

THE AERO AERIAL



Trick or Treat

The newsletter of the Aero Amateur Radio Club
Middle River, Md
Volume 9 Issue 10
October 2012

Editor Frank Stone AC3P

Officers

Joe Miko	WB3FMT	President
Bob Venanzi	ND3D	Vice-President
Lou Kordek	AB3QK	Recording Secretary
Pat Stone	AC3F	Corresponding Secretary
Warren Hartman	W3JDF	Treasurer
Ron Distler	W3JEH	Resource Coordinator

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VE Testing
Public Service
Webmaster
Trustee
Club Nets
Contests

Committees

Phil Hock W3VRD
Pat Stone AC3F
Bob Landis WA3SWA
Al Alexander K3ROJ
Frank Stone AC3P
Joe Miko WB3FMT
Bob Venanzi ND3D

ABOUT THE AERO AMATEUR RADIO CLUB

Meetings: First and Third Wednesdays at 7:30 pm at Coffman's Diner
(Middle River and Orem's Rd.)

Nets: See Local Area Net Schedule

Repeaters: W3PGA (147.24 MHz - / 449.575 MHz -)
W3JEH (223.84 MHz -)

LOCAL AREA NETS

Day	Time	Frequency (MHz)	NET NAME
Daily	9 – 10 am	147.33	ORIOLE Net
Daily	6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 – 7 pm	146.670	Baltimore Traffic Net
Daily	7 pm and 10 pm	3.643	Maryland/DC/Delaware Traffic Net
2 nd Tues	7:30 pm	146.670	Baltimore County <u>RACES</u> 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

Aero Net Reports

August

28.445 MHz USB.: WB3FMT(NCS) AC3P W3JEH KA3SNY
147.24 MHz FM: AC3F(NCS) AC3P/m W3JEH KA3SNY
449.575 MHz FM: WB3FMT(NCS) AC3P W3JEH KB3VAE KA3SNY
223.84 MHz FM: AC3P(NCS) KB3PGN KA3SNY KB3JVP
(Blue Moon)

Station Activities

Speedy recovery to **K3ROJ**. Congrats to **AC3F** who displayed her crafting prowess at the Md. State Fair by taking 21 ribbons. Now if we can just get her to build a 222 MHz transverter. **KB3PGN** is making aetherial sounds at her church. At the other end of the acoustic spectrum **AC3P** is practicing with 2 rock groups. **W3JEH** has a new vertical antenna.

JOTA PLAN CANCELLED

Richard, KB3VAE, reports that plans for the club to participate in the Boy Scouts' Jamboree On The Air have been cancelled. The program schedule for weekend at Broadcreek Scout Reservation would not accommodate adequate time for the scouts to go on the air.

Team Aero Rides Again

Bob, ND3D, assembled a team of CW ops to participate the August edition of the North American CW QSO Party. Joining Bob in this endeavor were Frank AC3P, Pat AC3F, Lou AB3QK, and Chuck KB3EK.

The scores were as follows:

ND3D	159	60	10017
AC3P	49	30	1670
AC3F	33	25	825
AB3QK	16	14	224
KB3EK	18	8	20

Total Score: 12756

Congratulations to Team Aero on a good effort.

BRATS NEEDS HELP

Just as we were to go to press, The Aerial, learned that the BRATS club is looking for volunteers to help with a MS bike tour in Frederick County on Saturday, September 29th. Anyone interested in helping can contact them at their website; www.bratsatv.org.

From T-MARC

Hello Everyone,

The next membership meeting will be held on Sunday Oct. 7, 2012 at the Columbia ARA Hamfest located at the Howard County Fairgrounds in West Friendship, Md. Meeting will start at 10:30 am. Hamfest info can be found at www.carafest.org

Here is the meeting agenda:

Welcome

Treasurer's Report

Coordination Report

Election of the TMARC Board of Directors

UHF Band Plan changes

Questions, other topics

If you would like to nominate yourself or someone for the Board of Directors, please submit the nomination in an email to tmarc@tmarc.org

The UHF Band Plan changes are in the attached document. This will be discussed more at the meeting.

Here is the August 2012 Coordination Update:

Applications in Process:

Alex. Graham Bell Pioneer Repeater Assoc. - Sent Construction Coordinations for move of 147.3600, 444.1625, and 1283.1000

WA3TOL - Sent Final Coordination for 448.6750 at Burke, Va.

Network Engineers Repeater Assoc. -- Sent Notice of Proposed Coordination to neighboring coordination groups.

KQ4D - Received Application for Coordination for a UHF pair at New Market, Va.
Sent Notice of Proposed Coordination to neighboring coordination groups.

KF4UCI - Sent Final Coordination for 444.4000 at Gordonsville, Va.

K3OCM - Sent Final Coordination for 443.8500 at Towson, Md.

K3RIC - Received Certificate of Operational status for 444.2000 at Salisbury, Md. Sent Final Coordination

N4YET / WX4C - Received request from N4YET and WX4C to transfer coordination of 145.1300 at Harrisonburg, Va. to the Massanutten Amateur Radio Assoc.

N4YET - Received request from N4YET to transfer coordination of 147.3150, 224.8200, and 444.6000 at Harrisonburg, Va. to the Massanutten Amateur Radio Assoc.

On Air Status Requests sent to:

927.5625	N3CDY	Whiteford, Md.
927.4875	N3CDY	Towson, Md.
420 Link	N3CDY	Towson, Md. / Whiteford, Md.
53.3100	N3CDY	Towson, Md.
420 Link	N3CDY	Towson, Md.
433 Link	Christiana CARES	Wilmington, Del.
444.8500	Christiana CARES	Middletown, Del.
442.0000	U of PA ARC	Seaford, Del.
440 Link	AARC	Sunderland, Md.
440 Link	AARC	Davidsonville, Md.
448.2750	W3JKS	Wilmington, Del.
146.7750	N3HRT	Lexington Park, Md.

Coordinations Withdrawn / Cancelled:

927.5625	N3CDY	Whiteford, Md.
420 Link	N3CDY	Towson, Md. / Whiteford, Md.
440 Link	AARC	Sunderland, Md.
53.3900	K3GOD	Baltimore, Md.
448.0750	K3GOD	Baltimore, Md.
448.1750	W3GLB	Seaford, Del
433 Link	Christiana CARES	Wilmington, Del.
448.2750	W3JKS	Wilmington, Del.
146.7750	N3HRT	Lexington Park, Md.


Other:

Received 1 VHF Notice of Proposed Coordination from the South East Repeater Assoc.

Thanks & 73,
T-MARC
The Mid-Atlantic Repeater Council
www.tmarc.org



October 2012

	1	2	Meeting Coffman's 7:30 pm 3	4	5	CARAFest Howard County Fairgrounds www.carafest.org 6
7	8	9	28.445 Mhz Net 8 pm 10	11	12	13
14	15	16	Meeting Coffman's 7:30 pm 17	18	19	20
Mason-Dixon Hamfest www.qis.net /-k3pzn 21	22	23	147.24 Mhz Net 8 pm 24	25	26	27
28	29	30	449.575 Mhz Net 8 pm  31			

From the Skies over Mt. Essex

SKY Events for October 2012

Chance of Showers for the next 3 months!

Oct 1st- Mercury is 1.8° N of Spica at 04:00 EDT.

Oct 3rd - Regulus is 0.1° N of Venus before dawn.

Oct 5th - Jupiter is 0.9° N of the Moon at 17:00 EDT.

Oct 8th- Last Quarter Moon

Oct 13th - The Zodiacal Light is visible in the Northern latitudes before morning twilight for the next two weeks.

Oct 15th -New Moon

Oct 16th - Mercury is 1.3° S of Moon at 22:00 EDT.

Oct 20-21st – Orionid meteor shower, prospects are excellent expect >20 meteors per hour, these meteors come from 1P/Halley's comet. The Moon is in 1st quarter.

Oct 21st – First Quarter Moon

Oct 26th - Mercury is 24° E of the Sun E elongation.+

Oct 25th- Saturn in conjunction w/Sun

Oct 29th - Full Moon “Time of Poverty” for the Native American Mohawk tribe and the “Harvest Moon” for the Celts.

Planet Lookout at mid-Month

Mercury – Low in the WSW in the Sun's glare. Mag -0.2
Size 5.6 arc sec 80% disk.

Venus – Morning Star, in the East at dawn, Mag -4.1
Size 14.6 arc sec, 76% disk.

Mars –In Southwest at twilight. Mag +1.2 Size 4.7 arc sec

Jupiter- Rises mid- evening, high in south early morning. Mag -2.6,
Size 44.9 arc sec

Saturn- not visible in conjunction w/Sun.

Uranus- Visible all night Mag +5.7 Size 3.6 arc sec

Neptune –Visible most of the night, Mag +7.9 Size 2.5 arc sec.

The root word **meteor** comes from the Greek *meteōros*, meaning *high in the air*.

Meteoroid – the rock in space.

Meteor – What we see in the sky.

Meteorite – What lands on the ground?

All three items above are the same thing, it depends how we see it.

Ionization trails - During the entry of a meteoroid or asteroid into the upper atmosphere, an ionization trail is created, where the molecules in the upper atmosphere are ionized by the passage of the meteor. Such ionization trails can last up to 45 minutes at a time. When radio waves are bounced off these trails, it is called meteor scatter communication. Amateur radio operators sometimes use meteor scatter communication on VHF bands 30 to 300 MHz.

Speed - The fastest objects travel at roughly 26 miles per second (42 km per second) through space in the vicinity of the Earth's orbit. Together with the Earth's orbital motion of 18 miles per second (29 km per second) speeds can reach 44 miles per second (71 kilometers per second) in head-on collisions.

Equipment Required – None, the best equipment needed is a dark night, with little or no moon light. All you really need is a comfortable chair, beverage and maybe a light jacket. Telescopes or binoculars are not needed.

When and where to look - Normally, the best time to see meteor shower is after midnight local time. Where to look, the name of the shower denotes where the radiant point comes from a name of a Constellation. For example Orionids from the constellation Orion and Leonids from Leo. The radiant point is the apparent spot in the sky where the meteors appear to come from.

For the next 3 months we are expected to have better than average viewing (low Moon light interference).
October 20- Orionids; November 17- Leonids and December 13 -Geminids.