

# ***THE AERO AERIAL***

## ***Our Ten Year Anniversary Edition***



The newsletter of the Aero Amateur Radio Club  
Middle River, Md  
Volume 11 Issue 1  
January 2014

Editor Frank Stone AC3P

### Officers

Joe Miko	WB3FMT	President
Bob Landis	WA3SWA	Vice-President
Lou Kordek	AB3QK	Recording Secretary
Frank Stone	AC3P	Corresponding Secretary
Warren Hartman	W3JDF	Treasurer
Ron Distler	W3JEH	Resource Coordinator

Repeater  
VE Testing  
Public Service  
Webmaster  
Trustee  
Club Nets  
Contests  
FAR Representative

### Committees

Phil Hock W3VRD  
Pat Stone AC3F  
Bob Landis WA3SWA  
Al Alexander K3ROJ  
Frank Stone AC3P  
Joe Miko WB3FMT  
Bob Venanzi ND3D  
Charles Ester III KC3ANJ

## **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	145.33	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 <sup>nd</sup> Tues	7:30 pm	146.670	Baltimore County <u>RACES</u> 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

## AERO NET REPORT

**28.445 MCs: WB3FMT (NCS) W3JEH AC3P**

**147.24 MCs: WB3FMT (NCS) AC3P W3JEH K3ANG N3KBF AB3SD**

## Station Activities

**W3VRD** reports hearing strange emissions on 15 meter PSK-31. **W3JEH** is portable 4. Congrats to **AC3F** and **AC3P** on the arrival of new grandson Sebastian, harmonic of **N3RXD** and **XYL**, Kara.

## Dues Are Due

It's that time again. Treasurer Warren wants you. The club dues are due at the first meeting in January. Due for 2014 remain at \$24 for regular membership and \$2 for family members.

## *Ten Years After*

In January 2004 we launched the Volume 1, Issue 1 of *The Aero Aerial* as an experiment to see if a club newsletter was possible. Now with volume 11, issue 1 and some 120 issues later, we see the club 'rag' as a continuing work in progress.

Over the past decade *The Aerial* has chronicled the activities of our members, club involvement in contests, field days, public service events and involvement in emergency communications. We added a regular astronomy-related feature to inform our readers of what goes on in the ether above the ionosphere. The “staff” has had fun in preparing the April editions and the somber duty of reporting the passing of our members, friends of the club and our members' family.

There have been some issues where there were droughts of ideas for articles and others where the newsletter practically wrote itself. All in all there are areas in this experiment that have gone well and others that could use improvement.

The goal looking ahead is for a wider participation from the Aero membership at large in putting together your newsletter.

If you have a project you are working on, jot a few notes down and send them to the editor. Even if you don't think it important or you don't feel you have the time to put together send it in and the staff can build an article from the information. The staff is interested in any technical articles a member could send in.

It's not possible to predict how long into the future this experiment may continue, but we plan to carry on.

The Staff

## **Remembering MMXIII**

Happy New Year! Before we march into 2014, it behooves us to take a look at the previous year.

2013 was a pretty good year for the Aero ARC.

The year kicked off with the annual club contest. In what is becoming a tradition, Bob ND3D won once again allowing him the honor of remaining the Contest Czar.

Also beginning the New Year of 2013 was the VE Testing Program under the tutelage of Pat, AC3F. For the year the club's test sessions accounted for 15 new amateurs and 9 upgrades.

On the public service front Bob WA3SWA continued involvement with various events with the Multiple Sclerosis Society through cooperation with BRATS. AC3F and AC3P helped celebrate the sesquicentennial anniversaries of the Battle of Gettysburg in July and the The Gettysburg Address in November. They also participated in an experiment at the request of NASA's Jet Propulsion Laboratory by transmitting 10 meter CW signals to the Juno spacecraft enroute to Jupiter. The club call W3PGA was also used in the effort. A new public service opportunity surfaced with the Fly-in at Essex Skypark and discussions were held with the Martin Aviation Museum on ways the club might help with their events.

Speaking of Essex Skypark, their facility was home for our Field Day 2013 effort and this time we enjoyed the amenities of a hangar. The club made a respectable showing with 3554 points.

The year brought us new member Charles KC3ANJ and Kelly KC3APF.

Sadly we lost longtime member Bernie K3CXC (SK).

Looking ahead, we hope that 2014 proves to be another good year for the Aero ARC and its members.

# HT Raffle

Jim Dilley is offering the club a new Yaesu FT 60R HT. It will be raffled off with the proceedings going to the club. There will be a separate raffle for the HT. Tickets will be sold on two meeting dates, 12/18/13 and 1/8/14. The drawing will be done at the 1/8/14 meeting. The raffle tickets for the radio will be \$5.00 each. Tickets bought on the 18<sup>th</sup> will be added to the ones on the 8<sup>th</sup>. This is a separate raffle than the 50/50.

# Top Band Contest

The first weekend in December is contest time on 160 meters. Bob ND3D, Frank AC3P and Ron W3JEH were on the air for the fun. Bob ran solo at the W3LL contest station. Bob reports his experience as follows.

ARRL 160-Meter Contest

Call: W3LL

Operator(s): ND3D

Station: W3LL

Class: Single Op HP

QTH: MD

Operating Time (hrs): 18

Summary:

Total: QSOs = 1037 Sections = 75 Countries = 31 Total Score = 264,364

Club: Potomac Valley Radio Club

Comments:

SO1R

Bob ND3D was the operator piloting W3LL.

The P3 was a significant asset in this unassisted category.

Beverages were a big help.

We setup Live Score reporting for the first time. It made me a better spectator rooting for the home team.

This contest puts W3LL over the 100 worked entity mark on 160M.

Equipment:

K3 with Sub Receiver, P3, Alpha 9500,

Shunt-Fed 90' tower top loaded with SteppIR MonstIR opened to 40M, 60 X 120' radials, 800' NE/SW reversing Beverage and 600' NW/SE reversing Beverage.

73,

Bud W3LL

Bob ND3D

Frank brought up AC3P from home and ran the Yaesu FT-950 at 100 watts switching between the Butternut H6V Verical and a Radiowavz G5RV Lite in an inverted vee configuration. AC3P was in the frey for only a total of 5 hours but managed to make 100 Q's with 32 ARRL/RAC Section multipliers for a claimed score of 6400 points.

Ron W3JEH was on the band for a short time on Saturday with a longwire antenna at 100 watts. He was able to make 20 Q's from 12 different Sections for a score of 480.

Regardless of score, operating Top Band is always fun. As Ron observed, "The band sounded like Field Day".

## **Aerial Archives**

2004 – Ten Years

A look back at 2003 with mention of Club ECOMM participation during Hurricane Isabel. Reviewing the Yaesu FT-8900 transceiver.

2009 – Five Years

Celebrating our 5<sup>th</sup> Anniversary. The demise of analog broadcast TV. Club hats.

# Aero Contest 2014

## 33 DAYS AND 33 NIGHTS OF FUN

REVISED November 20, 2013

**When:** 0000 UTC Wednesday 01 January 2014 (1900 EST Tuesday 12/31/13)  
to  
2359 UTC Sunday, 02 February 2014 (1859 EST Saturday 2/02/14)

**Eligibility:** All current AERO members.

**Station:** You may operate from any amateur radio station...from your home, a guest's home, terrestrial mobile, maritime mobile, aeronautical mobile, here or abroad.  
A station may even be operated remotely!

**Bands & Modes:** Work any legal mode and band allowed by your license class.  
Echo Link and IRLP contacts are not permitted.  
Repeater contacts are OK.

**Scoring:** One (1) point per CW contact.  
Two (2) points per AM contact  
Three (3) points per SSB or FM contact  
Four (4) points per RTTY contact  
Five (5) points per DIGITAL contact  
Six (6) points per SSTV contact  
Ten (10) points per ATV contact

**Bonus Points:**

Any contact via remote operation	100 points per contact
Any contact above the 70 cm band	250 points per contact
Any satellite contact	500 points per contact
Any EME (earth-moon-earth) contact	1000 points per contact per team member
Any HAR (high altitude ballooning mission)	100K points per mission per team member

**Other Info:** The same station may be worked any number of times.  
Winner(s) of this contest will run the contest next year.

**Results:** E-mail log sheets to nd3d at arrl.net by Sunday February 9, 2014. Contest results will be reported at the February 20, 2014 meeting of the AERO Club!

**HAVE FUN - - TRY SOMETHING NEW !**

## ***T-MARC*** November 2013

### **Applications in Process:**

KA4DCS: Received request for change of frequency to un-published UHF repeater in Washington, D.C. Sent Notice of Proposed Coordination for UHF pair to neighboring coordination groups. Sent Construction Coordination for un-published pair in Washington, D.C.

Sussex ARA: Received application for move of 145.2500 from Bethany Beach to Selbyville, Delaware. Sent Notice of Proposed Coordination to neighboring coordination groups. Sent Construction Coordination for move to Selbyville, Delaware.

E-STAR Reagan: Received Application for Coordination for narrowband VHF pair in Washington, D.C. Sent Notice of Proposed Coordination to co-channel and adjacent channel systems in TMARC area and also to neighboring coordination groups. Initial proposed pair withdrawn.

K3OCM: Received Application for Coordination for narrowband UHF pair in Mechanicsville, Md. Sent Notice of Proposed Coordination to neighboring coordination groups. Sent Construction Coordination for 443.1875+ at Mechanicsville, Md.

DCMARC: Sent Final Coordination for 145.4300- at Laurel, Md.

Christiana Hospital CARES: Received on the air notification of 442.5000+ at Middletown, Del. Sent Final Coordination.

Univ. of Pa ARC: Received on air notification of 442.0000+ at Wilmington, Del. Sent Final Coordination.

Fauquier ARA: Sent Final Coordination for 442.2500+ at Warrenton, Va.

W4GSB: Received request to transfer coordination of 146.6700- in Page County, Va. Received approval from N4PJI and KE4ZLH.

K3WS: Received application for UHF pair in Washington, D.C. Sent Notice of Proposed Coordination to neighboring coordination groups.

Anne Arundel Radio Club: Received notice of CTCSS change on 444.4000+ at Davidsonville, Md. Sent notice to neighboring coordination groups.

Antietam Radio Assoc. -- Received notice of CTCSS add 147.0900+ at Hagerstown, Md. Sent notice to neighboring coordination groups.

Mid-Atlantic DX & Repeater Assoc. -- Received notice of CTCSS change on 147.0600+ at Frederick, Md. Sent notice to neighboring coordination groups.

### **On Air Status Requests sent to:**

53.1300-	Alex RC	Alexandria, Va.
442.0000+	N2LEE	Herndon, Va.
443.8500+	K3OCM	Towson, Md.
442.2500+	Fauquier ARA	Warrenton, Va.

### **Other:**

Received 1 Notice of Proposed Coordination for a 440 pair from South East Repeater Association.

The Mid-Atlantic Repeater Council



## VE CORNER *by Pat Stone AC3F*

The final test session for 2013 was held at White Marsh on November 23<sup>rd</sup>. We had six applicants to test.

Everyone was successful.

Congratulations to new Techs: Thomas Johnson **KC3BRT**, Charles Maul **KC3BRU**, Michael Kelley **KC3BRV**, and Jason Johnston **KC3BRW**. Also deserving congratulations are upgrades: General James Ringsaker **K3ZMB** and Extra Curtis Sanders **K3URT**.

Thanks to our VE's; KC3EK, AB3QK, WB3FMT and AC3P.

The next Exam Session at White Marsh will be on January 23<sup>rd</sup>.

### 2014 Exam Schedule

**Where: Baltimore County Public Library**

**8133 Sandpiper Circle**

**White Marsh, Md. 21236**

**Time: 1 p.m. Saturday**

**Dates: January 25**

**March 22**

**May 31**

**September 20**

**November 22**

**Fee: \$15**

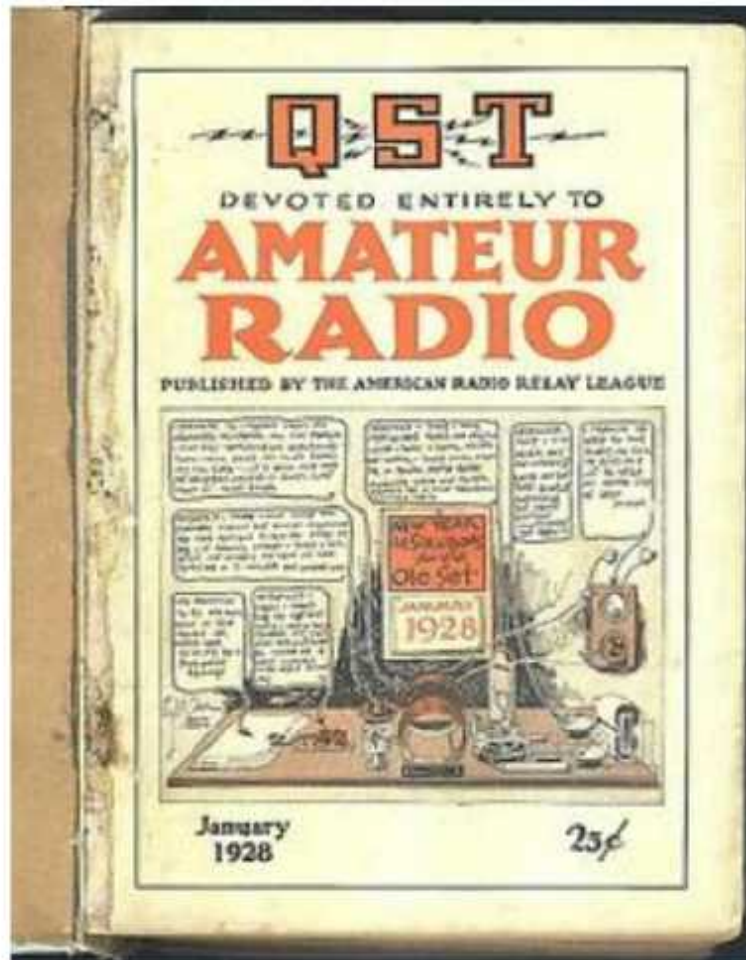
**Contact: Patricia Stone AC3F**

**Phone: 410-687-7209**

**Email: [ac3f@juno.com](mailto:ac3f@juno.com)**

**Webpage: [www.aeroarc.us/vetesting.html](http://www.aeroarc.us/vetesting.html)**





January 2014

			Happy New Year No Meeting Straight Key Night 33 Days Contest <b>1</b>	33 Days Contest <b>2</b>	33 Days Contest <b>3</b>	33 Days Contest <b>4</b>
33 Days Contest <b>5</b>	33 Days Contest <b>6</b>	33 Days Contest <b>7</b>	Meeting Coffman's 7:30 PM 33 Days Contest <b>8</b>	33 Days Contest <b>9</b>	33 Days Contest <b>10</b>	33 Days Contest ARRL VHF Contest North American QSO Party CW <b>11</b>
33 Days Contest ARRL VHF Contest North American QSO Party CW <b>12</b>	33 Days Contest <b>13</b>	33 Days Contest <b>14</b>	33 Days Contest 28,445 Megacycle Net 8 p.m. <b>15</b>	33 Days Contest <b>16</b>	33 Days Contest <b>17</b>	33 Days Contest Harrisburg Winterfest <b>18</b>
33 Days Contest <b>19</b>	33 Days Contest <b>20</b>	33 Days Contest <b>21</b>	33 Days Contest <b>22</b>	33 Days Contest <b>23</b>	33 Days Contest <b>24</b>	33 Days Contest VE Testing White Marsh 1 PM <b>25</b>
33 Days Contest Maryland Mobileers Hanfest Odenton Md <b>26</b>	33 Days Contest <b>27</b>	33 Days Contest <b>28</b>	33 Days Contest <b>29</b>	33 Days Contest <b>30</b>	33 Days Contest <b>31</b>	

# From the Skies over Mt. Essex

## SKY Events for January 2014

## Upcoming Events for 2014

January 1<sup>st</sup> *HAPPY NEW YEAR MMXIV, New Moon*

Jan 4<sup>th</sup> - Earth at Perihelion (closest to the Sun)  
91,406,230 miles at 00:59 EST.

Jan 3-4<sup>th</sup> – Quadrantids Meteor shower approx 60 -120  
meteors per hour, look NE toward Bootes after mid-  
night.

Jan 5<sup>th</sup> – Jupiter at opposition.

Jan 7<sup>th</sup> – First Quarter Moon

Jan 8<sup>th</sup> - Latest onset of morning twilight.

Jan 15<sup>th</sup> – Jupiter is 5° North of the Moon.

Jan 15<sup>th</sup> - *Full Moon* Moon “**Quite Moon**” for the Celtic  
and the “**Full Wolf Moon**” Traditional Full Moon Names.

Jan 24<sup>th</sup> - Last Quarter Moon

Jan 25<sup>th</sup> - The Moon passes 0.6° South of Saturn..

Jan 30<sup>th</sup> - *Second New Moon of January. The second  
New Moon in a month is called the **Black Moon**.*

### Planet Lookout at mid-Month

**Sunrise 07:24 EST and Sunset 17:08 EST**

**Mercury** in the West at sunset, magnitude-1.0; 5.1 arc seconds

**Venus** in the East at sunrise magnitude -4.2 and 62.2 arc  
seconds.

**Mars** Morning sky SE, magnitude +0.6 and 7.7 arc  
seconds wide.

**Jupiter** Visible all night, magnitude -2.7 size 46.5 arc  
seconds.

**Saturn** Morning sky. Magnitude +0.6 size 16.2 arc seconds.

**Uranus** In the West sets by 23:00 EST. Magnitude +5.9 size  
3.4 arc seconds.

**Neptune** Also in the West sets by 20:00 EST. Magnitude +8.0  
size 2.4 arc seconds.

**Planets** – Mars returns to the evening sky in spring, Mars  
reaches opposition April 8 and will be 15” the largest and  
brightest since 2007. Saturn reaches opposition on May 10<sup>th</sup>.  
Jupiter reaches opposition on January 5<sup>th</sup>. Venus returns to  
prominence in the last half of 2014 visible in the Western sky  
after sunset.

### Planetary Conjunctions in 2014 © Star Watch

Planets	Date	Separation°
Moon / Saturn	April 28	0.9
Venus / Jupiter	August 18	0.2

**Moon** – No Blue Moons in 2014 using Farmer Almanac rules  
or Sky and Telescope’s two moons in a calendar month. The  
next Blue Moon (2 in one month) occurs on July 31, 2015.  
The next Farmers’ Almanac Blue Moon (4 in a season) occurs  
May 21, 2016

**Eclipses - Moon 2-** Total Lunar Eclipses - 4/15/14 and  
10/8/14, both visible up through Moon set from the Eastern  
U.S.

**Solar Eclipses 1-** Annular 4/29/14, not visible in the U.S. but  
seen in Antarctica and Australia. and 1- Partial Solar Eclipse  
on 10/23/14, visible in Central and Western U.S. (West of  
Georgia and Ohio.

**Meteor Showers for 2014** - 3 Fair, 4 Good, 2 Very Good

Quadrantids 1/3/14	New Moon	Very Good	60-120 per hr
Lyrids 4/22/14	Last Quarter	Fair	10 per hr
Eta Aquarids 5/5/14	Waxing Crescent	Good	45 per hr
Bootes 6/27/14	New Moon	Good	0-100 per hr
Delta Aquarids	Last Quarter	Fair	16 per hr
Perseids 8/12/14	Full	Fair	60-80 per hr
Orionids 10/21/14	New Moon	Good	18 per hr
Leonids 11/17/14	New Moon	Good	15 per hr
Geminids 12/14/14	Last Quarter	Very Good	120 per hr

### Seasons in 2014

Earth Perihelion	01/04/2014	07:00 EST	12:00 UT
Earth Aphelion	07/04/2014	20:00 EDT	00:00 UT
Vernal Equinox	3/20/2014	12:57 EDT	(16:57 UT)
Summer Solstice	6/21/2014	06:51 EDT	(10:51 UT)
Autumnal Equinox	9/22/2014	22:29 EDT	9/23/14 (02:29 UT)
Winter Solstice	12/21/2014	18:03 EST	( 23:03 UT)

### Daylight Saving Time

Begins 3/09/2014 - End 11/2/2014

### Easter Dates 2014

Easter Christian (Western) and Eastern Greek (Orthodox)  
4/20/2014