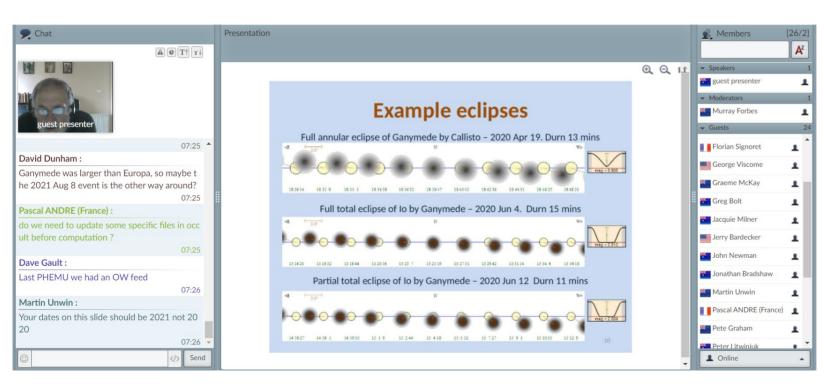
13/04/2020 2:00	13/04/2020 2:00 PM	13/04/2020 12:00 PM	lunch break	
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Pascal A. séance du 18/04/2020



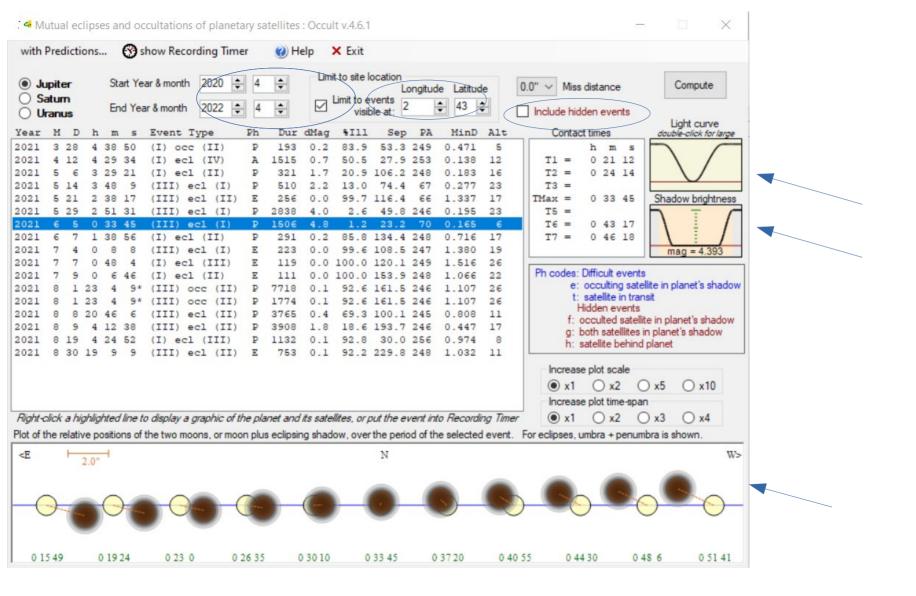
Crédits

- Présentations du TTSO14 http://www.occultations.org.nz/meetings/TTSO14/Schedule.htm
- https://en.wikipedia.org/wiki/John_Broughton
 John Broughton, artiste astronome australien avec plus de 1000 découvertes de planètes mineures/astéroïdes
- http://www.asteroidoccultation.com/observations/DriftScan/Index.htm un article synthétique sur les techniques mises en œuvre par J.Broughton
- http://www.occultations.org.nz/meetings/TTSO14/UltraPortableTelescopes.mp4
 l'utilisation du wombat 250

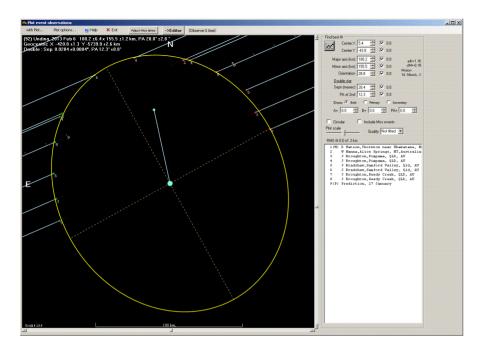


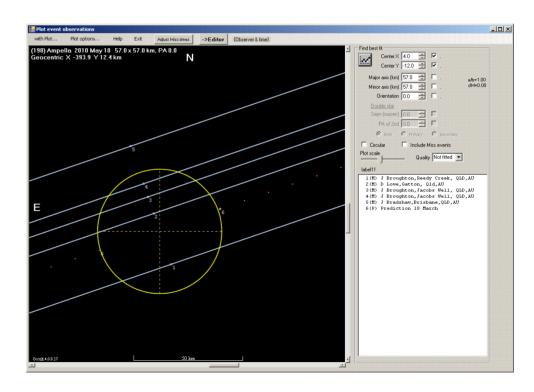
https://www.astrosignoret.fr/index.php

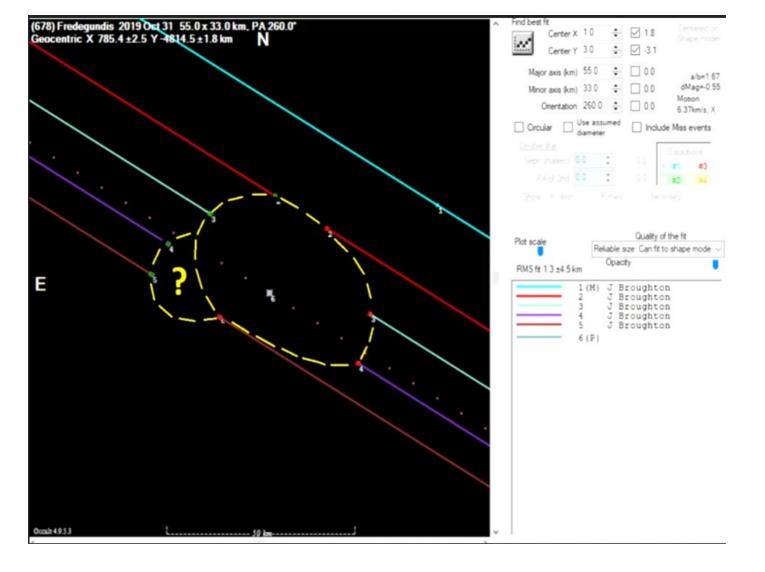
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Un réseau de télescopes simples portables mis en station sur plusieurs sites



2019 THE WOMBAT 250

- · Extremely compact folded up
- Detachable legs
- Integrated struts
- Integrated dew shield
- Collapsible and adjustable-length prime-focus support
- · Collapsible dew shield support
- Ball bearings on slow-motion controls
- Spring-loaded lateral slow-motion gearing







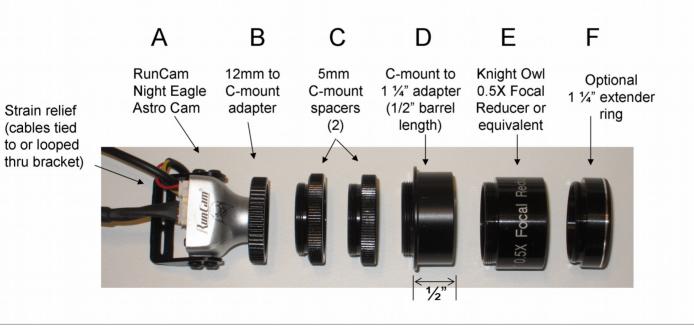


RunCam Night Eagle "Astro" Camera Accessories for Refractors Larger than Mighty Mini or Newtonian Reflectors*

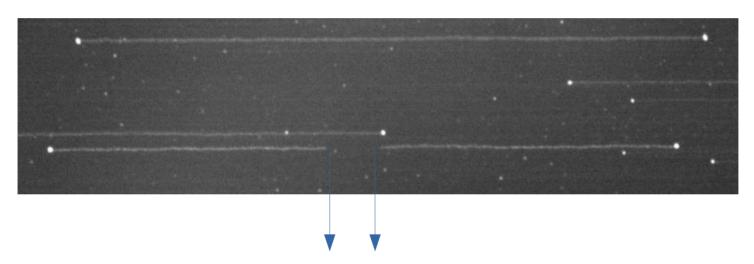
Assembled view:



*Note: In scopes with limited range of inward focuser travel, the camera+focal reducer may not come to focus without a special camera carrier, see below. (2" focusers only)



• Technique du Drift scan (aegina-20190911-t82)



Ou flux video rapide (Watec, Run cam)

Comment pointer un objet avec ces télescopes ultraportable Alt/Az ?





ScanTracker 5.07

An astronomical freeware application created by J. Broughton 2004-2017.

ScanTracker is used for coordinating asteroid occultation observations with any kind of lens, telescope and mount. It produces charts for identifying the target star during a tracked observation, or for planning drift-through observations, where the telescope is stationary and the event observed visually, recorded on video, or imaged as a drift scan in a astrocamera time exposure. The basic principle is to point the telescope in a fixed direction, where by virtue of Earth's rotation, the target will later transit the field at event time. The computations take into account Earth's sidereal rotation rate, precession, nutation and aberration. Altazimuth mode includes the effects of atmospheric refraction and extinction.

New in version 5 (2014)

- * Manual data input is no-longer mandatory, now that events can be imported from Occult Watcher.
- * The events file format was changed to accommodate any number of sites associated with each event.
- * The controls for time navigation have been improved in all three alignment modes.
- * A much-improved algorithm derived from observations, flags the visibility of the occulted star on video in a moonlit sky. Moon phase and distance show up green, amber or red.
- * The on-screen chart is larger and extended to mag-8.0 and 11.0 for the wide-field and finder-field plots.
- * An extended mag-12 chart organised in six rows has been included to display between one and three hours of the drift corridor the primary chart covers only ten minutes at that magnitude depth.
- * A few minor bugs from version 4 were eliminated and a host of incremental improvements made.

For help in ScanTracker, click on the relevant question marks.

----- Acknowledgments

- * Dave Herald site and star data used in ScanTracker are extracted from files associated with Occult.
- *Hristo Pavlov for implementing a function to export 'My Events' in Occult Watcher.

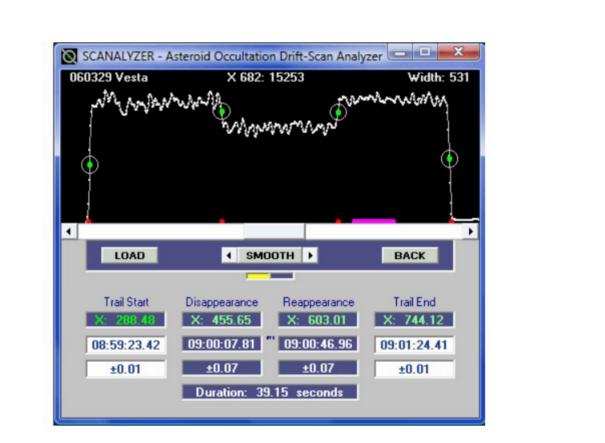
Occult Prévoir OccultWatcher Planifier ScanTracker Anticiper Pointage



Analyser



2 heures avant l'occultation. le logiciel prévoit le pointage qui correspondra au moment voulu lorsque la terre aura tourné à celui de l'occultation de façon à encadrer un drift scan sur la totalité du champ. A l'heure du prépointage une sélection d'étoiles brillantes est proposée

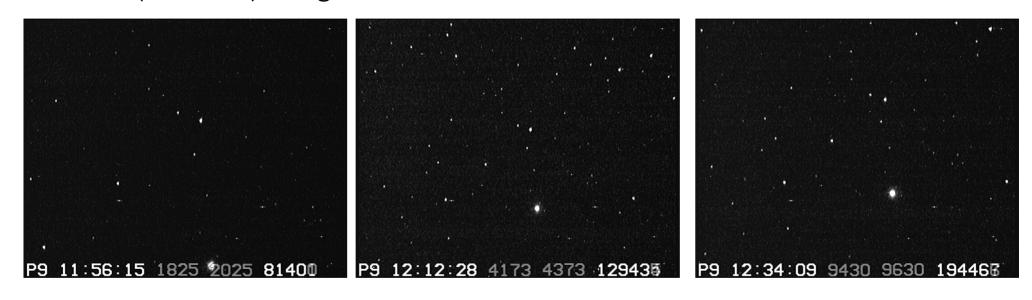


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Réducteurs de focales

- Retour d'expérience sur utilisation des réducteurs de focales sur des SC Télescopes
- Le montage optique des reducteurs de focale (bagues allonge entre ccd et reducteur) est sans doute plus critique que le choix du réducteur

T Pyx – 30cm Meade LX200 ACF OTA – Watec 910BD 16x (8 Frame) Integration - Gain = 32 dB – Gamma = 0.45

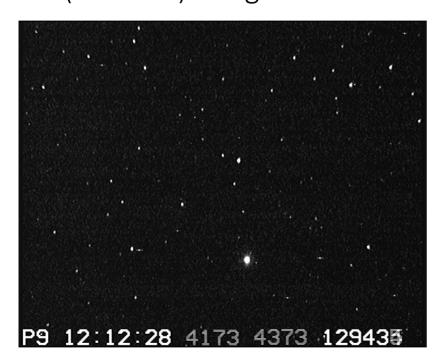


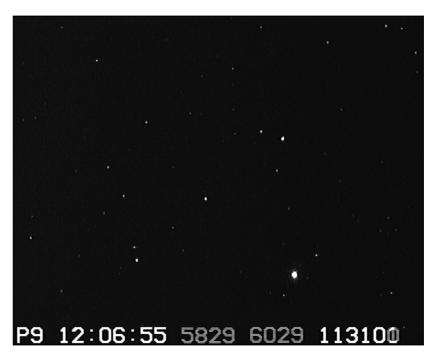
Meade f/6.3 with spacer

Meade f/3.3 with spacer

Knight Owl with short spacer

T Pyx – 30cm Meade LX200 ACF OTA – Watec 910BD 16x (8 Frame) Integration - Gain = 32 dB – Gamma = 0.45

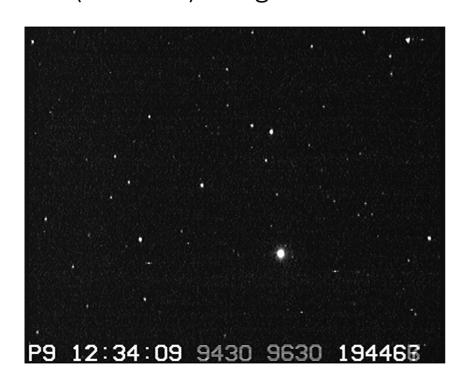




Meade f/3.3 with spacer

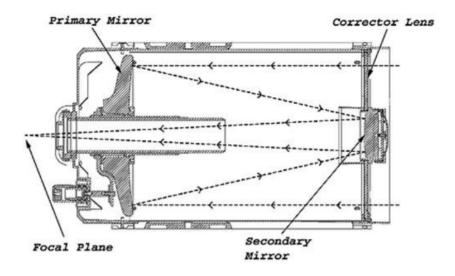
Meade f/3.3 with smaller spacer

T Pyx – 30cm Meade LX200 ACF OTA – Watec 910BD 16x (8 Frame) Integration- Gain = 32 dB – Gamma = 0.45



Knight Owl with short spacer

Knight Owl with longer spacer

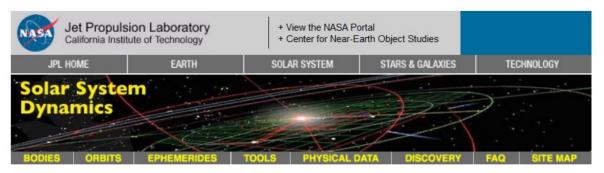


Is this resulting in shadowing by the light baffle?

Image from Celestron.com

- Optical spacing of camera from focal reducer may be more important than which focal reducer you use.
- Using extreme values of focal reducer to camera spacing is forcing the focus (primary mirror location) of the SCT into extreme positions to reach a focus.

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IMPORTANT: The SSD Announcement email list is now available. Major changes are coming in the near future, including possible hostname and/or URL changes. To be notified of such changes, subscribe to this email list.

Please visit this page for more details.

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Quick Links

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Web Interface

Telnet Method

F-mail Method

System News

HORIZONS System

The JPL HORIZONS *on-line* solar system data and ephemeris computation service provides access to key solar system data and flexible production of highly accurate ephemerides for solar system objects (957824 asteroids, 3621 comets, 209 planetary satellites, 8 planets, the Sun, L1, L2, select spacecraft, and system barycenters). HORIZONS is provided by the Solar System Dynamics Group of the Jet Propulsion Laboratory.

The HORIZONS system can be accessed using any of the following methods:

- · telnet (instructions)
- email (instructions)
- · web-interface (see note below)

NOTE: Although the web-interface to HORIZONS provides *nearly* all capabilities of the primary telnet interface (and email interface), it does not provide the following:

- Small-body PARAMETER-MATCHING population searches (use the small-body search engine as an alternative)
- Integration of USER-INPUT ORBITS
- SPK BINARY FILE production
- CLOSE-APPROACH TABLES

La présentation de Dave Herald explique pas à pas comment utiliser dans Occult les eléments orbitaux du JPL à la place des données Astorb du MPC. Cela permet d'obtenir des prédictions de dernière minute avec une excellente précision

HORIZONS Documentation - (updated 2019-Dec-10)