

Happy New Year!

ZERO BEAT



January 2012

Inside this Newsletter: Let's make two resolutions for 2012; Report on the December KARC/BMRC Meeting; From the President's Desk; Club Dues Are Due; KARC/BMRC officers elected; Clubs' Christmas Party fun for all!; News for all amateurs from the FCC and ARRL; Plus, Pictures from 2011, a Calendar of Events with January birthdays, & a Ham Word Search Puzzle!

"America's quiet warriors are the legion of ham radio operators, 700,000 of them, who are always at ready for backup duty in emergencies – amateur, unpaid, uncelebrated, civilian radio operators, during and after floods and fires and tornadoes. After the 9/11 attacks, hams were indispensable in reuniting friends and families. They are involved in homeland security to a greater degree than you would want me to make public." — Paul Harvey News and Comment, ABC Radio, March 19, 2003.

As we begin a new year, let's make two resolutions



As we begin a new year, I want to thank Billy Taylor, president of the Kingsport Amateur and Bays Mountain Radio Clubs, for appointing me as editor of the *Zero Beat* for 2012. I also want to make two pledges to you and ask you to make two pledges. No, this is not a plea for money. It is, however, a request that is as timely as our new year begins when many folks make resolutions.

I'll share the first of my two pledges with you.

In the new year of 2012, I promise to work harder to develop a top-quality newsletter for the Kingsport and Bays Mountain Amateur Radio Clubs (KARC/BMRC). In order to produce a first-rate newsletter, to be sure, I will need your help, and that involves the first pledge I am asking you to make.

Specifically, I want and need your contributions such as articles and pictures concerning amateur radio. Just let me know, and I'll get the permission to reprint. If you take part in another event, for example when a few club members participated in the Susan G. Komen® Walk last October, please let me know. After all, we are a service-minded group as well as a fun-loving and food-loving club dedicated to serving our community. Accordingly, your participation in another service event is newsworthy!

So this is the first of two pledges we both shall make this year: I will do my part to produce an interesting and informative *Zero Beat*, and you will pledge to assist me by submitting articles, pictures, ideas for the newsletter, and your personal news items!

Now, what is our second pledge this year?

That's easy. Let's promise to be faithful in our attendance to all club meetings in 2012. Remember, the Club needs your support and your presence, and the meeting date each month is still the same: KARC/BMRC (second Thursday).

I realize there are circumstances, vacations and illnesses for example, that prohibit our attendance at times; however, we all need to attend the meetings and support the officers, other members, and the work of the Club when possible. Moreover, I believe we can make and keep these two resolutions in 2012. Will you join me?! Thank you, and my best 73s!

KARC/BMRC meeting for January 2012

Circle this date on your calendar—Jan. 12th

By Mike Jackson KI4OJO

The first club meeting for the Kingsport Amateur Radio Club/Bays Mountain Radio Club (KARC/BMRC) is just a few weeks away, and you are encouraged by the president and officers to attend.



In fact, Billy Taylor KI4TNT(Left)—who begins his third year of service as KARC/BMRC president—said he hopes all members who can do so will attend the January 12th meeting at the Toy F. Reid Eastman Employee Center on South Wilcox Drive, Kingsport. The meeting begins at 7 p.m.

Various committee and officer reports will be given to the KARC/BMRC at the January 12th meeting, and plans for 2012 events will be discussed.

From the Presidents Desk: The Club had a Wonderful 2011 Year! These are the Events that we participated in; ARRL Field Day in June, the 58th Mack Riddle/American Legion/Kingsport Chamber of Commerce 4th of July Parade, Kingsport's Fun Fest, the White Lightning Ride, the Bays Mountain Moon Light Hike, the Bays Mountain Halloween Haunt, and the Kingsport Chamber of Commerce Christmas Parade. Members also enjoyed attending several Ham Fests in 2011. And, we can make the Year 2012 even better! Come and join us!

From the KARC Treasurer Robin Oaks: Hey Guys and Gals, it's that time again for our annual dues. They are: \$10 for individual and \$15 for families. Remember, this does not mean you have to be a 'ham' to be a member. Those with family members who don't have a license can still join the club. Please make checks out to KARC. If mailing payment please include a self-addressed stamped envelope so I can send you your membership card and your receipt.

Thanks,
Robin Oaks
220 Blue Haven Dr.
Kingsport, TN 37663

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**Happy Birthday!**

Sonjia Stephens KG4ITR January 8
Jim Bronson K2YSR January 10
Lois Bronson KB1CWD January 11
Jim Flanary K4GV January 17

The KARC/BMRC extends our Sincere Best Wishes for you to have a Happy Birthday and Many More!

Kingsport Amateur Radio Club/Bays Mountain Radio Club Minutes fore the December 8, 2011, Meeting

The Kingsport Amateur Radio Club/Bays Mountain Radio Club met December 8, 2011, at the West Park Professional Building, Kingsport, TN. Sixteen members and a guest were present. President Billy Taylor, KI4TNS, presided and called the meeting to order at 7 p.m. In the absence of the Club Secretary, Mike Jackson, KI4OJO, recorded the minutes of the meeting. The minutes of the November 2011 meeting were accepted as printed in the December *Zero Beat* after a motion was made by Earl Oaks, N4ZFA, and a second by Garrett Stanley, KJ4HKI, was approved with no opposition. Phil Alley, KE4FFO, gave the invocation, and Billy led the club in affirming the Pledge of Allegiance to the American Flag. After self-introductions, Billy welcomed a visitor—Ray Rogers, KF4OYI, from Bristol—who was a guest of John Williams, KJ4ZFK.

OLD BUSINESS:

- 1. Treasurer's Report.** Treasurer Robin Oaks, KJ4NAW, read her report.
Repeater Report. Trustee Garrett Stanley, KJ4HKI, said that Billy and Jenni Taylor, KI4TNT, and Earl went with him to the repeater site to install the packet radio recently, but they encountered "cable issues", so Garrett brought back the unit to work on it.
- 2. Chapter Website.** Chapter Webmaster Earl Oaks reported that he continues to update the website with announcements and has added some links. He also invited everyone to check out the Chapter's website at <http://w4trc.org/> and make suggestions.
- 3. Station Report.** When warmer weather returns in the spring, Billy said the Club will resume special events such as antenna building, fox hunts, and equipment work at the Quonset hut. Several members have asked about resuming these projects on a Monday night. **Earl said** he provided vests that are stored at the Quonset hut to the volunteers who worked the Christmas parade. **Phil said** he plans to make an inventory of equipment at the hut at a later date.
- 4. Zero Beat Report.** Mike KI4OJO reported he will continue to prepare and send out a combined newsletter (*Zero Beat* and *News from the Club Shack*, the newsletter of the Scott County Amateur Radio Society) to 50 members of both the KARC/BMRC and the Scott County Club. He asked for any contributions to the newsletter and thanked Jenni for the excellent pictures she takes and contributes to the newsletter.
- 5. Events and Projects.** Earl and Jenni, KI4TNT, thanked all the volunteers who worked the 2012 Kingsport Chamber of Commerce Christmas Parade on November 19. Karen Jobe of the Chamber, who coordinated the parade, said she appreciated our help. Billy led a discussion by members who worked the parade concerning the problems and solutions that were noted during the event. Issues such as traffic control problems, the need for police involvement and assistance, disregard of the Chamber's prohibition of candy throwing, and problems with entry line-ups will be shared with Karen at a later meeting. **Since the December** meeting is the time of the Club's annual Christmas Party, both the KARC/BMRC and the Scott County Amateur Radio Society have decided to hold a joint Christmas Dinner at Mama's House Buffet, 2608 N. John B. Dennis Highway, Kingsport, on December 15 at 6 p.m. The Club's annual white elephant gift exchange will take place at the

December 8th Minutes Continued

December 15 party. Billy said the dinner serving will be from 6 p.m., until 8:30 that night, but the club will have a room and members can stay as long as they want.

NEW BUSINESS

1. **Nominating Committee/Club Elections.** Nominating Committee Chair Phil Alley and member Betty Jackson, KI4PWN, reported that the Committee of Phil, Lynn Anderson, and Betty have offered the names of the following candidates for an officer's position in 20102: Billy Taylor, President; Lynn Anderson, Vice President; Mike Jackson, Secretary; Robin Oaks, Treasurer; and Garrett Stanley, Repeater Trustee. He added that the names were published in the December *Zero Beat* as required by the Club's Constitution. Billy opened the meeting for nominations from the floor; however, none were submitted. Accordingly, Walt Baldree, K4YCP, and John Williams moved and seconded that the slate of officers submitted by the Nominating Committee be approved by acclamation, and no one present objected. The officers will begin their term of service at the January 12, 2012, meeting. The BMRC officers for 2012 are Rick Light, Vice President, and Phil Alley, Secretary-Treasurer.
2. **West Sullivan County ARES®.** WSCARES® Coordinator Walt Baldree said he is working on future plans and will announce the next event later. In the meantime, Walt wanted to thank Paul Marcum, AC4QZ, for all his work in ARES® that has included reporting the weekly check-in totals to the Tennessee Phone Net.
3. **Program.** Jenni presented a slide show of her excellent pictures taken at the Bays Mountain Halloween Haunt in October and the 2012 Kingsport Christmas Parade.

Having no further business to discuss, Earl Oaks moved the meeting be adjourned, and Jenni Taylor seconded.

Respectfully Submitted, 13 December 2011

Mike Jackson
Acting Secretary

Billy Taylor,
President

**CONGRATULATIONS!**

The Kingsport and Bays Mountain Radio Clubs Extend our
Congratulations and Best Wishes to

Eric Wheeler, KJ4MJJ,

For his Successful Completion of the
LICENSED PORACTICAL NURSING PROGRAM at the Tennessee Technology
Center, Elizabethton, TN, in December 2011

Best Wishes in the Future, Eric!

KARC/BMRC/SCARS CHRISTMAS PARTY!



Around twenty members and their guests attended the KARC/BMRC and Scott County Amateur Radio Clubs' Christmas Party at Mama's House in Kingsport on December 15th!



The food was great, the fellowship fantastic, and Dave Stevens WB2SIN (left) continued his excellent work overseeing the White Elephant Gift Exchange that John Williams KJ4ZFK (right) seemed pleased with his gifts!



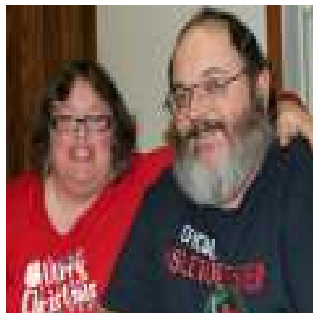
Attending the event were club members and their family including Ronnie (KG4EZJ) and Brenda Jones and their granddaughter (left), and the new president of the Scott County Amateur Radio Society for 2012, Garret Stanley, KJ4HKI, and his wife Summer (right). More photos on the next page.



Many great gifts were brought and exchanged—the highlight of the evening!

In honor of his admiration for and appreciation of automobile TV commercials, Phil Alley KE4FFO (right) received a special award. His wife Belinda admires Phil's "Trophy" that he can proudly display in his ham shack! Did Paul AC4QZ (below) trade his trains for a bucket of mouth-watering pop corn? NEVER!!!

Our waitress Karen (below right) did an outstanding job that night, and Robin KJ4NAW and Earl N4ZFA Oaks (below center) enjoyed the evening!



Photos by Jenni KI4TNT, our Official Club Photographer!



News for all Amateurs from the ARRL, FCC, & Area Hams!

MORRISTOWN—An upcoming SKYWARN™ Spotter Training Class is scheduled February 4, 2012, in Sevierville, TN, at the Sevier County Rescue Squad, 1157 Dolly Parton Parkway. The training begins at 10:00 a.m., and if you need more information, please call or email George Mathews at the National Weather Service Office. His phone number is (423) 586-6429, and his email address is George.Mathews@noaa.gov. He can answer all your questions about the spotter training class. This item was submitted by Erik E. McCord (KJ4ZIT), WX4TN District 7 SKYWARN, and Sullivan County Coordinator. Their web address is <http://www.wx4tn.org>, and other useful information is available at www.EastTennesseeWeather.com and on Facebook at <http://www.facebook.com/EastTennesseeWeather>. The twitter site is @easttnwx.

SAN JOSE, CA—A balloon built and powered by amateur radio balloon enthusiasts made an epic three-day journey from California to the Mediterranean, splashing down after it apparently burst somewhere off the Algerian coast. The transcontinental transatlantic flight covered a record-shattering 6,236 miles. The California Near Space Project launched four balloons Sunday, Dec. 11, from a site near Silicon Valley, two of which were high-altitude explorers and two of which were "floaters," long-distance travelers designed to reach a certain altitude and then float with the prevailing winds. One of the two floaters apparently crashed in southern Indiana, but the second balloon, call sign K6RPT-11, made its way across half the planet. It was last tracked traveling above the Mediterranean, moving 35 MPH at 14,558 feet.

The balloon was a 1,600 gram Hwoyee model carrying a small radio that enabled tracking via the Automatic Position Reporting System. Radio operators in Nova Scotia apparently lost track of the balloon sometime Tuesday, Dec., 13, but it reappeared 11 hours later, moving east toward the Azores. Ron Meadows, 55, and his son, Lee Meadows, 32, both swimming pool service repairmen, have launched several weather balloons in an attempt to break records, as the *San Jose Mercury News* reports. In October, their latex balloon set a new altitude record by soaring 136,545 feet and beating the previous record-holder, a Cornell University project, by 1,500 feet. The long-distance balloon nearly doubles the range of the previous record-holder, a transatlantic floater that flew 3,361 miles. **Contributed by Lynn Anderson, AK4GH, and used with permission.**

NEW YORK—Ham radio is coming to network television: as a part of the plot of the ABC situation comedy "Last Man Standing." On the show, actor and comedian Tim Allen of Home Improvement fame plays the character of Mike Baxter. Baxter is the married father of three and the director of marketing at an outdoor sporting goods store in Colorado. Amateur radio will come into play on the show in mid-January when it's revealed that Mike Baxter is an avid radio amateur with the callsign KA0XTT. But that's not the only ham radio connection to the show.

Last Man Standing is being produced for ABC Television by John Amodeo, NN6JA. And if you pick up the December edition of *CQ Magazine* and turn to page 30, you will find an article by Amodeo. One that tells the story of how he challenged his staff to become licensed radio amateurs, and out of those who accepted seven have gotten licensed so far. The reward for those who succeeded was a dual band hand-held radio.

As of this report Tim Allen is not among those who have accepted John Amodeo's challenge, but he tells CQ that he is working on him.

In addition to the CQ article the ARRL has a very nice piece about Last Man Standing and how it got involved in helping Amodeo to create the KA0XTT call sign. You

HAM News Continued

can read more on the news pages at www.arrl.org. (CQ, ARRL PR Reflector). **From ARRL News and contributed by David Gulley, KI4AAU.**

NEWINGTON, CT—On Tuesday, December 13, 2011, the National Transportation Safety Board (NTSB) recommended that States ban the non-emergency use of all cellular telephones and other "portable electronic devices" (PEDs) by drivers of motor vehicles. This would include hands-free cell phone operation and all text messaging while mobile. While this NTSB recommendation has been the lead story in national media, the "distracted driving" issue has been receiving serious attention for several years. A number of states and municipalities have prohibited texting and handheld cellular telephone use by all or some drivers, though none has gone so far as to outlaw all hands-free cell phone use. To avoid unintended consequences to Amateur Radio operation, the ARRL has been closely involved with this issue for several years. The full text of the NTSB report is not yet available, and it is not yet known whether the broad term "portable electronic devices" might be construed as including all or some Amateur Radio equipment.

On January 30, 2009, the Executive Committee of the ARRL Board of Directors approved and released an ARRL position paper on Mobile Amateur Radio Operation. In that paper, the ARRL encourages licensees to conduct Amateur Radio communications from motor vehicles in a manner that does not detract from the safe and attentive operation of a motor vehicle at all times, but points out that mobile two-way radio equipment has been in use for at least 70 years and is quite dissimilar from full-duplex cell phones.

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Clubs: Amateur Radio's Future

Whether specialized or general interest, large or small, Amateur Radio clubs provide the horsepower to move us forward.

By Harold Kramer, WJ1B

Amateur Radio clubs are the machinery that drives the majority of Amateur Radio activities. In this article, I will discuss club trends and activities and, based on new research, I will review the ARRL benefits clubs use most and what benefits they find the most valuable.

For the last five years, the number of ARRL Affiliated Clubs has remained at about 2200, although there is always an annual "churn" as existing clubs disband and new clubs form. Five years ago, we estimated that there were about 35,000 members in these clubs and we believe that number is still accurate. ARRL Affiliated Amateur Radio clubs, including about 200 Special Service Clubs, are located in 71 ARRL Sections. SSCs provide ongoing training and support to their communities, such as new ham development, public relations, school club support, technical advancement and other special areas.

General Interest and Specialty

Most clubs hold monthly meetings that encourage socializing and exchanging information with other hams; relevant and important functions of any club. In addition, Assistant Manager, ARRL Membership and Volunteer Programs Department Norm Fusaro, W3IZ, told me that many of today's most active and successful clubs focus on specific activities. For example, some clubs are expressly formed to administer Amateur Radio license examinations. These clubs sponsor and administer the majority of regularly scheduled ARRL VE sessions. The majority of Amateur Radio licensing classes are organized and run by clubs.

Future of Radio Clubs Continued

An important, but less apparent function of clubs is organizing and managing hamfests and conventions. Here at HQ, we support about 500 of these events a year. Many take years of planning and employ the services of hundreds of volunteers. Many of the larger events, such as the Washington State Convention, are sponsored by groups of clubs. Along with hamfests and conventions, clubs organize and operate many of the special event stations that we list here in *QST*.

In recent years, we have seen more clubs dedicated to Emergency Communications and Public Service activities. These clubs are engaged in activities such as building sophisticated mobile emergency communications facilities, and conducting events, such as EmComm East, that are devoted solely to Amateur Radio Emergency Communications. They also work with served agencies in their communities and they provide the majority of field-based ARRL EmComm training. They also provide public service communication events such as the Boston Marathon.

Field Day is Amateur Radio's largest emergency preparedness event. According to Field Day Manager Dan Henderson, N1ND, considerably more than half of all Field Day sites are run by clubs.

Affiliation Has Benefits

While we have not seen many new contest clubs, according to ARRL Contest Branch Manager Sean Kutzko, KX9X, we have seen greater geographic consolidation of contest clubs. Sean cites the Alabama Contest Group as an example of this trend. Members of some virtual contest clubs do not need to attend meetings in person. Their business is conducted online with e-mail, websites and forums. DX clubs encourage and mentor new and experienced DXers, and they also organize, fund and operate many DXpeditions to those rare entities that we all like to work.

The ARRL offers a suite of benefits to its affiliated clubs. The ARRL affiliated club benefits are listed at www.arrl.org/affiliated-club-benefits. Never satisfied with the status quo, we believe that we can always do better. To this end, the Programs and Services Committee (PSC) of the ARRL Board is reviewing the Affiliated Club Program to determine which club programs are beneficial; what types of programs and services are of interest to Amateur Radio Clubs and which club programs are most valuable.

About 1000 clubs were surveyed, including all club presidents, club contacts and club newsletter editors. The PSC was encouraged by over 900 responses that they received to this survey. They are evaluating these replies now and we expect to have some recommendations for new affiliated club benefits later this year.

In the meantime, here are some of the preliminary results:

Most used benefits --- ranked highest to lowest usage:

- Referrals of prospective radio amateurs
- ARRL e-mail forwarding service (arrl.net)
- Information/assistance for club licensing (club call signs)
- Club liability insurance program
- Club commission program (for new/renewing ARRL members)

Most valuable benefits --- ranked most value to least value:

- Referrals of prospective radio amateurs
- Listings of newly licensed/upgrading amateurs
- Club liability insurance program
- ARRL e-mail forwarding service
- Equipment insurance program
- Club commission program
- Let's Keep Clubs Growing!

Future of Radio Clubs Continued

We owe our thanks to the thousands of club volunteers who give exams, teach classes, run hamfests, go on DXpeditions, operate in contests, mentor new operators and serve their communities and Amateur Radio in a variety of ways. With the breadth and depth of services that clubs perform for the ARRL and Amateur Radio, we need to keep them growing and successful. The future of Amateur Radio depends on their continuing success.

Harold Kramer, WJ1B, is ARRL Chief Operating Officer. He can be reached at hkramer@arrl.org

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This article provided to the newsletters Zero Beat and News from the Club Shack by Paul Marcum, AC4QZ.

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The Year in Pictures!

A Collection of Photos from 2011 by Club Photographer Jenni Taylor, KI4TNT



We had lots of FUN in 2011! From Eating Meetings at Burger King after Club Meetings adjourned (top left) to other fun Club events as CW classes (top right), the Valentine's Day Banquet (center left), the Morristown Hamfest (center right), and Field Day in June (left), members of the KARC/BMRC and Scott County Amateur Radio Society enjoyed a year of fun, fellowship and food!

2011 in Pictures, Continued



Eddie K4JP and Wilma Palmer (left) and Pete N1PB and Mary Bowman N7LY (right) were among the club members and guests who attended the annual picnic in August at the Eastman Cabins.



In October came the Gray Hamfest and with it the purchases by some local Hams of the cell-phone size Baofeng HT! What a good buy for well under \$100.00! Well, it was Wouxun in 2010 and Baofeng in 2011, so what's in store next year at Gray?!



Parades, Halloween Haunts, Bicycle Races, Field Day, Ham-related Programs, and just plain good fun are a few of our many activities. Renew your membership or come and join us! We meet the second Thursday (KARC/BMRC) and the third Thursday (Scott County Amateur Radio Society). You're welcome to join us!

Kingsport/Bays Mountain Radio Clubs' Officers 2012

Billy Taylor, KI4TNS, KARC President
Lynn Anderson, AK4GH, Vice President
Mike Jackson, KI4OJO, Secretary
Robin Oaks, KJ4NAW, KARC Treasurer
Garrett Stanley, KJ4HKI, KARC/W4TRC Club License Trustee
Rick Light, KG4WZG, BMRC Vice President
Phil Alley, KE4FFO, BMRC Secretary/Treasurer
Earl Oaks, N4ZFA, W4TRC Webmaster/Net Controller
Mike Jackson, Newsletter Editor
Billy Taylor, KI4TNS, Station Committee Chair
Earl Oaks, N4ZFA, Activities Manager
Jenni Taylor, KI4TNT, Club Photographer
Walt Baldree, K4YCP, West Sullivan County ARES® Coordinator
David Gulley, KI4AAU, W. Sullivan County ARES® Asst. Coordinator
Betty Jackson, KI4PWN, W. Sullivan County ARES® Secretary
Allen Lark, N4TBI, District 9 ARES® Coordinator

W4TRC 146.970 MHz REPEATER INFORMATION:

Location is on Bays Mountain, Kingsport, TN

Input Frequency, 146.370 MHz

PL Tone, 123.0 Hz

Repeater License Trustee, Garrett Stanley KJ4HKI

Repeater Committee, Billy Taylor, Garrett Stanley, Phil Alley, Earl Oaks

CLUB WEBSITE: <http://w4trc.org/>



PICTURE OF THE MONTH—Phil KE4FFO (left) looks a little concerned as he opens a gift-of-appreciation at the KARC/BMRC/SCARS Christmas Party on December 15th. My reaction has nothing to do with the appreciation gift: actually, a piece of chicken was lodged underneath my partial!

Photo by Jenni Taylor KI4TNT and caption by Mike Jackson KI4OJO

January 2012

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
JAN. 2012 1 New Year's Day	2 New Year's Holiday	3 Festival of Sleep Day—Stay in bed all day!	4	5 Skywarn™ Net, 146.700, 9 PM	6 Epiphany	7
8 KARC/BMRC Net, 146.970, 8:30 PM Epiphany Sunday Happy Birthday, Sonjia KG4ITR	9	10 Happy Birthday, Jim K2YSR	11 Happy Birthday, Lois KB1CWD	12 KARC/BMRC Meets, 7:00 PM Skywarn™ Net, 146.700, 9 PM	13 Friday the 13th—Blame Someone Else Day	14
15 KARC/BMRC Net, 146.970, 8:30 PM	16 Martin Luther King, Jr., Day	17 Ditch New Year's Resolutions Day Happy Birthday, Jim K4GV	18	19 Skywarn™ Net, 146.700, 9 PM National Popcorn Day	20	21
22 KARC/BMRC Net, 146.970, 8:30 PM	23 National Pie Day	24 Compliment Day—Say Something Nice to Everyone!	25	26 Skywarn™ Net, 146.700, 9 PM Spouses Day	27 Chocolate Cake Day	28 Fun at Work Day
29 KARC/BMRC Net, 146.970, 8:30 PM National Puzzle Day—Work on a Puzzle!	30 Franklin D. Roosevelt's Birthday	31	FEB. 2012 1	2 Skywarn™ Net, 146.700, 9 PM	3	4 SKYWARN™ Spotter Training Class, Sevier County Rescue Squad, 10:00 AM

January 2012

- National Blood Donor Month
- National Hobby Month
- National Oatmeal Month
- National Soup Month

Don't Forget the Next KARC/BMRC Meeting
KARC/BMRC, January 12

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P W D K H A M F E S T H M Z O F C
F I N E B U S I N E S S A M U I A
R M O G E I K L A T I D N A H E P
Z E Z P S N V G B U Q M Y X L L A
F M P N M P O H W F K C H Y G D C
W I A E K X I I T Y N T C L Y D I
J C N L A Y E O T E D N K R P A T
M R T T R T I L U A E Q Q Y U Y O
O O E B U K E Q P U G B H R Y U R
D P N N H O E R Q M B A E E X C P
U H N D C R I E V E I S P Q E Q N
L O A E F Z R I D T I S E O O V Y
A N B A S F T N Y S T E V F R O U
T E Z G H J E L T Z Z Q F J E P Z
I R L G T A K O O P F C K Y K P Y
O W I V U R R A Y V D C Q T L H N
N H Q S I L E N T K E Y E E K F F
E L M E R X O U D S A R L Q Z X F
    
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DIRECTIONS: Find and circle the 16 Ham-related words below in the puzzle above. You will find the words spelled vertically, horizontally, and diagonally. An example is the word SILENT KEY highlighted in red horizontally on the next to the last line.

- | | |
|----------------|-------------|
| ANTENNA | MICROPHONE |
| CAPACITOR | MODULATION |
| FIELD DAY | PROPAGATION |
| FINE BUSINESS | REPEATER |
| FREQUENCY | RESISTOR |
| HAMFEST | SILENT KEY |
| HANDI TALKIE | SIMPLEX |
| HIGH FREQUENCY | ELMER |

If you have any questions, comments, or suggestions concerning the *Zero Beat*, please contact Mike Jackson at ki4ojo1@gmail.com