

THE AERO AERIAL

Our Tenth Year



The newsletter of the Aero Amateur Radio Club
Middle River, Md
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Editor Frank Stone AC3P

Officers

Joe Miko	WB3FMT	President
Bob Venanzi	ND3D	Vice-President
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Pat Stone	AC3F	Corresponding Secretary
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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 REPORT

28.445 MHz: AC3P(NCS) KA3SNY W3JEH W3VRD

147.24 MHz: AC3P(NCS) W3JEH KA3SNY AK3RX KB3JVP AA3IR

Station Activities

AK3RX is now **W3IRE**. **AC3P** has one less HF radio. **W3VRD** reports working Sri Lanka on 20 meter PSK31.

For Sale

Cushcraft R8 40-6 meters. New in unopened box. I paid \$529 from HRO
Selling for \$429.00 cash only local pickup. Save \$100.00 Conact Ed, W3PG

Meeting Canceled

The February 20th meeting was canceled because Coffman's had closed for lack of help.

Upcoming Public Service

BRATS is looking for help with two Multiple Sclerosis Society events. There is a walk scheduled April 13th at Towson University and a bike tour for June 8 -9 on the Eastern Shore. For more information, contact Bob WA3SWA.

W3PGA New Home

Club Station W3PGA opens at its new location in the mezzanine at the Aero Theater in Middle River. The station is capable of running 1KW on all HF bands and 50 – 100 Watts on VHF/UHF. Antennas include a dipole, 2 element HF Quagi and 4 element 2 meter/70cm yagi.

W3PGA will serve as net control for the Aero Club Nets and also participate in Public Service Events and contests.

Members wishing to operate during the opening should be at the Aero Theater at noon on April 1st.

Field Day Prep

Members who have laptops that could be used for the logging network on Field Day are asked to bring them to the May 1st meeting in order to load the logging software.

Due to the time required to check out the laptops, the first meeting in May will start early at 7 p.m.

From T-MARC

Feb. 2013

Applications in Process:

Kent County ARC Received coordination application for modification of 146.9700. Sent Notice of Proposed Coordination to adjacent coordination groups.

Kent County ARC Received coordination application for modification of 147.1950. Sent Notice of Proposed Coordination to adjacent coordination groups. Objection received from ARCC. Found alternate pair and sent another proposed coordination to adjacent coordination groups.

AMROS Received coordination application for 900 MHz Aux. Link. Sent Notice of Proposed Coordination to adjacent coordination group.
Sent Construction Coordination for 900 MHz Link.

Fauquier ARA Received request for ERP and AGL increase for 442.5000.
Sent Notice of Proposed Coordination to neighboring coordination groups.

T-MARC

The Mid-Atlantic Repeater Council



April 2013

			Meeting Coffman's 7:30 pm			BARC Hamboree Timonium Fairgrounds
	1	2	3	4	5	6
7	8	9	28.445 MHz Net 8 pm	10	11	12
			Meeting Coffman's 7:30 pm			York Hamfest Spring Grove, Pa. www.yorkhamfest.org
14	15	16	17	18	19	20
ARRL Rookie Roundup Phone			147.24 MHz Net 8 pm			
21	22	23	24	25	26	27
28	29	30				

From the Skies over Mt. Essex

SKY Events for April 2013

What's up in Space?

Apr 3rd - Last Quarter Moon

Apr 10th - New Moon

Apr 14th Jupiter 2.1° North of Moon UT 18:00

Apr 18th - First Quarter Moon

Apr 19th - Mercury is 2° South of Uranus UT 21:00

Apr 21 – 22nd – Lyrids Meteor Shower, look towards Lyra after midnight. Rate about 20 meteors per hour. With moon near full it should be a fair display.

Apr 25th - Moon passes .004° N of Spica UT 00, occultation visible in Central America and Africa.

Apr 25th - Full Moon “**Half Moon**” for the Shawnee American Indian tribe and the “**Pink Moon**” Traditional Full Moon Names. – Partial Lunar eclipse visible in Asia and Eastern Europe, not the U.S.

Apr 26th - Saturn is 4° North of the Moon UT 02:00

Apr 28th – *Saturn at opposition.*

Planet Lookout at mid-Month

Sunrise 06:29 EDT and Sunset 19:44 EDT

Mercury - Visible in dawn sky Mag -0.1, size 6 arc sec.

Venus – Lost in the Sun's glare, visible at Dusk in Western Sky by the end of month. Mag -3.9 Size 9.8 Arc sec.

Mars – out of sight this month in the glare of the Sun.

Jupiter In the West at sunset Mag -2.0 size 34.5 arc seconds.

Saturn In Libra evening sky Mag +0.2 size 18.9 arc seconds.

Uranus In the East at sunrise by the end of the month. Mag +5.9 size 3.3 arc seconds.

Neptune In the dawn sky rises at 06:29 EDT. Mag +8.0 size 2.4 arc seconds.

Well in space, that's not an easy answer. For an astronaut floating in space there is an up and there is a down. But it's relative to your orientation, basically putting it; up is whatever direction your head is pointing. It is said one of the biggest problems astronauts have is orientation. Which way is up? Well, whatever way you want it to be, and it's always changing depending on which way you're "floating".

First off, as others have stated, north, south, east, west, Up and down are 'earth-centric' concepts. They really only make sense in an 'essentially-flat-earth-environment' that most of us are used to.

When you go into a solar system (or into a larger system such as a galaxy) you need to use a different set of criteria for cardinal compass positions. Cardinal points are the four chief directions of the compass; the north, south, east, and west points. Large systems such as a solar systems or galaxies using the rotation of the system can also be used as a reference points.

In large systems this rotation or Spinward, means in the direction of rotation of the system or by using the Center of Mass Inward, this means toward the mass-center of the solar system or galaxy.

Even maps, planets and the sun have various cardinal points. A highway or world map uses the points West is left, East is right, North is the top of the map and South is the bottom. A star chart on the other hand, East and West are reversed, North and South are the same.

The Moon and Planets compass points are the same as a world map. When looking at the Moon the western edge of the moon is closest to the Earth's eastern horizon, the eastern edge is closest to the Earth western horizon.

The coordinates when looking at the Sun are just the opposite the eastern limb of the Sun is towards the eastern horizon on Earth.

Here's looking up!