



HamSat Commemorative Stamp, USSR, Oct. 1978

The Aero Aerial

The Newsletter of the Aero Amateur Radio Club
Middle River, MD
Volume 15, Issue 3
March 2019

Editor Georgeann Vleck KB3PGN

Officers

President	Joe Miko WB3FMT
Vice-President	Jerry Cimildora N3VBJ
Recording Secretary	Lou Kordek AB3QK
Corresponding Secretary	Pat Stone AC3F
Treasurer	Warren Hartman W3JDF
Resource Coordinator	Ron Distler W3JEH

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VE Testing	Pat Stone AC3F
Public Service	Bob Landis WA3SWA
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Trustee	Dave Fredrick KB3KRV
Club Nets	Joe Miko WB3FMT
Contests	Bob Venanzi ND3D Charles Whittaker KB3EK

Website: <http://w3pga.org>

Facebook: <https://www.facebook.com/pages/Aero-Amateur-Radio-Club/719248141439348>

About the Aero Amateur Radio Club

Meetings

The Aero Amateur Radio Club meets at 7:30 pm on the first and third Wednesdays of the month at Essex SkyPark, 1401 Diffendall Road, Essex. Meetings begin at 7:30 p.m. local time. Meetings are canceled if Baltimore County Public Schools are closed or dismiss early.

Repeaters

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

Club Nets

Second Wednesday Net – 10 Meters (28.445 MHz) @ 8 p.m. Local Time
Fourth Wednesday Net – 2 Meters (147.24 MHz Repeater) @ 8 p.m. Local Time
Fifth Wednesday Net – 70 Centimeters (449.575 MHz Repeater) @ 8 p.m. Local Time

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.

2019 Examination Schedule

Time:	1:15 pm	1:15 pm	12 noon
Dates:	Sunday, March 10	Sunday, May 5	Saturday, June 22
Where:	White Marsh Library	White Marsh Library	Essex SkyPark, FBO Bldg.

White Marsh Library, 8133 Sandpiper Circle, White Marsh, MD

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

LOCAL AREA NETS

Day	Time	Freq. (MHz)	Net Name
Daily	9 – 10 am	145.330	Oriole Net
Daily	6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 – 7 pm	145.330 no PL	Balto. Traffic Net (b/u 146.670 PL 107.2)
Daily	7 pm & 10 pm	3.643	MD/DC/DE Traffic Net
2 nd Tue	7:30 pm	146.670	Baltimore County RACES Net
2 nd Wed	8 pm	28.445	Aero ARC Net
4 th Wed	8 pm	147.240	Aero ARC Net
5 th Wed	8 pm	449.575	Aero ARC Net
Fridays	7:30 pm	145.330	Back in the Day Net
When activated by NOAA		147.030	SkyWarn (primary)

NET REPORTS

2-13-19: 28.445 MHz, 20:00 to 20:37 local.

W3PGA NCS Joe Essex, KC3FBL Jim Parkville, KB3VAE Richard Middle River, AC3F Patricia Middle River, W3JEH Ron Perry Hall

5 members on the net

2-20-19: 147.24 MHz (Snow Net), 20:00 to 20:28 local.

W3PGA NCS Joe Essex, N3RES Ray Lutherville, K3TEL Arnold Towson, KB3JVP Ken Middle River, AC3F Patricia Middle River, KB3TBH George White Marsh, N3VBJ Jerry Remote from Sunny and Warm FL, KC3FBL Jim Parkville

8 members on the net

2-27-19: 147.24r MHz, 20:00 to 20:48 local.

W3PGA NCS Joe Essex, KB3JVP Ken Middle river, KC3IPK Dave Baltimore City, K3TEL Arnold Towson, W3JEH Ron Perry Hall, AC3F Patricia Middle River, AC3DX Bill Rosedale, KC3FBM Franklin Parkville, KC3FBL Jim Parkville, KB3VAE Richard Middle River, KC3CMS Dan North East Baltimore

11 participants on the net

Reminders

Aero Snow Plan

If Baltimore County Schools are **closed** on a meeting Wednesday, then there will be **No meeting**, in its place there will be a 2 meter net at 8:00 pm. If schools have an **early dismissal** due to weather on a meeting Wednesday, there will be **no meeting** at the Essex Skypark, and we will have a 2 meter net at 8:00 pm. If Baltimore Co has a **late opening** (2 hours late), then there will be a **meeting** at the airport. If **we get snow** on the days before the meeting, I will drive to the airport to see if it is safe to have a meeting. They don't plow the parking lot. I will send out

an email as to whether there will be a meeting. If you have any questions, please call me at 443-956-0197.

Joe Miko

Club Dues

Dues are due in January. See Club Treasurer Warren at the next meeting.



VE CORNER
by Pat Stone, AC3F

The AERO VE Team held its first session of 2019 on January 6. We served 8 applicants. Congratulations to new Extras: Harry Gardner K3TCR and Dan LoForte KF7CTT, also new Techs: Mike Gonzales KC3MTK, Wm Rich KC3MTL, Pete Morici KC3MTM, Mike Dzicek KC3MTN, Petikul Lerkaram KC3MTO, Dallin LoForte KC3MTP.

Many thanks to VE's: WB3FMT, KC3FBM, AC0LP, ND3D, and KB3VAE for assisting me with our first session of 2019. We couldn't do this without you. Hope to see you in March. It's always a joy working with you.

Our next test session will be held on Sunday, March 10th at 1:15PM in the White Marsh Library. Hope to see you then.

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VE Testing Snow Plan

If Baltimore County Libraries are closed for a testing day (Saturday or Sunday) the VE Testing session for that day will be canceled. Testing applicants that have pre-registered will be notified by phone. Due to the scheduling requirements of Baltimore County Library, we can't schedule a makeup session. Testing will resume on the next scheduled testing date. VE's will be notified by phone in the event of a closure.

For New Hams

So Now What?

ARRL is launching a new bi-weekly podcast geared to those who are just getting started on their Amateur Radio adventure. Whether you're new to the hobby or looking to get back on the air after an absence, we know that you've got lots of questions.

So does podcast co-host Michelle Patnode, W3MVP, ARRL communications content producer. Fortunately, she's got co-host Joe Carcia, NJ1Q, W1AW station manager and ARRL Lab member, to help her learn more about this hobby.



Join Michelle and Joe as they explore the topics that every newcomer to amateur radio needs to know.

You can **subscribe** to the podcast in Apple iTunes or on Stitcher (sign in or use as a guest). If you are using an RSS client, the feed URL is: <https://www.blubrry.com/feeds/>

Scroll down for the podcast episode archive.

QUESTIONS?

Do you have a question for Joe or Michelle? Click here (sonowwhat@arrl.org) to e-mail your question, or use the form below, and we will try to answer it on a future podcast episode!

Credits:

- Co-hosts: Michelle Patnode, W3MVP, and Joe Carcia, NJ1Q
- Announcer: Sabrina Jackson, KC1JMW, ARRL Radiosport administrative Manager
- Audio Editor/Producer: Michelle Patnode, W3MVP
- Executive Producer: David Isgur, N1RSN, ARRL Communications Manager
- Theme Music: "Jungle Island" from PremiumBeat.com
- Logo designed by: Sue Fagan, KB1OKW, graphic design supervisor at ARRL

Questions may be submitted on the website, and any missed episodes can be viewed there as well.

Source: <http://www.arrl.org/so-now-what>

UPCOMING HAMFESTS and EVENTS

Sunday, March 24, 2019: WINTERFEST

Location: Northern Virginia Community College, Annandale Campus, Richard J. Ernst Cultural Center, 8333 Little River Turnpike, Annandale, VA 22003

Sponsor: Vienna Wireless Society

Website: <http://viennawireless.net/wp/events/winterfest>

Talk-In: 146.910- (77.0), WD5DBC Tyson's Corner, VA

Contact: Harry Mamaux, K3NF, Phone: 703-395-6721 | Email: k3nf@cox.net

Saturday, April 27, 2019: Delaware State Convention (Delmarva Radio & Electronics EXPO)

Location: Cheer Community Center, 20520 Sand Hill Road, Georgetown, DE 19947

Sponsor: Sussex Amateur Radio Association

Website: <http://radioelectronicsexpo.com>

Talk-In: 147.090+ (PL 156.7), WS3ARA Millsboro, DE - Sussex ARA

Contact: Herbert Quick, KF3BT, Phone: 302-629-4949, Email: herb@hamiltongraphics.com

Saturday, April 27, 2019: York Hamfest

Location: Elicker's Grove Park, 511 Roth Church Road, Spring Grove, PA 17362

Sponsor: York Hamfest Foundation

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

Talk-In: 147.330+ (PL 123.0), W3MUM PennMar, PA

Contact: Duane Sterner, KB3QLQ, Phone: 717-332-1385, Email: duane.sterner@yahoo.com

You may view upcoming Hamfests at: <http://www.arrl.org/hamfests-and-conventions-calendar>

ARRL Letter Dated 1/31/19

National Weather Service Dropping High Seas and Storm Warnings on WWV/WWVH

The National Weather Service (NWS) is discontinuing its high seas and storm warnings transmitted via National Institute of Science and Technology (NIST) WWV/WWVH time and frequency-standard HF transmissions, starting January 31 at 1800 UTC. The NWS warnings are aimed at the Atlantic, the Gulf of Mexico, and the Pacific.

"This service is being terminated because weather information in the current broadcast format does not support frequent-enough updates for changes in marine weather and cannot provide enough detail in the allotted window required by mariners to avoid hazardous weather," NWS said in announcing the discontinuation. "Additionally, alternative technologies and numerous media outlets



that provide weather information in various formats have overtaken the need for providing weather information through the NIST frequency signals."

The NWS said other sources of marine weather information, high seas alerts, and detailed forecasts are available over satellite, telephone, the internet, marine fax, radio fax, and VHF radio. The NWS, US Coast Guard, and US Navy provide multiple dissemination methods for storm positioning, high sea areas, observations, forecasts, outlooks, and warnings for both coastal and oceanic marine zones near the US, all through a variety of technologies, including [NAVTEX](#) and the [Global Maritime Distress and Safety System](#) (GMDSS).

From the Skies over Mt. Essex

SKY Events for March 2019

Mar 1st - Saturn is 0.3° S of the Moon.

Mar 6th – New Moon

Mar 10th – Daylight Saving Time Begins EDT

Mar 14th – First Quarter Moon

Mar 17th – Moon is 0.5° S of Beehive (M44) 13:00 EDT (17UT. Vanguard 1 launched 1958.

Mar 20th – Equinox 17:58 EDT, (21:58UT)

Mar 21st – Full Moon, “Worm ” for Traditional and the “Moon When eyes are sore from bright snow” for the Dakota Sioux American Indian.

Mar 22nd – Double shadow Transit on Jupiter 04:06 EDT (08:06UT)

Mar 28th – Last Quarter Moon

Mar 29th – Saturn is 0.05° N of the Moon 01:00 EDT (05:00 UT). Mariner 10, first Mercury flyby in 1974

Planet Lookout at mid-Month

Sunrise 07:14 EDT and Sunset 19:10 EDT

Mercury Morning Rise 06:58 EDT, Sets 19:04; **Too close to the Sun to be seen.**

Venus Morning Rise 05:34, Sets 16:02; Mag -4.0 and 14.3 arc seconds.

Mars Evening Rises 09:36 sets 23:40, Mag 1.4 and 4.8 arc seconds wide.

Jupiter Morning, rises 04:00, Sets 13:45; Mag-2.0 size 34.8 arc seconds.

Saturn Morning. Rises 04:41 Sets 14:24; Mag 0.4 size 17.7 arc seconds.

Uranus Evening **Rises** 08:48 Sets 22:00; Mag 5.8 size 3.4 arc seconds.

Neptune Morning Rises 06:59 Sets 18:25; Mag +7.9 size 2.4 arc seconds **Too close to the Sun to be seen.**

Why is the sky “Blue”, so we don’t eat it!

As Sir Isaac Newton cautioned us over 300 years ago: “The rays (of light), to speak properly, are not colored.” The light reflected by a leaf is not green, and neither is the leaf; green exist only in the neuron-based representation of the leaf in the observer's consciousness, and then only if the light is not too dim.

A camera Charge-coupled device (CCD) or Complementary metal-oxide semiconductor (CMOS) chip finds only photons. Humans create the color and brightness that we see. We use color filters and algorithms to make colors that we are accustomed to seeing. It is a distinction between internal visual world and external physical world -- How the world looks to us, and how it is.

The natural environment has guided the evolution of our eyes. We have two eyes that give us the ability to see in 3-dimensions, also gives us a field of view of about 155°. The evolutionary process has also given humans sensitivity to the visual color bands, from red thru blue. The cones in our eyes allow us to see color.

1 RASC Handbook 2019 pgs 34 & 80

The following is the approximate percentage of color receiving cones in the human eye, 64% red, 32% green 4% blue Red Peaks at 575 nano-meters (nm), green at 535 nm and blue at 445 nm. For a person to see an object in color, at least two kinds of cones must be triggered, and the perceived color is based on the relative level of excitation of the different cones. 2

HyperPhysics, Light and Vision

Red and yellow colors are essential for identifying whether food is ripe or spoiled. Surprisingly, for humans there is virtually nothing harmful in nature that is blue. The sky is blue, but we have little to fear from predators in the sky. Just think what the last blue food that you ate? Blueberries are really purple!