

FIELD DAY PREPARATIONS UNDERWAY

Field Day will take place from Saturday, June 28th 2 PM through Sunday, June 29th, 5 PM. This year, **STARS** will conduct its Field Day operations at the Nike Base Clubhouse, 2982 Lakeview Road, Hamburg. The Clubhouse is a small building underneath a tall antenna tower, just to the west of the Hamburg Town Arena. This will be the first year that the powerful multi-element beam antenna atop the tower will be available for contest operation. All club members are invited to come on down and participate with the setup and operation of the station for some period of time.

For the information of people new to amateur radio, Field Day is the most popular event of the calendar year. During the day, stations are encouraged to contact as many other stations as possible. New amateurs are encouraged to "come on down" and take in the experience!

The event was established to demonstrate the availability and ability of amateur radio to conduct communications during emergency conditions. Alternate power sources, such as generators, batteries and solar cells, are encouraged, to show that amateurs can operate under "black-out" conditions of the power grid. Traditionally, many amateurs also set up their stations in remote locations. Associated with this, they may establish temporary antenna systems by shooting wires into tree tops, through the use of home-made devices. Also encouraged, are operations using several different modes.

Field Day is also intended to be a showcase for amateur radio and its capabilities. Traditionally, the press and elected officials are invited to visit operating stations.

While not considered a contest (no certificates are issued), each station scores points, based on the amount of contacts, type of transmissions, visitations by elected officials, power sources, and other factors. Bragging rights for high scores are cherished!

More information about Field Day can be found at the American Radio Relay League's (ARRL) site at: www.arrl.org/field-day.



CLUB OFFICERS

President	Ken Pokigo, KC2AYK
Vice President	John Leitten, KA2RFT
Secretary	Mettieirene Wagner, KD2DFQ
Financial Sec'y	Judy Levan, N2TEZ
Treasurer	John Czuba, W2IV
Director (1 yr.)	Conrad Barrick, KC2WRV
Director (2 yr.)	Jon Hall, KC2QKB

Clubhouse Chair	Pat Groom, KC2VWG
Telstar Editor	Tom Dean, KA2NXY
Webmaster	(vacant — can you help??)

BLUE AND UNDERLINED

When you see something in TELSTAR in blue letters and underlined, that means it is an Internet link. Hold the "Control" key and click on the link to open.

Try it! → [sample link](#) (control + click)

MONTHLY MEETING TOPICS

Field Day planning will be the focus of the June meeting. This year, STARS will hold their on-the air activities at the Nike Base Clubhouse Station, just west of the Hamburg Town Arena, 2982 Lakeview Road, in Hamburg.

Don Niles, K2PMC; and Scott Barto, KB2KOL will lead a program on the history of Field Day participation by the STARS radio club, as well as plans for this year's Field Day activities.

All are welcome, and questions concerning Field Day operations are encouraged.

WE GOOFED

Scott Barto, KB2KOL; Linda Jablonski, KC2YMM; and John Leitten, KA2RFT all reported errors with the "Silent Key" item in the May Telstar.

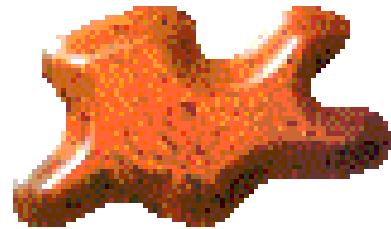
Here is the correct information:

The silent key is Albert "Bert" Kavanaugh, WA2CTC, of West Seneca, a former member of STARS.

The amateur reporting the information is Brad Feltz, N2DNR, of Holland.

If you see something that is not correct, let us know at:

wb2elw@verizon.net



STARS MEETINGS

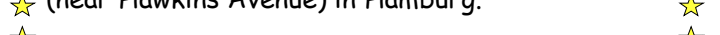


STARS meetings are usually at 7:00 PM on the

first Thursday of each month, at the Hamburg

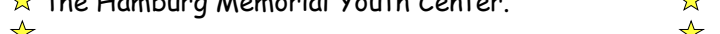
Memorial Youth Center, 200 Prospect Avenue

(near Hawkins Avenue) in Hamburg.



The June meeting will be June 5th, at 7:00 PM, at

the Hamburg Memorial Youth Center.



All are welcome,



The STARS board usually meets at 7:00 PM on

the fourth Thursday of each month at the Nike

Base Radio Clubhouse, just west of the Hamburg

Town Arena, 2982 Lakeview Road, Hamburg.

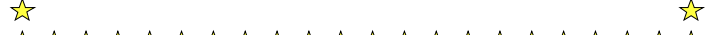
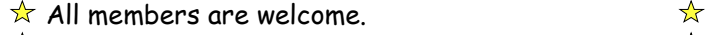


The June board meeting will take place on June

26th, at the Nike Base Radio Clubhouse.



All members are welcome.





STARS members visit the Bird Technologies display at the Dayton Hamvention

From left to right: Ed Jablonski, KC2YMN; Linda Jablonski, KC2YMM; Don Niles, K2PMC; John Czuba, W2IV; and Ken Pokigo, KC2AYK.

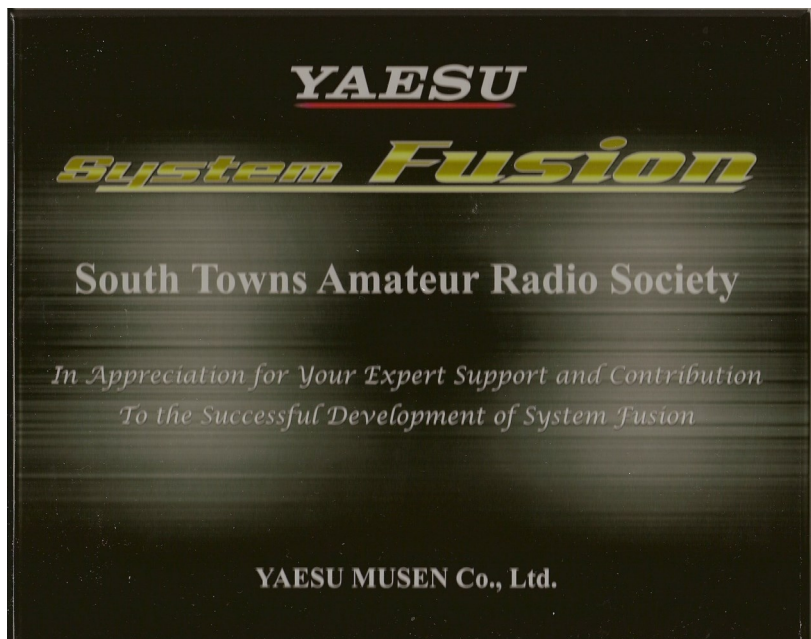
PHOTO BY LINDA JABLONSKI, KC2YMM



YAESU System Fusion display at the Dayton Hamvention visited by STARS members.

From left to right: Ed Jablonski, KC2YMN; Linda Jablonski, KC2YMM; Ken Pokigo, KC2AYK; Wayne Carpus, W2ZDP; Don Niles, K2PMC; and John Czuba, W2IV.

PHOTO BY LINDA JABLONSKI, KC2YMM



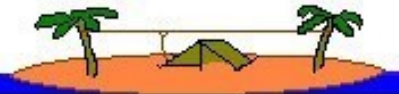
Plaque Received by STARS from Yaesu for Assistance in the Development of System Fusion Digital/Analog Radio System

PHOTO BY JOHN LEITEN, KA2RFT

UP with antennas



by Don - K2PMC



In this month's column we will see why it is not always necessary to have the lowest SWR possible for your wire antenna to work efficiently.

Referring back to Figures 2 and 3 from the May *Telstar* you can see that the Coax dipole exhibits the classic low SWR dip at its resonant frequency while the Open Wire dipole maintains a high SWR across the band. Bad, you say. Well, I don't agree. Here's where all the complex formulas considering line loss and power loss in decibels (db) come in to play. Instead of all the formulas, I will present to you Figure 1 below which is a summation of those calculations.

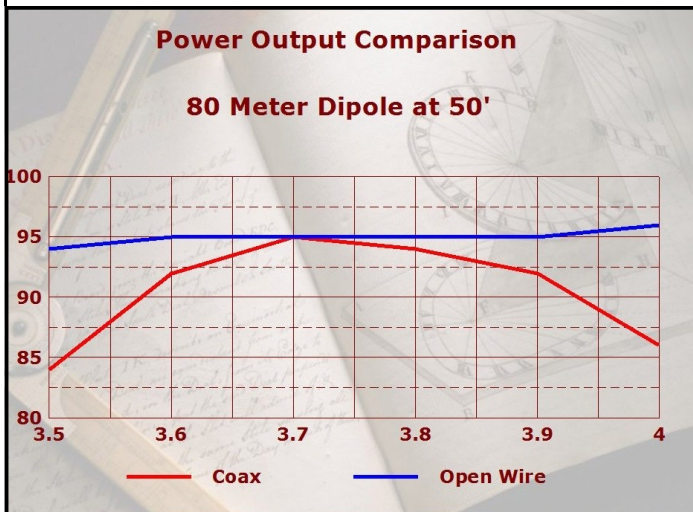


Figure 1

If one of you wants to dig a little deeper and see how I arrived at Figure 1, feel free to email me. Looking at Figure 1 we can see that the efficiency of the Coax dipole varies dramatically as you move from its resonant frequency. Also, you will note that at no time does it exceed that of the Open Wire dipole. Now, you can insert a remote tuner into your feed system which will tend to bend the Coax efficiency curve up-

ward on 80 meters. But it is still not going to exceed the Open Wire dipole.

Let's say you had a really good antenna tuner and you found that you could load this 80 meter coax dipole on 40 meters with almost no SWR indication. Low SWR means your radio will be happy, and everything is OK, Right?

Let's see what would happen in that scenario:

- On 40 meters, the impedance and reactance of this 80 meter dipole is out of sight which would translate to an SWR of 101 to 1;
- Your power loss would be 6.746 db;
- With 100 watts of power 21 watts would reach your antenna while 79 watts would be consumed in your antenna tuner and feed line in the form of heat;
- If you increased power to 500 watts you would have *major* problems.

Now let's see what would happen with 600 ohm open wire line.....

The impedance and reactance would still be out of sight which means:

- On 40 meters the SWR at the antenna would be 8.64 to 1;
- However, power loss would only be a total of 0.414 db;
- 91 out of 100 watts would reach your antenna;
- This system would handle high power with no problems and you have an antenna that works great on multiple bands.

With everything I've just said you may think that open

(Continued on page 5)

(Continued from page 4)



wire line is a panacea. Well, it's not. There are situations where coax is the preferred feed line. Verticals and beams are the most obvious. Verticals are generally fed at or near the ground. The design of coax is such that it can lay on the ground without any consideration while open wire is affected by ground proximity. Beam antennas are another area where coax is the preferred choice. Masts and elements can couple to open wire and reduce antenna efficiency. Verticals and beams exhibit a low impedance at their feed point which suits coax just fine. A rule of thumb might be.....

For single, or arrays of wires suspended in the air, open wire is a good choice. For beams and verticals, stick with coax. Now that you have a good understanding of impedance, reactance and feed lines I'll start to focus on antennas that you might want to try at your QTH. See you next month.

73's

Don

Don, K2PMC

(Editor's note: If you have questions or comments regarding anything from "Up with Antennas", feel free to email Don Niles at: k2pmc@arrl.net.)

HELP NEEDED JUNE 4TH

Club members are requested for a work party on Wednesday, June 4th, beginning at 10 AM, at the Nike Base Clubhouse station, 2982 Lakeview Road, Hamburg, NY. .

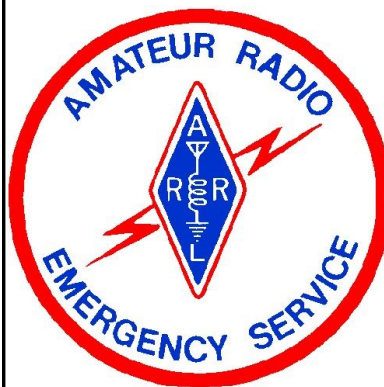
Anticipated projects include the antenna and its cables. The Hamburg Fire Department tower ladder truck is expected for assistance.

Contact John Leitten for more information at: johnham334@aol.com .

YOUR HELP IS NEEDED

One of the characteristics of amateur radio is the expectation that amateurs will contribute to a community's public safety.

Two groups which exist for this purpose are ARES (Amateur Radio Emergency Service) and RACES (Radio Amateur Communications Emergency Service). In Erie County, the groups coexist as the Erie County ARES RACES (ECAR) team.



They meet once a month, on the second Monday, at 7:30 PM, at the Erie County Fire Training Academy, 3359 Broadway (just east of Union Road), Cheektowaga. Amateurs are welcomed!

While they can be called out for major emergencies, where communication is needed, their biggest activity is providing communications for planned community events, such as walkathons and bicycle events.

This season, two such events are rapidly approaching, and in need of more amateur operators.

The first is Tour de Cure, scheduled for June 7th. The other is the Ride for Roswell, set for June 28th.



If you can help out on either of these events, come to the ECAR meeting on Monday, May 5th, 7:30 PM, at the Erie County Fire Training Academy. Or, for more information, contact Gene Kremzier, N2OBW, at:

N2OBW@arrl.net

HAMFESTS

06/01/2014 [Breeze Shooters Hamfest and Computer Show](#)

Location: Butler Farm Showgrounds
627 Evans City Road
Butler, PA 16001

Sponsor: Breeze Shooters ARC

Website: <http://www.breezeshooters.net>

06/07/2014 [Fulton Co. ARC Hamfest](#)

Location: Roth Family Park
101 Hill Avenue
Tedrow, OH

Sponsor: Fulton County Amateur Radio Club

Website: <http://k8bxq.org>

06/08/2014 [MBCRC HAMFEST 2014](#)

Location: Downstate Correctional QWL
121 Red Schoolhouse Road
Fishkill, NY 12524

Sponsor: Mt. Beacon ARC

Website: <http://www.wr2abb.org>

06/14/2014 [Bloomsburg Hamfest](#)

Location: Lime Ridge Community Center
6405 4th Street
Lime Ridge, PA

Sponsor: Columbia-Montour ARC

Website: <http://www.gsl.net/cm-arc/>

06/14/2014 [Skyline ARC Hamfest & Technology Fair](#)

Location: Cortland County Fairgrounds
4849 Fairgrounds Drive
Cortland, NY 13045

Sponsor: Skyline Amateur Radio Club

Website: <http://www.skylineradioclub.org>

06/14/2014 [Chaffee Country Hamboree](#)

Location: Manion Park
9990 Grove Street
Chaffee, NY 14030

Sponsor: Pioneer Radio Operators Society (PROS)

<http://facebook.com/pioneerradiooperatorsociety.pros>

06/14/2014 [Western Pennsylvania ARES Emcomm Conference](#)

Location: University of Pittsburgh Johnstown
450 Schoolhouse Road
Johnstown, PA 15901

Sponsor: ARRL WPA Section & University of Pittsburgh Johnstown

Website: <http://www.wpaares.org>

(control + click on name for full information)

COST OF FREEDOM TRIBUTE IN PEMBROKE

The national touring "Cost of Freedom Tribute" will come to Western New York from June 11th through June 15th. The display will be at the Pembroke Town Park, just off Route 77 by the Pembroke High School. The site is easily accessible by using NYS Thruway Exit 48A, then traveling south on Route 77 for about one mile.

The Lancaster Amateur Radio Club (LARC) will operate a special events station associated with the tribute.

More info: http://thepamshack.net/?page_id=12

AMERICAN VETERANS TRAVELING TRIBUTE COST OF FREEDOM TRIBUTE COMING TO **PEMBROKE, NY**

Honor
Respect
Remember



June 11-15 2014

Wednesday June 11th

Honor Escort

Staging at Batavia Home Depot Parking Lot - 8AM

Staging/10AM KSU

Thursday June 12th

Opening Day

Opening Ceremony at Noon

Friday June 13th

Law Enforcement Day

Ceremony at 1PM

Saturday June 14th

Fire Fighters Day

Ceremony at 1PM

Sunday June 15th

Closing Ceremony & Dedication of
Memorial Stone

Ceremony/Dedication at 1PM



Sponsored By: Oakfield - Alabama American Legion Post 626
Email oaopost626wall@gmail.com with any event questions!

TESTING NEEDS

- Legal photo ID (a driver's license is excellent!)
- Current license and/or CSCE documents, if any, and a non-returnable photocopy of each
- Federal Registration Number (FRN); if none, then Social Security Number (SSN)
- \$15 in cash, check or money order
- Two #2 pencils with erasers, and a pen

[\(more info\)](#)

NEW TECH EXAMS

On June 30, 2014, the current technician examinations will be outdated, as a revised question pool will be placed into service.

The new pool may feature questions that have not been part of most study guides. See the following:

<http://ncvec.org/page.php?id=362>

VE SESSION RESULTS

STARS conducted an examination session on May 17, 2014. Three candidates appeared. All passed, resulting in two new technicians and one upgrade to extra.

Kevin Hughes	KC2OLD	Extra
Matthew Kubiak	KD2GOE	Technician
Justin Ward	KD2GOC	Technician

Volunteer Examiners included **Anthony Balas, KB2OUT; Conrad Barrick, KC2WRY; Tomm Dean, KA2NXY; Shane Brady, WB2WPM; Gregory Hoerner, AC2MO; Earl Kipler Sr., KD2FZV; and Mark Wolf, W2MAW.** John Leitten, KA2RFT served as "on call" back-up.

EXAM SITES

06/11/2014 [Niagara Falls](#)

Sponsor: Niagara Radio Club, Inc.
 Location: Venture Forthe, Inc.
 3900 Packard Road
 Time: 6:30 PM (Walk-ins allowed)

06/14/2014 [North Tonawanda](#)

Sponsor: ARA of the Tonawandas
 Location: North Tonawanda Fire Headquarters
 495 Zimmerman Street - Basement
 Time: 9:30 AM (Walk-ins allowed)

06/17/2014 [Meadville PA](#)

Sponsor: Crawford ARS
 Location: St Brigid Church Social Hall
 383 Arch Street
 Time: 6:30 PM (No walk-ins)

06/21/2014 [Erie PA](#)

Sponsor: Wattsburg Wireless Association
 Location: Greene Twnshp Mun Bldg Rm 114
 9333 Tate Road
 (use district justice entrance)
 Time: 9:00 AM (Walk-ins allowed)

06/24/2014 [Lancaster](#)

Sponsor: Lancaster ARC
 Location: Lancaster ARC- Club House Building
 525 Pavement Road
 Time: 7:00 PM (Walk-ins allowed)

06/29/2014 [Perry](#)

Sponsor: Genesee Valley ARA
 Location: Perry Village Park
 Lake Street at Chestnut Street
 Time: 12:00 to 5:00 PM (Walk-ins allowed)

[\(control-click on City for more info\)](#)

CONTEST CALENDAR



Start and Finish	Contest Title	Sponsor's Website
June 2, 1630Z - see website	OK1WC Memorial Contest	www.memorial-ok1wc.cz
June 3, 0200Z - June 3, 0400Z	ARS Spartan Sprint	www.arsgrp.blogspot.com
June 5, 1700Z - June 5, 2100Z	NRAU 10m Activity Contest	www.nrau.net/activity-contests/below-30mhz.html
June 6, 0230Z - June 6, 0300Z	NS Weekly Sprint	www.ncccsprint.com
June 7, 0000Z - June 8, 2400Z	Ten-Ten Open Season	www.ten-ten.org
June 7, 0400Z - June 8, see website	Digifest	www.mixw.net/misc/DigiFest/index.html
June 7, 0600Z - June 7, 0800Z	Wake-Up! QRP Sprint	grp.ru/contest/wakeup/333-wakeup-eng
June 7, 0600Z - June 8, 0600Z	VK Shires Contest	vkshires.vk2bo.com/vk-shires-contest-rules.html
June 7, 1100Z - June 7, 1500Z	LZ Open 20 Meter Contest	www.lzopen.com
June 7, 1200Z - June 8, 1200Z	SEANET Contest	orari.or.id/seanet2014
June 7, 1300Z - June 8, 1300Z	UKSMG Sporadic E Contest	http://www.uksmg.org/contest/
June 7, 1500Z - June 8, 1459Z	IARU Region I Field Day	www.iaru.org/
June 7, 1600Z - June 8, 0400Z	Alabama QSO Party	www.alabamagsoparty.org
June 11, 0030Z - June 11, 0230Z	NAQCC Monthly QRP Sprint	naqcc.info/sprint201406.html
June 14, 0000Z - see website	DRCG Long Distance Contest	http://www.drcg.de/index.php/en/
June 14, 0600Z - June 15, 0600Z	Australian Shires Contest	vkshires.vk2bo.com/worked-all-vk-shires-contest.html
June 14, 1100Z - June 14, 1300Z	Asia-Pacific Sprint	jsfc.org/apsprint/aprule.txt
June 14, 1200Z - June 15, 1200Z	Portugal Day	portugaldaycontest.rep.pt/rules.html
June 14, 1500Z - June 15, 1500Z	GACW WWSA CW DX Contest	www.wwsatest.org
June 14, 1500Z - see website	QRP ARCI QRP Shootout	www.qrparci.org/contests
June 14, 1600Z - June 15, 1600Z	REF DDFM Six Meter Contest	concours.ref-union.org
June 14, 1600Z - June 15, 0200Z	West Virginia QSO Party	www.gsl.net/wvsarc/wvqp/wvqp.html
June 14, 1800Z - June 16, 0300Z	ARRL June, VHF Contest	www.arrl.org/june-vhf
June 18, 1300Z - see website	CWops Monthly Mini-CWT Tests	www.cwops.org/cwt.html
June 19, 0030Z - June 19, 0230Z	NAQCC Milliwatt Sprint	naqcc.info/sprint201406mw.html
June 21, 0000Z - June 22, 2400Z	All-Asian DX Contest	www.jarl.org/English/0-2.htm
June 21, 0000Z - June 22, 2359Z	SMIRK QSO Party	www.smirk.org/contest.html
June 21, 1200Z - June 22, 2359Z	Straight Key Weekend Sprintathon	www.skccgroup.com
June 21, 1400Z - June 22, 1400Z	IARU 50 MHz Contest	www.iaru-r1.org
June 21, 1400Z - June 21, 1800Z	AGCW VHF/UHF Contest	www.agcw.org/
June 21, 1500Z - June 22, 1500Z	Stew Perry Warmup Contest	www.kkn.net/stew
June 21, 1800Z - June 21, 2359Z	Kids Day	www.arrl.org/kids-day
June 21, 2000Z - June 21, 2200Z	Feld-Hell Field Day Sprint	www.feldhellclub.org
June 22, 0900Z - June 22, 1500Z	WAB 50 MHz Phone	wab.internip.net
June 23, 0100Z - June 23, 0300Z	Run For the Bacon	www.fpgrp.org
June 26, 0000Z - June 30, 0000Z	SARL Top Band QSO Party	www.sarl.org.za
June 28, 1200Z - June 28, 1200Z	His Majesty King of Spain	www.ure.es
June 28, 1200Z - June 29, 1200Z	Ukrainian DX DIGI Contest	www.izmail-dx.com/
June 28, 1400Z - June 30, 1400Z	Marconi Memorial HF Contest	www.arifano.it/contest_marconi.htm
June 28, 1800Z - June 29, 2100Z	ARRL Field Day	www.arrl.org/field-day



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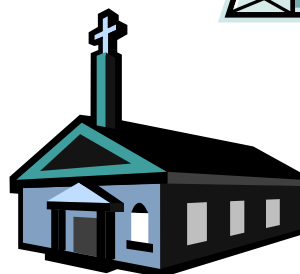
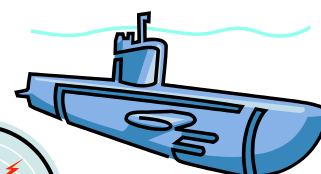


For more information on contests: <http://www.arrl.org/contest-calendar>

SPECIAL EVENT STATIONS

Full information at: <http://www.arrl.org/special-event-stations>

06/01/2014 Relay For Life Miller County Missouri
 06/01/2014 Breeze Shooters 62nd Anniversary
 06/01/2014 Packard Air to Ground Day
 06/03/2014 Inter-Tribal Emergency Management Coalition Summit 2014 (ITEMC)
 06/06/2014 70th Anniversary of D-Day
 06/06/2014 American Cancer Society, West Shelby Relay For Life
 06/06/2014 D-Day Commemoration
 06/07/2014 Badin Bomber Crash 70th Anniversary
 06/07/2014 Narragansett Bay Islands
 06/07/2014 South Oakland County Model Railroad Club 60th Anniversary
 06/07/2014 Streetsville Bread and Honey Festival
 06/07/2014 Walthall County Dairy Festival
 06/07/2014 WW II Submarine USS Cobia AGSS-245
 06/07/2014 USS Nautilus SSN 571 First Nuclear Submarine
 06/07/2014 Museum Ships Weekend Event 2014
 06/07/2014 South Oakland County Model Railroad Club 60th Anniversary
 06/11/2014 Cost of Freedom Tribute - Pembroke NY
 06/14/2014 Museum on the Air
 06/14/2014 Relay for Life
 06/15/2014 FIFA World Cup 2014 Hamradio and Sports Uniting Countries
 06/21/2014 350th Anniversary of State of New Jersey
 06/21/2014 B-17 Fly-In at Centennial Airport
 06/21/2014 L.E.E.K. Annual Spring Open House
 06/21/2014 The Hudson Lights 2014
 06/22/2014 Museums on the Air
 06/28/2014 Field Day
 06/28/2014 First Christian Church, Flora, IN, 100th Birthday
 06/28/2014 JTRG Field Day
 06/28/2014 Pine Mountain ARC Formation / Field Day
 06/28/2014 World War I Centennial Special Event
 06/30/2014 151st Anniversary of "The Battle of Hanover and Gettysburg"
 06/30/2014 Granite Mountain Hotshots Memorial



USEFUL INTERNET LINKS

(control + click to use link)

ARRL MAIN SITE:

<http://www.arrl.org/home>

ARRL ATLANTIC DIV.:

<http://www.atldiv.org>

CONTESTS:

<http://www.arrl.org/contest-calendar>

<http://www.hornucopia.com/contestcal/perpetualcal.php>

HAMFESTS:

<http://www.arrl.org/hamfests-and-conventions-calendar>

STARS REFLECTOR:

<http://groups.yahoo.com/group/STARS-WB2ELW/>

TELSTAR EDITOR:

wb2elw@verizon.net