

THE AERO AERIAL

Our Tenth Year of Publication



Minotaur V arc in Essex Skies lifting LADEE to Moon. WB3FMT photo.

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

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	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: WB3FMT(NCS) W3JEH W3VRD AC3P/m AC3F/m

147.24 MHz: WB3FMT(NCS) KA3VAE W3JEH AC3P KB3EK

50.240 MHz: WB3FMT(NCS) W3JEH AC3P/m KB3VAE
(Blue Moon)

Station Activities

Congratulations to **AC3F** for racking up 37 ribbons at the Maryland State Fair including a 1st place Blue Ribbon for her crab soup. **W3JDF** is a member of the Glenn L Martin Aviation Museum. **AC3P** snagged a Sydney Australia QSO on 10 meters while operating mobile in Oakland, MD running 50 watts to a whip but unable to make the club 10 meter net from there the next evening. **W3JEH** is sporting a new antenna.

Bernie Ulbrich K3CXC SK



It is with great sadness that we report the passing of longtime Aero Member, Bernie Ulbrich, K3CXC.

Bernie's wife, Gerrie notified Ron that Bernie passed away last week in Sarasota, Fla. from a cancer that was discovered two weeks previously.

Bernie had been a club member for more than 50 years. He was retired from the state government and had moved to Florida just a few years ago. We would occasionally hear him on the 2 meter repeater when he was visiting the area.

We extend our sincere condolences to Gerrie and the family.

Repeater Ups and Down

A series of late summer storms on September 12th caused a power failure which disabled the 2 meter repeater while the 440 machine remained in operation.

At the same time Ron W3JEH reported that the 222 MHz repeater antenna has been replaced and the machine is back on the air.

To The Moon



*View from Ocean City, Md. By AB3QK
with reflection off Atlantic Ocean*



*Mt. Essex Observatory photo by WB3FMT
sporting spikes and long exhaust trail*

On September 6th at 11:27 p.m., NASA launched a lunar probe named LADEE from Wallops Island, Va., the first ever moonshot from that location. The plume from the Minotaur V launch vehicle could be seen up and down the East Coast and as western PA and NY.

Aero members were ready for the launch. Joe WB3FMT and Frank AC3P were at the “Mt. Essex Observatory Middlesex Complex” to record the event. Lou AB3QK was strategically positioned in Ocean City watch the liftoff.

The launch of LADEE gives incentive to the Aero ARC's upcoming moon-bounce project.

Ed Note: The next Wallops Is. Launch is September 18th at approx. 10:30 am of a supply capsule to the International Space Station.

From T-MARC

August 2013

Applications in Process:

N3JDR Received Application for Coordination for UHF pair at Braddock

Heights, Md. Sent Notice of Proposed Coordination to neighboring coordination groups. Objection received. Alternate pair submitted to neighboring coordination groups. Sent Construction Coordination for 444.3500+.

AE4ML Received Application for Coordination for UHF pair at Madison, Va.

Sent Notice of Proposed Coordination to neighboring coordination groups.
Sent Construction Coordination for 442.5750+.

W4ALT Received application for re-location of 443.5500+ in Lewes, Delaware

Sent Notice of Proposed Coordination to neighboring coordination groups.
Sent revised coordination.

Network Engineers Repeater Assoc. Received operational status of 444.0500

at Burtonsville, Md. Sent Final Coordination.

Eastern Panhandle ARC Received application for move of 224.2800- from

Martinsburg, W.Va. to Linden, Va. Sent revised coordination.

K3RIC Received Application for Coordination for 444.0500+ at Salisbury, Md.

Sent Notice of Proposed Coordination to neighboring coordination groups and co-channel sponsor within TMARC. Sent Construction Coordination for 444.0500+.

On Air Status Requests sent to:

224.8600-	W3CAM	Columbia, Md.
444.0500+	K3RIC	Delmar, Del.
444.2000+	K3RIC	Salisbury, Md.
448.8250-	KQ4CI	Ashburn, Va.
443.0000+	N2LEE	Herndon, Va.
146.9850-	PHARC	Moorefield, W.Va.

444.4000+	PHARC	Moorefield, W.Va.
447.3250-	KD8AZC	Moorefield, W.Va.
442.4000+	K7SOB	Moorefield, W.Va.
447.1750-	N3ADV	Washington, D.C.

Coordinations Withdrawn / Cancelled:

444.0500+	K3RIC	Delmar, Del.
444.3500+	N3EAQ	Charles Town, W.Va.

Other:

Received 1 Notice of Proposed Coordination for a 2 meter pair from South East Repeater Association.

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

Received 1 Notice of Proposed Coordination for a 1.2 GHz pair from South East Repeater Association.

Received 1 Notice of Proposed Coordination for a 2 meter pair from the Western Pa. Repeater Council

Received 1 Notice of Proposed Coordination for 440 pair from the Western Pa. Repeater Council

Received 2 Notices of Proposed Coordinations for 440 links from the Western Pa. Repeater Council

Received 1 Notice of Proposed Coordination for a 440 pair from Area Repeater Coordination Council.

T-MARC

The Mid-Atlantic Repeater Council

www.tmarc.org

For amateur radio operators, a way to combine our interest in Radios and Aerospace together.

----- Original Message -----

From: "Tom Shelton" <gl1800winger@verizon.net>

To: <smcara@mailman.qth.net>

Sent: Tuesday, September 03, 2013 10:27 PM

Subject: [SMCARA] NASA and JPL need our help...

- > NASA's Juno spacecraft will fly past Earth on October 9, 2013 to receive a
- > gravity assist from our planet, putting it on course for Jupiter. To
- > celebrate this event, the Juno mission is inviting amateur radio operators
- > around the world to say "HI" to Juno in a coordinated Morse Code message.
- > Juno's radio & plasma wave experiment, called Waves, should be able to
- > detect the message if enough people participate. So please join in, and
- > help spread the word to fellow amateur radio enthusiasts!
- >
- > Take a look at <http://www.jpl.nasa.gov/hijuno> and click on "How do I
- > participate?" for more information...
- >
- > Tom Shelton, AB3IC
- > (240) 434-3811
- >

ED Note: From the diagram on the JPL website, it appears that this event favors the Eastern Hemisphere, although the Mercator Projection shows a path over the U.S. After 20:00 UTC.

October Coming Events

2 – Meeting at Coffman's 7:30 pm

6 – Carafest Howard County Fairgrounds

9 – 10 Meter Net 28.445 MHz. 8 pm

16 – Meeting at Coffman's 7:30 pm

23 – 2 Meter Net 147.24 MHz. 8 pm

26 – 27 ARRL EME Contest

30 – 70 Cm Net 449.575 MHz

From the Skies over Mt. Essex

SKY Events for October 2013

Oct. 2nd – Uranus is at opposition.

Oct. 3 - 17 – Zodiacal light is visible in N. latitudes in the East before morning twilight.

Oct. 4th -- New Moon.

Oct. 8th - Mercury is 25° east of the Sun

Oct. 11th -- First Quarter Moon

Oct. 14-16 – Mars and Regulus are 1° apart early dawn.

Oct. 16th – Venus and Antares 1/2° low SW at dusk.

Oct. 18th -- Full Moon “**Wilted Moon**” for the Shawnee American Indian tribe and the “**Hunter’s Moon**” Traditional Full Moon Names. Penumbral eclipse magnitude 76% mid point 23:50 UT, 19:50 EDT, Moon rise at Balto., MD 18:11 EDT.

Oct. 21nd – Orionids meteor shower, the Moon is just past Full, about 20 meteors per hr. From Halley’s comet.

Oct. 26th - Last Quarter Moon.

Oct. 31st – Venus is 47° east of the Sun.

Planet Lookout at mid-Month

Sunrise 07:17 EDT and Sunset 18:25 EDT

Mercury - Dusk in the West, Mag +0.2, size 7.6 arc sec.

Venus - Western Sky, Mag -4.3 Size 21.3 Arc sec.

Mars – Dawn E . Mag +1.6, size 4.6 arc sec

Jupiter - Dawn ENE . Mag –2.3, size 39.3 arc sec

Saturn - W in evening sky Mag +0.6 size 15.4 arc sec.

Uranus – Dusk the East . Mag+5.7 size 3.5 arc seconds.

Neptune - Dusk in the East. Mag +7.8 size 2.5 arc seconds.

N.B. There are 11 double shadow transits of Jupiter’s moons in October and 1 triple transit on the 12th.

Mercury and Mars 75 Years

Seventy-five years ago on October 30, 1938, a Sunday night at 8 p.m., an estimated 10 million people heard a news program that was too real to be false? A nationwide broadcast by the Columbia Broadcasting System (CBS) radio network alerted countless citizens that we were under attack from the Planet Mars. Orson Welles a 23 year old, producer, writer and actor along with Howard Koch and Anne Froelick and members of the “*Mercury Theatre of the Air*” staff adopted a novel by H.G. Wells titled “*The War of the Worlds*” (1898). The Mercury Theatre staff, updated, revised and relocated – events times and places, from London to New Jersey, horse drawn buggies to trucks and the late 1880’s to the late 1930’s. A small unincorporated village less than 20 east of Trenton, New Jersey becomes the first “Roswell” with the landing of space crafts from another world, “Mars”.

What made this unique was back in the 1870s and 1900’s; astronomers were still debating whether Schiaparelli’s canals or channels on Mars carried water and could support life. Back in those days before the advent of television people really watched the radio, like the RCA dog listening to his masters’ voice. People believed what they heard on the radio and this was amplified by the manner in which the story was presented. A regular scheduled program comes on and within minutes is interrupted with urgent news bulletins of an impending disaster. Though realistic, the play does use time skips, at one point going from the start of a battle to its final casualty count within a minute.

If the same scenario was presented today on Television a wide scale panic would occur. What does the red planet from 1938 and 2013 have in common? In ’38 Mars was in Leo, rose before 4 am, had a magnitude of +1.8 and its size was 3.9 arc seconds; In ’13 Mars is in Virgo just south of Leo, rises before 3 am, magnitude is +1.5 and its size is 4.9 arc seconds. Just for fun go look at the Planet that caused a fuss in 1939. As in original story our invaders from the Red Planet die due to an Earth born virus.

The arrival of the United States’ Mariner 4 by NASA in 1965, which took pictures revealing impact craters and a generally barren landscape, was the final nail in the coffin of the idea that Mars could be inhabited by higher forms of life.

The power of radio had fooled the listeners. They had become accustomed to believing everything they heard on the radio, without questioning it. Now they had learned - the hard way. Just like everything on the internet is “true” Happy Halloween!