

# ***THE AERO AERIAL***

***Our Tenth Year***



***We Survived December 21, 2012***

The newsletter of the Aero Amateur Radio Club  
Middle River, Md  
Volume 10 Issue 1  
January 2013

Editor Frank Stone AC3P

## Officers

|                |        |                         |                |
|----------------|--------|-------------------------|----------------|
| Joe Miko       | WB3FMT | President               | Repeater       |
| Bob Venanzi    | ND3D   | Vice-President          | VE Testing     |
| Lou Kordek     | AB3QK  | Recording Secretary     | Public Service |
| Pat Stone      | AC3F   | Corresponding Secretary | Webmaster      |
| Warren Hartman | W3JDF  | Treasurer               | Trustee        |
| Ron Distler    | W3JEH  | Resource Coordinator    | Club Nets      |

## 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

| <b>Day</b>           | <b>Time</b>    | <b>Frequency (MHz)</b> | <b>NET NAME</b>                   |
|----------------------|----------------|------------------------|-----------------------------------|
| 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 <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           | 14a7.240               | AERO ARC Net                      |
| 5 <sup>th</sup> Wed. | 8 pm           | 449.575                | AERO ARC Net                      |

## Aero Net Reports

### November

**28.445 Mhz AC3P(NCS) W3JEH W3VRD KA3SNY KB3VAE**

**147.24 Mhz. WB3FMT(NCS) W3JEH AC3P AC3F KB3VAE W3VRD KA3SNY KB3PGN**

### December

**28.445 Mhz AC3P(NCS) WB3FMT W3JEH W3VRD KA3SNY KB3VAE**

**12/21/2012**

**Mayan Doomsday Watch AC3P(NCS) WA3SWA WB3FMT KA3VAE AC3F**

**Mayan Doomsday Survivors AC3P(NCS) W3PG WB3FMT AB3QK W3VRD W3JDF**

**147.24 Mhz. WB3FMT(NCS) AC3P KA3SNY KB3JVP**

## Station Activities

**W3JEH** reports that the 222 MHz machine is back on the air. Congrats to **W3VRD** for getting a mention in the December issue of QST's VHF column. Back by popular demand, **KB3PGN** is harping at her church. Congrats to **AC3F** on her retirement. The battle for airtime begins in earnest. **W3PG** has a new Elekraft automatic tuner. Wishing a speedy recovery to Mary Miko, XYL of **WB3FMT**. **ND3D** operated **W3LL** during the ARRL 160 meter contest and worked **AC3P** on the Top Band.

## Looking Back on 2012

If you are reading this, we survived "Mayan Doomsday" and 2012 was a good year for the Aero Amateur Radio Club.

Ron, W3JEH, brought his 222 MHz repeater back to life.

Eric Carl Jr., KB3JDE, moved to Tennessee to start an antenna farm.

Bob, ND3D, won the 20 Days/20 Nights contest and also organized Team Aero for the NAQP Contests.

Joe, WB3FMT, responded, to a request to the club from The Glenn L. Martin museum for help with loan of a code practice oscillator for the WWII exhibit.

In a request from the Essex Air Park Frank, AC3P, penned a letter, voicing Aero Club support for the airport which was sent to county government officials.

We welcomed new members, Chuck KB3EK and Eric Carl, Sr. KB3YJT.

The Aero Aerial published its 100th edition in April.

Also in April many members participated in the 100th Anniversary of the Titanic Disaster.

For Field Day the club found a new home on the grounds of Essex Sky Park which also served as the Mt. Essex Observatory field site for the 2012 Transit of Venus, observed by Joe WB3FMT, Frank AC3P, Pat AC3F, Dave KA3SNY, and Georgeann KB3PGN.

The Aero VE Team conducted 5 test sessions with 13 applicants resulting in 5 upgrades and 7 new hams.

We also had opportunities of Special Nets for Leap Year, a Blue Moon and Mayan Doomsday.

Now that we survived the Mayan Calendar, we can look forward to the fun of 2013.

## Lunar Project Status

The Aero ARC's version of "Project Diana" is on track. Phil W3VRD has been constructing the yagis. Warren, W3JDF is working on the phasing harness. Bob, WA3SWA is getting the software together for the transmission mode. Joe WB3FMT is getting data on the optimal time for the transmission.

## VE Corner *by AC3F*

The November test session was held on the 24th at the White Marsh library. Five applicants were present for testing. Congratulations to Fred Wills, **KB2BRI**, on grandfathering to General. Congrats also to New General Art Wadsworth **KB3ZNL**, and New Techs, Sandy Vary **KB3ZNM**, Yonelle Adams **KB3ZNN**, and Scott Aronoff **KB3ZNK**..

Thanks again to the AERO VE Team members, AC3P, WB3FMT and AB3QK for making another successful test session.

## Aero VE Test Schedule 2013

Where: White Marsh Branch Baltimore County Public Library

January 26

March 23

May 11.

September 28

November 23

All test sessions will begin at 1 p.m.

Walk-ins Welcome.

Contact: Pat Stone, AC3F

410-687-7209

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

## Dues Due

Dues for 2013 are due on January 2nd. Please don't forget to see Warren at the meeting to stay current.

## Virtuoso Performance

Many of the Aero ARC members have talents in addition to their amateur radio prowess. One such member is Georganne, KB3PGN. Georganne regularly performs as a harpist before services at her church. One recent performance preceded Christmas Eve services at which she soloed in tandem with an organist accompanying a vocalist. The organist-singer duo would perform a well-known carole followed by Georganne's instrumental solo on her harp.

The performance was well received by the congregants which included a contingent from the Aero Club.

Congratulations to Georganne on a job well done.

One may ask what this has to do with ham radio. It is said that people who play musical instruments do better at Morse Code.

# **AERO AMATEUR RADIO CLUB 20 DAYS AND 20 NIGHTS OF FUN**

**When:** 0000 UTC Sunday 01 January 2013 (1900 EST Saturday 12/31) to 2359 UTC Sunday, 20 January 2013 (1859 EST Sunday 1/20)

**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 SSB or AM contact  
Three (3) points per 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 440 Mhz 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 January 28, 2013. Contest results will be reported at the February 6, 2013 meeting of the AERO Club!

# From the Skies over Mt. Essex



## SKY Events for January 2013

### January 1<sup>st</sup> HAPPY NEW YEAR MMXIII

Earth at Perihelion (closest to the Sun) 91,402,500 miles.

January 3-4<sup>th</sup> – Quadrantids Meteor shower approx 40 meteors per hour, look NE toward Bootes after midnight.

January 4<sup>th</sup> – Last Quarter Moon

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

January 10<sup>th</sup> – Venus is 2.8° South of the Moon.

January 11<sup>th</sup> - New Moon

January 18<sup>th</sup> – First Quarter Moon

January 21<sup>th</sup> - The Moon passes Jupiter at 21:57 EST 0.5° South.

January 26<sup>th</sup> - Full Moon “**Severe Moon**” for the Shawnee American Indian tribe and the “**Full Wolf Moon**” Traditional Full Moon Names.

### Planet Lookout at mid-Month

**Mercury** in the East at dawn, magnitude-1.2; 4.7 arc seconds

**Venus in the East at dawn** magnitude -3.9 and 10.5arc seconds.

**Mars** Low in the West after dark, magnitude +1.2 and 4.1 arc seconds wide.

**Jupiter** In the South-East at sunset magnitude -2.6 size 45.1 arc seconds.

**Saturn** Between Virgo and Libra morning sky. Rises before 02:00 EST. Magnitude +0.6 size 16.7 arc seconds.

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

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

### Upcoming Events for 2013

**Planets** - Venus returns to prominence in the last half of 2013 visible in the Western sky after sunset.

### Planetary Conjunctions in 2013 © Star Watch

| Planets        | Date       | Separation° |
|----------------|------------|-------------|
| Mercury/Mars   | February 8 | 0.4         |
| Venus/Mars     | April 7    | 0.6         |
| Mercury/Mars   | May 8      | 0.5         |
| Mars/Jupiter   | July 22    | 0.8         |
| Moon/Mercury   | Nov 3      | 0.5         |
| Mercury/Saturn | Nov 26     | 0.4         |

| Planets        | Date       | Separation° |
|----------------|------------|-------------|
| Mercury/Mars   | February 8 | 0.4         |
| Venus/Mars     | April 7    | 0.6         |
| Mercury/Mars   | May 8      | 0.5         |
| Mars/Jupiter   | July 22    | 0.8         |
| Moon/Mercury   | Nov 3      | 0.5         |
| Mercury/Saturn | Nov 26     | 0.4         |

**Moon** – One Blue Moon using Farmer Almanac rules 8/21/13.

**Eclipses** - Moon 5/25/13, Penumbral 1% total at 00:04 EDT.; Moon 10/18/13 Penumbral at moonrise, 76% total 10:50EDT. No Solar eclipses or Total Lunar eclipse visible in U.S.

### Meteor Showers - 3 Fair, 1 Good, 1 Very Good

|                     |                 |           |
|---------------------|-----------------|-----------|
| Quadrantids 1/3/13  | Waning gibbous  | Fair      |
| Lyrids 4/22/13      | Waning gibbous  | Fair      |
| Eta Aquarids 5/5/13 | Waning crescent | Good      |
| Perseids 8/12       | Waxing crescent | Very Good |
| Geminids 12/14/13   | Waxing gibbous  | Fair      |

### Seasons in 2013

|                  |          |           |            |
|------------------|----------|-----------|------------|
| Vernal Equinox   | 3/20/13  | 07:02 EDT | (11:02 UT) |
| Summer Solstice  | 6/21/13  | 01:04 EDT | (5:04 UT)  |
| Autumnal Equinox | 9/22/13  | 16:44 EDT | (20:44 UT) |
| Winter Solstice  | 12/21/13 | 12:11 EST | (17:11 UT) |

### Daylight Saving Time

Begin 3/10/13 - End 11/3/13

### Easter Dates

Easter Christian (Western) 3/31/12

Eastern Greek Orthodox 5/5/13



*Snowman by Joey Miko  
3rd Harmonic of  
WB3FMT*

## January 2013

|  |           | ARRL Straight Key<br>Night<br>Aero 20/20 Contest | Meeting<br>Coffman's<br>7:30 pm |           |           |           | ARRL RTTY<br>Roundup   |
|--|-----------|--|---------------------------------|-----------|-----------|-----------|--|
| ARRL RTTY<br>Roundup                           |           |  | 20.445 Mhz Net<br>8 pm          |           |           |           |  |
| <b>6</b>                                       | <b>7</b>  | <b>8</b>   | <b>9</b>                        | <b>10</b> | <b>11</b> | <b>12</b> |  |
|  |           |  | Meeting<br>Coffman's<br>7:30 pm |           |           |           | ARRL VHF Contest<br>Harrisburg Fest<br><a href="http://w3uuu.org">http://w3uuu.org</a> |
| <b>13</b>                                      | <b>14</b> | <b>15</b>  | <b>16</b>                       | <b>17</b> | <b>18</b> | <b>19</b> |  |
| Aero 20/20 Contest<br>Ends<br>ARRL VHF Contest |           |  | 147.24 Mhz Net<br>8 pm          |           |           |           | VE Testing<br>1 pm<br>White Marsh  |
| <b>20</b>                                      | <b>21</b> | <b>22</b>  | <b>23</b>                       | <b>24</b> | <b>25</b> | <b>26</b> |  |
| Odenton Hamfest<br>Maryland<br>Mobilizers      |           |  | 449.575 Mhz Net<br>8 pm         |           |           |           |  |
| <b>27</b>                                      | <b>28</b> | <b>29</b>  | <b>30</b>                       | <b>31</b> |           |           |  |
|  |           |  |                                 |           |           |           |  |