



Solar Eclipse Pinhole Viewer

Solar Eclipse 29 April 2014

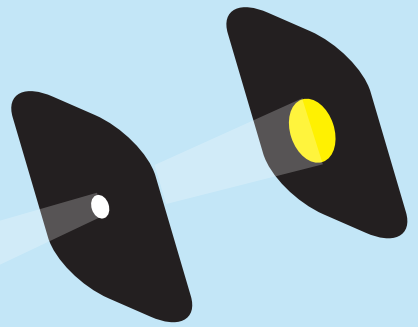
Instructions

1. Cut the viewer in half (on the dashed line).
2. Make a pinhole at the location marked.
3. Position the pinhole so the Sun's image falls onto the blank side of the second page as shown (at right).
4. Look only at the projected image of the Sun. Do not look at the Sun through the hole.
5. The larger the gap between the two pieces of paper, the bigger the Sun's image will be.



Paul Floyd's
**Astronomy
& Space
Website**

www.nightsskyonline.info



Safety Warning!

Looking directly at the Sun without using solar filters designed to filter 100% of the Sun's ultraviolet radiation may result in permanent blindness.

Website and outreach activities sponsored by

www.EXTRAVISION.com.au
'Specialising in products that help you see better'

For all your solar glasses and specialist solar filter needs:
<http://www.extravision.com.au/catalog/index.php?cPath=43>

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29 April 2014 Partial Solar Eclipse



Note: Eclipse times listed for local time zones. Event times thanks to Google Maps. UT times here: <http://eclipse.gsfc.nasa.gov/OH/OHtables/OH2013-Tab02.pdf>
* = Maximum eclipse occurs at sunset.

Australian Curriculum links for school teachers

Arranging for your students to indirectly observe this eclipse provides the student with a real life example of '... how the relative positions of the Earth, sun and moon affect phenomena on Earth' (Year 7 Achievement Strand Australian Curriculum (Science) Earth and space sciences content strand reference ACSSU115).

Banora Point / Tweed Heads

Eclipse begins: 4:29:34 pm
Mid-Eclipse: 5:15:23 pm*
Sunset: 5:15:23 pm

Brisbane

Eclipse begins: 4:31:00 pm
Mid-Eclipse: 5:18:23 pm*
Sunset: 5:18:23 pm

Cairns

Eclipse begins: 4:56:12 pm
Mid-Eclipse: 5:31:20 pm
Sunset: 5:59:56 pm

Canberra

Eclipse begins: 4:08:17 pm
Mid-Eclipse: 5:12:25 pm
Eclipse ends: 5:23:06 pm

Gold Coast

Eclipse begins: 4:29:54 pm
Mid-Eclipse: 5:16:00 pm*
Sunset: 5:16:00 pm

Melbourne

Eclipse begins: 3:57:59 pm
Mid-Eclipse: 5:06:53 pm
Sunset: 5:16:54 pm

Perth

Eclipse begins: 1:16:39 pm
Mid-Eclipse: 2:42:10 pm
Eclipse ends: 3:59:10 pm

Rockhampton

Eclipse begins: 4:39:43 pm
Mid-Eclipse: 5:26:56 pm
Sunset: 5:33:33 pm

Sydney

Eclipse begins: 4:13:39 pm
Mid-Eclipse: 5:15:02 pm
Sunset: 5:16:54 pm

Townsville

Eclipse begins: 4:48:35 pm
Mid-Eclipse: 5:29:44 pm
Eclipse ends: 5:53:11 pm

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