

*FD 2018  
Boy, what a tiring day!*

## ***The Aero Aerial***

The Newsletter of the Aero Amateur Radio Club  
Middle River, MD  
Volume 14, Issue 7  
July 2018

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

### ***Committees***

Repeater	Phil Hock W3VRD Jerry Cimildora N3VBJ
VE Testing	Pat Stone AC3F
Public Service	Bob Landis WA3SWA
Webmaster, Facebook	Jerry Cimildora N3VBJ
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.

### 2018 Examination Schedule

Time:	1:15 pm		
Dates:	Sunday, Sept. 23		
Where:	White Marsh Library		

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

Contact:     Patricia Stone AC3F, email: [ac3f@juno.com](mailto: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 <sup>nd</sup> Tue	7:30 pm	146.670	Baltimore County RACES Net
2 <sup>nd</sup> Wed	8 pm	28.445	Aero ARC Net
4 <sup>th</sup> Wed	8 pm	147.240	Aero ARC Net
5 <sup>th</sup> 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)

---

## NO MEETING ON JULY 4

Aero Club is closed temporarily for the Independence Day holiday.

---

### *NET REPORTS*

#### **6-13-18: No 10 m net.**

NCS WB3FMT Joe tried but had a high noise level S7 – S9 and a high SWR. With 10 minutes of calling, no one heard him. After he closed the net at 20:10 local, he discovered that a bad 2 way switch, replaced it with a spare and everything seemed to work OK.

#### **6-27-18: 2 m net on the 449.575r, 20:00 to 20:20 local.**

The Aero ARC had its 2meter net on the 440 machine this week because of a damaged control cable on the roof of Kenwood High School.

W3PGA NCS Joe Essex, KC3FBM Franklin Parkville, W3VRD Phil Essex, AC3F Pat Middle River, N3VBJ Jerry Remote from Joliet, Il, KB3JVP Ken Middle River, K3TEL Arnold Towson (Able to talk to Pat after the net)

7 members on the net. Topics: Field Day, and the down 24 repeater. Phil suggested that we use 24 in a simplex mode to keep it active. Jerry will notify TMARC. A solution to fix the repeater control line will be addressed at the next meet to be held on July 18<sup>th</sup>.

---

### *Upcoming Second Meeting Presentations*

<i>Date</i>	<i>Topic</i>	<i>Presenter</i>
TBA	FT8 – New Digital Mode	Phil W3VRD
TBA	Contest Logging with N1MM	Bob ND3D
TBA	The Acu-rite Weather Station	?Kelly KC3APF

These presentations will be given at the Essex SkyPark FBO building after the business meeting.

*Any questions call Joe Miko at 443-956-0197. Presenters who wish to submit a description of their talk may email it to Georgeann at [KB3PGN@reagan.com](mailto:KB3PGN@reagan.com) for inclusion in the Aerial.*



**VE CORNER**  
by Pat Stone, AC3F

The AERO VE Team held its third test session for 2018 on Sunday, May 27th, at the White Marsh Library. We served 6 applicants. Congratulations to new Generals KN4GXB John Lesser, KE0SBP Nathan Salminen, KC3KZD Steve Weeks, and new techs KC3LOX Dominik Gothe and KC3LOY Alex Krowzow.

A very special thanks to VE's: WB3FMT, KD3TP, KC3FBL, KC3FBM, and special assistant WA3QLY for sacrificing part of their Memorial Day weekend to assist me with this session. You all did a great job. It was a pleasure working with all of you.

---

## *UPCOMING HAMFESTS and EVENTS*

### **Sunday, August 5, 2018: 68th Annual Berryville Hamfest**

Clarke County Ruritan Fairgrounds, Berryville, VA  
Sponsor: Shenandoah Valley Amateur Radio Club  
Website: [ <http://svarc.us/hamfest/>>

### **Saturday, September 01, 2018: Pennsylvania State Convention (Uniontown Gabfest)**

Uniontown ARC Clubhouse, Uniontown, PA  
Sponsor: Uniontown Amateur Radio Club  
For more info, click on: [ <http://w3pie.org/gabfest.htm> ]  
Printable Flyer: [ <http://www.w3pie.org/W3PIEUARCHamfest2018.pdf> ]

### **Saturday, September 8, 2018: Virginia Beach Hamfest**

Virginia Beach Convention Center, Virginia Beach, VA  
For more info, click on: [ <http://virginiabeachhamfest.com/>>

### **Sunday, October 7, 2018: CARAfest**

Howard County (Maryland) Fairgrounds  
Sponsor: Columbia Amateur Radio Association  
For more info, click on: [ <http://www.carafest.org/> ]

### **Saturday, December 8, 2018: Third Annual SantaFest**

American Legion Youth Camp, Cheltenham, MD

Sponsor: Prince George's County Emergency Radio Association & American Legion

For more info, click on: [ <http://pgares.org/santafest/> ]

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

---

## **INFORMATION FOR NEW HAMS**

from MDC Section Manager Marty Pittinger

Source: MDC Section News, Vol. 13, No. 06, June 14, 2018

### ***PROPAGATION***

The current Solar Cycle 24 is declining much more quickly than early predicted as the smoothed predicted sunspot number over the past few months is lower than forecasted. There is no indication by space weather experts of an early start of Solar Cycle 25 - expected to begin in late 2019 and continue through 2030.

Space weather conditions are to remain nominal for the next 30 days. Predicted solar flux is approx. 73 for ARRL Field Day 2018. Predicted planetary 'A' index will be around 5 to 8 during FD 2018.

Northern Hemisphere summer solstice is Thursday, June 21, just before ARRL Field Day weekend, so look for possible sporadic-E propagation on 10m, and 6M. With higher the normal Field Day 2018 temperatures and slight then higher chance of participation; less likely chance of VHF tropo-ducting. Remember to listen for 'Beacon' stations the gauge HF propagation, especially 10m - listen for those DXpeditions. Another excellent tool in the VOA Propagation Tool - <http://www.voacap.com/p2p/index.html>

See WM7D's Solar Resource Page - <http://www.wm7d.net/hamradio/solar/>

***MSN CW TRAINING*** - Remember that the MSN provides CW training daily for newcomers to the mode, or those wishing to refresh their skills, daily at 7:30 PM on 3563 kHz.

Each trainee works with an assigned instructor off the net frequency to receive radiograms containing training information. Instructors work with each student at their own desired speed and check-in schedule. All are encouraged to master the art of CW via this net or personal training in order to support and join the ranks of our MDD Section CW net. Robin, AA3SB, MDD NM, and the veteran staff, will be glad to help you advance to the evening CW full Cycle 4 of the NTS.

### ***FREE CERT TRAINING AVAILABLE IN THE DC AREA***

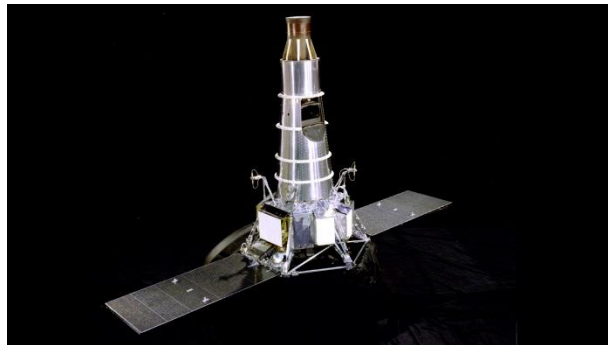
Community Emergency Response Team (CERT) training via Homeland Security and Emergency Management Agency (HSEMA) and UCC will hold CERT training on July 10, 12, 17 and 19.

You may register at <https://volunteer.dc.gov/pages/pages/108>. Participants can apply to any time up to two weeks before the start of the course. Acceptances will be sent prior to the start of the course.

---

## Fun Facts

February 17, 1965: U.S. Spacecraft Ranger 8 was launched from Cape Kennedy, Fla. and made a crash landing on the moon 3 days later after sending back more than 7000 pictures.



*Ranger 8 image of the Moon from 302 km. The image was taken on 20 February 1965 and 9:55 UT, two and a half minutes before the spacecraft impacted on the lunar surface. The two large craters at upper center are Ritter (above left) and Sabine, each about 30 km in diameter. The Apollo 11 landing site is just off the right edge of the image at about 4:00. The image is about 130 km across and north is up. (Ranger 8, A030)*

# From the Skies over Mt. Essex

## SKY Events for July 2018

- July 4<sup>th</sup> **Happy Birthday U.S.A.** 242 years and M1 Crab Nebula Super Nova exploded in 1054A.D
- July 4<sup>th</sup> – Mercury 0.7S of Beehive (M44) 15 UT (11EDT)
- July 6<sup>th</sup> - Last Quarter Moon, Earth at aphelion (furthest from the Sun) 94,507,600 miles 13EDT
- July 9<sup>th</sup> – Venus is 1.1° N of Regulus at 16 EDT
- July 10<sup>th</sup>- Aldebaran is 1.1° S of Moon 06 EDT
- July 12<sup>th</sup> – Mercury at greatest elongation E 26°
- July 13<sup>th</sup> – New Moon.
- July 14<sup>th</sup> – Moon is 1.4° S of Beehive M44, 18 EDT.
- July 19<sup>th</sup> - First Quarter Moon
- July 27<sup>th</sup> - Full Moon Colonial Full Moon name is “Summer Moon” and Cherokee as “Ripe Corn Moon”
- July 30<sup>th</sup> -Double shadow transit on Jupiter at 03 EDT
- July 31<sup>th</sup> - Mars at closest approach at 04 EDT, will not be as close until 2035.

### Planet Lookout at mid-Month

**Sunrise 05:52 EDT and Sunset 20:31 EDT**

Mercury

Venus

Mars See the charts July

Jupiter

**Happy Planet Hunting!**

Saturn

Uranus

Neptune

Pluto

### Lines in the Sky a shortcut to the constellations!

Can you name or even find the constellations? There are 88 named constellations of which we can see about 64 of them. The problem in the Baltimore urban area is the light pollution. When finding the constellation Ursa Major or the Big Dipper poses a challenge due to lights. Try the lines in the sky or better known as asterisms.

Ursa Major - Big Dipper Ursa Minor - Little Dipper

Cassiopeia - The “W” Great Square of Pegasus

Leo - Sickle Winter Triangle  
Right Triangle

Summer Triangle Cygnus - Northern Cross

Sagittarius - Teapot Scorpius- Fish Hook

Orion - Belt Delphinus - Job’s Coffin  
Sword

Hercules - Keystone Bootes - Arch

Draco – Lozenge Aquarius – “Y” Water Jar

If you can spot these: Lines in the Sky, you can use them to spot the constellations.

**If you missed finding all the planets in June here is Here is your second chance!**

**July 15<sup>th</sup>** Sun set 20:31, rise 05:52 / Moon rise 08:45 set 22:43 just past new. All times in EDT.

Planet	Rise	Set	Magnitude	Size Arc Sec
Mercury	08:07	21:46	0.7	8.4
Venus	09:28	22:41	-4.1	17.7
Mars	21:38	06:49	-2.6	23.3
Jupiter	15:04	01:32	-2.2	39.7
Saturn	19:07	04:37	0.1	18.3
Uranus	00:53	14:15	5.8	3.4
Neptune	22:59	10:25	7.9	2.5
Pluto	20:10	05:46	14.2	0.1

Pluto needs an 8 inch or larger telescope and a +15 magnitude star chart.