

* CAS *

Charlottesville Astronomical Society



November 2014



Welcome Guests!

Please introduce yourselves!

New Member

Champe C. Ransom



Tonight's Topic

COOL ASTRONOMY SOFTWARE AND WEBSITES



As Amateur Astronomers we
are always worried about.....



The Weather



<http://www.cleardarksky.com/c/CharvilVAkey.html>

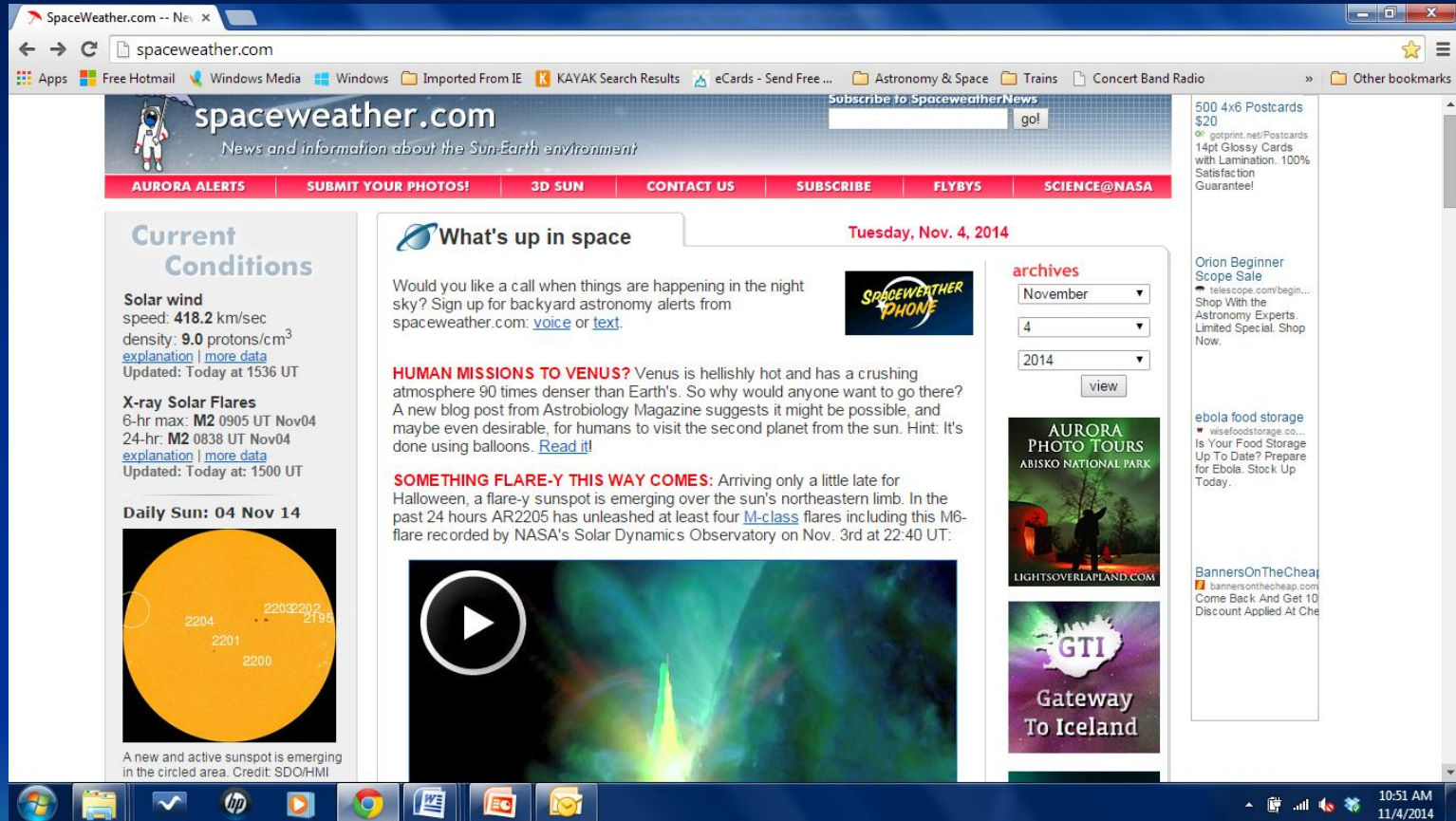
<https://weatherspark.com/#!dashboard;q=22901>



GotPrint.com

10:43 AM
11/4/2014

Space weather



SpaceWeather.com -- Ne x

spaceweather.com

Subscribe to SpaceWeatherNews

gol

spaceweather.com
News and information about the Sun-Earth environment

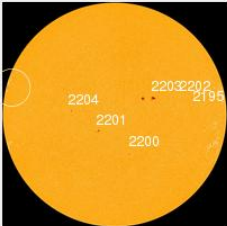
AURORA ALERTS **SUBMIT YOUR PHOTOS!** **3D SUN** **CONTACT US** **SUBSCRIBE** **FLYBYS** **SCIENCE@NASA**

Current Conditions

Solar wind
speed: **418.2** km/sec
density: **9.0** protons/cm³
[explanation](#) | [more data](#)
Updated: Today at 1536 UT

X-ray Solar Flares
6-hr max: **M2** 0905 UT Nov04
24-hr: **M2** 0838 UT Nov04
[explanation](#) | [more data](#)
Updated: Today at: 1500 UT

Daily Sun: 04 Nov 14



A new and active sunspot is emerging in the circled area. Credit: SDO/HMI


What's up in space

Tuesday, Nov. 4, 2014

Would you like a call when things are happening in the night sky? Sign up for backyard astronomy alerts from spaceweather.com: [voice](#) or [text](#).

HUMAN MISSIONS TO VENUS? Venus is hellishly hot and has a crushing atmosphere 90 times denser than Earth's. So why would anyone want to go there? A new blog post from Astrobiology Magazine suggests it might be possible, and maybe even desirable, for humans to visit the second planet from the sun. Hint: It's done using balloons. [Read it!](#)

SOMETHING FLARE-Y THIS WAY COMES: Arriving only a little late for Halloween, a flare-y sunspot is emerging over the sun's northeastern limb. In the past 24 hours AR2205 has unleashed at least four [M-class](#) flares including this M6-flare recorded by NASA's Solar Dynamics Observatory on Nov. 3rd at 22:40 UT:



archives
November
4
2014
[view](#)

AURORA PHOTO TOURS
ABISKO NATIONAL PARK
LIGHTSOVERLAPLAND.COM

GTI
Gateway To Iceland

500 4x6 Postcards \$20
gotprint.net/Postcards
14pt Glossy Cards with Lamination. 100% Satisfaction Guarantee!

Orion Beginner Scope Sale
telescope.com/begin...
Shop With the Astronomy Experts. Limited Special. Shop Now.

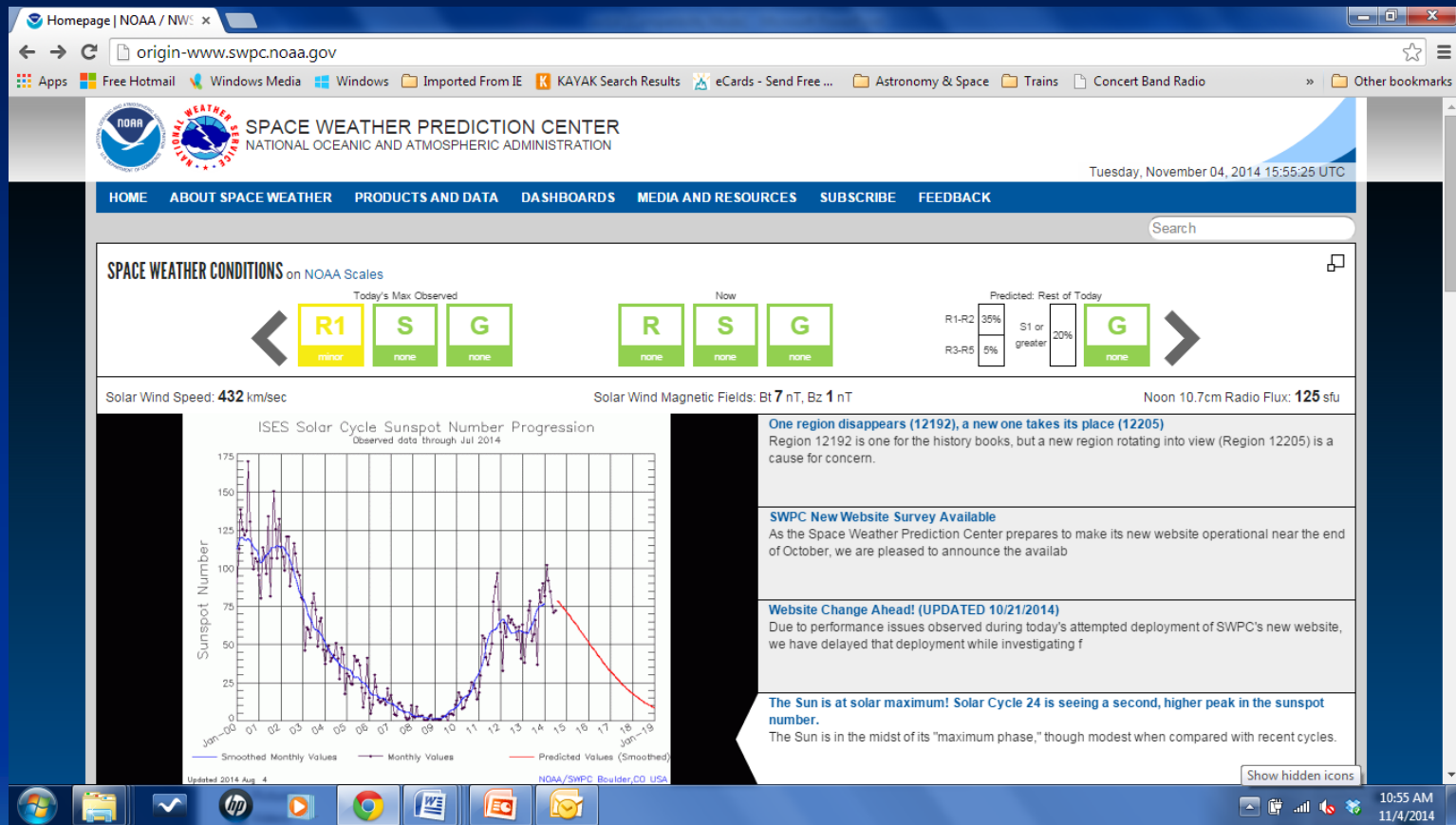
ebola food storage
wsefoodstorage.co...
Is Your Food Storage Up To Date? Prepare for Ebola. Stock Up Today.

BannersOnTheCheap
bannersonthecheap.com
Come Back And Get 10% Discount Applied At Che

10:51 AM
11/4/2014

<http://spaceweather.com/>

NEW Space weather option



<http://origin-www.swpc.noaa.gov/>

As Amateur Astronomers we are
always wondering what can we
see in the night sky?



What's Up?

Heavens-Above

www.heavens-above.com/main.aspx

Apps Free Hotmail Windows Media Windows Imported From IE KAYAK Search Results eCards - Send Free ... Astronomy & Space Trains Concert Band Radio Other bookmarks

HEAVENS ABOVE

Jeep

CHECK OUT OUR BEST AVAILABLE OFFERS

BUILD & PRICE
VIEW INCENTIVES

User: slayman Logout
Location: Charlottesville, VA (38.0416°N, 78.4770°W)
Time: 11:03:14 (UTC-05:00)
Language: العربية

Heavens-Above goes mobile!
Please check out our new prototype web site optimized for mobile devices.

Configuration
Logout
Change your observation location and other settings

Satellites
10-day predictions for satellites of special interest
ISS
Tiangong 1
N. Korean satellite
HST
Envisat
Satellite database
Daily predictions for brighter satellites
Iridium Flares
Spacecraft escaping the Solar System
Amateur Radio Satellites - All Passes
Height of the ISS

Astronomy
Sky Chart
Sun
Moon
Planets
Solar system chart
Comets
Asteroids
Constellations

Miscellaneous
Forum (English only)
Help

Current position of ISS

g+ 2.8k

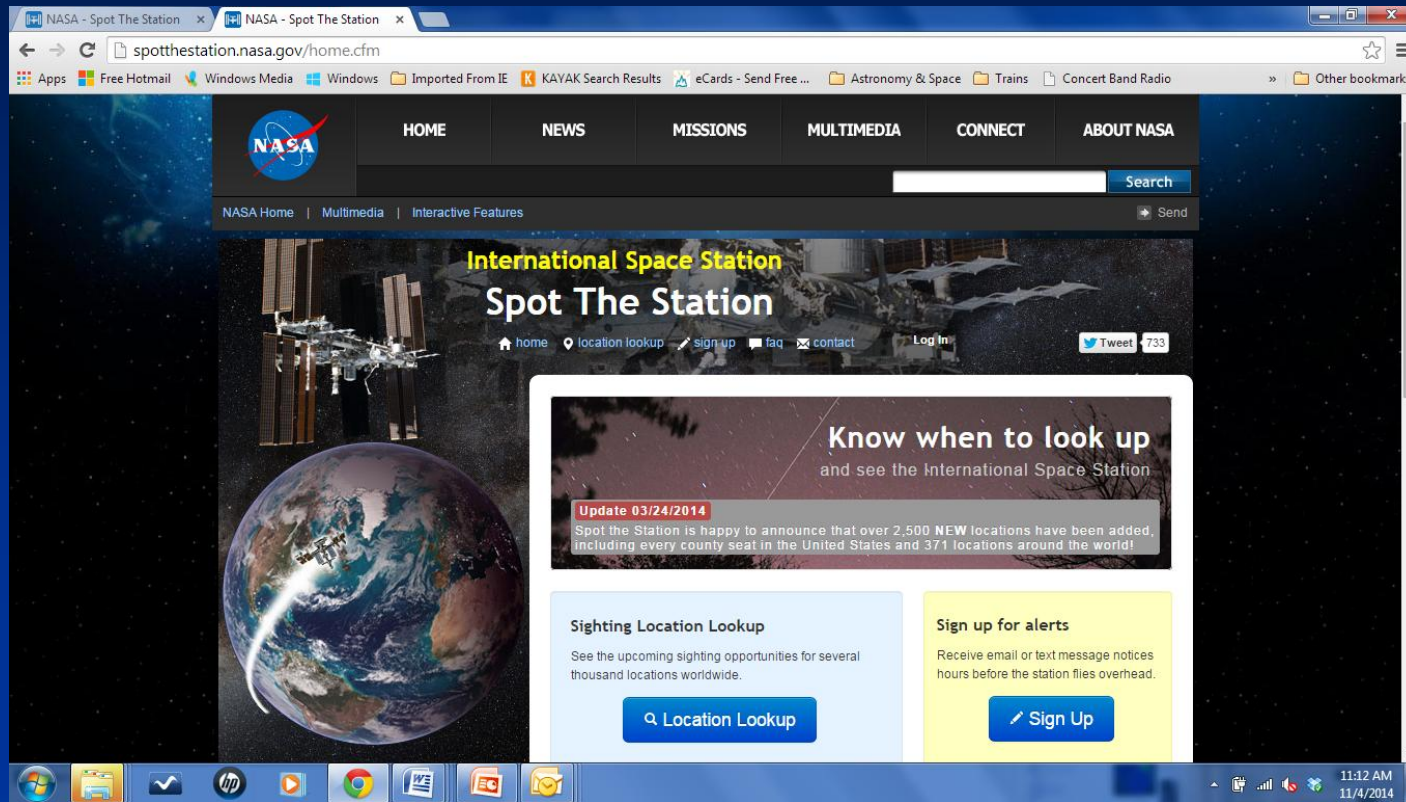
To Kill a Mockingbird
Now available for the first time in digital audio.

Dropbox 2.10.30
Up to date

11:03 AM
11/4/2014

<http://www.heavens-above.com/main.aspx>

Just the Space Station



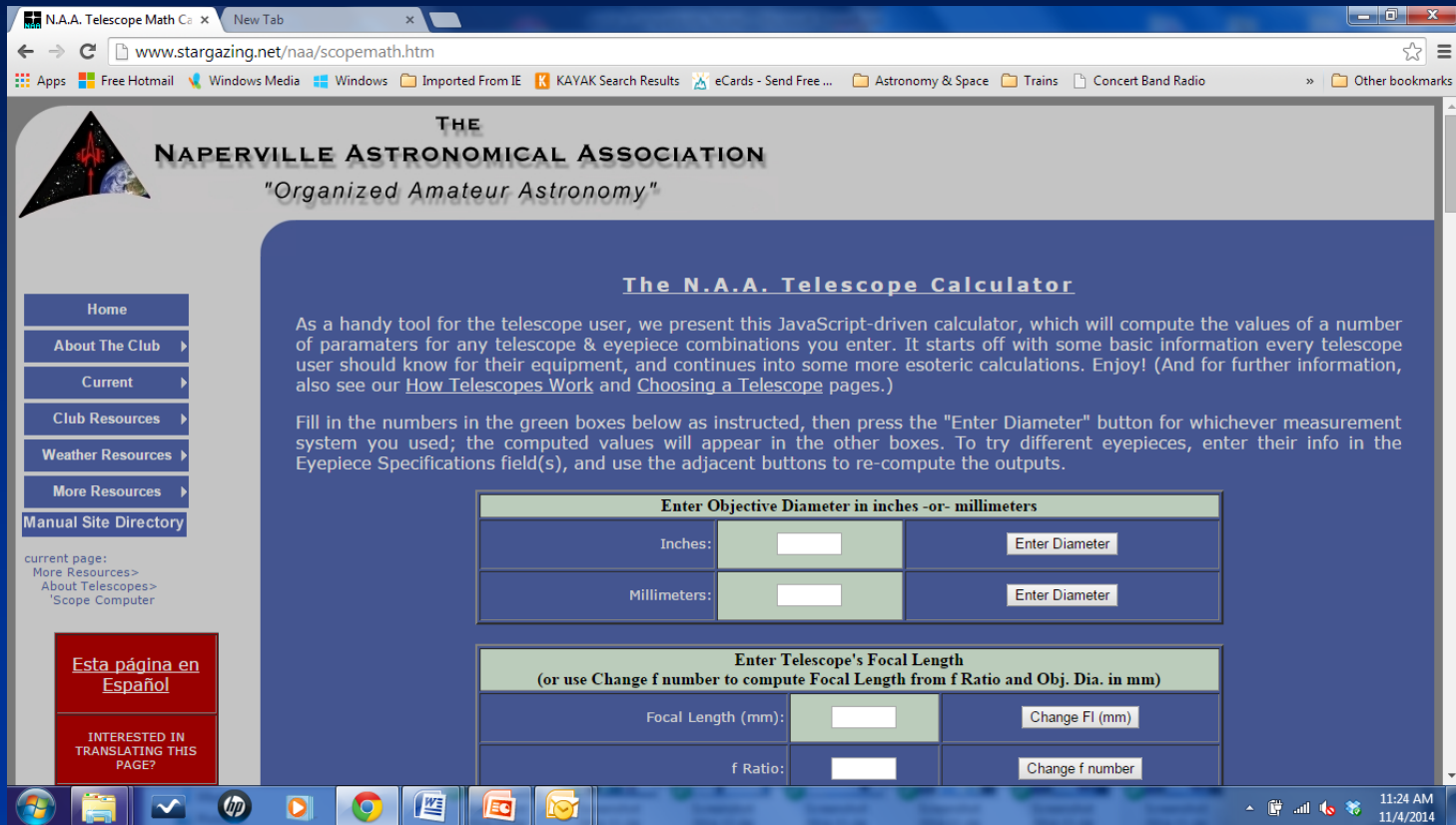
<http://spotthestation.nasa.gov/home.cfm>

What's Up this month?

The screenshot shows a web browser window with the URL solarsystem.nasa.gov/news/whatsup-archive.cfm. The page is titled "Solar System Exploration" and "News & Events". The left sidebar contains a navigation menu with links: Home, News & Events (highlighted), News, Calendar, What's Up, 10 Things Blog, Observing Challenges, FAQ, Mars Landing 2012, 50th Anniversary of Solar System Exploration, More NASA News, Planets, Missions, Science & Technology, Multimedia, People, Kids, and Education. The main content area is titled "What's Up" and features a banner image with the text "What's Up brought to you by Jane Houston Jones". Below the banner, there are three "Latest Updates" sections, each with a video thumbnail and a description: "What's Up - October 2014" (October 2014, What's up for October. A total lunar eclipse. A partial solar eclipse. And Mars meets a comet. Download Video), "What's Up for September" (September 2014, Red star (Antares) meets Red Planet (Mars) and view the zodiacal light that points towards Jupiter. Download Video), and "What's Up for August" (August 2014, Planets pair up at dawn and dusk. The Perseid meteor shower peaks Aug 12/13 and is visible almost all month. Download Video). To the right of the updates, there is a section "About: Jane Houston Jones" with a photo and text describing her as a NASA science podcast developer, writer, educational and outreach artisan and social media enthusiast. Below this is a "NASACast What's Up? Video Podcasts" section with a "Subscribe on iTunes" button. The bottom of the browser window shows a Windows taskbar with various application icons and a system clock indicating 11:20 AM on 11/4/2014.

<http://solarsystem.nasa.gov/news/whatsup-archive.cfm>

Magnification – there's an app for that



The screenshot shows a web browser window displaying the website www.stargazing.net/naa/scopemath.htm. The page is titled "THE NAPERVILLE ASTRONOMICAL ASSOCIATION" with the tagline "Organized Amateur Astronomy". The main content area is titled "The N.A.A. Telescope Calculator". It describes a JavaScript-driven calculator for telescope parameters. The calculator has two main sections: "Enter Objective Diameter in inches -or- millimeters" and "Enter Telescope's Focal Length (or use Change f number to compute Focal Length from f Ratio and Obj. Dia. in mm)". The first section has input fields for "Inches" and "Millimeters", each with an "Enter Diameter" button. The second section has input fields for "Focal Length (mm)" and "f Ratio", each with a "Change" button. A sidebar on the left contains a navigation menu with links like "Home", "About The Club", "Current", "Club Resources", "Weather Resources", "More Resources", and "Manual Site Directory". At the bottom of the sidebar, there is a red button that says "Esta página en Español" and a link to "INTERESTED IN TRANSLATING THIS PAGE?". The browser's address bar shows the URL, and the taskbar at the bottom displays various application icons and the system clock showing 11:24 AM on 11/4/2014.

THE NAPERVILLE ASTRONOMICAL ASSOCIATION
"Organized Amateur Astronomy"

The N.A.A. Telescope Calculator

As a handy tool for the telescope user, we present this JavaScript-driven calculator, which will compute the values of a number of parameters for any telescope & eyepiece combinations you enter. It starts off with some basic information every telescope user should know for their equipment, and continues into some more esoteric calculations. Enjoy! (And for further information, also see our [How Telescopes Work](#) and [Choosing a Telescope](#) pages.)

Fill in the numbers in the green boxes below as instructed, then press the "Enter Diameter" button for whichever measurement system you used; the computed values will appear in the other boxes. To try different eyepieces, enter their info in the Eyepiece Specifications field(s), and use the adjacent buttons to re-compute the outputs.

Enter Objective Diameter in inches -or- millimeters		
Inches:	<input type="text"/>	<input type="button" value="Enter Diameter"/>
Millimeters:	<input type="text"/>	<input type="button" value="Enter Diameter"/>

Enter Telescope's Focal Length (or use Change f number to compute Focal Length from f Ratio and Obj. Dia. in mm)		
Focal Length (mm):	<input type="text"/>	<input type="button" value="Change Fl (mm)"/>
f Ratio:	<input type="text"/>	<input type="button" value="Change f number"/>

<http://www.stargazing.net/naa/scopemath.htm>

What to observe ??

Skymaps.com - Publication x

www.skymaps.com/downloads.html

Apps Free Hotmail Windows Media Windows Imported From IE KAYAK Search Results eCards - Send Free ... Astronomy & Space Trains Concert Band Radio Other bookmarks

Home | Services | Store | Downloads | Articles | Help

Sky maps The Evening Sky Map
Free each month for you to explore, learn & enjoy the night sky.

Skymaps.com/store -- Recommended Books & Products for Skywatchers
[New Books](#) • [Star Atlases](#) • [Getting Started](#) • [Observing Guides](#) • [Planispheres](#) • [Telescope Books](#) • [Kids Books](#) • [Sky Lore](#)
[DVDs](#) • [Software](#) • [Astrophotography](#) • [Star Map Posters](#) • [Telescopes & Binoculars](#) • [2014 Astro Calendars](#) • [Digital Prints](#)

PRODUCT GUIDE

BEST BOOKS
ON SALE

NIGHTWATCH
A Practical Guide to Viewing the Universe
TERENCE Dickinson
Fourth Edition Revised and Expanded to Use Through 2025

[More info](#) | [Buy now](#)
• Save 40-50% •
★★★★★
200+ Customer Reviews
• Highly Recommended •

THE BACKYARD ASTRONOMER'S GUIDE

The Evening Sky Map

The Evening Sky Map (PDF) is a 2-page monthly guide to the night sky suitable for all sky watchers including newcomers to Astronomy.

Designed to print clearly on all printers, The Evening Sky Map is ready-to-use and will help you to:

- Identify planets, stars and major constellations
- Find sparkling star clusters, wispy nebulae & distant galaxies
- Locate and follow bright comets across the sky
- Learn about the night sky and Astronomy

Read some of the [fantastic feedback](#) we have received.

The Evening Sky Map is FREE for personal non-commercial

PRODUCT GUIDE

PLANISPHERES
All sky watchers need a planisphere to quickly show the location of stars and constellations for any date and time. Note: Planispheres are designed for specific latitudes so be sure to select one for your latitude.

The Night Sky Planisphere
A very popular 8-inch diameter, two-sided planisphere (plastic) designed to depict the night sky with less distortion than regular planispheres. Available for several latitudes, and in a smaller 5-inch edition.
[More info](#) | [Buy now](#)
• Only \$11.95 •
★★★★★
50+ Customer Reviews

<http://www.skymaps.com/downloads.html>

Best planetarium program???



<http://www.stellarium.org/>

When it is cloudy we can
always find something on
the internet,



NASA Eyes: Earth, Solar System and Exoplanets



<http://eyes.nasa.gov/earth/index.html>

NASA Project Data Sites



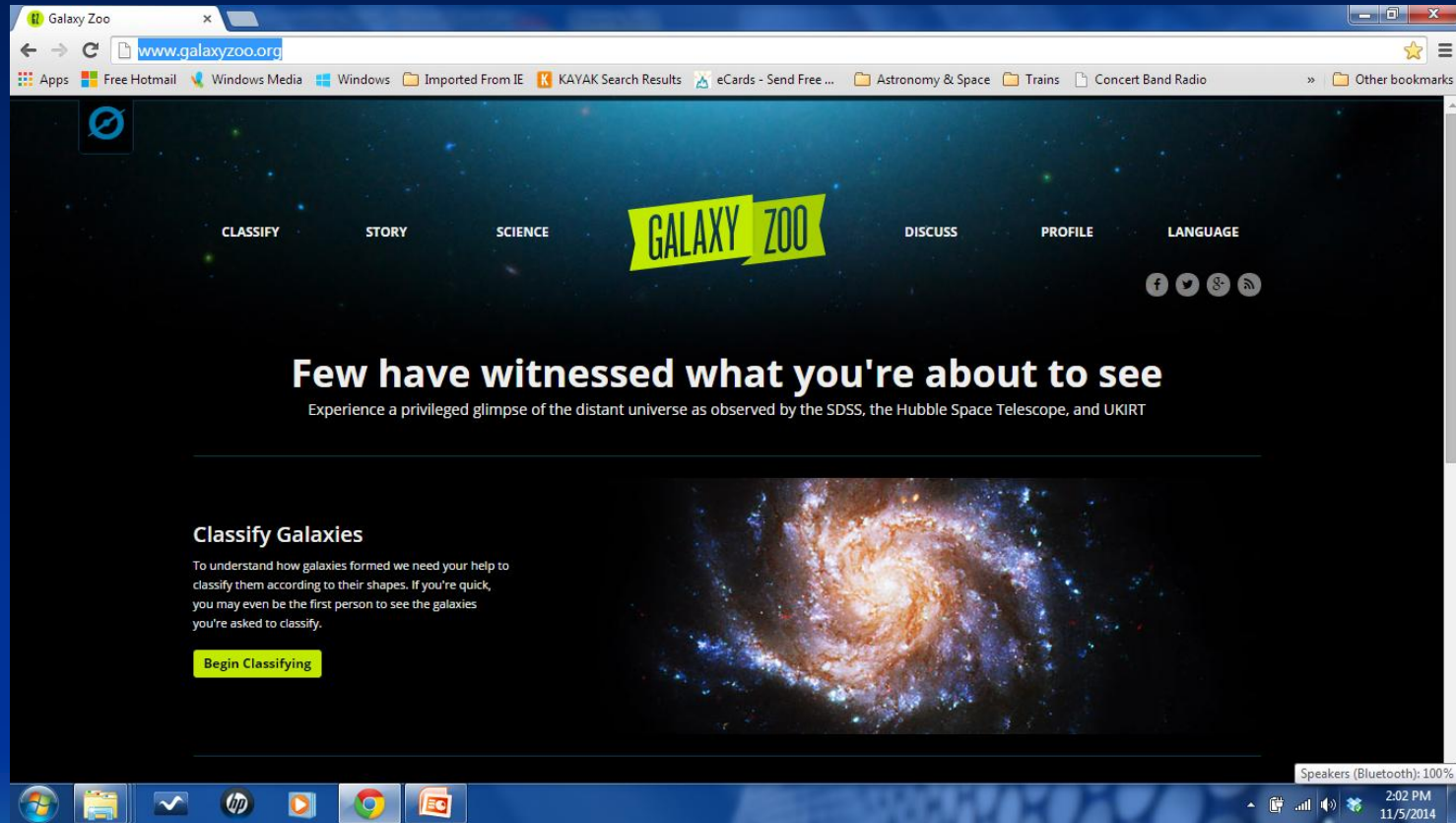
<http://ciclops.org/?js=1>

Planetary Society



<http://planetary.org/>

Citizen Science



<http://www.birds.cornell.edu/citscitoolkit/projects/find/astronomy>

CAS Elections

The following have submitted their for the November elections. No other names have been submitted.

President – Chris Nichols

Vice – President – Wes Epperly

Treasurer – Mike Hegadus

Secretary / Web Master – Larry Saunders



CONGRATULATIONS
TO THE NEW OFFICERS
AND

THANK YOU !!!

TO OUTGOING OFFICERS

Rich, VP and Ed, Treasurer
and Larry who will be
sticking around



Club Business

- 104 members (dues paid) **Dues Due in December**
- Checking account and Cash on Hand: \$3,458.35
- We made \$100.00+ at Fan Mountain Concessions
- Email Mike Hegadus for information on discounted subscriptions to Astronomy and Sky and Telescope
- ngc6705@comcast.net



Club Scopes

- Club Scopes available for use by members <http://cvilleastro.com/club-telescopes-available-for-club-member-use/>
 - See Wes for information wepperly@yahoo.com



AL Observing Clubs

What club are you working on ???



CAS Library



The Library is
DOWNSTAIRS
Check it out

Updated Monthly
Do you have books or videos
to contribute?

Member of the Month

- Born in New Orleans
- Music was a focus early on but sold clarinet to purchase first telescope – a small refractor
- First observatory was built to house a Meade 8" SCT



- Tried astrophotography with Astro-Physics scope and mount but felt too much time was spent looking at a computer.
- Retired from law practice in New Orleans and moved to Charlottesville in 2014 to be closer to grandchildren.
- Most notable astronomical experience was seeing total eclipse in Venezuela

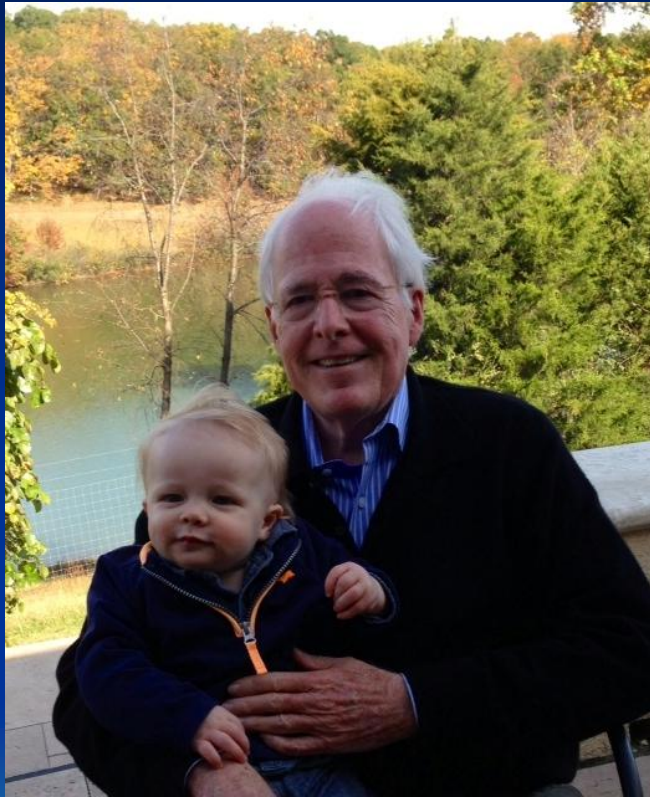


- Currently spends observing time with a Tele Vue Pronto

And the member is.....



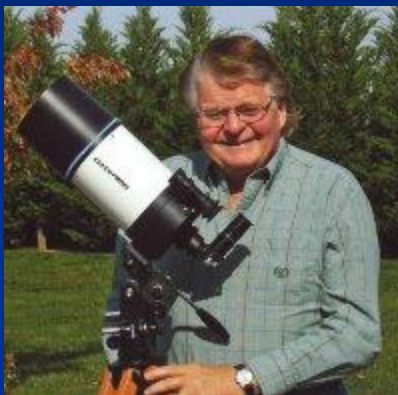
Charles Hamilton



Upcoming Speakers

December

Wednesday, December 3



**Jim Mullany, Astronomer and Author
Observing Double Stars and the Herschel Objects**

Upcoming Speakers

January

Wednesday, January 7

Video Lecture



Elisa Quintana, Kepler and SETI Institute Scientist
“Kepler 186f – First Earth Sized Planet Orbiting in the
Habitable Zone of Another Star”

Upcoming Speakers

February

Wednesday, February 4



Greg Redfern, NASA Solar System Ambassador “The Chesapeake Bay Impact Crater – the Inside Story of America’s Largest Impact Crater

Upcoming Speakers

March

Wednesday, March 4

???

Would you like to present?

Would you like to suggest a speaker?



Upcoming Speakers

April

Wednesday, April 1



Larry Daggert, Former Manager of the Engineering and Technical Services (ETS) department for the National Optical Astronomy Observatories (NOAO).

AstroOP

- We are in the process of reaching out to the science teachers in the area to offer:
- FREE Club membership
- Guest Speakers
- Assistance with astronomy related activities
- AstroOP Newsletters will be produced quarterly



Mark Your Calendar

- Next Ivy Creek First Fridays is THIS FRIDAY, November 7, 8:00 – 10:00 pm
- CAS Holiday Party, Saturday, December 13, 7:00 – 11:00 pm
- Next Heidi's Night is Friday, January 30, 7:00 – 9:00 pm



Door Prize Drawing

