

HOAS



NEWSLETTER VOLUME 40 ISSUE 13 JULY 2014

PUBLIC OPEN HOUSE

SAT. JULY 5TH AT 8:30PM

NEXT MEMBERS' OBSERVING NIGHT

SAT. JULY 26, 2014 @8:30 PM

HCAS OBSERVATORY

BOARD OF DIRECTORS MEETING

THURS. JULY 10TH AT 6:30PM

GENERAL MEETING

THURS. JULY 10TH AT 7:00PM

HCAS OBSERVATORY CLASSROOM



PLEASE CHECK OUR WEBSITE FOR POSSIBLE SCHEDULE UPDATES AND CHANGES AT [HTTP://WWW.HARFORDASTRO.ORG](http://www.harfordastro.org)
AND OUR FACEBOOK PAGE AT [HTTP://WWW.FACEBOOK.COM/HARFORDASTRO](http://www.facebook.com/harfordastro)

MINUTES FROM GENERAL MEMBERSHIP MEETING

THERE WERE NO MINUTES FROM THE PAST MEETING SUBMITTED.

WELCOME NEW MEMBERS!!!

LET'S WELCOME TO THE CLUB THE FOLLOWING PEOPLE:

GREG LANDRY AND FAMILY

THE EDITOR WISHES TO APOLOGIZE FOR A MISTAKE AND TYPO ERROR

MEMBERSHIP DRIVE 2014 – 2015

THE MEMBERSHIP DRIVE CONTINUES, WE HAVE JUST 25 MEMBERS SIGNED UP FOR NEXT YEAR,
AND THE **SECOND NOTICE** HAS BEEN SENT OUT, PLEASE SEND IN YOUR RENEWAL AS SOON AS POSSIBLE

TIM KAMEL

BACKYARD ASTRONOMY

LARRY HUBBLE



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THE 'LITTLE DUMBBELL NEBULA'

AKA: M76 THE BARBELL NEBULA, OR THE CORK NEBULA

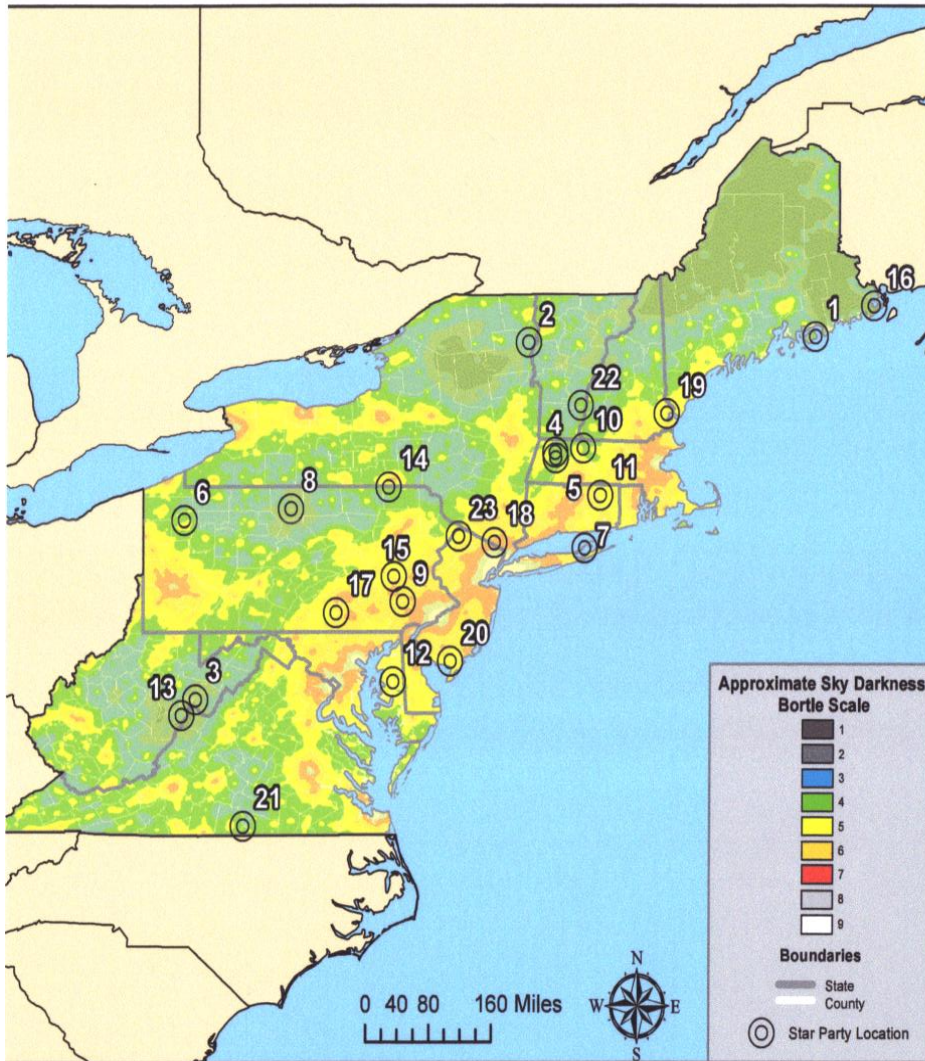
**@ 2,500 LIGHT YEARS, AND (1.23 LY ACROSS) THAT'S (7.38 TRILLION MILES WIDE) REALLY!
FOUND IN THE CONSTELLATION OF PERSEUS.**

The UV-light from the PNN is expanding outer layers that form the present nebula, and has the surface temperature of about 88,400 K. The whole planetary nebula is approaching us at 19.1 km/s **What!**

Image:

CGEM 1100, Canon 50D, QHY5L-II Guider, CLS LP filter, f6.3 FR, 6x4 minute subs, darks taken @ ISO 1000

Northeast Star Parties



Events and Websites

1. Acadia Night Sky Festival
www.acadianightskyfestival.com
2. Adirondack
www.adirondackastronomyretreat.org/
3. Almost Heaven Star Party
www.ahsp.org/
- 4.* AOS Starfest
www.aosny.org/starfest/
5. Arunah Hill Days
www.arunah.org/events/ahd.htm
6. Astroblast
www.oras.org/astrblst.htm
7. Astronomy Jamboree
www.custerobservatory.org
- 8.* Black Forest Star Party
www.bfsp.org
9. CAS Starfest
www.chesmontastro.org/node/8199
- 8.* Cherry Springs Star Party
www.astrohbg.org/CSSP/Information.html
10. Connecticut River Valley Astronomers Conjunction
www.philharrington.net/astroconjunction/program.htm
11. Connecticut Star Party
www.asnh.org/slideshow/CSPpicIndex.php
12. Delmarva Star Gaze
www.delmarvastargazers.org/archive/StarPartyHome.htm
13. Green Bank Star Quest
www.greenbankstarquest.org/
14. Kopernik Starfest
www.kopernikastro.org/astrofest/
15. LVAAS MegaMeet - Club and Regional Club Members Only
www.lvaas.org/staticpages/index.php?page=megameet
16. Maine State Star Party
www.downeastaa.com/
17. Mason Dixon Star Party
www.masondixonstarparty.org/
18. NEAF Solar Star Party
www.neafsolar.com/
19. New England Fall Astronomy Festival
www.physics.unh.edu/observatory/NEFAF
- 4.* RAC Summer
www.rocklandastronomy.com/SSP/index.html
20. SJAC Star Party
sjac.us/starparty.html
21. Staunton River
www.chaosastro.com/starparty/
22. Stellafane Convention
www.stellafane.org/convention/
23. Stokes Star Party



HarfordAstro.org
Created By:
Kirby Kitchell 2012

Note:
Light pollution basemap is approximate and is not a guarantee of limiting magnitude at each site.

Some star parties require advance registration and/or a fee. Please see relevant website for details.

* = Multiple star parties use same location

THIS NEWSLETTER IS THE OFFICIAL PUBLICATION OF
HARFORD COUNTY ASTRONOMICAL SOCIETY
P.O. Box 906,
BEL AIR, MD 21014

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PLEASE SEND ALL CONTRIBUTIONS (MS WORD FORMAT IS STRONGLY ENCOURAGED) TO EDITOR AT:

HCASNEWSLETTER@GMAIL.COM

4.- ADDRESS CHANGES SHOULD BE BROUGHT TO THE ATTENTION OF THE EDITOR AT THE ADDRESS GIVEN ABOVE.

5.- COMPLAINTS CONCERNING ANY CONTENT OF THIS NEWSLETTER SHOULD BE BROUGHT TO THE ATTENTION OF THE EDITOR PROMPTLY.

VISIT OUR WEBSITE AT: [HTTP://WWW.HARFORDASTRO.ORG](http://WWW.HARFORDASTRO.ORG)

HCAS MISSION STATEMENT

WHAT IS HCAS?

HCAS IS A GROUP OF PEOPLE FROM VARIED BACKGROUNDS OF ALL AGES, MEN AND WOMEN, WITH A COMMON BOND – A LOVE FOR ASTRONOMY. HCAS IS ASSOCIATED WITH HARFORD COMMUNITY COLLEGE AND HAS USE OF THE HCC OBSERVATORY AND MEETING ROOMS.

OUR MEMBERS ARE FRIENDLY AND WELCOME ANYONE WITH AN INTEREST IN ASTRONOMY – A BEGINNER OR AN ADVANCED OBSERVER AND/OR ASTRO-PHOTOGRAPHER. HCAS IS COMMITTED TO THE PEOPLE OF HARFORD COUNTY TO ASSIST AND AUGMENT LEARNING AND INTEREST IN ASTRONOMY AS WELL AS PROVIDING STRONG, ALL-VOLUNTEER OUTREACH PROGRAMS TO SCHOOLS, CLUBS AND OTHER INTERESTED ORGANIZATIONS.

GOALS

PROMOTE THE INTEREST AND LOVE OF ASTRONOMY FOR THE PEOPLE OF HARFORD COUNTY, MARYLAND.

ADVOCATE FOR DARK SKIES AND FIGHT LIGHT POLLUTION AND LIGHT TRESPASS.

ENGAGE WITH SCHOOLS, CHURCHES, SCOUTS AND OTHER GROUPS TO EXPAND KNOWLEDGE AND INTEREST IN ASTRONOMY.

ESTABLISH AND MAINTAIN AN ATMOSPHERE AT THE OBSERVATORY WHERE EVERYONE IS INCLUDED AND INVITED TO JOIN AND SHARE ASTRONOMY BY VISUAL OBSERVING AS WELL AS ASTRO-PHOTOGRAPHY, REGARDLESS OF SKILL LEVEL OR EDUCATION.

