

Newsletter of
The Black River Astronomical Society

Guidescope

Lorain County, Ohio
Website: blackriverastro.org

June 2017
Newsletter submissions: [Editor](#)

Friday, June 2, 10-midnight (cloud backup June 3): Public observing, Nielsen Observatory

--Wednesday, June 7, 7 p.m.: Regular meeting, Carlisle Visitor Center
Program: "Motions: Guideposts of the Cosmos" by Dan Walker

--Thursday, June 15, 7 p.m.: Board meeting, Blue Sky Restaurant, Amherst

--Saturday, June 17, noon-4, Worldwide Solstice Festival solar viewing, Lakeview Park / CVAS OTAA 6 p.m. - ?

--Friday, June 30, 10 p.m. - midnight (cloud backup July 1): Public observing, Nielsen Observatory

Visit Our Website!

Explore if you will the informative BRAS [website](#) and all its interesting, timely [links](#), and join the interactive members-only [BRAS Forum](#) to better keep in touch.

BOARD SUMMARY May 11, 2017

The BRAS Board of Directors meeting convened at 7:04 p.m. with eight Directors present. Minutes from the April meeting were read and approved as was the Treasurer's report. Under Committee Reports, Guidescope editor Bill Ruth reported that the *Guidescope* was status quo. The website master reported that the Forum seemed slow and two of the people who post have commented that when they do so, they get a dialog box stating that there was an issue with the server. However, the comments DO get posted in spite of the dialog box. The Instrumentation Committee chairman was absent, but the observatory clean-up was briefly discussed. The overall conclusion is that other than the issue with the roof, which the LCMP knows about, the observatory is in great shape. Everything was cleaned, misc. unneeded items were discarded, and the telescopes were examined. The black C-14 was rebalanced so it would track better. The digital setting circles/push-to system was also examined to see if we can update the actuators. The OTAA Representative reminded Directors that the OTAA Conventions this year are scheduled as follows:

CVAS	June 17
MVAS	August 12
CAA	September 16
BRAS	September 23

The Metro Parks Liaison had no report.

Programing is as follows:

June	Dan Walker	Motions: Guideposts of the Cosmos
July	Denny Bodzash	Major Historical Discoveries
August	Tim Kreja	History of the Refracting Telescope
September	Members	Solar eclipse photos
October	Annual Meeting of the Members: Elections and a short video	

November OPEN

December Annual Holiday Pot Luck at the LCMP Amherst Beaver Creek Reservation

Next came Old Business with the first item being a discussion of our participation in the Metro Parks Paddle and Pedal Festival. This was scheduled for Sunday May 21st from 11:00-3:00 at Lakeview Park in Lorain. We had six Directors committed to attend and solar viewing was planned as well as discussing the upcoming solar eclipse and giving out handouts about the club. We would also sell eclipse glasses. The second item of Old Business was the Avon Lake Rec. Dept. Day Camp field trip to our observatory to celebrate the solstice. They will arrive at 10:00 a.m. on June 21 and we will do the following:

Outside the observatory on the east side, we will discuss what the solstice is, and discuss the August solar eclipse.

Inside the observatory, we will give a tour and allow the kids to look through the telescopes.

Outside the observatory on the west side, we will do solar observing.

This way the group can be broken into three groups and cycle through the three stations as shown above. We can use help from the membership with this activity, as this is a nice outreach opportunity.

Next was New Business which was limited to one item. Steve Schauer had been contacted by Barb Hubal who wanted to borrow an equatorial mount for a 10 pound telescope. The Board discussed what mounts we might have available, and Greg Cox offered to contact Barb as he thought he might have a mount that would work for her.

The Board meeting was moved to the Amherst Bob Evans on an experimental basis, and after some consideration, it was decided to return to the Blue Sky Restaurant for future meetings starting in June.

Dates:

Public Observing	Fri/Sat. 5/26-27	10:00-12:00	Nielsen Observatory
General Meeting	Wed. June 7	7:00	CARLISLE Visitors Ctr.
Board Meeting	Thur. June 15	7:00	Blue Sky Restaurant
Public Observing	Fri/Sat. 6/2, 6/3	10:00-12:00	Nielsen
Public Observing	Fri/Sat. 6/30, 7/1	10:00-12:00	Nielsen

Worldwide Solstice Festival Solar Observing	6/17 Noon-4:00 p.m.	Lakeview Park
CVAS OTAA Convention	6/17 6:00 p.m.-?	CVAS Observatory
Avon Lake Rec Field Trip	6/21 10:00-11:30 a.m.	Nielsen Observatory

The meeting was adjourned at 8:18 p.m.

~Steve Schauer



Venus and trees from Brighton, OH, May 9, 2017.

~Dave Lengyel



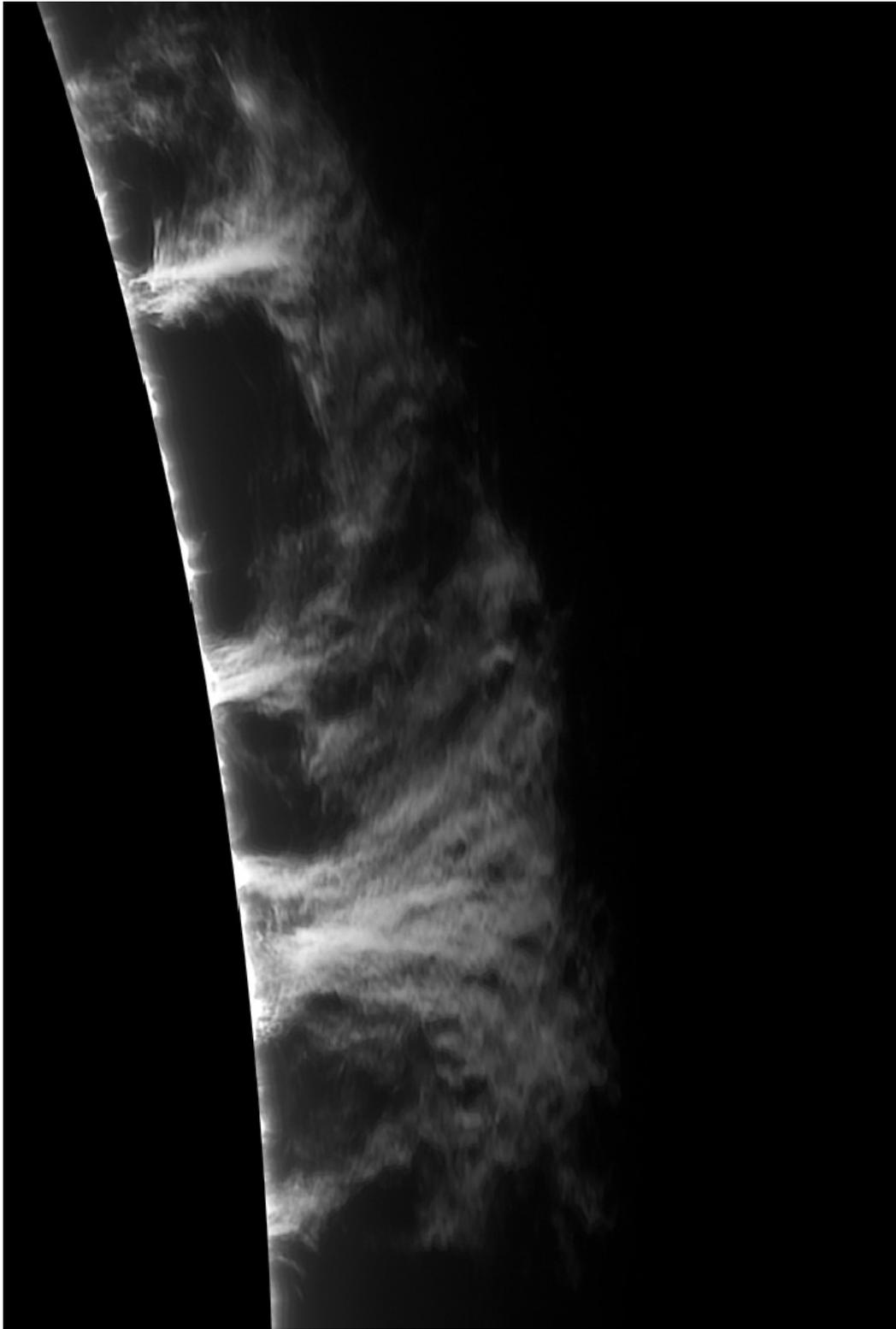
Here is Venus at about 9 a.m. 5/29/17. It is just about half lit. Last night's storms cleared the skies nicely for a morning view in full daylight. 500mm lens handheld using the Canon SL1. ~Dave Lengyel

Deep-Sky Objects for June

Objects for Binoculars							
RA	Dec	Number	Mag(s)	Size/Sep.	PA	Const.	Type of Object
16 ^h 41.7 ^m	+36° 28'	M13	5.7v	16.6'		Her	Globular Cluster
16 ^h 54.0 ^m	-41° 48'	6231	14'	2.6v		Sco	Star Cl. In "False Comet"
17 ^h 21 ^m	-27° 23'	LDN 1773		300'x60'		Sco	Dark Neb. "Pipe Nebula"
17 ^h 40.1 ^m	-32° 13'	M6	4.2v	33'		Sco	Star Cl. "Butterfly Cluster"
17 ^h 46.3 ^m	+05° 43'	IC4665	4.2v	40'		Oph	Star Cluster
17 ^h 59.9 ^m	-34° 49'	M7	3.3v	80'		Sco	Star Cluster
small ^h (2-6 ^m)	''						
16 ^h 23.6 ^m	-26° 32'	M4	5.8v	26.3'		Sco	Globular Cluster
16 ^h 47.2 ^m	-01° 57'	M12	6.8v	14.5'		Oph	Globular Cluster
16 ^h 57.1 ^m	-04° 06'	M10	6.6v	15.1'		Oph	Globular Cluster
17 ^h 14.6 ^m	+14° 23'	64-Alpha	3.5", 5.4"	4.9"	107o°	Her	Double Star
17 ^h 15.0 ^m	+24° 50'	65-Delta	3.1", 8.2"	8.9"	236o°	Her	Double Star
17 ^h 17.1 ^m	+43° 08'	M92	6.4v	11.2'		Her	Globular Cluster
Objects for Medium Telescopes (8-14 inch)							
RA	Dec	Number	Mag(s)	Size/Sep.	PA	Const.	Type of Object
15 ^h 15.9 ^m	+56° 19'	NGC 5907	10.3v	11.5'x1.7'		Dra	Galaxy
16 ^h 17.0 ^m	-22° 59'	M80	7.3v	8.9'		Sco	Globular Cluster
17 ^h 13.7 ^m	-37° 06'	NGC 6302	9.6v	50"		Sco	"Bug Nebula"
17 ^h 22.3 ^m	-38° 29'	NGC 6337	12.3v	48"		Sco	Planetary Nebula
17 ^h 37.6 ^m	-03° 15'	M14	7.6v	11.7'		Oph	Globular Cluste
17 ^h 58.6 ^m	+66° 38'	NGC 6543	8.1v	"18/350"		Dra	Plan. Neb. "Cat's Eye"
Objects for Larger Telescopes (16-inch & larger) Challenge Objects							
RA	Dec	Number	Mag(s)	Size/Sep.	PA	Const.	Type of Object
16 ^h 04.4 ^m	+40° 41'	NGC 6058	12.9v	>23"		Her	Planetary Nebula
16 ^h 32.5 ^m	-13° 03'	M107	8.1v	10'		Oph	Globular Cluster
16 ^h 47.0 ^m	+47° 32'	NGC 6229	9.4v	4.5'		Her	Globular Cluster
17 ^h 29.3 ^m	-23° 46'	NGC 6369	11.4v	30"		Oph	Plan. Neb. "Little Ghost"
18 ^h 18.8 ^m	-13° 47'	M16/IC4703		35'x28'		SerCd	Eagle Neb. & Star Cluster
18 ^h 59.3 ^m	+48° 28'	NGC 6742	13.4v	30"		Dra	Planetary Nebula

Print and use the [Deep-Sky Interest Group - Observation Form](#) to record your observations.

(thanks to Len Jezior for DSO charts)



Prominence. Taken by [Randy Shivak](#) on May 23, 2017 @ Prescott Valley, AZ USA

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