

# ***THE AERO AERIAL***

## ***Our Tenth Year of Publication***



*CornuRadio by AC3F*

The newsletter of the Aero Amateur Radio Club  
Middle River, Md  
Volume 10 Issue 11

November 2013

Editor Frank Stone AC3P

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Joe Miko	WB3FMT	President
Bob Landis	WA3SWA	Vice-President
Lou Kordek	AB3QK	Recording Secretary
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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	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	147.240	AERO ARC Net
5 <sup>th</sup> Wed.	8 pm	449.575	AERO ARC Net

## AERO NET REPORT

**28.445 MHz: WB3FMT (NCS) W3JEH KA3SNY**

**147.24 MHz: WB3FMT (NCS) AC3P KB3ANJ KB3APF**

## Station Activities

**W3VRD** is portable 4. **KC3ANJ** has a new radio. **WA3SWA** was back on the Eastern Shore with the MS Society. **AC3P** is getting the antenna farm ready for winter. **W3JEH** is tweaking the repeater.

## Condolences

The Aero ARC wishes to extend condolences to club member Dave Frederick, **KB3KRV** and his family on the loss of his dad who passed away last month. No further details are available.

## VE Corner *by Pat Stone AC3F*



The Aero VE Team resumed testing at the White Marsh Library on September 28<sup>th</sup>. Originally only one candidate had registered to test. When Saturday arrived there were three additional walk-ins.

Congratulations to New Tech Amateurs, Jason **KC3BJG** and Anjali Phukan **KC3BJH**. Congrats also General upgrade, Marty Braun, **KC3AID**.

Welcome back to returning Extra, Harry McKasson **AB3TD**, whose original license had lapsed and did a “hat trick” by passing all three elements in a single sitting.

Unfortunately the government shutdown had delayed the processing of their applications.

Thanks to Joe, WB3FMT, Frank AC3P and Chuck KB3EK, our newest VE, for helping with this test session.

## SKYWARN Class At BARC



**Skywarn Training Class:** The Skywarn Introductory training class will be held October 26, 2013 at 7:30 pm. and taught by Jerry Cimildora N3VBJ. Contact [w3ft67@yahoo.com](mailto:w3ft67@yahoo.com) if you wish to attend.

# Aero Lands at Wings and Wheels

*by Joe Miko WB3FMT*



*W3PGA Mobile*



*Lou operates as Joe and Charles look on and Pat works on another masterpiece*



*Wings*



*Wheels*

*The Wings and Wheels Fly-In event was a success at the Essex Sky park.*

The Aero club returned to the airfield to demonstrate amateur radio and to distribute handouts about our hobby and its potential in public service emergency communications.

The members were on site at 8:00 am for setup and remained until just after 3 pm, when the event began to shut down due to weather conditions. Every one was safe and dry, a predicted storm front didn't hit until about 5 pm.

The club display setup consisted of an HF rig running mainly on 20 meters, 2mtr/440 radio, HT's and handheld scanner to monitor aircraft. A number of contacts were made using CW and Voice, as in past events the CW was a crowd drawer. Several contacts were made to central and southern FL, a special events station working the 80<sup>th</sup> anniversary of the Collins Radio company in Cedar Rapids, IA and to a station in the state of Washington.

The following operators worked the event and provided equipment:

Chuck and Kelley Ester KC3ANJ and KC3APF

Frank and Pat Stone AC3F and AC3P

Lou Kordek AB3QK

Bob Venanzi ND3D

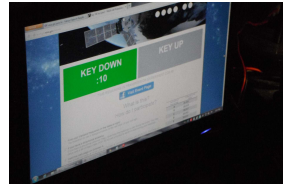
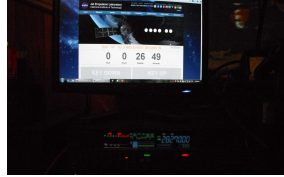
Eric Carl, Sr KB3YJS and airport staff

Phil Hock W3VRD

Joe Miko WB3FMT

Al Alexander K3ROJ provide the battery pack for the portable power.

## Aero Helps NASA/JPL *By Frank Stone AC3P*



Last month Rich, KB3VAE, alerted the club to an email that was circulated announcing a flyby of the JUNO space probe en route to Jupiter on October 9th. NASA/JPL was enlisting the help of radio amateurs, worldwide, to help with the calibration on instruments on-board the vehicle by establishing an RF presence in the 10 meter CW band. The plan JPL had was for the ham operators to send “HI” to JUNO.

In order to establish as wide a band width as possible, JPL set up operating frequencies corresponding to the last letter of the amateur's call sign. As the JUNO probe approached Earth for its flyby amateurs were instructed to transmit “HI” over a 10 minute sequence at 1/25 words per minute. In other words each dit was a 30 second key down followed by 30 second key up for spacing. The spacing between characters was 90 seconds.

At 1800 UTC Aero members Frank AC3P and Pat AC3F, fired up the FT-950 and fed 100 Watts to their 2 element hybrid quad aimed in the beam heading suggested by the project sponsors. For the next hour they operated AC3F on 28.091 MHz., AC3P on 28.270 MHz., and W3PGA on 28.001 MHz. The transmitting sequence was controlled through prompts over the NASA/JPL/Juno website.

NASA/JPL 's JUNO Team hopes to publish the results of the experiment in the near future.

Thanks to Rich for the heads-up.

# Anytone AT-5888UV by Staff & Charles Ester III KB3ANJ



In recent years China has jumped into the Amateur Radio market. First we saw the advent on inexpensive handhelds such as the Wouxon and the Baofeng. These radios were marketed as FCC Part 90 certified so they can be used in land mobile service as well as amateur radio.

Now a moderate powered mobile has arrived. The ANYTONE AT-5888UV is a dual-band FM transceiver which is Part 90 certified for narrow-band FM and amateur radio capability too.

The radio specs are as follows:

## *Features:*

- *Receive Range (FM) 220-260, 350-400, 400-490 MHz  
108-180 MHz (AM or FM Mode)  
118-134 MHz (AM Aircraft Band)*
- *Transmit Range (FM) 134-174, 400-490 MHz*
- *Output Power 50, 35, 10 & 5 Watts*
- *Bandwidth Wide (25 kHz) & Medium (20 kHz) & Narrow (12.5 kHz)*
- *Tuning Step 2.5, 5, 6.25, 10, 12.5, 15, 20, 25 & 50 kHz*
- *True Dual Receive - receive two signals at the same time -- second side can be muted while transmitting*
- *Separate Tuning Knob and Volume Control, each side*
- *separate Function Buttons, each side*
- *Either side can be VHF or UHF at any time - VU, UV, UU, VV - One side can be VFO and the other side Memory at the same time*
- *Cross-Band Repeat*
- *Alphanumeric Display*
- *758 Memory Channels*
- *CTCSS, DCS, DTMF, ANI, PTT ID, 2Tone/5Tone Encode & Decode*
- *Scrambler Included*
- *DTMF Microphone*
- *Detachable Control Head (CAT5 separation cable)*
- *Computer Programmable*
- *All buttons on radio and mic are back-lighted*
- *FCC Part 90 Certified (FCC ID is T4K-5888UV)*

Aero member Chuck Ester III, KB3ANJ recently acquired one of these units and is pleased with its operation. Chuck checked into the Aero 2 meter net with the radio and was full quieting into the repeater and received good reports from everyone checked in. The audio sounded very natural. It was almost as if he was talking on simplex.

Chuck had this to say about ordering the new transceiver:

Anytone 5888uv 2meter / 440 radios received in the USA prior to 8.1.13 had issues ranging from faulty mic connector to faulty firmware. The manufacturer made every attempt to recall any unsold rigs and even repair the mic issue and issue new firmware. But some may remain in circulation.

“The vendor I chose ([www.importcommunications.com](http://www.importcommunications.com)) clearly states he is shipping the latest revision of the rig. I have found multiple positive comments regarding his customer support. I made the choice to email him requesting he call me. As I had a few last questions before I would order place my order. i also wanted to get a feel for who I was dealing with.

He contacted me by phone within a few hours the same day. The conversation was pleasant and I did not feel rushed or pressured. I placed my order and asked when the rig would ship. I was informed orders had went out already that day. My order would have to wait until Monday. As he had to take his wife to the doctor that afternoon. We all have been there.

There was no charge on my account until Monday morning. I also received two emails early Monday. The first was a invoice listing the items purchased. The second confirmed the shipment and contained a tracking number. As promised the package arrived in two days from NC to Dundalk, Md. The product and it's accessories arrived in good order.

#### Note

Vendors selling this rig for less then \$300.00

were china based and shipping would take one to one and a half months.

Many of these sites did not clearly state the version they were selling. Rember we want rigs from after 8.1.13.

All of the most recent radios come with the programming cable. Some sites say they are adding the cable as a bonus.

#### References:

Import communications web site. There links there for Manuel and programming software.

<http://www.importcommunications.com/>

Review for the current revision. With tips for operating and using the menus.

<http://www.worldwidedx.com/product-reviews/150725-anytone-5888uv-vhf-uhf-mobile-review.html>

There is also a Yahoo group that has manuals and information.

**Package contents: \$300.00**

Radio

USB Programming cable.

Radio mounting bracket / screws.

Remote cable for front panel.

**Optional accessories:**

Front panel mount kit / screws    \$12.00

External speakers and Y splitter.   \$35.00

Shipping for rig and accessories   \$15.00

Charles T Ester III”

## **11/17/2013 | 150th Anniversary of the Gettysburg Address**

**Nov 17-Nov 24, 0000Z-2359Z, W1G**, East Berlin, PA. Area Amateurs. All bands, all modes, as propagation permits. Certificate & QSL. Robert Hess, WO4L, 74 Curtis Dr, East Berlin, PA 17316. [www.qrz.com/db/w1g](http://www.qrz.com/db/w1g)





**November 2013**

					<b>1</b>	ARRL CW Sweepstakes <b>2</b>
ARRL CW Sweepstakes <b>3</b>	ARRL CW Sweepstakes <b>4</b>	<b>5</b>	Meeting Coffman's 7:30 pm <b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>10</b>	Veteran's Day  <b>11</b>	<b>12</b>	28.445 KHz Net 8 pm <b>13</b>	<b>14</b>	<b>15</b>	ARRL Phone Sweepstakes EME Contest <b>16</b>
ARRL Phone Sweepstakes EME Contest <b>17</b>	ARRL Phone Sweepstakes <b>18</b>	<b>19</b>	Meeting Coffman's 7:30 pm <b>20</b>	<b>21</b>	<b>22</b>	VE Testing White Marsh 1 pm <b>23</b>
<b>24</b>	<b>25</b>	<b>26</b>	147.240 KHz Net 8 pm <b>27</b>	Happy Thanksgiving  <b>28</b>	<b>29</b>	<b>30</b>

# From the Skies over Mt. Essex

## SKY Events for November 2013

### Fire and Ice (ISON)

Nov 1<sup>st</sup> – Venus at greatest elongation E 47°

Nov. 3<sup>rd</sup> – Hybrid Eclipse of the Sun it's both Annual and Total depending where in Africa you are. DST ends, starts anew on 3/9/14.

Nov. 3<sup>rd</sup> - New Moon.

Nov. 9<sup>th</sup> - First Quarter Moon

Nov. 17<sup>th</sup> - Full Moon “Long Moon” for the Shawnee American Indian tribe and the “Beaver Moon” Traditional Full Moon Names

Nov. 17<sup>th</sup> - Leonid meteor shower, the Moon is Full, like last month, 10 - 20 meteors per hr. From 55P/Temple-Tuttle.

Nov. 18<sup>th</sup> – Mercury at greatest W elongation 19°.

Nov. 25<sup>th</sup> - Last Quarter Moon.

Nov. 26<sup>th</sup> – Saturn above and Mercury are separated by 0.3°

Nov 30<sup>th</sup> – Start looking for Comet ISON (C/2012 S1) in the ESE sky just before sunrise.

## Planet Lookout at mid-Month

**Sunrise 06:50 EST and Sunset 16:51 EST**

**Mercury** – Dawn sky by the 2<sup>nd</sup> week., Mag -0.3, size 7.2 arc sec. Illum. 49%

**Venus** - W Sky, Mag -4.5 Size 30 Arc sec. Illum. 41

**Mars** – Dawn E . Mag +1.4, size 5.2 arc sec, Illum. 92%

**Jupiter** – Mid-Evening . Mag -2.5, size 43.1 arc sec

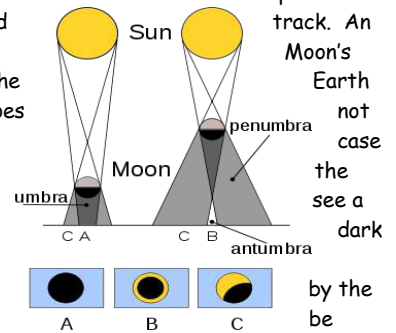
**Saturn** - In dawn sky end of month.. Mag +0.5 size 15.4 arc sec.

**Uranus** – .Eastern shy at sunset. Mag +5.8 size 3.5 arc seconds.

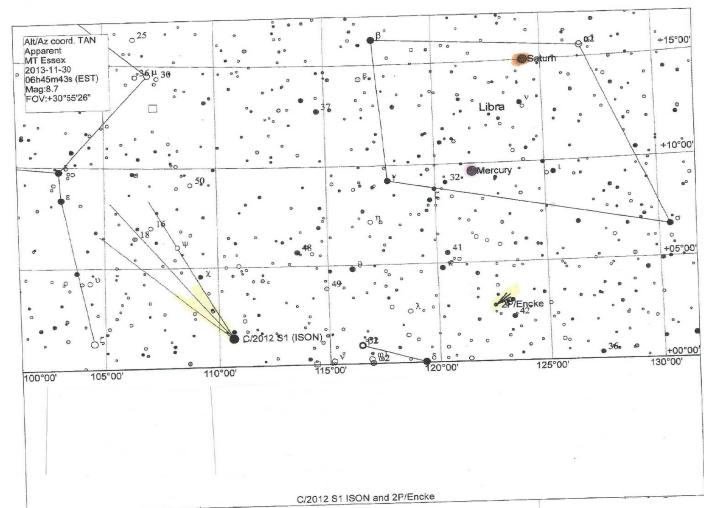
**Neptune** - Southern sky at sunset. Mag +7.9 size 2.5 arc seconds.

N.B. There are 4 double shadow transits of Jupiter's moons in November. (11/2, 11/6, 11/9 and 11/13)

This is a month of extremes a Hybrid eclipse of the Sun and a recently discovered Comet. First a Hybrid solar eclipse is one that is both Annual and Total, it depends where you are along its ground track. An Annular eclipse is where the Moon's orbit is further away from the Earth so that the umbra shadow does not touch the ground. In this case the people on the ground see the sun, they see a ring of sun around the moon, as opposed to a totally blocked sun covered moon. (Example B.) It will be visible in Baltimore as a partial eclipse (Example C). The eclipse is in progress at sunrise (06:39 EST) it will be 34.8% and shrinking it will end 07:10 EST.



By month end we will have visitors from icy space. Not one but two comets in the morning sky. A new one C/2012 S1 (ISON) and a periodic comet 2P/Encke.



**Saturn and Mercury above the comets.**

ISON est. Mag is +0.1, Encke +6.3  
 ISON RA 16h 20m 59s Dec -15° 05' 2"  
 Encke RA 15h 41m 8s Dec -22° 46' 30"

More in December rises higher in the dawn sky.