



# The Night Sky

The Newsletter of  
The Astronomy Club of Akron  
[www.acaoh.org](http://www.acaoh.org)

Volume 42 Number 3

March 2020

## ACA NEWS AND NOTES MARCH 2020

### **March ACA Meeting Canceled**

As you are likely aware, the novel coronavirus COVID-19 has reached Northeast Ohio with confirmed cases. The health and safety of ACA members and the community remains our primary concern.

Governor DeWine held press conferences specifically asking all institutions to implement actions to minimize the impact of COVID-19 spreading. While we recognize that these actions may cause a temporary disruption, please know that we are making decisions to minimize the advancement of the disease. To that end, the ACA Board has decided to cancel the ACA meeting scheduled for Friday, March 27th. Our scheduled speakers, Jodi and Roy McCullough have agreed to return to present in the fall. The board will make decisions about future meetings and club events as needed. Please keep your eye on the ACA website and your email account for important club communication in the future.

### **Annual Summer Picnic**

The next ACA Members Social is our summer picnic scheduled for Sunday, August 30th.  
Here are the details:

What: Members Annual Summer Picnic

When: Sunday, August 30th  
3:00 pm

Where: Portage Lakes Big Oaks Shelter  
Portage Lakes State Park

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!

### **May Elections Slate Of Officers**

Just a reminder that this is an election year for ACA. Normally, a proposed slate of officers are presented during the March meeting followed by the election during the April meeting. Elected officers then begin their term with the May meeting. Since the ACA March meeting is canceled, the proposed slate of officers up for election will be presented to membership via this newsletter:

President - open  
Vice President - Glenn Cameron  
Treasurer - Dave Hartsook  
Secretary - Gary Smith  
Assistant Secretary/Treasurer - Jim Swift  
Newsletter Editor - Marissa Fanady

Nominations for the office of President will be taken from the floor during the April meeting. If the slate is not full, each office will be presented individually for a vote. Thank you to all who agreed to serve!

### **Star Parties**

Observatory Director Ron Kalinoski recently published the schedule for this year's star parties. Contact Ron for a hard copy or check it out on the ACA website.

### **Future ACA Trips**

Ann Ferrell is working on planned trips to Green Bank Observatory in West Virginia and Yellowknife in Canada. The Green Bank trip will take place this summer. Ann is preparing trip dates for members to choose from. This is a weekend trip with an overnight stay. Marnie Sanders is inquiring about accommodations in the area. Members will be driving to Green Bank.

The Yellowknife trip will hopefully happen in the fall. Members will fly to Yellowknife and spend the week in search of the aurora borealis.

### **NEAF**

For those planning to attend NEAF: The event has been delayed; will be rescheduled to a later date to be announced. An online event (details to be announced later) will take place on the date originally scheduled for the event.

## **February 28, 2020 Meeting Minutes**

After informative video of Greenbank Observatory, the meeting was called to order at 9:15 pm.

-Treasurer's report - approved.

-Minutes of 1/24/2020 - approved.

-Old Business:

1. Feb 9th Social at Galaxy: 21 delightful attendees, all enjoyed!

2. Summer Members picnic: only date available Aug 30th, will re-verify availability and confirm.

3. Camp Bear (Chops): reminder May 29th.

4. Downtown Akron: Will propose Aug 29th for solar and night sky telescopes: Glenn, Gregg, Ron (?) and Michelle (?) & any others (?) as date approaches. Jupiter/Saturn and 1st quarter Moon prominent. Downtown will promote (weather permitting), and club will designate placement. Michelle proposed a parking lot behind the Akron Art building for minimum light pollution.

5. Greenbank update: 5 hour travel, so overnight(s?). Marnie will collect info on accommodations, etc.

6. Yellowknife trip: since Jodi McCullogh was rescheduled to March meeting, more discussion on this trip will ensue after her presentation.

7. Officer nominations: These are due for March meeting, per by-laws. Ron and Susan will continue to contact members for positions. Dave Hartsook has accepted nomination for Treasurer. THANKS DAVE! Glenn has agreed to be considered if no other members are willing. THANKS GLENN! Cathy reminded: current officers have served well beyond reasonable expectations, and if no officers, no meetings.

-Observatory Report: Great Orion Nebula was magnificent (with rarely seen details!) during very cold 2/21 impromptu with M37, Pleiades, and Beehive also in the scope! Ron also noted that Mercury and Venus have also been worthy of viewing this month. Other observations or inquiries: Gregg reported a possible 3rd magnitude comet may be visible later in the summer.

-New Business: none at this time.  
-March Meeting: The McCulloch's will present Betelgeuse and Yellowknife program.  
Meeting adjourned: 9:55 pm.

*Article By Marnie Sanders  
ACA Substitute Secretary*

## March Astronomical Events

Day Hour(UT)  
01 00 Venus 44.6° E  
02 14 First Quarter 14:57  
04 09 Moon A Node 09:58  
04 20 Moon N Dec 20:34  
06 16 Moon-Beehive 16:08  
08 08 Neptune Sun 08:09  
09 13 Full Moon 13:48  
10 02 Moon Perigee 02:33  
16 05 Last Quarter 05:34  
16 21 Moon D Node 21:00  
17 10 Moon S Dec 10:07  
18 04 Moon-Mars 04:19  
18 06 Moon-Jupiter 06:18  
18 20 Moon-Saturn 20:04  
19 23 Spring Eq 23:50  
20 06 Mars-Jup 06:24  
21 13 Moon-Mercury 13:48  
23 21 Mercury West 21:59  
24 05 New Moon 05:28  
24 11 Moon Apogee 11:23  
24 17 Venus East 17:59  
31 12 Moon A Node 12:51  
31 16 Mars-Sat 16:00

*Sky Events Calendar by Fred Espenak and Sumit Dutta (NASA's GSFC)*

## April Astronomical Events

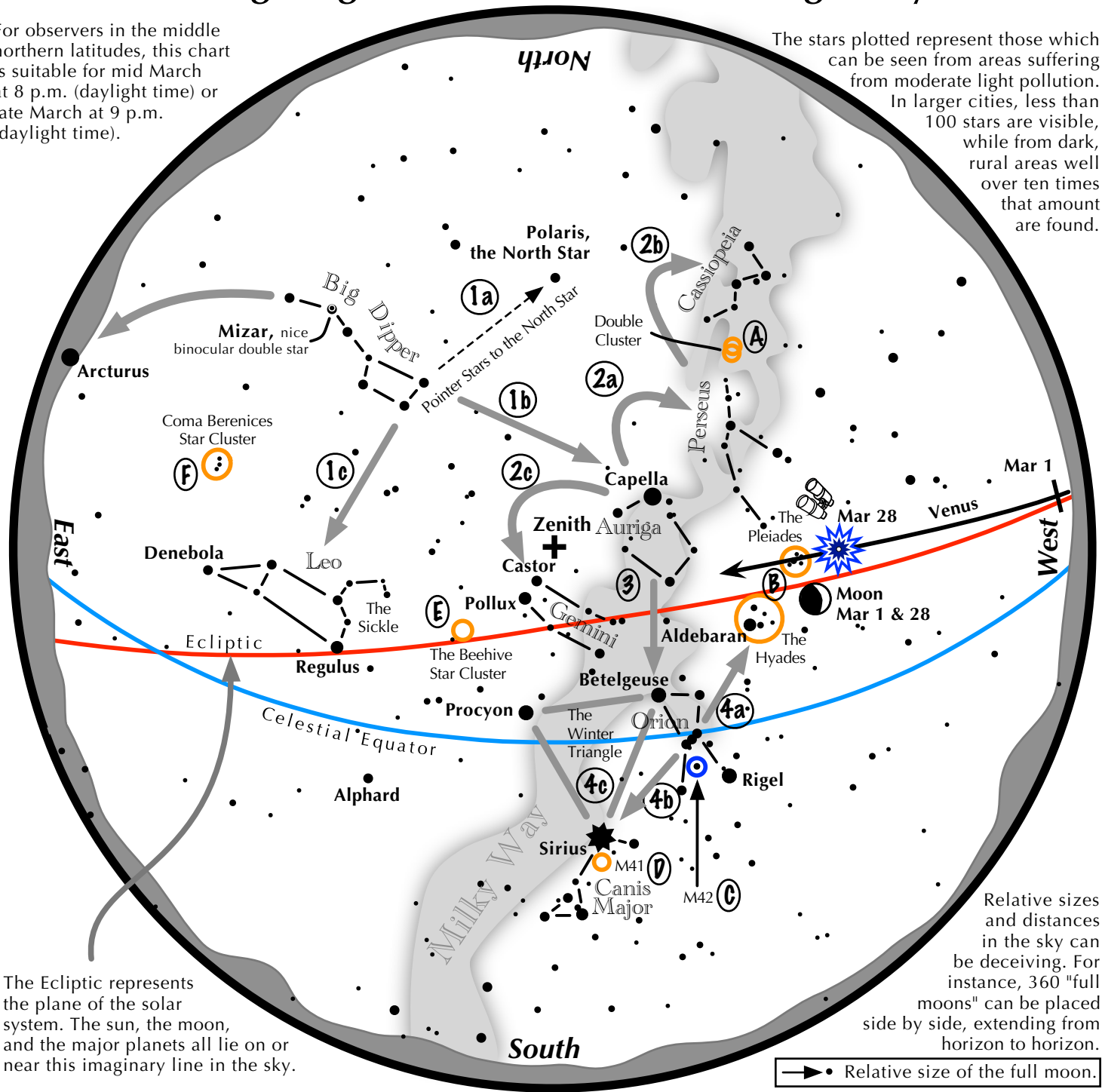
Day Hour(UT)  
01 05 Moon N Dec 05:12  
01 06 First Quarter 06:21  
01 00 Venus 45.9° E  
03 02 Moon-Beehive 02:24  
03 10 Venus-M45 10:39  
07 14 Moon Perigee 14:08  
07 22 Full Moon 22:35  
12 22 Moon D Node 22:58  
13 17 Moon S Dec 17:03  
14 18 Last Quarter 18:56  
14 19 Moon-Jupiter 19:04  
15 05 Moon-Saturn 05:26  
16 00 Moon-Mars 00:33  
20 15 Moon Apogee 15:01  
22 02 Lyrids 02:07  
22 22 New Moon 22:26  
26 06 Uranus Sun 06:19  
26 11 Moon-Venus 11:23  
27 13 Moon A Node 13:54  
28 11 Moon N Dec 11:23  
30 09 Moon-Beehive 09:17  
30 16 First Quarter 16:38

*Sky Events Calendar by Fred Espenak and Sumit Dutta (NASA's GSFC)*

# Navigating the mid to late March Night Sky

For observers in the middle northern latitudes, this chart is suitable for mid March at 8 p.m. (daylight time) or late March at 9 p.m. (daylight time).

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.

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 March night sky: Simply start with what you know or with what you can easily find.

- 1** Above the northeast horizon rises the Big Dipper. Draw a line from its two end bowl stars upwards to the North Star. Its top bowl stars point west to Capella in Auriga, nearly overhead. Leo reclines below the Dipper's bowl.
- 2** From Capella jump northwestward along the Milky Way to Perseus, then to the "W" of Cassiopeia. Next jump southeastward from Capella to the twin stars of Castor and Pollux in Gemini.
- 3** Directly south of Capella stands the constellation of Orion with its three Belt Stars, its bright red star Betelgeuse, and its bright blue-white star Rigel.
- 4** Use Orion's three Belt stars to point northwest to the red star Aldebaran and the Hyades star cluster, then to the Pleiades star cluster. Travel southeast from the Belt stars to the brightest star in the night sky, Sirius. It is a member of the Winter Triangle.

### Binocular Highlights

**A:** Between the "W" of Cassiopeia and Perseus lies the Double Cluster. **B:** Examine the stars of the Pleiades and Hyades, two naked eye star clusters. **C:** M42 in Orion is a star forming nebula. **D:** Look south of Sirius for the star cluster M41. **E:** M44, a star cluster barely visible to the naked eye, lies to the southeast of Pollux. **F:** Look high in the east for the loose star cluster of Coma Berenices.



## OFFICERS 2018 – 2020

### President

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### Statutory Agent

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Phone: E-mail:

### OTAA Representative

Lou Poda

## February Treasurer's Report

By Nick Mihiylov

2/1/2020 Through 2/29/2020

Checking Beginning Balance	\$2,403.44
<b>Income</b>	
Memberships	30.18
<b>Total Income</b>	<b>\$30.18</b>
<b>Expenses</b>	
Ck# 1245 Speaker Dinner Reimbursement to Ann Ferrell	<b>-48.54</b>
<b>Total Expenses</b>	<b>-\$48.54</b>
<b>Income Less Expenses</b>	<b>-\$18.36</b>
Checking Ending Balance	\$2,385.08
<hr/>	
Savings Beginning Balance	\$2,567.64
Earned Interest	0.04
<b>Savings Ending Balance</b>	<b>\$2,567.68</b>
<hr/>	
Petty Cash Beginning Balance	\$50.00
	0.00
<b>Petty Cash Ending Balance</b>	<b>\$50.00</b>
<hr/>	
Petty Cash	50.00
Savings	2,567.68
Checking	2,385.08
<b>Grand Total</b>	<b>\$5,002.76</b>

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  
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RELATED** item and  
relevant information  
to the newsletter  
editor:

mfanady@yahoo.com

# The Night Sky

Newsletter of the Astronomy Club of Akron  
c/o Marissa Fanady, Editor  
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Akron OH, 44319

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**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](http://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](http://www.acaoh.org),