



THE AERO AERIAL

THE NEWSLETTER OF THE AERO AMATEUR RADIO CLUB

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Ham News

ARRL Learning Center Features Two New Emergency Communication Training Courses

From ARRL News

ARRL has released two new courses to train emergency communications (EmComm) operators for volunteering within the Amateur Radio Emergency Service® (ARES®).

[Read more](#)

Making Interesting Connections All Over the World Through Ham Radios

From O Herald

Ham radio operators in Goa are slowly increasing every year and it is a love they intend to maintain all their lives. Hams in India are not so different than those in the U.S. [Read more](#)

Field Day

REMINDER

June 22-23

**See pages 3-4
for more details**

Events

Old Virginia Hams Tailgate

Date: 6/1/2024

Location: Manassas Park, VA

Sponsor: W4OVH Ole Virginia Hams

Website: <https://w4ovh.net/tailgate/>

BARC Father's Day Hamfest and Swapmeet

Date: 6/16/2024

Location: Upperco, MD

Sponsor: Baltimore Amateur Radio Club

Website: <http://w3ft.com>

Firecracker Hamfest

Date: 7/6/2024

Location: Harrisburg, PA

Sponsor: Harrisburg Radio Amateurs Club

Website: <http://www.w3uu.org>

CVARC Annual Hamfest

Date: 7/27/2024

Location: Chambersburg, PA

Sponsor: W3ACH

Website: <http://w3ach.com>

Get Well Soon!

Joe Miko, WB3FMT, underwent quadruple bypass surgery at Union Memorial Hospital and is still recovering. Please continue keeping Joe, Mary, and their family in your prayers.

More Ham News

The World of Amateur, or HAM Radio, and Its Role During Emergencies Like Hurricane Ian

From BBC World Service

Three amateur radio operators from the Fort Myers Amateur Radio Club, which has been around since 1957, provide insight into this old-school means of communication. [Listen to this interview](#)

Spend an Hour in the Virtual Radio Museum

From Hackaday

If you have an hour to kill, and you like old communication technology, check out the Vintage Radio and Communication Museum in Windsor, Connecticut. Get a full virtual tour of the museum from your home. [Take a Tour](#)

Dayton Hamvention 2024 - Presentations

From DARA Hamvention

If you'd like to know what you missed in the 55 presentations at this year's Hamvention, [listen to them now](#).

Dayton Hamvention 2024 - Vendor Booths

From KI5IRE Ham Radio

If you'd like to know more about the vendor booths you missed at this year's Hamvention, you can do a [full walkthrough now](#).

More Events

Reading Radio Club Hamfest

Date: 8/3/2024

Location: Sinking Spring, PA

Sponsor: Reading Radio Club Inc.

Website: <http://www.qsl.net/w3bn/>

SVARC Berryville Hamfest, ARRL Virginia State Convention

Date: 8/4/2024

Location: Berryville, PA

Sponsor: Shenandoah Valley Amateur Radio Club

Website: <https://berryvillehamfest.com/>



Field Day

Mark your calendar! Field Day will be held the weekend of June 22-23 at the Essex Sky Park. There will be nonstop fun, food, and radios. A testing center will also be available for anyone who wants to get a new license or upgrade their certification. See you there!

Take a look at how much fun we had last year!

<https://youtu.be/sgl8XbU0b3g?si=v2baW3lt09rqU1oE>

See page 4 for the menu options. Be sure to vote if you haven't already!

Training

SKYWARN® Basics Class

Will be held on Friday, May 17, 2024, 6-8 p.m. at Allegany County Department of Emergency Services: 11400 Pittsburgh Plate Glass Road, Cumberland, MD 21502.

SKYWARN® Advanced Flood Class

Will be held on Thursday, May 23, 2024, 6-8 p.m. at Prince George's EOC: 7915 Anchor Street, Landover, MD 20785.



Radio License Exams

The Aero Amateur Radio Club sponsors Amateur Radio License Exams with the ARRL VEC. Examination sessions are throughout the year. Walk-ins are welcome; arrive no later than 30 minutes after start time. \$15 charge.

W3PGA Exam Location

American Legion Post 180
1331 Seling Ave.
Rosedale, MD 21237

Contact

Patricia Stone, AC3F
email: ac3f@juno.com
landline: 410-687-7209



NOTICE FOR EXTRA CLASS LICENSING

FCC EXTRA CLASS QUESTION POOL WILL BE REVISED ON JULY 1, 2024. IF YOU'VE BEEN STUDYING FOR THE EXAM, BE SURE TO SIGN UP AND TEST BEFORE JULY 1.

VE CORNER

Pat Stone, AC3F

The AERO VE Team held its second session of 2024 on May 18th. We served 3 applicants. Congratulations to new Technician Karen Mika and new general Dan Blue KC3ZAB.

Many thanks to VE's: WA3QLY, N3RES, and AC3EO for assisting me with this session. We couldn't do this without you. Hope to see you at Field Day, June 22nd. It's always a joy working with you.

Our next test session will be held on Saturday, June 22nd at noon at the Essex Sky Park in Essex. Hope to see you then.

Upcoming AERO ARC Testing

06/22/2024 | [Essex MD 21221-6507](#)

Sponsor: AERO ARC

Location: Essex Sky Park

Time: 12:00 PM (Walk-ins allowed)

09/21/2024 | [Rosedale MD 21237-1642](#)

Sponsor: AERO ARC

Location: American Legion Post 180

Time: 11:00 AM (No Walk-ins / Register or Call ahead)

11/23/2024 | [Rosedale MD 21237-1642](#)

Sponsor: AERO ARC

Location: American Legion Post 180

Time: 11:00 AM (No Walk-ins / Register or Call ahead)



nshuman1291/Vecteezy

SKYWARN, ARES, RACES

Harford County ARES/RACES Group meets at the Harford County Emergency Operations Center in Forest Hill, MD, the first Thursday of each month, 7:00-9:00 p.m. Let them know in advance if you would like to attend, via email to Steven Fook (K2EJ), Harford County Emergency Coordinator.

The Harford County, MD, ARES on-air net meets on the second and fourth Tuesday of each month, 7:00 p.m. on the KC3FHC analog repeater, frequency 146.775, (-) PL tone 146.2. ARES/RACES membership is not a requirement to participate in the net.

The Amateur Radio Emergency Preparedness Act of 2024 would require homeowner associations to accommodate the needs of amateur radio operators by limiting the scenarios in which they can ban, prevent, or require the approval of the installation or use of amateur radio antennas.

Among other provisions, this legislation would:

- Prohibit homeowner association rules that would prevent or ban amateur radio antennas;
- Clarify the approval process for installing amateur radio antennas;
- Give amateur radio operators a private right of action.



Club Nets

Second Wednesday Net

70 Centimeters (449.575 MHz Repeater)
@ 8 p.m. Local Time

Fourth Wednesday Net

2 Meters (147.24 MHz Repeater)
@ 8 p.m. Local Time

Fifth Wednesday Net

10 Meters (28.445 MHz)
@ 8 p.m. Local Time

Local Area Nets

Day	Time	Freq. (MHz)	Net Name
Daily	9 - 10 am	146.670	Oriole Net
Daily	6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 - 7 pm	146.670 PL 107.2	Baltimore Traffic Net
Daily	7 pm & 10 pm	3.643	MD/DC/DE Traffic Net
2nd Tue	7:30 pm	146.670	Baltimore County RACES Net
2nd Wed	8 pm	449.575	Aero ARC Net
4th Wed	8 pm	147.240	Aero ARC Net
5th Wed	8 pm	28.445	Aero ARC Net
When activated by NOAA		147.030	SkyWarn (primary)

Net Reports

Pat Stone, AC3F

We held our 5th Wednesday 10 meter net on May 30th. The net began at 20:00 and closed at 20:31. 4 Stations checked into the net.

AC3F NCS	Pat	Middle River
KB3QWC	Larry	Middle River
AC3EK	Harry	
WA3QLY	Tom	Middle River
W3JEH	Ron	Perry Hall

Thanks to all who joined for this net.



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From the Skies Over Mt. Essex

For current solar activity, visit <https://www.solarham.com/>

SKY Events for June

(h:m) EST & EDT (Add 1 Hour)

Jun	01	23:08	Moon at Ascending Node
	02	03:23	Moon at Perigee: 368108 km
	02	19:37	Mars 2.4°S of Moon
	04	11:00	Venus at Superior Conjunction
	05	04:14	Pleiades 0.4°N of Moon
	06	08:38	NEW MOON
	09	03:23	Pollux 1.7°N of Moon
	11	23:00	Regulus 3.3°S of Moon
	13	12:00	Mercury at Perihelion
	14	01:18	FIRST QUARTER MOON
	14	09:36	Moon at Apogee: 404078 km
	14	12:00	Mercury at Superior Conjunction
	15	16:17	Moon at Descending Node
	16	13:28	Spica 1.2°S of Moon
	20	04:33	Antares 0.3°S of Moon
	20	16:51	Summer Solstice
	21	21:08	FULL MOON
	27	07:45	Moon at Perigee: 369292 km
	27	10:52	Saturn 0.1°S of Moon: Occn.
	28	13:34	Mercury 4.7°S of Pollux
	28	17:53	LAST QUARTER MOON
	30	00:26	Moon at Ascending Node

Planet Lookout at mid-Month

Sunrise 5:41 EDT and Sunset 20:24 EDT

Mercury Dust Rise 05:43 Set 20:34; Mag -2.1 Size 5.1 arc seconds.

Venus Dust Rise 05:54, Sets 20:37, Mag -3.9 and 9.7 arc seconds.

Mars Morning Rise 02:56, Sets 16:16, Mag +1.0 and 5.2 arc seconds wide.

Jupiter Morning, Rises 04:29, Sets 18:44, Mag-2.0 size 33 arc seconds.

Saturn Evening, Rises 01:05, Sets 12:32, Mag+1.1 size 17.3 arc seconds.

Uranus Morning Rises 03:54 Sets 17:57; Mag +5.8 size 3.3arc seconds.

Neptune Evening Rises 01:29 Sets 13:24; Mag +7.9 size 2.4 arc seconds.



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The word **meteor** comes from the Greek *meteoroς*, meaning high in the sky. Meteoroid is a rock in space, Meteor is what we see in the sky and Meteorite is what lands on the ground. All the items above are the same thing, it just depends how we see it. The rock (meteoroid) is small grain of sand to boulder size rocks in space. The proposed definition is between 100um and 10 meters. Meteors are sometimes called shooting stars. The meteor is the visible event we see in the sky. This visibility is due to the heat produced by ram pressure not friction. Like the shock wave on a supersonic jet. A fireball or bolide is a very bright meteor brighter than magnitude -4 or greater. The Meteorite is the portion of the meteoroid that hits the ground and survives. Meteoroid orbit the Sun. Not all of the orbits are the same, some comet remnants that form meteor showers.

There are 7 major meteor showers per year; their name is based on the constellation from which they appear to come from. The light and phase of the Moon affects the number of meteors you can see.

Name	Peak dates	Meteors per Hr
Quadrantids	Jan 4th	120
Lyrids	Apr 22nd	20
Eta Aquarids	May 5th	60
Perseids	Aug 12th	90
Orionids	Oct 21st	20
Leonids	Nov 17th	15
Geminids	Dec 14th	120

About the Aero Amateur Radio Club

Officers		Committees	
President	Joe Miko, WB3FMT	Repeater	Phil Hock, W3VRD Ken Erisman, NE3A Dave Brunner, AC3EO
Vice President	Rob Ballou, AE3B	VE Testing	Pat Stone, AC3F
Recording Secretary	Larry Hill, KB3QWC	Public Service	Bob Landis, WA3SWA
Corresponding Secretary	Pat Stone, AC3F	Webmaster, Facebook	Rob Ballou, AE3B
Treasurer	Tom Hawkins, WA3QLY	Trustee	Dave Frederick, KB3KRV (W3PGA) Jim Marshall, KC3FBL (AE3RO)
Resource Coordinator	Ron Distler, W3JEH	Club Nets	Joe Miko, WB3FMT
		Contests	Bob Venanzi, ND3D
Newsletter Editor		Cathy Feinman, W3CLF	

Website: <http://w3pga.net>

Facebook: <https://www.facebook.com/W3PGAClub>

Email: w3pgaclub@gmail.com

Meetings

The Club will meet at 7:00 p.m. via Zoom on Wednesday, June 5, 2024 (30 minutes earlier than usual). All are welcome to attend. Meeting ID: 870 3525 7619 Passcode: 147240
<https://us02web.zoom.us/j/87035257619?pwd=cUBPArZVJ3fr0XPqHmv6McerP8HVuM.1>

W3PGA	2 M	INPUT: 147.84 MHz, OUTPUT: 147.24 MHz, PL 123.0
W3PGA	70 Cm	INPUT: 444.575 MHz, OUTPUT: 449.575 MHz, PL123.0
W3JEH	1.25 M	INPUT: 222.24 MHz, OUTPUT: 223.84 MHz