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EANweb NEWSLETTER Astronomy: "WORLDS OF THE SKY" project - SETUP Astronomical instrumentation: observe transit Extrasolar Planet

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10 gennaio 2010 15.15



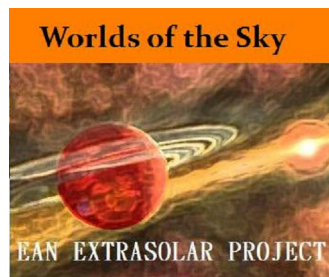
EANweb NEWSLETTER del 10th January 2010

European Astroscopy Network - Italy

(a cura di Rodolfo Calanca e Angelo Angeletti)

www.crabnebula.it/rc/menu_EAN.htm

Web-TV: www.livestream.com/eantv

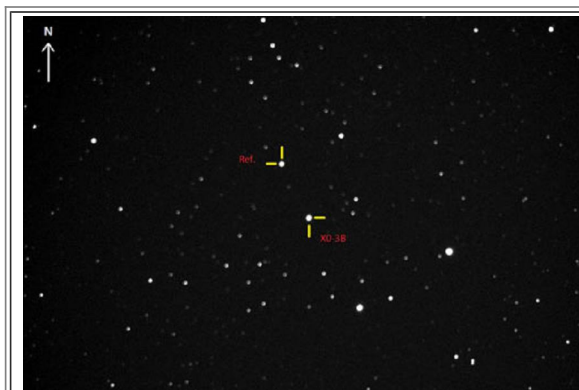


"WORLDS OF THE SKY" - 13th February 2010

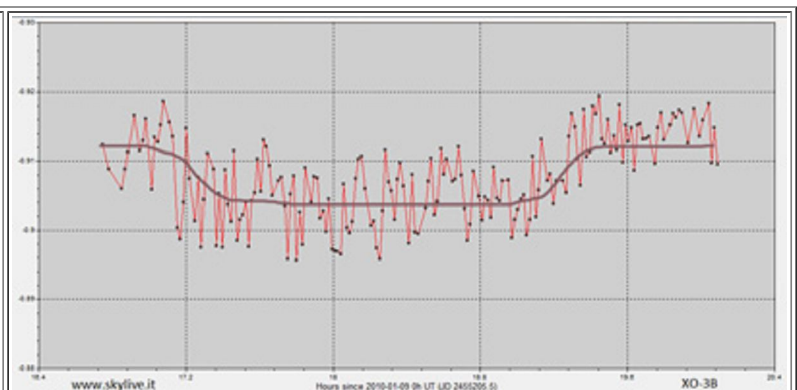
is an International Astronomical Project for public observation of an Extrasolar Planet Transit on the web-TV

09th JANUARY 2010: SETUP ASTRONOMICAL INSTRUMENTATION:

SKYLIVE ASSOCIATION (www.skylive.it) OBSERVE A TRANSIT OF EXTRASOLAR PLANET XO-3b



An image of FOV of star XO-3, SKYLIVE robo- telescope Meade LX200 12" + CCD ST10XME + R filter
(www.skylive.it/skylive-new/index.php?lan=en)



Light-curve of the XO-3b planetary transit (09th January 2010), SKYLIVE robot telescope, 200 images; exposure: 45s; binning 2x2; 10 median dark frames; 10 median flat frames.

"WORLDS OF THE SKY" Project intends to approach the great but inexperienced public wishing to visit our Observatories as astronomy "fans" and to watch live an extra solar planet transit. In details, on next 13th February (starting at 07.00 p.m.) many Italian and European Observatories will place their instrumentation at public's disposal to "observe" XO-3b planet.



Extra solar planet research began in 1995: at the moment we can enumerate about 450 successes. Certainly we are speaking about giant planets very close to their star, but we can suppose to find also planets looking like Earth and dreaming of extraterrestrial forms of life is an obvious consequence.

The discovery of Earth size extra solar planet should have enormous philosophic and cultural implication, so strong to justify capitals mankind is actually investing in this kind of research. Also an astronomy lover holding a convenient instrumentation (nowadays rather widespread) is possible to give his perceptible contribution to this kind of research. In the web site you can find all material allowing to "see" an extra solar planet transit.

The italian astronomer Stefano Covino (Osservatorio Astronomico INAF di Brera - www.mi.astro.it) writes:

"Observing extra-Solar planet transits is a valuable scientific tool. However, even more than that, it is a fascinating way to look at other worlds.

The existence of planets around other stars beyond our Sun has been conjectured since the beginning of human history, and the same idea has also been able to raise fundamental enthusiasms and criticisms in equal percentage. Philosophy, theology and even psychology have been involved to explain the importance of this recurrent idea in human history. Here, we review how since the Hellenistic era the hypothesis of many worlds developed and also describe an international event we are organizing with the aim to secure multi-site observations of a planet transit. An example of science in the internet era".

	
<p style="text-align: center;">You Tube Broadcast Yourself™</p> <p>http://www.youtube.com/watch?v=L38RU0GT_70 In this IMPORTANT video, prof. Angelo Angeletti describes the procedure for imaging transits of Extrasolar Planets, English translation by prof. Manlio Bellesi</p>	<p style="text-align: center;">You Tube Broadcast Yourself™</p> <p>http://www.youtube.com/watch?v=wsbW5TRo9g0 Astronomers of INAF - Brera Astronomical Observatory: Paolo D'Avanzo, Jirong Mao and Christina Thoene This movie is in Italian, English and Chinese</p>

VERY IMPORTANT!

NEXT OBSERVATION TEST AND SETUP: 15th JANUARY 2010, TRANSIT OF XO-2b
(see document: www.crabnebula.it/web/doc_transits/2010_eng_Transits_TUTORIAL.pdf)

ALL AMATEURS ARE WARMLY INVITED TO SHOOT THE TRANSITS WITH PROPER TELESCOPES!

"WORLDS OF THE SKY" DOCUMENTS AND MATERIALS PROJECT:

Tutorial Software "TReI", (designed to detect extrasolar transits) reference guide: www.crabnebula.it/web/doc_transits/2010_eng_Transits_TUTORIAL.pdf

"TReI" Download: www.crabnebula.it/web/doc_transits/index.htm

Registration form to the "WORLDS OF THE SKY" Project: www.crabnebula.it/web/doc_transits/index.htm

In case you are interested to join the public event of European observation of the transit of XO-3b, please fill in and return the registration form.

An initiative promoted by:

BRERA and PALERMO INAF ASTRONOMICAL OBSERVATORIES - ITALY

EAN web community

CRAB NEBULA Astronomical Association, webzine L'ASTROFILO, SKYLIVE no-profit Society; SEVENOW web-TV