



Monthly Newsletter  
June 19, 2024

❖ What's New ?

A rewarding aspect of Field Day is to be part of copying the W1AW Bulletin. You may wish to take a practice run. The day we have a real emergency you will be glad you studied for the exam.

Begin with a brief assessment of your capabilities. What band is the propagation from Newington, CT to your QTH good for you? What mode is good for you?

W1AW will operate on its regularly published frequencies. The frequencies are published in QST Magazine and appear on the ARRL website. <http://www.arrl.org/w1aw-operating-schedule>

CW frequencies are 1.8025, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675, 28.0675, 50.350 and 147.555 MHz.

Phone frequencies are 1.855, 3.990, 7.290, 14.290, 18.160, 21.390, 28.590, 50.350 and 147.555 MHz.

Digital frequencies are 3597.5, 7.095, 14.095, 18.1025, 21.095, 28.095, 50.350 and 147.555 MHz.

On Friday evening June 21, 2024 the digital Field Day bulletin sent from W1AW at 9 p.m. EDT local time, will be transmitted using BPSK31, Baudot RTTY, and MFSK16 in this order.

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During the remainder of Field Day weekend, W1AW will transmit the digital Field Day Bulletin using 45.45 baud Baudot RTTY, PSK31 (BPSK Mode), and MFSK16 in this mode order.

FRIDAY June 21, 2024

CW 8:00 PM / Digital 9:00 PM / Phone 9:45 PM / CW 11:00 PM

SATURDAY June 22, 2024

CW 10:00 AM / Phone 11:00 AM / CW 8:00 PM / Digital 9:00 PM / Phone 9:45 PM

SUNDAY June 23, 2024

CW 10:00 AM / Phone 11:00 AM / Digital 12:00 Noon

❖ On-The-Air Events

June 2024 (post publication date)

- West Virginia QSO Party 15<sup>th</sup>
- ARRL Kids Day 15<sup>th</sup>
- ARRL Field Day 22<sup>nd</sup>-23<sup>rd</sup>

July 2024

- Radio Amateurs of Canada – Canada Day 1<sup>st</sup>
- HRAC Firecracker Hamfest 6<sup>th</sup>
- SKCC Weekend Sprint-a-Thon 13<sup>th</sup>-14<sup>th</sup>
- CQ WW VHF Contest 13<sup>th</sup>-14<sup>th</sup>
- North America QSO Party RTTY 20<sup>th</sup>-21<sup>st</sup>
- Alabama QSO Party 27<sup>th</sup>-28<sup>th</sup>

Check the dates. Some contests begin at 0000Z which is Saturday morning UTC, but late Friday night local time.

Find us here: <https://www.RadioClub-CARC.com>  
[www.facebook.com/K3IEC](https://www.facebook.com/K3IEC)  
[groups.io/g/RadioClub-CARC](https://groups.io/g/RadioClub-CARC)

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❖ **General Interest and Calendar Items June 2024, and later**

<p>Ham Radio License Exam Testing Part 1</p>	<p>Harrisburg Radio Amateur Club (HRAC) test dates are 3rd Saturdays, EVEN Numbered Months, starting at 9 a.m.  <i>Location: Vietnam Veterans of America, 8000 Derry Street, Harrisburg, PA</i>  <i>Laurel VEC = No Testing Fee ! Pre-Registration, including your FCC FRN, is required.</i></p> <p>HRAC VE Testing Dates appear on our EVENTS CALENDAR:          Additional information at their web page: <a href="http://www.w3uu.org">www.w3uu.org</a> Look for the link: License Exams.</p>
<p>Ham Radio License Exam Testing Part 2</p>	<p>South Mountain Radio Amateurs (SMRA) conducts license testing at the Public Safety Center off Claremont Road, Carlisle, PA. Exam sessions are scheduled monthly at 6 p.m. on the third Tuesday of the month. Preregistration is required.          Our readers are encouraged to perform their own due diligence to validate any exam session in which they have an interest. Contact: <a href="mailto:n3tw@arrl.net">n3tw@arrl.net</a> or <a href="mailto:smraham@gmail.com">smraham@gmail.com</a>          There is a modest fee for this testing service. Additional details at their web page.  <a href="http://n3tw.org/links/getting-licensed/smra-testing-policies/">http://n3tw.org/links/getting-licensed/smra-testing-policies/</a></p>
<p>Ham Radio License Exam Testing Part 3</p>	<p>Keystone VHF Club (KVHF) conducts license testing at the York County Department of Emergency Services. Exam sessions are scheduled the 2nd Saturday, ODD Numbered Months, starting at 10 a.m. Visit <a href="https://www.w3hz.com/laurel-vec-testing/">https://www.w3hz.com/laurel-vec-testing/</a> for additional information.   <i>Location: York County Department of Emergency Services, 120 Davies Road, York, PA</i>  <i>Laurel VEC = No Testing Fee ! Pre-Registration, including your FCC FRN, is required.</i></p>
<p>Ham Radio License Exam Testing Part 4</p>	<p>Cross Keys Village Amateur Radio Club in conjunction with Adams County Amateur Radio Society conducts license testing in the Cross Keys Village Harmony Ridge Community Center, Encore Room. Exam sessions are offered on the Third Saturday of Odd Numbered months between 9:30 a.m. and 11:30 a.m.          Pre-Registration, including FCC FRN, is required. Online Form at: <a href="https://www.w3kgn.org">https://www.w3kgn.org</a>. Look for “VE Examinations” in the left-side menu bar. Laurel VEC does not charge a testing fee for administering license exams. FCC \$35 fee payment required before license issuance.</p>
<p>License Exam Training Class</p>	<p>Ralph Brandt, K3HQI offers license exam training classes from time to time as part of the Keystone VHF Club and perhaps in conjunction with other organizations and events.          Contact Info: Ralph Brandt, K3HQI eMail: <a href="mailto:K3HQI@arrl.net">K3HQI@arrl.net</a> 717.885.3063 or Google him.</p>
<p>License Exam Training Class</p>	<p>The Nashua Area Radio Society (Nashua, NH) offers license exam training classes on a frequent basis. Some are online. Others are conducted in-person. Check their website for current information. <a href="https://www.n1fd.org/amateur-radio-license-class/">https://www.n1fd.org/amateur-radio-license-class/</a></p>
<p>License Exam Training Class</p>	<p>If you know of any upcoming License Exam Training classes please let AF3I know so that they can be listed here. The ARRL website has a search tool. The classes I found were listed behind the keyword “online”. <a href="http://www.arrl.org/find-an-amateur-radio-license-class">http://www.arrl.org/find-an-amateur-radio-license-class</a></p>
<p>CARC Weekly Coffee Time</p>	<p>Every Thursday at 10:00 a.m. Location: Sometimes at Caffe 101 in Boiling Springs, PA. On the corner, across from the clock-tower and diagonally across from the Boiling Springs Tavern. Sometimes conducted as a Zoom Meeting. Check with Richard Johnson N3EPY for info.</p>

If you have Calendar items that you would like to share with your fellow CARC Members please send them to the Newsletter Editor – Andrew Forsyth AF3I. He can be reached by eMail sent to: [AF3I@RadioClub-CARC.com](mailto:AF3I@RadioClub-CARC.com)

## ❖ Cumberland Amateur Radio Club Nets

CARC Two Meter VHF Digital Net	<p>Every Sunday evening at 6:00 p.m. local time. 146.490 MHz FM Simplex. Most likely we will be using OpMode THOR 22.</p> <p>If you have experience using Sound Card Digital Modes you will feel at home with this digital net. Mostly informal in terms of conversation topics.</p> <p>If you have not yet experienced the pleasure of using Sound Card Digital Modes you are invited to seek assistance. CARC Members have all kinds of skills tucked away in remote corners of their universe. Some of these members maintain a low profile. However, if you ask they will spring forth and share their experiences with you. You could send an eMail message to <a href="mailto:ELMER@RadioClub-CARC.com">ELMER@RadioClub-CARC.com</a> and one of us will crawl out of our den to help you.</p>
CARC Two Meter Phone Net	<p>Every Sunday evening at 7:00 p.m. local time. 2 meter band. 146.490 MHz FM Simplex. Also available through EchoLink Node 259045 or search for station AF3I-L. EchoLink is great for licensed Amateur Radio operators who have no transceiver and/or no antenna. EchoLink is equally great for anyone who resides or travels outside our local area and wishes to stay in touch. Visit <a href="http://www.echolink.org">www.echolink.org</a> as a starting point.</p>
CARC Ten Meter Phone Net	<p>Every Wednesday* at 8 p.m. local time. 10 meter band. 28.400 MHz USB In case of other activity of that frequency tune up or down the band a few kilo-Hertz looking for us. *Except Monthly Meeting Night. on the third Wednesday of the month.</p> <p>Editor's Note: We could use some new faces on this net. Attendance has dwindled to record low numbers. Give it a try. If even one of us can hear you that person can relay your comments.</p>

### Words of Wisdom...

Go the extra mile.  
It is never crowded.

- Q.) Why did the potatoes argue?  
A.) They could not see eye to eye.

### Clubs are the Backbone of Amateur Radio

#### Good Clubs Understand the Importance of Socialization.

Though the technology of radio is the main attraction to our clubs, it's the social aspect that brings people together and forms the basis of the organization. Good clubs never underestimate the importance of socialization. The personalities and uniqueness of individual members make our experiences interesting, Good clubs know that the social aspects of our clubs are even more important than technical pursuits in attracting and holding members.

Thanks to Bob Wilson, W3BIG  
ARRL EPA Section Manager  
Signals Newsletter, March 2024, Page 4

## ❖ Guest Article – Blobs of Theia. TUZO (the African Blob) and JASON (the Pacific Blob)

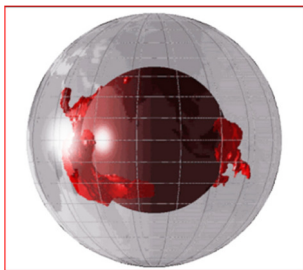
We are thankful to have received a newsletter article from CARC Member Maura (MARS) Smith-Mitsky, KC3JJH. Maura keeps a careful watch on matters that take place far away from Earth. Here is something she found interesting. There is a chance you will also take interest. Enjoy.

It is well established that about 4.5 billion years ago the Earth was struck by a Mars-sized planetoid called Theia. This collision led to the formation of the moon from some ejecta. It's established that some of Theia was incorporated into the moon. But not all of Theia's mass escaped Earth. Some ejecta fell back down to Earth, and some of Theia's mass fused with Earth, as might be expected.

I had assumed that the molten planets were homogeneously mixed in the Earth's mantle and in the core. But in recent times, evidence from planetary acoustic tomography supports that two sizable 'blobs' of Theia exist inside the Earth, just outside of our core's upper boundary. (Apparently Theia had more iron-bearing minerals than Earth, and perhaps this accounts for its acoustic transmission characteristics.)

So, when geologists listen to acoustic signals from deep inside the Earth, they find two sizable anomalous signal areas. These blobs (the common appellation) are called **LLSVPs, LARGE LOW SHEAR VELOCITY PROVINCES**. They make up 6% of Earth's mass, and when projected to Earth's surface, they underlie 24.9% of Earth's surface.

Here is what Wikipedia has to say. "There are two main provinces: the **African LLSVP and the Pacific LLSVP**, both extending laterally for thousands of kilometers and possibly up to 1,000 kilometers vertically from the core–mantle boundary. These have been named **Tuzo** and **Jason** respectively, after Tuzo Wilson and W. Jason Morgan, two geologists acclaimed in the field of plate tectonics.[3]. The Pacific LLSVP is 3,000 kilometers (1,900 miles) across and underlies four hotspots on Earth's crust that suggest multiple mantle plumes underneath.[4]. These zones represent around 8% of the volume of the mantle, or 6% of the entire Earth.[1]"



[https://en.wikipedia.org/wiki/Large\\_low-shear-velocity\\_provinces](https://en.wikipedia.org/wiki/Large_low-shear-velocity_provinces)

Visit the site mentioned above to see the picture rotate.

Some scientists think that these blobs are just masses of subducted oceanic crust. But I get the feeling that the 'Blobs of Theia' explanation is favored. One wonders if Jason and Tuzo affect volcanism.

So, what does this have to do with the radio arts? Nothing that I can think of. I just thought to present some really interesting geology that I've run into. Also, I get a kick out of the geologists nicknaming each blob after an acclaimed geologist. African Blob Tuzo, and the Pacific Blob Jason.