



The Night Sky

The Newsletter of
The Astronomy Club of Akron
www.acaoh.org

Volume 41 Number 7

July 2019

SUMMER BREAK! NO MEETING THIS MONTH!

ACA NEWS AND NOTES **JULY 2019**

ACA Membership Renewals Due

ACA is on summer hiatus from membership meetings until our September meeting scheduled for 8:00 p.m. on Friday, September 27th. The ACA Board, however, sends a gentle reminder that membership fees are due for the upcoming year on or before that date. Feel free to mail your dues to treasurer Nick Mihiylov at:

The Astronomy Club of Akron
c/o Nick Mihiylov
13495 Mogadore Avenue NW
Uniontown, Ohio 44685-9347

Membership dues pays for observatory maintenance and insurance, dinner for our guest speakers, membership picnic entree, pavilion fees, and any costs incurred in support of our outreach programs. Your membership is needed and much appreciated!

Upcoming ACA Events

Continuing our celebration of ACA's 70th anniversary, the ACA Board has planned these upcoming events:

ACA is celebrating its anniversary along with the 50th anniversary of the lunar landing on July 20th. Activities are planned for the whole family beginning at 6:00 p.m. with a hot dog roast. Attendees can purchase a meal consisting of hot dog, chips, drink, and complimentary MOON PIE for \$3.00. Observatory Director Ron Kalinoski has planned solar viewing, a telescope seminar, and star party. Jim Watson will give a presentation on radio telescopes. Mark your calendars and join us for this double anniversary celebration!

The annual Members Picnic is Sunday, August 4th at Big Oaks Pavilion in Portage Lakes State Park. The picnic is scheduled for 3:00 p.m. ACA will provide the burgers and dogs. Members attending will bring a dish to share. Please mark your calendars and plan to join us for this popular gathering!

Star Parties

Upcoming Star Parties are scheduled for 9:00 p.m. on July 20th and July 27th. The August 31st Star Party moves to 8:30 p.m. For details about what Observatory Director Ron Kalinoski has on the viewing list, see the 2019 Observatory Schedule found on the ACA website. Also check out the website often for notice of Impromptu Star Parties. Stop in at the ACA Observatory to support these outreach events!

MVAS OTAA Event

The Mahoning Valley Astronomical Society [MVAS] will host the Ohio Turnpike Astronomers Association [OTAA] meeting on Saturday, August 24th from 5:00 p.m. to 11:30 p.m. at Mahoning Valley Cortese Observatory (MVCO), 1076 Ohio Route 534, West Farmington, Ohio 44491. A number of ACA members attend this well-planned annual event. If you have never gone, consider going this year. A potluck dinner (6:00), door prizes (7:00), and program (8:00), are followed by an observation session (weather permitting) at dusk under dark skies. This event occurs rain or shine. Please support our fellow OTAA club member and attend!

Special Thanks

ACA thanks all who took part in our most recent outreach events. The ACA/Akron Public Library co-sponsorship of NASA Astronaut Mike Foreman on June 20th was successful and especially gratifying. With over 300 in attendance, ACA members greeted attendees while handing out the ACA informational brochure, ACA Star Party schedule, and a number of materials created by NASA. It was wonderful to see so many families in the audience! A heartfelt thanks to Michele McNeal from the Akron Public Library for making ACA participation in this special event possible. On June 22nd, ACA volunteers were back at the Akron Public Library to participate in Astronomy Day. Special thanks to all who volunteered to represent ACA:

- *Marissa Fanady for displaying her meteorite collection and speaking with attendees. *Glenn Cameron for setting up his telescope and helping attendees as they looked through at distant objects.
- *Ann Ferrell, Gregg and Debbie Crenshaw, Jim and Susan Swift, Cathy Loboda and granddaughter Ella for manning the ACA table, distributing club informational brochures, setting up and breaking down our displays.



ASTRONOMY CLUB OF AKRON presents: Footsteps on the Moon



July 20th 6 p.m.- 11:00 p.m.
Bring the family!

~Hot Dog Roast - \$3 donation: Hot Dog, Chips, Tang and a complimentary Moon Pie!

~Telescope Seminar: Learn about refractors, reflectors, radio telescopes, SCT, binoculars, & eyepieces.

~ Solar Observing & Star Party: Observe the Sun, Jupiter, Saturn, Ring Nebula, & more!

For more information visit: www.acao.org

Portage Lakes State Park Observatory:

5031 Manchester Rd.
New Franklin, Ohio 44319

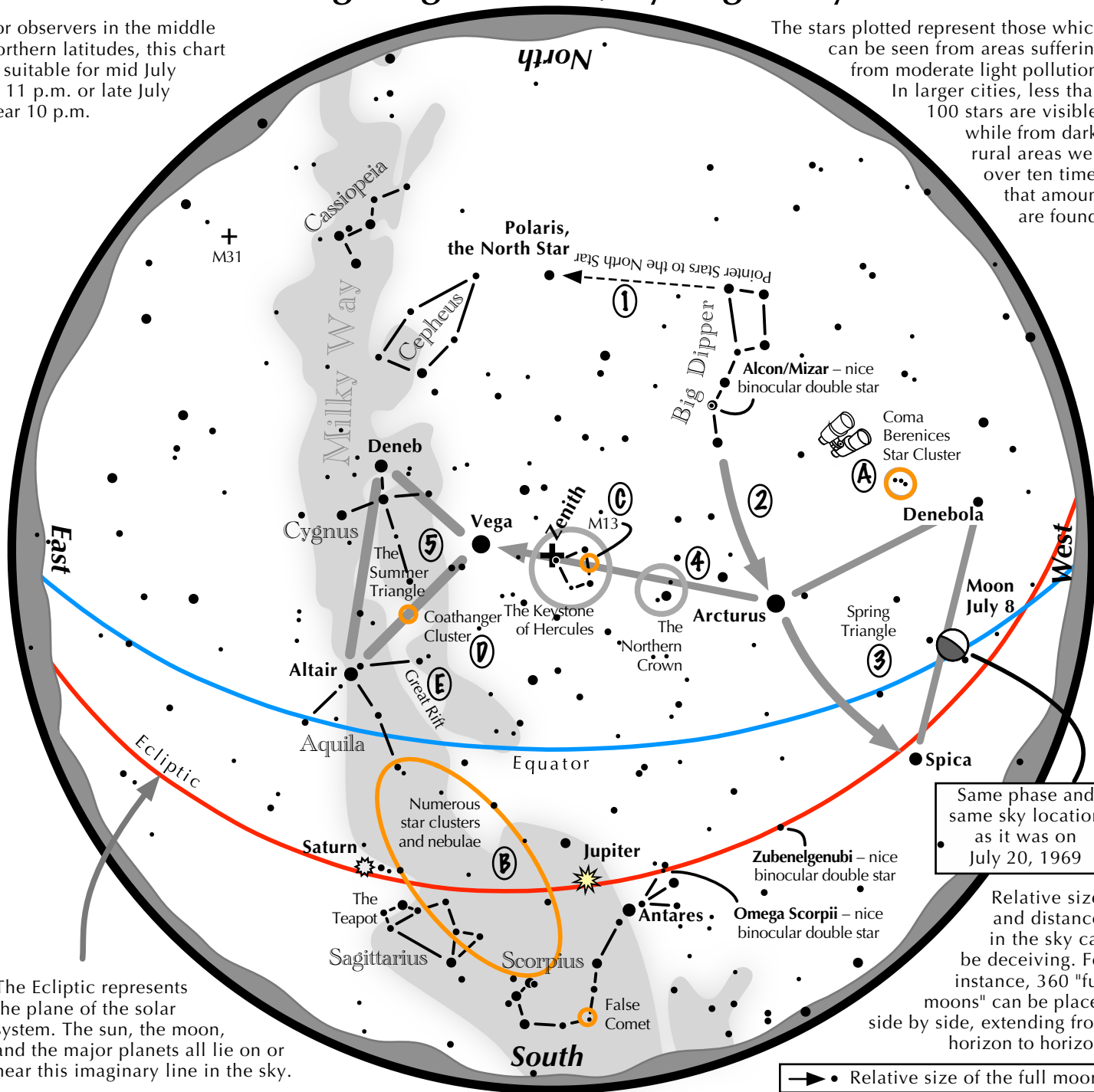
Plenty of free parking!



Navigating the mid July Night Sky

For observers in the middle northern latitudes, this chart is suitable for mid July at 11 p.m. or late July near 10 p.m.

The stars plotted represent those which can be seen from areas suffering from moderate light pollution. In larger cities, less than 100 stars are visible, while from dark, rural areas well over ten times that amount are found.



The Ecliptic represents the plane of the solar system. The sun, the moon, and the major planets all lie on or near this imaginary line in the sky.

Same phase and same sky location as it was on July 20, 1969

Relative sizes and distances in the sky can be deceiving. For instance, 360 "full moons" can be placed side by side, extending from horizon to horizon.

→ • Relative size of the full moon.

Navigating the mid July night sky: Simply start with what you know or with what you can easily find.

- 1 Extend a line north from the two stars at the tip of the Big Dipper's bowl. It passes by Polaris, the North Star.
- 2 Follow the arc of the Dipper's handle. It first intersects Arcturus, the brightest star in the July evening sky, then continues to Spica.
- 3 Arcturus, Spica, and Denebola form the Spring Triangle, a large equilateral triangle.
- 4 To the northeast of Arcturus shines another star of similar brightness, Vega. Draw a line from Arcturus to Vega. It first meets "The Northern Crown," then the "Keystone of Hercules." A dark sky is needed to see these two dim stellar configurations.
- 5 High in the East lies the Summer Triangle stars of Vega, Altair, and Deneb.

Binocular Highlights

- A: Between Denebola and the tip of the Big Dipper's handle, lie the stars of the Coma Berenices Star Cluster.
- B: Between the bright stars Antares and Altair, hides an area containing many star clusters and nebulae.
- C: On the western side of the Keystone glows the Great Hercules Cluster, containing nearly 1 million stars.
- D: 40% of the way between Altair and Vega, twinkles the "Coathanger," a group of stars outlining a coathanger.
- E: Sweep along the Milky Way for an astounding number of faint glows and dark bays, including the Great Rift.



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OTAA Representative

Lou Poda

June Treasurer's Report

By Nick Mihiylov

6/1/2019 Through 6/30/2019

Checking Beginning Balance	\$963.55
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Income

Total Income	\$487.50
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Expenses

CK#1237 - Cotton Expressions - T-Shirts	-159.43
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CK#1238 Ron Kalinoski - Observatory Schedules, etc	-136.66
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CK1239 Ann Ferrell - Advertizing Literature For Events	-98.64
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Debit - UPS Store Brochures	-250.86
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Total Expenses	-645.59
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Income Less Expenses	-\$645.59
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Checking Ending Balance	\$317.96
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Savings Beginning Balance	\$2,567.32
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Earned Interest	0.04
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Savings Ending Balance	\$2,567.36
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Petty Cash Beginning Balance	\$50.00
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	0.00
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Petty Cash Ending Balance	\$50.00
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Petty Cash	50.00
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Savings	2,567.36
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Checking	317.96
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Grand Total	\$2,935.28
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Article by Nick Mihiylov
ACA Treasurer.

SWAP & SHOP



FOR SALE:

Orion Sirius 40mm Plossl

Asking: \$25

Contact: Glenn Cameron

Phone: 330-737-1472

Email: glenn@cameronclan.org

FOR SALE:



Televue Radian 12 mm Eyepiece

- Excellent condition.

Asking: \$180 (cash)

Contact: Fred Fry

Email:

riverfry@gmail.com

FOR SALE:



Televue Radian 18 mm Eyepiece

- Excellent condition.

Asking: \$180 (cash)

Contact: Fred Fry

Email:

riverfry@gmail.com

FOR SALE:

Celestron CPC Deluxe 800 HD Telescope with tripod.

Accessories:

- Celestron 1.25" eyepiece and filter kit.
- Tele Vue nebula filter.
- Celestron UHC/LPR filter.
- Celestron 15mm 1.25" 82 degree wide field eyepiece.
- Stellarvue 1.25" Dielectric Diagonal.
- Stellarvue 1.25" erecting prism.
- Celestron power tank and dew shield.
- Astrozap sun filter.
- Celestron AC adaptor.
- JMI custom hard shell case for telescope.

All 8 months old, brand new condition.

Asking: \$2200

Contact: Jim Hall

Phone: 330-268-8695

FOR SALE:



Pentax XW 20mm Eyepiece

- Excellent condition.
- Small mark on 1.25" barrel.
- Always used in a compression clamp.

Asking: \$220 (cash)

Contact: Fred Fry

Email: riverfry@gmail.com

FOR SALE:

Celestron NexStar 8i computerized to go 8" F/10 Schmidt-Cassegrain

Focal length 2032 mm with 406x highest useful power.

Includes:

- GPS module.
- Five multicoated Plössl eyepieces.
- 2X Barlow lense.
- Seven filters.
- A/C adaptor.
- Night vision flash.
- Celestron star pointer.

All rarely used and in new condition.

Cost \$1,689 new.

Asking: Best Offer

Contact: Nick Bade

Email: nb@tribco.com

Phone: 216-486-2000 weekdays and

440-585-8687 evenings and weekends.

Advertise in the Swap n Shop!

Send a picture of your **ASTRONOMY RELATED** item and relevant information to the newsletter editor:

speedymissy@yahoo.com

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Newsletter of the Astronomy Club of Akron

c/o Marissa Fanady, Editor

1714 Toepfer Rd.

Akron OH, 44312

The Astronomy Club of Akron

c/o Nick Mihiylov

13495 Mogadore Avenue NW

Uniontown, Ohio 44685-9347

Yes! I want to become a member of the Astronomy Club of Akron

www.acaoh.org

(PLEASE PRINT)

NAME: _____ PHONE: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

EMAIL ADDRESS: _____

Astronomy Club of Akron annual memberships renew in the month of September.

ADULT (ages 18 and older) ___\$30.00

JUNIOR (ages 12 to 17) _____\$15.00

ADDITIONAL ADULT member ___\$15.00

FAMILY MEMBERSHIP _____\$40.00

Visit us on the Web at www.acaoh.org,