



FOUNDED 1947

WEST PARK RADIOPS



LOG



Web: <http://www.westparkradiops.org>

Email: w8vm-<at>-arrl.net

CLUB'S W8VM SKCC #12111

Our Nets 147.36 (107.2 PL) Mon/Fri 8 p.m.

August - September 2021
VOL. LVI No. 5

2021 CLUB OFFICERS

President Tom Wilkinson (216) 409-1886	N8FDY
Vice President Stephen Kinford (216) 702-8384	N8WB
Secretary Glenn Williams (440) 934-5566	AF8C
Treasurer Ann Wadsworth	KA8ZEP
Fifth Board Member Elaine Wilkinson (216) 337-4235	KC8FOS

COMMITTEES

FIELD EVENTS COMMITTEE - OPEN

Safety Officer
OPEN

License Trustee
N8WB

ARRL VE'S
AF8C, N8CX, N8WB, W8MET

ARTICLES SUBMITTED
N8FDY

ANTENNA GURU
W8PN

CLUB AWARDS MGR
OPEN

CONTESTS, SATELLITES
N8WS and N8WB

DX REPORTER
N8WS

8TH AREA BUREAU LETTER MGR.
AF8C (8V)

PROGRAMS
KC8FOS

EDITOR, WEBMASTER
AF8C

LABELS DATABASE
N8CX

WEST PARK EVENTS *

*Subject to change

During the Covid crisis we have held extra Friday night 8 p.m. 2m nets. We thank the Northern Ohio DX Association for the use of their repeater, 147.36+ (107.2)

These substitutes for actual on site first and third Friday meeting nights TRI_C are:

Aug. 6, 13, 27	- 2M NET*
Aug 20	- MEETING ON ZOOM 7:30 p.m.*
Sep. 3,10,24	- 2M NET*
Sep. 17	- MEETING ON ZOOM 7:30 p.m.*

But when TRI-C opens up we plan to get back to on-site meetings.

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CONTESTS AND EVENTS

- de WA7BNM & ARRL

Aug 7	N. American QSO Party
Aug 14	KY State Parks on Air
Aug 22	ARRL Rookie Rndup RTTY
Aug 28	OHIO QSO Party
Sep 4	Portble Operations Test
Sep 11	ARRL September VHF Test
Sep 18	State QSO Contests
Sep 25	CQ WW DX RTTY
Sep 26	Cleveland Hamfest

SOAPBOX

West Park Radiops technical interests include recent new amateur radio technologies, new antenna projects, contesting, and DX, to name a few.

Our Public Service events are suspended.

Our Monday and Friday night nets are on the NODXA's 147.36+ (107.2 PL) repeater at 8 p.m. Listen or check in. Join the fun.

This document was created using LibreOffice, a PDF creator, and UBUNTU LINUX. Use of Microsoft products was limited to as few applications as possible.

CONTESTS HAVE CONSEQUENCES...



WEST PARK PUBLIC SERVICE...

For many years West Park Radiops volunteers have helped LCAC volunteers sort and deliver articles to the needy. As an ARRL Special Service Club in past years, our members assisted in this activity three times every year. During COVID-19 those activities have been suspended.

RECENT NETS & TALK...

Club nets have switched over to only using 147.36+ (107.2 PL) at **8 p.m.** local on Mondays, and Fridays during the COVID-19 crisis. Many interesting discussions occur and often with no prior planning. However, you must have a clear shot at the repeater's receiving antenna to use an HT. Please consider your 2m antenna systems and how they perform for the net.

In general, radio net activity provides virtual public service practice and keeps our radios in tested operation and weeds out problems.

TO YOUR HEALTH!...

We wish everyone a STAY SAFE and BEST OF LUCK time during the special COVID-19 precautions. Take advantage of the vaccination needles.

ARRL'S FREE RF EXPOSURE CALCULATOR FOR FCC...

(from the ARRL News page)

08/05/2021

The FCC has adopted guidelines and procedures for evaluating environmental effects of RF emissions. Under the new FCC rules, some amateurs need to perform routine station evaluations to ensure that their stations comply with the RF exposure rules. This can be as simple as running an online calculator to determine the minimum safe distance between any part of your antenna and areas where people might be exposed to RF energy from your station. Although amateurs can make measurements of their stations, evaluations can also be done by calculation.

The FCC guidelines already incorporate two tiers of exposure limits based on whether exposure occurs in an occupational or controlled situation, or whether the general population is exposed or exposure is in an uncontrolled situation.

To make this easy for amateurs, ARRL now provides an RF exposure calculator on its RF Exposure page. To use the calculator, enter your transmit peak-envelope power (PEP) and operating mode, and answer the questions about the maximum amount of time you might be transmitting. The calculator will give you the minimum distance people must be from your antenna and human exposure.

You can print the results and keep them in your station records. **There is no requirement to send your results to the FCC.**

<http://arrl.org/rf-exposure-calculator>

WANT A ONE BY ONE CALL?...

If you want a 1x1 call sign for some kind of special operating activity, for example to use W8A in ARRL Field Day in 2022, you need to contact this Web site:

< <http://www.1x1callsigns.org/index.php/fcc> >

and sign up for your call sign of choice well ahead of time. You only get to use the call sign for a short period of time, not permanently.

Perhaps you have heard or worked a 1x1 call sign. I know I have. What is not obvious is the following FCC rule:

Section 97.119 (d) reads as follows:

(d) When transmitting in conjunction with an event of special significance, a station may substitute for its assigned call sign a special event call sign as shown for that station for that period of time on the common data base coordinated, maintained and disseminated by the special event call sign data base coordinators. Additionally, the station must transmit its assigned call sign at least once per hour during such transmissions.

That means you really really must register for the 1x1 sign.

Second, you still have to use your own permanent call sign at least once per hour for proper identification. Well, when I contact a 1x1 call sign running a special event operation, one thing I don't do is stay listening on the frequency to make sure the operator uses his/her permanent call sign once an hour. I checked with contesteer Jim, K8MR, and his answer confirmed the above regulation.

40 METER JAMMER?...

(from the ARRL NEWS)

07/22/2021

FCC Investigating Alleged “Jamming” on 40 Meters

Reports suggest that jamming stations have been deployed on the lower portion of 40 meters. The jamming appears to be coming from Cuba. The signals, spaced at regular intervals, exhibit a squishy, popping noise. The apparent jamming showed up after anti-government protesters took to the streets in Cuba, followed by a government crackdown. So far, there's no proven connection between the jamming and the protests, as evidence has been circumstantial. DX spots suggest that Cuban hams are on the air on SSB but do appear rare on 40 meters. A lot of Cuban spots point to FT8 activity. The jamming issue has drawn the attention of the FCC, which is looking into the matter, according to one tech publication.

SLOW CODE ON CABLE...

(from Wikipedia)

<

https://en.wikipedia.org/wiki/Transatlantic_telegraph_cable >

Communication speeds on the first transatlantic cable, before the American Civil War as it happens, were very slow. Initially messages were sent by an operator sending Morse code. The reception was very bad on the 1858 cable, and it took two minutes to transmit just one character (a single letter or a single number), a rate of about 0.1 words per minute. The problem of slow speed had to do with an imbalance between capacitive and inductive reactance, which causes a severe dispersion and hence a signal distortion; see telegrapher's equations. This had to be solved by iron tape or by load coils. In later years Oliver Heaviside and Mihajlo Idvorski Pupin developed “telegrapher's equations” to explain it all.

UPCOMING DX FOR YOU...

(Courtesy of the NG3K website)

Call, Start Date,, End Date, DXCC Entity
 YN2RP,2021 Jul14,2021 Aug15,Nicaragua
 ZC4CBK,2021 Jul17,2021 Aug31,Cyprus SBA
 J88PI,2021 Jul24,2021 Aug01,St Vincent
 CT8,2021 Jul25,2021 Sep04,Azores
 OX3LX,2021 Jul28,2021 Aug13,Greenland
 FS,2021 Jul29,2021 Aug06,St Martin
 OA7,2021 Jul30,2021 Sep17,Peru
 OY,2021 Jul31,2021 Aug08,Faroe Is
 HI9,2021 Aug01,2021 Aug30,Dominican Republic
 FO,2021 Aug02,2021 Aug23,French Polynesia
 JW,2021 Aug05,2021 Aug08,Svalbard
 CN2BBV,2021 Aug05,2021 Aug30,Morocco
 TK,2021 Aug06,2021 Sep14,Corsica
 E51AAO,2021 Aug09,2021 Aug19, South Cook Is
 VP9EE,2021 Aug11,2021 Aug16,Bermuda
 CT8,2021 Aug14,2021 Aug29,Azores
 JD1,2021 Aug21,2021 Aug25,Ogasawara
 OJ0WS,2021 Aug21,2021 Aug28,Market Reef
 J68HZ,2021 Aug21,2021 Sep30,St Lucia
 OJ0D,2021 Aug25,2021 Aug28,Market Reef
 SV5,2021 Sep05,2021 Sep19,Dodecanese
 Z68XX,2021 Sep10,2021 Sep13,Kosovo
 9X2AW,2021 Sep13,2021 Sep28,Rwanda
 OY,2021 Sep17,2021 Sep20,Faroe Is
 5H1IP,2021 Sep20,2021 Sep30,Tanzania
 FP,2021 Sep21,2021 Oct05,St Pierre & Miquelon
 8Q7CQ,2021 Sep29,2021 Oct13,Maldives
 VK9HR,2021 Oct01,2021 Oct30,Mellish Reef
 S9OK,2021 Oct02,2021 Oct16,Sao Tome & Principe
 V47JA,2021 Oct04,2021 Oct18,St Kitts & Nevis
 J5T,2021 Oct07,2021 Oct19,Guinea Bissau
 PZ5ZS,2021 Oct12,2021 Oct20,Surinam
 JW6VDA,2021 Oct12,2021 Nov01,Svalbard
 PZ5G,2021 Oct15,2021 Oct18,Surinam
 FS,2021 Oct18,2021 Oct23,Sint Maarten
 PJ5,2021 Oct24,2021 Nov01,St Eustatius
 3DA0RU,2021 Oct21,2021 Nov08,eSwatini
 9X4X,2021 Nov24,2021 Dec01,Rwanda
 TO9W,2021 Dec01,2021 Dec10,St Martin
 S21DX,2021 Dec16,2021 Dec22,Bangladesh
 3Y0I,2021 Dec25,2022 Jan25,Bouvet Is
 HD8M,2022 Mar02,2022 Mar11,Galapagos

*Copy this as a CSV file for EXCEL.***WINDOWS 11 IMPLICATIONS...**

Many people who have signed up with Microsoft for the Windows Insider Program have already acquired an early version of Microsoft's Windows 11. Because some of these folks are radio amateurs, Windows 11 is now being tested with WSJTX digital modes (or is it the other way around?). Basic requirements on Windows 11 are from several sources including:

<https://www.zdnet.com/article/windows-11-faq-heres-everything-you-need-to-know/>

If your device does not meet these requirements, you may not be able to install Windows 11 on your device and might want to consider purchasing a new PC. If you are unsure whether your PC meets these requirements, you can check with your PC Original Equipment Manufacturer (OEM) or, if your device is already running Windows 10, you can use the "PC Health Check app" to assess compatibility.

Processor: 1 gigahertz (GHz) or faster with 2 or more cores on a compatible 64-bit processor or System on a Chip (SoC). **NO 32-bit processor!**

RAM: 4 gigabyte (GB)

Storage: 64 GB or larger storage device

System firmware: UEFI, Secure Boot capable
Security: TPM: Trusted Platform Module V 2.0

Graphics card: Compatible with DirectX 12 or later with WDDM 2.0 driver

Display: High definition (720p) display that is greater than 9" diagonally, 8 bits per color channel

Internet connection and Microsoft accounts: Windows 11 Home edition requires internet connectivity and a Microsoft account to complete device setup on first use. Also see:

<https://www.zdnet.com/article/windows-11-has-advanced-hardware-security-heres-how-to-get-it-in-windows-10-today/>

LOOP ON GROUND ANTENNAS ...

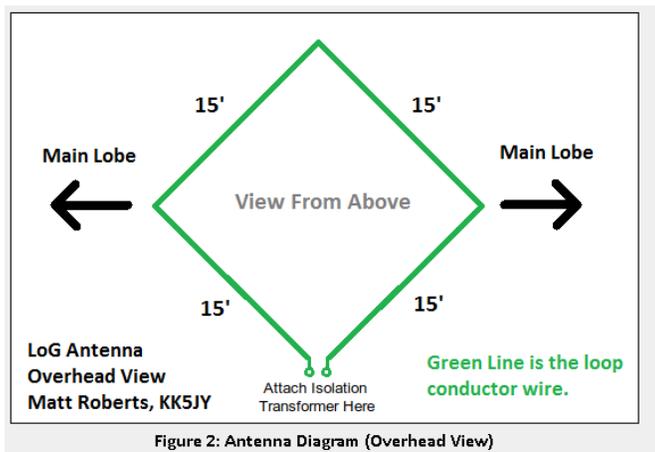
There are quite a few greatly detailed and technically proficient articles available on the Internet describing construction and testing of Loop On Ground antennas for HF receive operation. The first thought you might have about this is that construction of such an antenna in your yard is that hey, there's nothing to put up in the air with this kind of antenna. So it should be really easy to build and maintain. The parts cost would be low because most of the antenna is still just some wire and connectors. The figure is borrowed from the first of the articles below. Excellent performance is claimed for reception on 160m and 80m,

<http://www.kk5jy.net/LoG/>

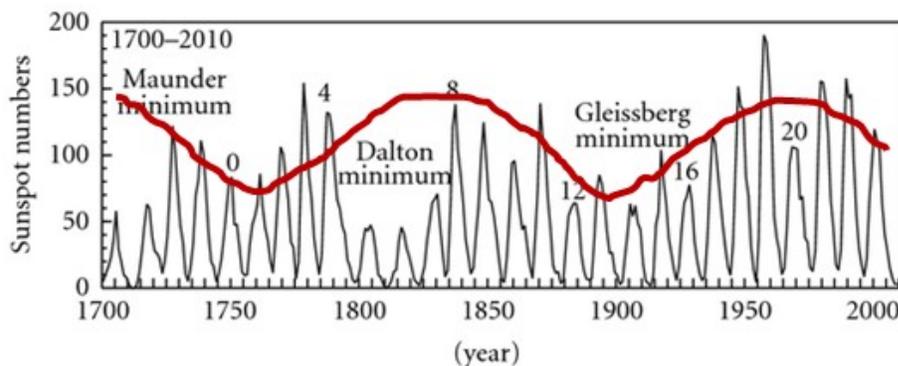
<https://www.g8jnj.net/loop-on-the-ground>

https://k9la.us/May16_Notes_on_Low-Noise_Receive_Antennas.pdf

<https://on6wg.pagesperso-orange.fr/Loop%20Antennas%20and%20Calculator.htm>



SOLAR CYCLE 25 WILL NOT BE HUGE...



This is just my opinion (de AF8C), but when I look at the last 400 years of solar cycles, <https://www.hindawi.com/journals/aa/2012/126516/> and I do a kind of “curve fit” with a sketched sine wave (red), there is a reasonably close fit.. Sunspot numbers could peak at less than 100.

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A NON-PROFIT SCIENTIFIC AND EDUCATIONAL CORPORATION, FAIRVIEW PARK, OHIO.
MEETINGS: WEST PARK RADIOPS ARC meets the FIRST and THIRD Friday evenings each month at
Cuyahoga Community College West Campus in the Public Safety Training Center, 11000 Pleasant Valley Dr. at 7:30 PM sharp.
Dues \$15/yr. We welcome anyone interested in amateur radio to our meetings.
We operate Monday night nets on 147.36+ (107.2 Hz) MHz at 8:00 p.m. local time.

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