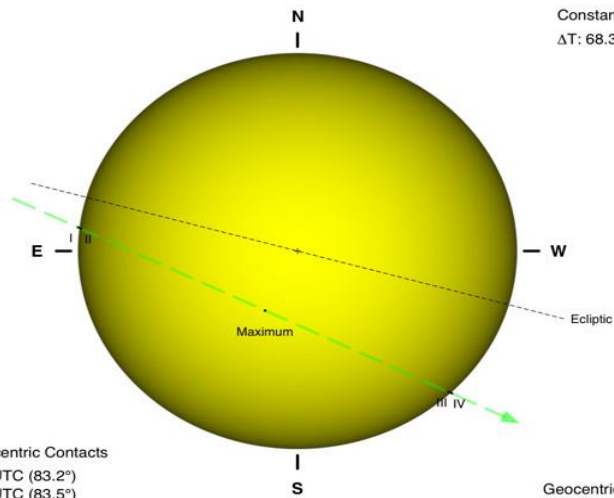


Mercury Transit of 2016 May 09 Geocentric Diagram and Visibility Map

Greatest Transit: 14:57:24.8 UT J.D.: 2457518.123203

Constants
 ΔT : 68.30s

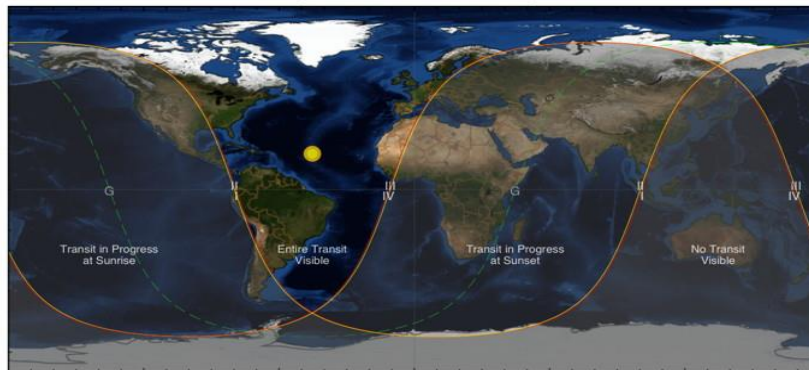


Transit Geocentric Contacts

- I: 11:12:18 UTC (83.2°)
- II: 11:15:30 UTC (83.5°)
- G: 14:57:25 UTC (153.8°)
- III: 18:39:12 UTC (224.1°)
- IV: 18:42:24 UTC (224.4°)

Geocentric Data

- Minimum separation: 318.5"
- General Duration: 07h30m05s
- Central Duration: 07h23m43s



Mercury Venus Transit Maestro - Xavier M. Jubier
(<http://xjubier.free.fr>)

Inside this Issue.....

- 2 – Local Events and information
- 3 – News around the Globe
- 4 – Calendar/ Events
- 5 – EAS Business – Minutes

The EAS newsletter, Observer, is published monthly. Anyone wishing to contribute articles or photos may mail them to the club's PO Box: EAS, PO Box 3474, Evansville, IN 47733, or e-mail them to the editor at: dasiceman@yahoo.com

The **Evansville Astronomical Society (EAS)** is a non-profit organization fully incorporated in the state of Indiana. It has, as its primary goal, the advancement of amateur astronomy. Founded in 1952, the society seeks to:

- 1... maintain adequate facilities for its members and the public in order to extensively study the skies and
- 2... promote an educational program for those who wish to learn more about the science of Astronomy.

Meetings are held the third Friday of each month, except June, when the annual EAS picnic is held. The society also sponsors monthly Open House events during the warmer seasons that afford the public an opportunity to tour the observatory.

EAS 2016 Officers and Contacts

President – Scott Conner
812-.604.7164
ssconner24@gmail.com

Vice President – Tony Bryan

Secretary – David M Kube
740.223.6854

Treasurer – Ted Ubelhor

Counselors
Michael Borman
Kent Brenton
Ken Harris

Webmaster – Michael Borman

Program Director
Tony Bryan

News editor – David Kube
dasiceman@yahoo.com

For more information about the EAS or directions to the Observatory, please visit the club's web page:

www.evansvilleastro.org



Local Events and Information

EAS Schedule Update:

Please Note that we have a Regular Meeting scheduled for Friday February 19th, 2016 at the Evansville Museum beginning at 7:30pm.

EAS Update:

Please Note that we have Tree Trimming scheduled for Saturday February 20th, 2016 at the Observatory beginning at 9:00am.

EAS Update:

Please Note that we have a member only observing session scheduled for Saturday, March 5th, 2016 to be held at the New Harmony Park beginning @ 6:30pm. This will be our first chance to look through the 28" Scope.

EAS Update:

Please Note that we have a Regular Meeting scheduled for Friday March 18th, 2016 at the Observatory beginning at 7:30pm.

EAS Update:

Please Note that we have our first PSW scheduled for Saturday March 19th, 2016 at the Observatory beginning at 7:30pm.

EAS Update:

Please Note that we have a PSW scheduled for Saturday April 9th, 2016 at the Observatory beginning at 7:30pm.

Telescopes and accessories for sale...

As mentioned in last month's issue, Mike Borman still has some excellent telescope equipment and imaging accessories for sale. Some of the gear has already been sold. If interested, go to Mike's web page. Here is the link: <http://www.mborman.org/forsale.htm>

Researchers see signs of a Real Planet X.



Caltech/R. Hurt (IPAC)

Caltech researchers have found evidence of a giant planet tracing a bizarre, highly elongated orbit in the distant solar system. The object, which the researchers have nicknamed Planet Nine, has a mass about 10 times that of Earth and orbits about 20 times farther from the Sun on average than does Neptune (which orbits the Sun at an average distance of 2.8 billion miles). In fact, it would take this new planet between 10,000 and 20,000 years to make just one full orbit around the Sun.

Pluto's Widespread Water Ice.

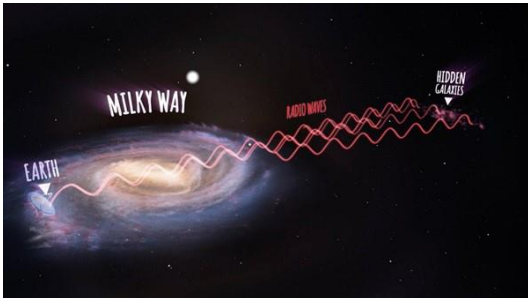


NASA/JHUAPL/SWRI

Data from NASA's New Horizons spacecraft point to more prevalent water ice on Pluto's surface than previously thought.

A new false-color image, derived from observations in infrared light by the Ralph/Linear Etalon Imaging Spectral Array (LEISA) instrument, shows where the spectral features of water ice are abundant on Pluto's surface. It is based on two LEISA scans of Pluto obtained on July 14, 2015, from a range of about 67,000 miles (108,000 kilometers).

Scientist Discover Hidden Galaxies behind the Milky Way.



ICRAR

Hundreds of hidden nearby galaxies have been studied for the first time, shedding light on a mysterious gravitational anomaly dubbed the Great Attractor.

Despite being just 250 million light-years from Earth — very close in astronomical terms — the new galaxies had been hidden from view until now by our Milky Way Galaxy.

Using CSIRO's Parkes radio telescope equipped with an innovative receiver, an international team of scientists was able to see through the stars and dust of the Milky Way into a previously unexplored region of space.

The discovery may help to explain the Great Attractor region, which appears to be drawing the Milky Way and hundreds of thousands of other galaxies towards it with a gravitational force equivalent to a million billion Suns.

March 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5 M.Observe New Harmony Park 6:30pm
6	7	8	9	10	11	12
13	14	15	16	17	18 Reg Meeting 7:30pm	19 PSW 7:30pm
20	21	22	23	24	25	26
27	28	29	30	31		

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Up and Coming Events 2015/ 2016

Regular Meeting – Friday, February 19th @ 7:30pm @ Museum

Tree Trimming – Saturday, February 20th @ 9:00am @ Observatory

Member Only Observing Session – Saturday, March 5th @ 6:30pm @ New Harmony Park

Regular Meeting – Friday, March 18th @ 7:30pm @ Observatory

PSW – Saturday, March 19th @7:30pm @ Observatory

Moon Phases

First Quarter	Full Moon	Third Quarter	New Moon
March 15 th , 2016	March 23 rd , 2016	March 1 st , 2016 March 31 st , 2016	March 8 th , 2016

Moon Phases courtesy of Time and Date.com

EAS MEETING for January 15th, 2016

The meeting was **CALLED TO ORDER** by President Scott Conner @ 7:34 PM with 16 members and 2 new members in attendance.

It was moved & seconded to approve the DECEMBER MINUTES as seen on the EAS Internet page.

Tony Bryan announced the **UPCOMING EVENTS:**

Regular Meeting Friday, February 19 Evansville Museum 7:30pm.
There will be a Member Observing Session in Early March with the 28" Scope @ the New Harmony State Park.

Ted Ubelhor announced that we have money in our funds and that we have 42 current active members. There are a few Wall Calendars left but very few.

SPECIAL PROJECTS

Tony Bryan reported that he has added encoders to the 28" TELESCOPE and have made the setup much easier with the help of Scott Conner.

OLD BUSINESS

We had our Annual Christmas Party/ Astronomy Quiz last month. The quiz was perhaps the best one we have seen as far as production and graphics. Dave Stephens was our quiz master. Thank you Dave for being our presenter. We had several winners in the beginner and advance categories. Mitch will be our quiz master next year. We had some really good prizes including laser pointers, Binoculars, Star Wheels and Calendars. The snack were delicious and we had a pretty good turnout including some new members.

NEW BUSINESS

Scott is trying to get a crew of people together to do some tree top removals before spring. If anyone is interested in helping out let him know asap. We need to set a date, so he needs to know who to talk to to get it arranged.

The meeting adjourned at 7:47 PM.

Mitch Luman was our presenter tonight and gave us an amazing demonstration of the equipment capabilities and a journey through space and time. Primary demo was with the upcoming Solar Eclipse in 2017.