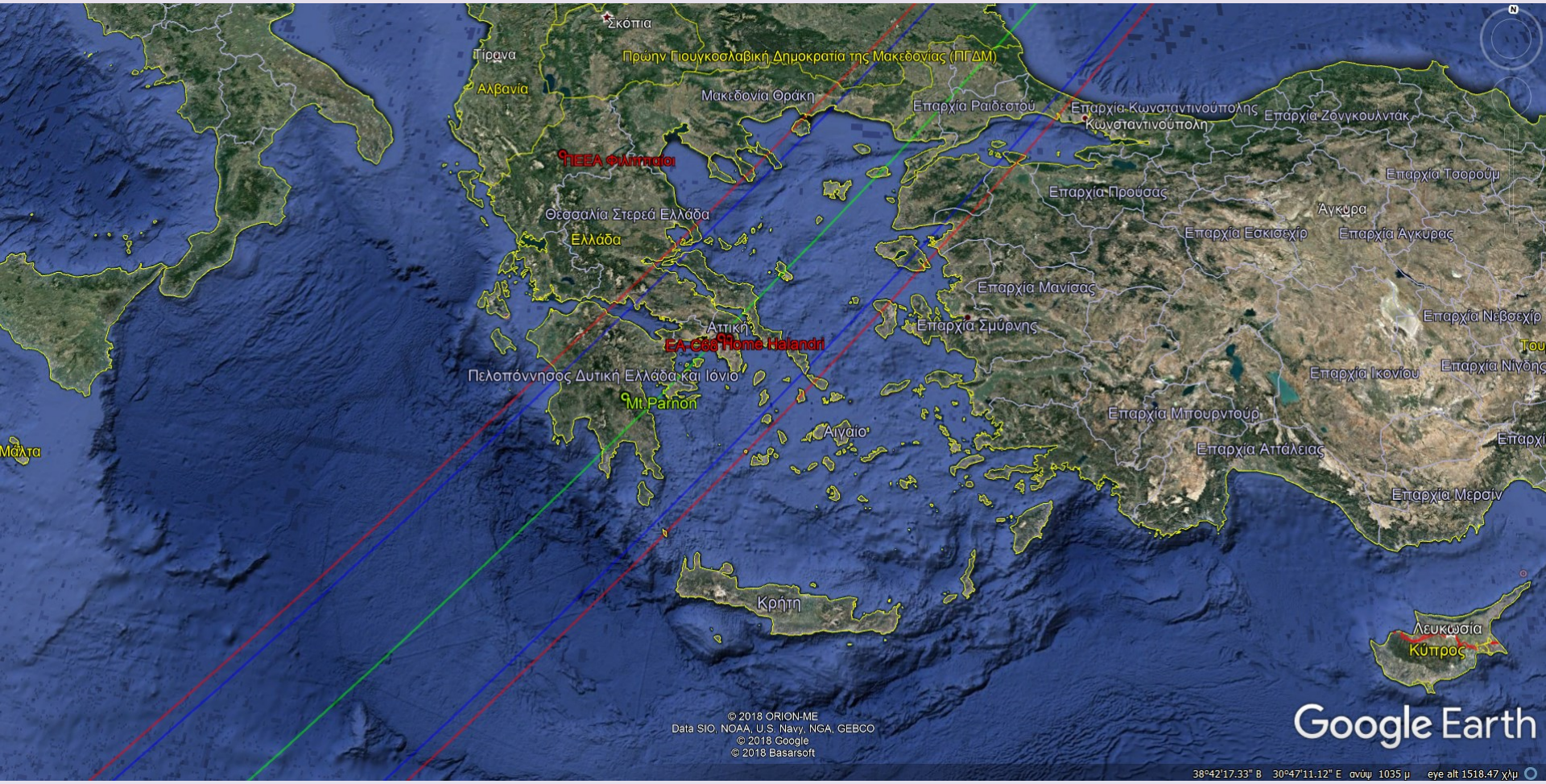
Star:
Mag V = 11.3
RA = 21 30 43.9726 (BCRS)
Dec = -11 23 5.435 ...
[of Date: 21 31 48, -11 17 49]
Prediction of 2019 Jul 21.0

Max Duration = 15.6 secs
Mag Drop = 0.17 (0.00r)
Sun : Dist = 167°
Moon: Dist = 156°
: illum = 10 %
E 0.018"x 0.010" in PA 81

Asteroid: (in DAMIT, ISAM)
Mag = 9.4
Dia = 161km, 0.146"
Parallax = 5.768"
Hourly dRA =-1.756s
dDec =-21.41"



Occult 4.6.11.1, Preston2019Jun27 Errors: Known errors


Σκόπια
Τίρανα
Αλβανία
Πρώην Γιουγκοσλαβική Δημοκρατία της Μακεδονίας (ΠΓΔΜ)
Μακεδονία Θράκη
Επαρχία Ραιδεστού
Επαρχία Κωνσταντινούπολης
Κωνσταντινούπολη
Επαρχία Ζονγκουλντάκ
ΠΕΕΑ Φιλιππαίοι
Επαρχία Προύσας
Επαρχία Τσορούμ
Άνκυρα
Θεσσαλία Στερεά Ελλάδα
Ελλάδα
Επαρχία Εσκισεχίρ
Επαρχία Άνκυρας
Επαρχία Μανίσας
Επαρχία Σμύρνης
Επαρχία Νεβσεχίρ
Αττική
ΕΑ Cea Home Halandri
Πελοπόννησος Δυτική Ελλάδα και Ιόνιο
Επαρχία Ικονίου
Επαρχία Νίγδης
Mt Parnon
Επαρχία Μπουρντούρ
Αιγαίο
Επαρχία Αττάλειας
Μάλτα
Επαρχία Μερσίν
Κρήτη
Λευκωσία
Κύπρος
© 2018 ORION-ME
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2018 Google
© 2018 Basarsoft
Google Earth
38°42'17.33" Β 30°47'11.12" Ε ανύψ 1035 μ eye alt 1518.47 χλμ

[IOTA Updates] (39) Laetitia occults UCAC4-394-125258, Τετ 28 Αυγ, 00:13, 41° S, Combined: 9.1-9.5 m, Drop: 0.1 m

Preferred Sites | Print

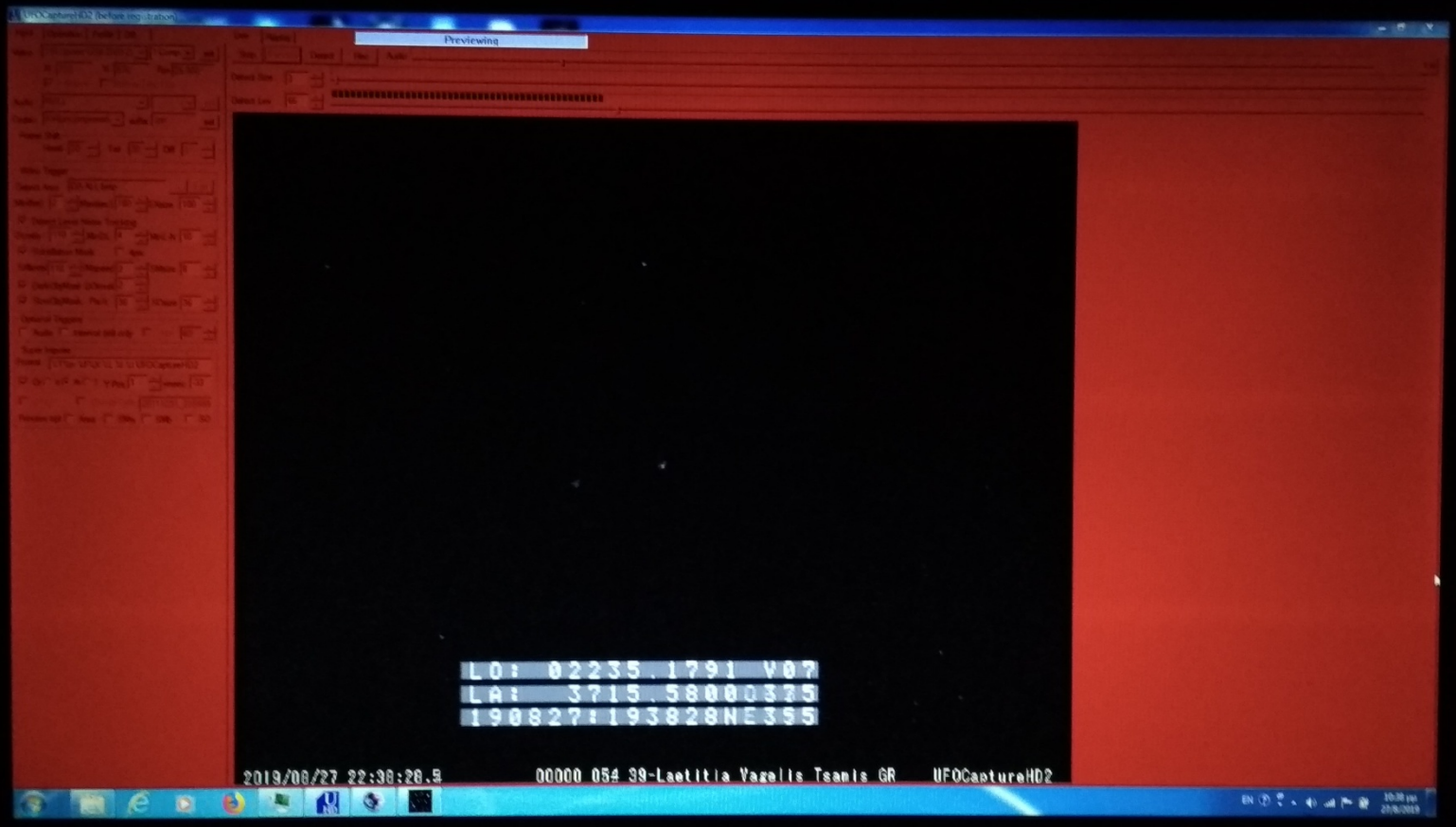
1

Observing locations currently announced by other observers:

Site resolution: 2.4 km

1 = Mt Parnon observing site

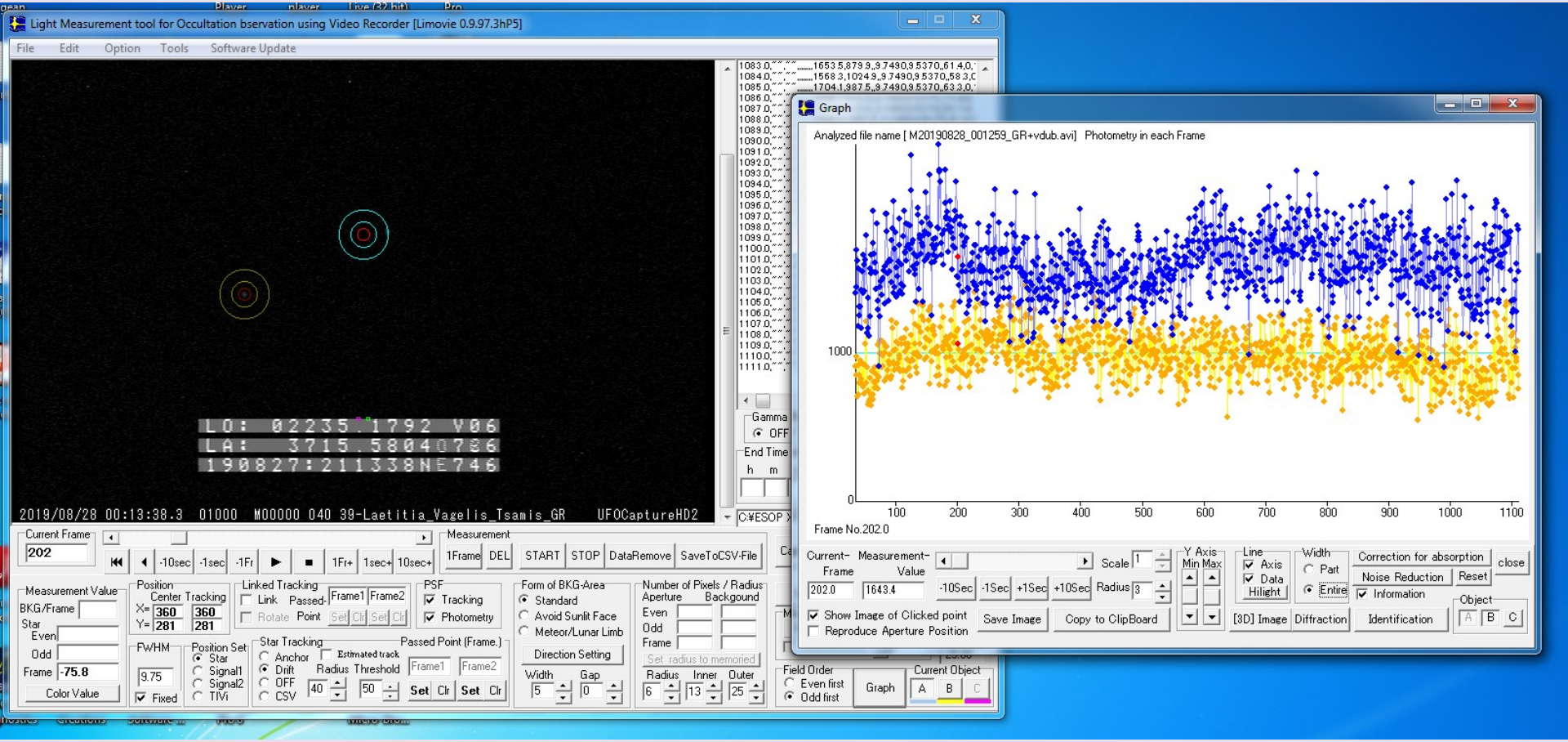
Right click on the map to define another observing site or click on your already announced observing site to edit it.


Previewing
LO: 02235.1791 V07
LA: 3715.58000335
190827:193828NE355
2019/08/27 22:38:28.5
00000 054 99-Laetitia Yagalis Tsanis GR
UFOCaptureHD2

LiMovie photometry
D= UT 21:13:38.6 ± 0,2 sec
R = UT 21:13:53.4 ± 0,2 sec

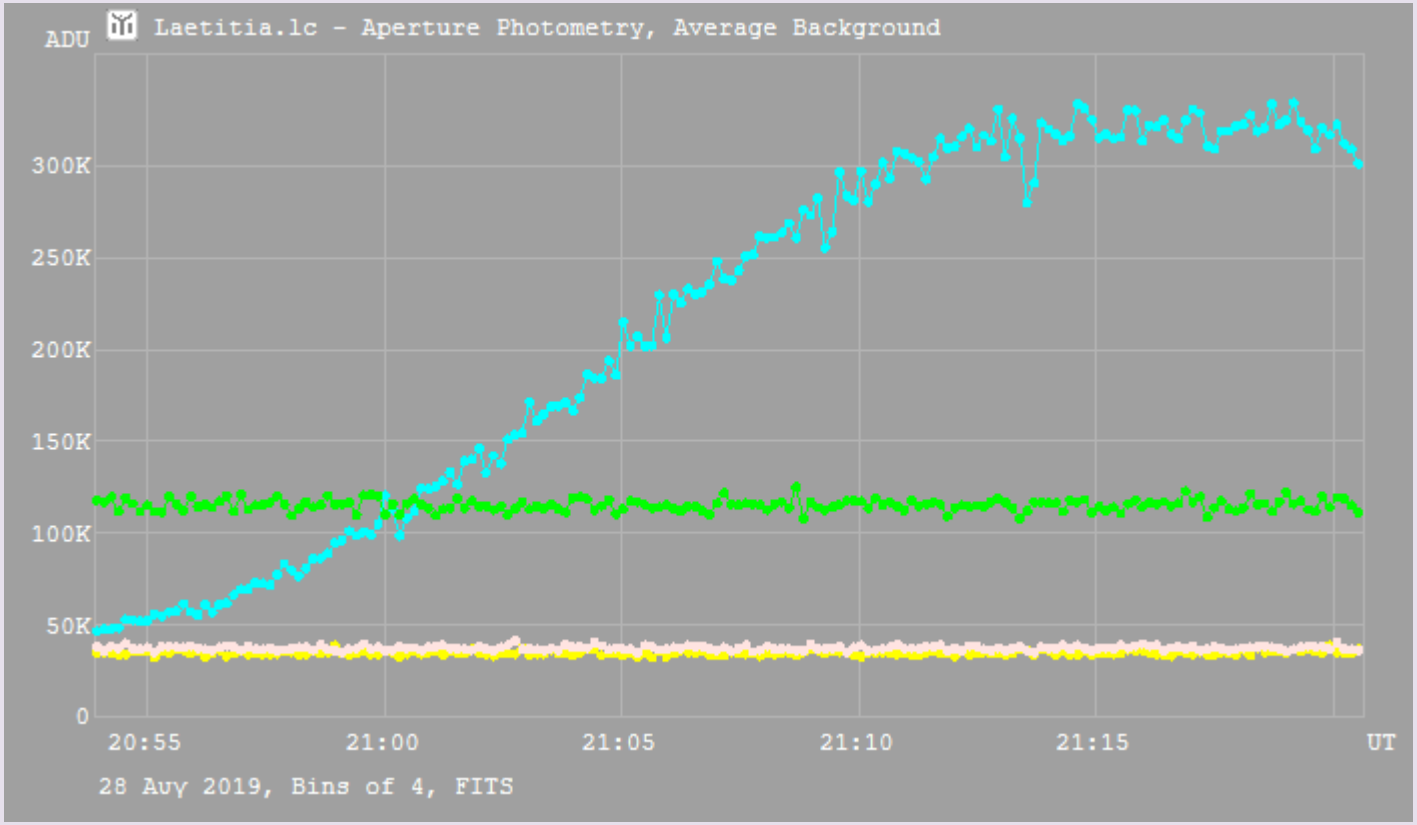
TELESCOPE: Meade ETX-125
Type: Maksutov-Cassegrain
Aperture: 125mm
Mount: GOTO fork mount

TIMING & RECORDING:
Time source: GPS 1pps
Sensor: Watec 902 H2 Ultimate
Recording: UFO-Capture software
Time insertion:
TIM-10 GPS Video Time Inserter



New occultation observer!

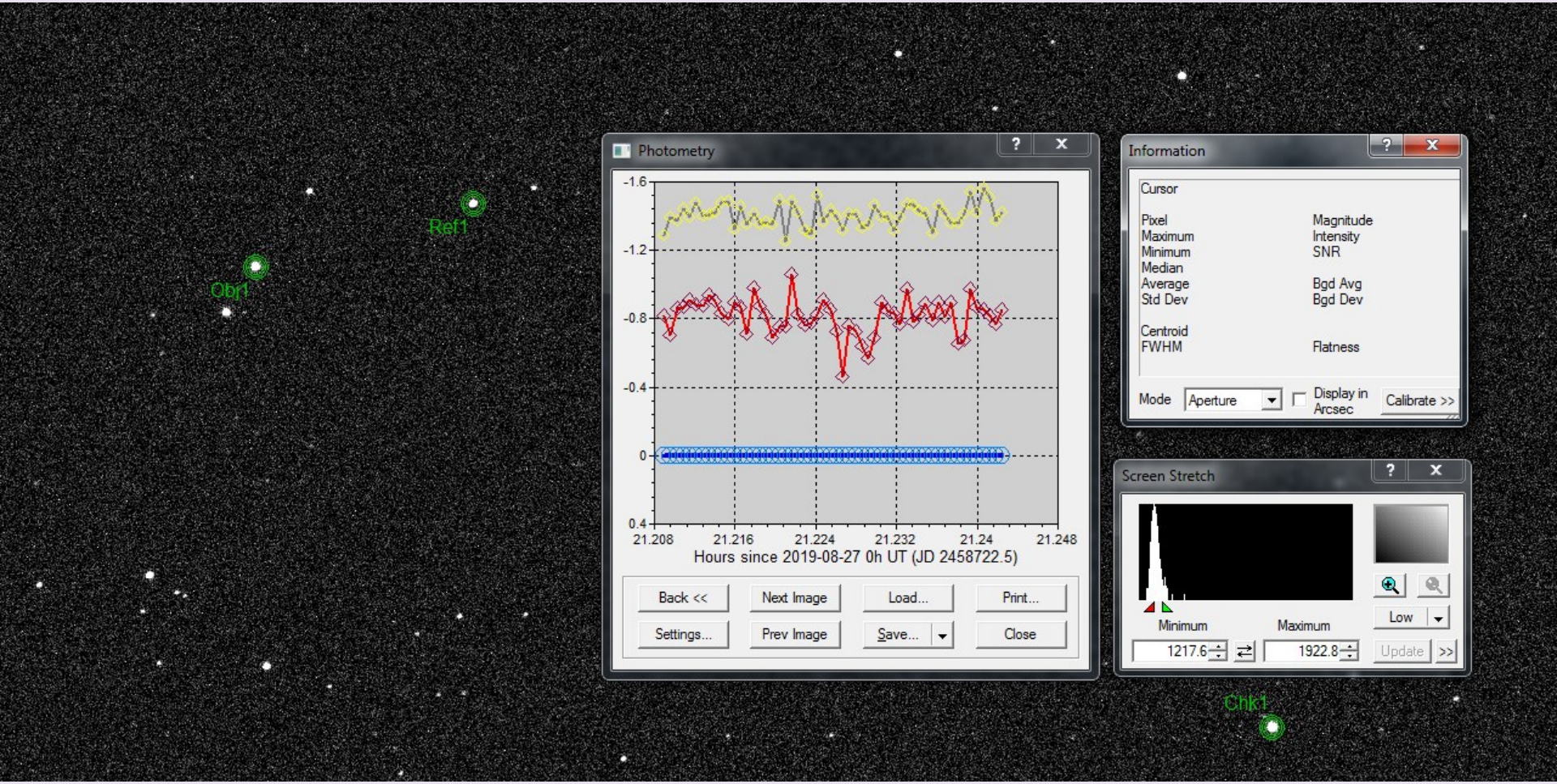
George Karantzalos



OBSERVING STATION: Nearest city: Athens GR
Station:
Longitude (37 56 54.7s)
Latitude (24 00 3.28s)
Altitude (m) 70

TELESCOPE: Type:Refractor Aperture: 65 /420
Mount:HEQ5Ppro
Sensor: ASI183 MMPro Recording:Sharpcap3.2

Analysing George's fits with MaximDL
D = UT 21hr13min 33.5sec ± 1 sec
R = UT 21hr13min 47sec ± 1 sec
Duration 13.5 sec ± 2 sec

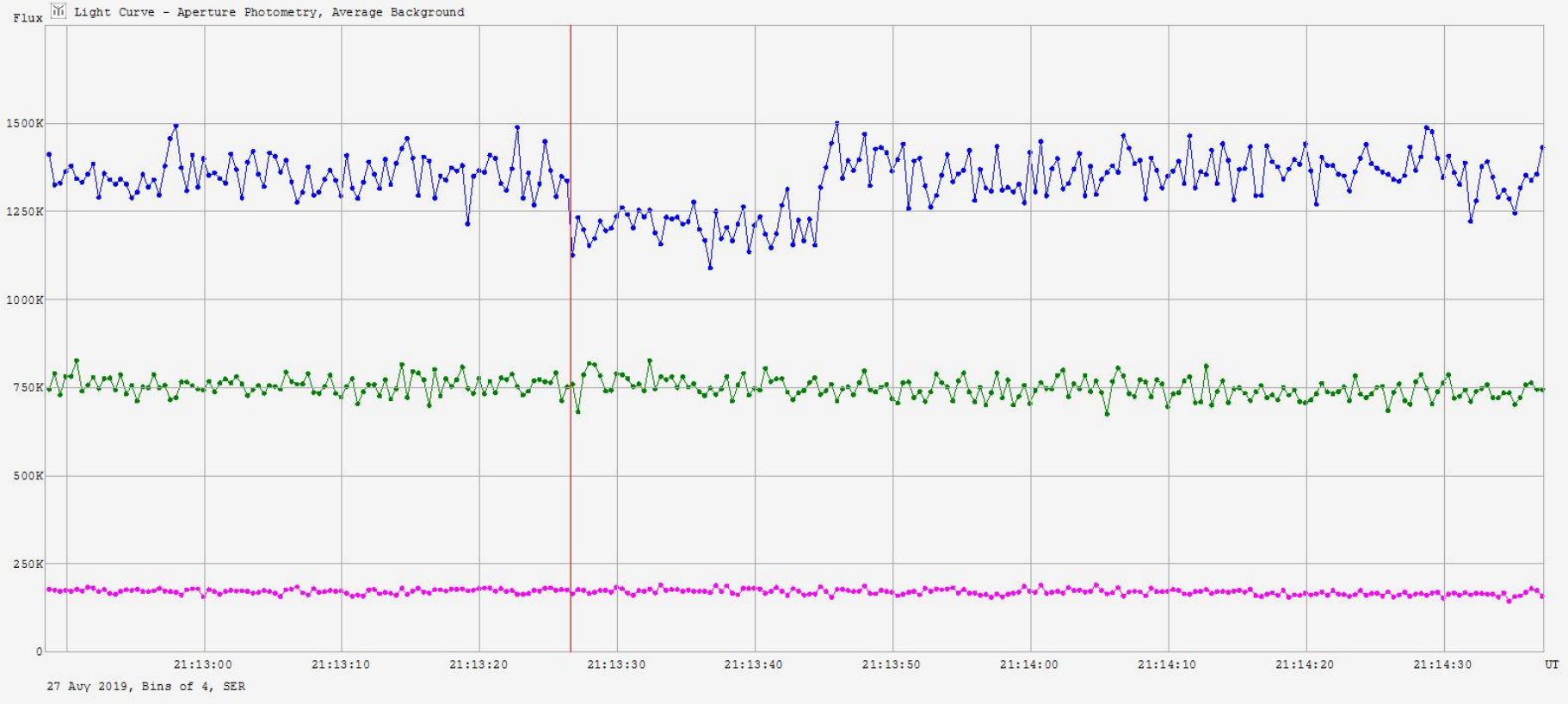


Laetitia occultation light curve

Manos Kardasis

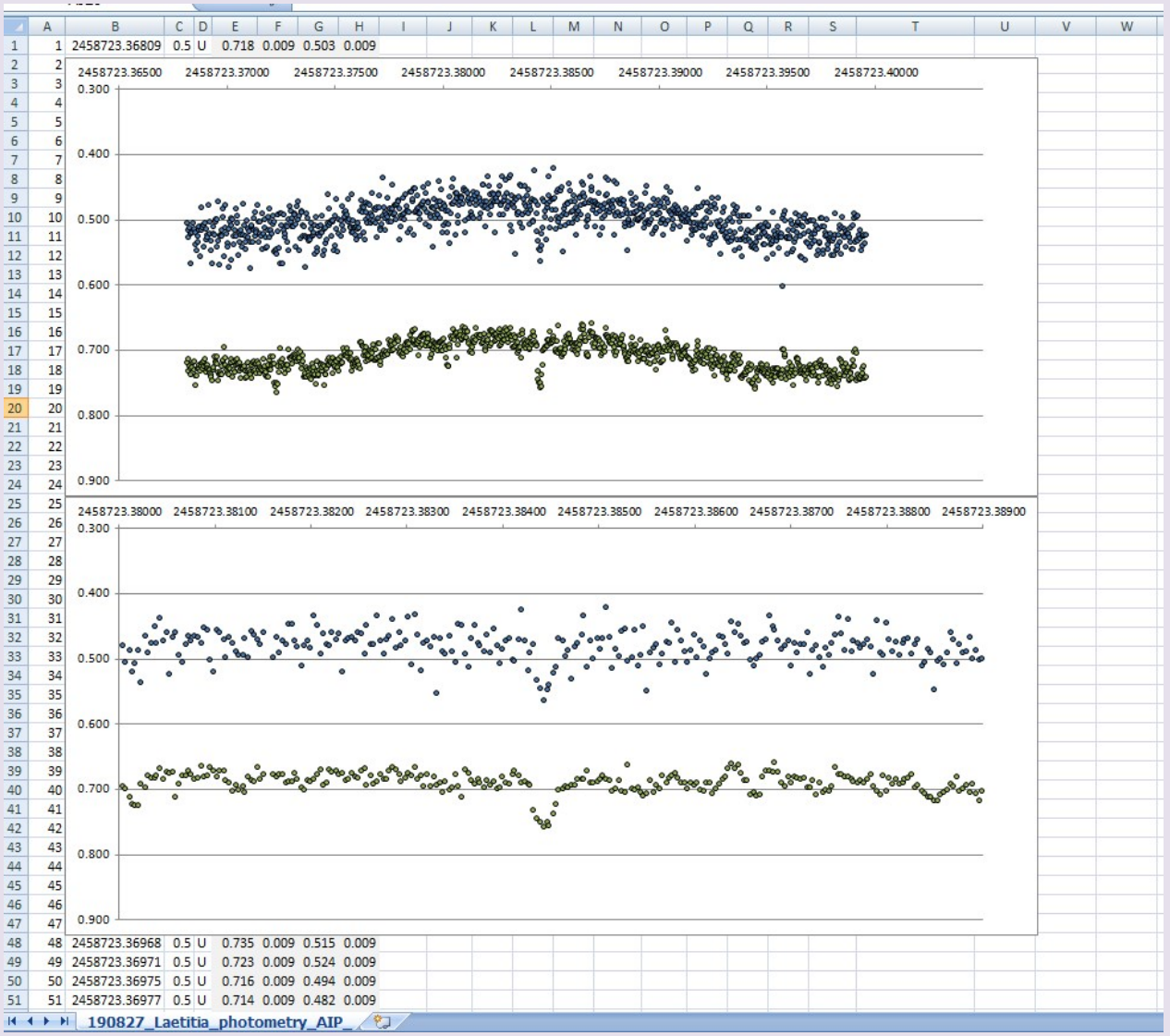
Location: Glyfada, near Athens GR

full report to be reeived soon



Kosmas Gazeas
University of Athens Observatory
Section of Astrophysics, Astronomy and Mechanics - Department of Physics
Coordinates: 37°58'06.8"N 23°47'00.1"E (37.968561, 23.783368)
Altitude: 250 m

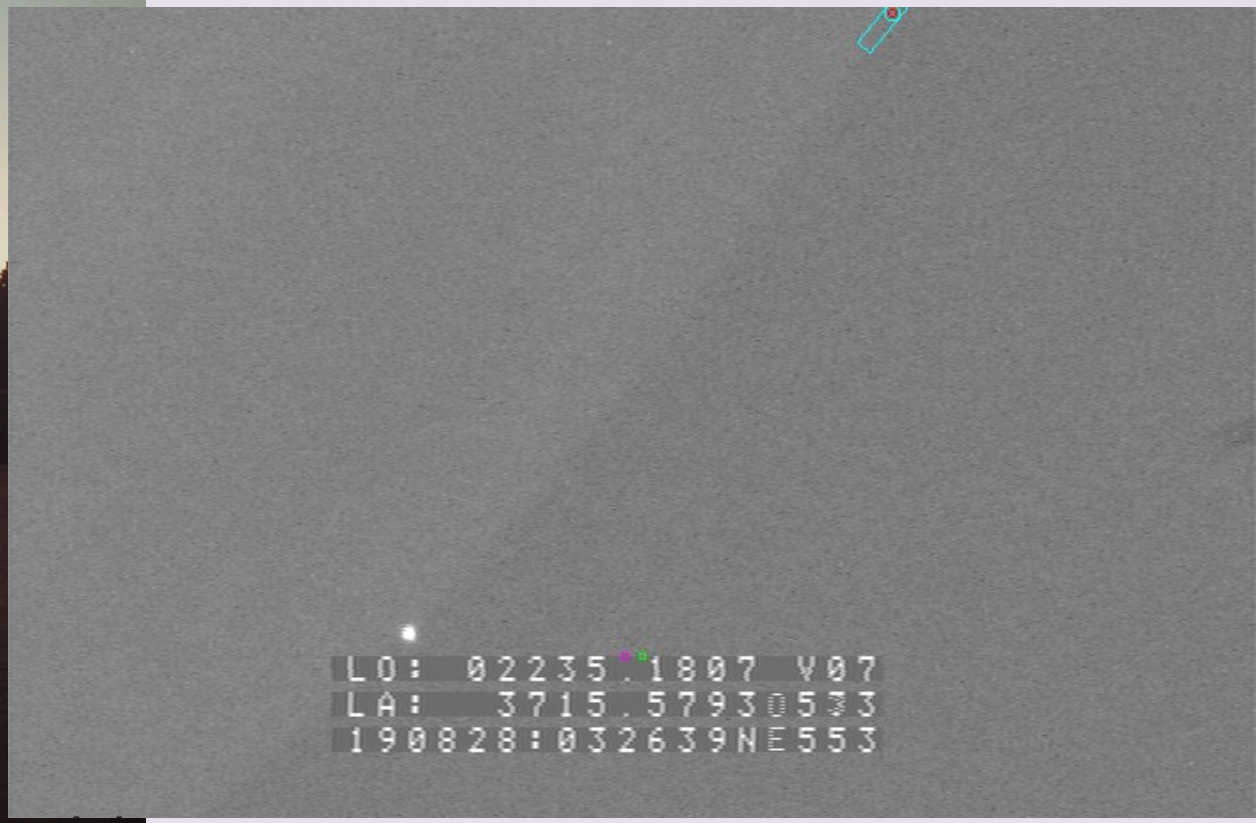
40 cm Cassegrain reflector
0.5 sec exposures
clear filter



HIP 40866

R1 = 2019 08 28 03hr 26min 39sec 513msec

R2 = 2019 08 28 03hr 26min 39sec 553msec



Occult Software

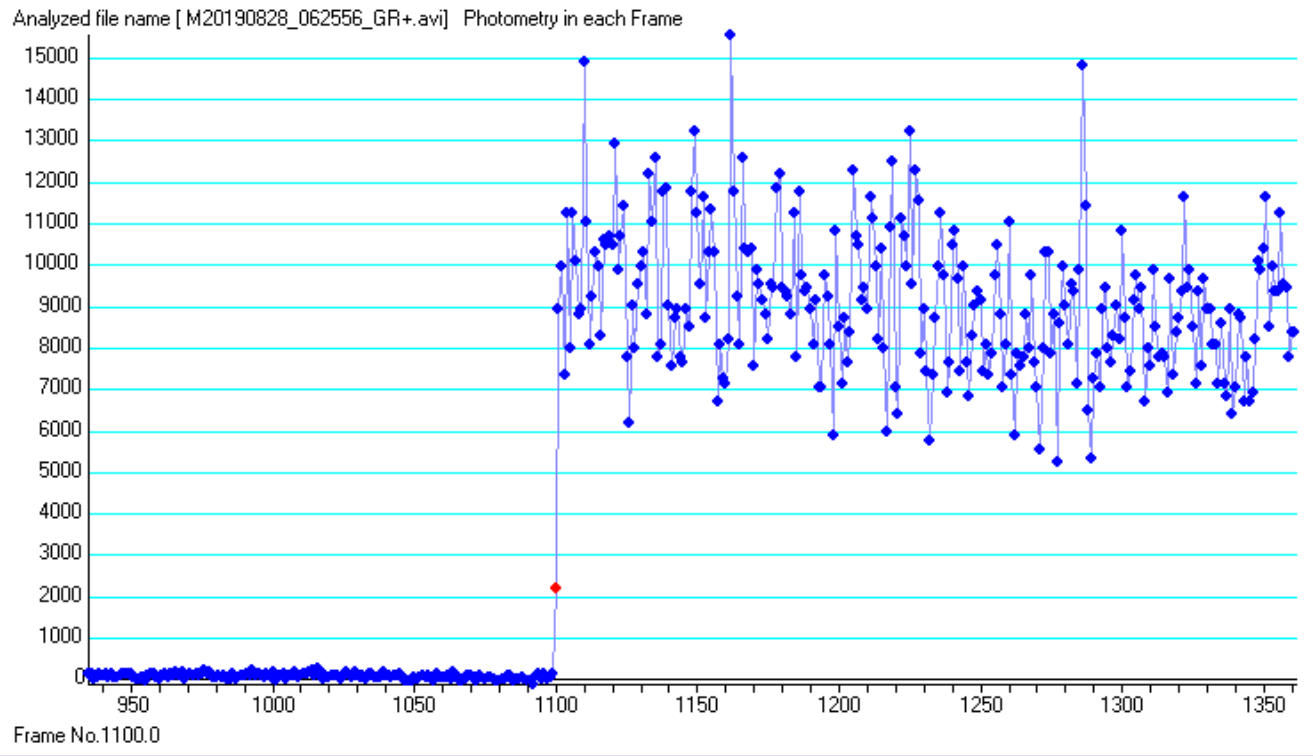
Occultation prediction for Parnon

E. Longitude 22 35 12.0, Latitude 37 15 34.0, Alt. 1420m; Telescope dia 25cm; dMag 0.0

	day	Time		P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon
y	m	d	h m s		No	D	v	r V	ill	Alt	Alt	Az o o
19	Aug	28	3 26 39.1	R	1250	pK1	5.8	5.2	7-	32	-7	24

*** A light curve is desired as 1250 is in the Kepler2 program {ID = 212029623}

1250 is double: 3.1 8.9 350.0, dT = 0.00sec



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Thank you for your attention!

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