



# THE COMMUNICATOR



Mailing Address: P. O. Box 976, Nokomis, FL 34274

W4AC Repeaters: 444.100 MHz (DMR) & 146.805 MHz (-) (PL100Analog)

Incorporated 1984

<http://www.tamiamiarc.org>

March, 2023

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## President's message .... KN4BAR

HamCation in Orlando was GREAT. A relaxing bus ride on Saturday to and from the event for 35 of us (TU Frank, W2XYZ). Overcast day with light breeze, no rain, and no beating sun! Plenty of ham gear to salivate over; new and used. We are very lucky to have this great event in our backyard.

Big doings in March. Shark's Tooth 5 and 10k runs on the 3rd and 4th. Contact Steve, NS4P, if you want to help with the course monitoring for these races. And then there is our first annual TARC BBQ&Q on the 25th at Oscar Sherer State Park in Nokomis. TU Tom, W4IEE; Chip, WO0S; and Dwight, KT4DDS for planning and organizing this for the club. We have 44 reservations so far and still counting! We will activate the park for POTA during the picnic; guest operators welcomed and encouraged!

Also in March will be the first ever amateur radio information booth and special event station at the Sarasota County Fair, March 17-26! TARC club members will man the booth exclusively on March 20th and 22<sup>nd</sup>, and will help with the staffing on other days. The booth is being coordinated by Steve, W4SNW, from the Sarasota club and is intended to promote the hobby and recruit new hams into area clubs and ARES. Volunteers are always welcome. Let me know if you are interested.

April will also be a busy month for the club. We have the Florida State Parks on the Air club station on Sunday, April 2nd. The Shark's Tooth Festival is back on April 22 and 23 after a 3 year Covid hiatus. We have the K4S special event station call sign reserved for the event; but will operate from member's home stations during the event. Details are still being worked out. The board of directors felt that the new venue and new organizers needed to be vetted before we committed to a booth and onsite station operation.

The grand-daddy of all April events is the Florida QSO Party, April 29-30. This is always a fun 24-hour event. In 2019 TARC won an award for Top Florida Multi-Single Station! Details for this operating event will be published in time for the April club meeting, but I think it will center around operating from Al's, K0AL, cottage in Nokomis as in past years. Everyone, get radio-active! Do what you can, when you can to participate in these many upcoming club activities.



**73, Paul, KN4BAR**

***Next Month***  
**Shark's Tooth**  
**10/5 K report**  
**An April**  
**Special**

**Next meeting 7:00 PM, Wednesday, March 08, 2023 at Venice Presbyterian Church Fellowship Hall, 825 The Rialto, Venice, 34285**

## TAMIAMI AMATEUR RADIO CLUB *Minutes of the 2/08/23 Meeting*

**NOTE: Elmer assistance hour from 6-7 pm for information and mentoring of interested ham radio operators. So we can be better prepared, tell us what you need help with:**

**askelmer@tamiamiarc.org**

Meeting was called to order at 7 PM

Opened with Pledge of Allegiance

### Introductions: Visitors

Janet Iwanski KO4MZO, Englewood; Tom Francis NV4H; Keith Fuller WD8KFN, North Port; Charles Abbott K2IWQ, New York, Den Spiess W2DEN, & Antionette Spiess N2RDX (XYL), Sarasota

### New members -

Keith Wolfe N3YUA, Nokomis; Roger McEntarfer N9QCL, Venice

### Remaining Introductions - Done.

**SECRETARY'S REPORT:** Paul, KB4BAR – Request for motion to accept the minutes for January 11, 2023 as published in The Communicator.

Motion was made by Nancy Heinrich N4ZM, to approve the January minutes and seconded by Steve Froggatt, KN4NFX. The motion was passed with unanimous voice vote.

### CORRESPONDENCE:

Gary Youngberg, W8SKI  
Mentioned email reminder from State of Florida, Division of Corporations (Sunbiz) for annual filing

**TREASURER'S REPORT:** Frank Wroblewski, W2XYZ - Frank gave highlights of the treasurer's report period ending on 1/31/2023, Beginning Balance was \$18,187.77; Income was \$1,156.60 and Expenses were \$302.23. The ending balance was \$20,033.14.

The motion to accept the Treasurer's Report was made by Steve Froggatt, KN4NFX, seconded by John Zenner N3PQD. Passed with unanimous voice vote.

### COMMITTEE REPORTS

**SUNSHINE;** Jim Shortill, KJ4NDO (Absent) by Paul, KN4BAR.

Fred, K9WRH, recently improved and is present this evening. Mentioned Jesse, KW4IT, inquiring as to his condition.

**VE TESTING;** Steve Phillips, NS4P

Out of town at HamCation, no report at this time

**LIAISON TO QCWA;** Al Culbert, K0AL (By Nancy N4ZM). 20 members attended Sarasota's QCWA meeting at Denny's at Bee Ridge, Sarasota.

QCWA meets on the first Monday of the month at 11am, except June through September. Frank Wroblewski, W2XYZ was presented with a certificate commemorating his 55 years as a licensed amateur radio operator (See Announcements section).

### REPEATER / TECH;

Frank Wroblewski, W2XYZ  
Repeaters are working well, 2 M repeaters are active and have good activity. DMR net is on Tues. at 7pm, 2M analog repeater net is Thurs. at 7:30 pm with 10M net following that on 28.460 Mhz USB.

Please see New Business; Item # 2 for additional DMR repeater update info.

### REMOTE STATION UPDATE;

Tom Shrilla, W8QJF (Absent) by Paul Nienaber, KN4BAR  
Gave information that remote station, is available to General class licensees or higher, with membership usage criteria and rules posted on TARC's website, or through Tom, W8QJF. The remote station operates using a password. Its multi-band, OCF dipole antenna is an inverted-V at 150' agl, 100W XMIT.

### PIO INFORMATION AND REPORT;

Dwight Sullivan, KT4DDS  
Mentioned joining Venice Main Street, upcoming motion is in this agenda. Gave information on changes on TARC's Facebook page, and asking for comments and feedback on further improvements on the page. Considering utilizing the City of Venice's monthly newsletter, the contact is Lorraine Anderson, the City's PIO

### MEMBERSHIP;

Paul Nienaber, KN4BAR.  
Memberships at this time stands at Regular Members 143, Associate Members 4, First Year Free Members, 8, and Life Members 11.

Total of Roster, 166 members. 33 members have not paid their annual dues which are overdue on 2/28/2023

### ANNOUNCEMENTS

**BBQ & Q Picnic** March 25 at Oscar Scherer State Park, Tom Porada, W4IEE

This is a new event for TARC. So far, 28 have signed up. Those attending are asked to bring a dish to pass. The park entrance fee will be paid for by the club. Sign-ups for the BBQ are not later than March 12. POTA station will be activated for this event

**TARC is planning to acquire a BuddiHEX Antenna,** Paul Nienaber KN4BAR, and related support tripod as well as a DuneStar 10 M Band Pass Filter.

## TARC Minutes, continued

These items were prior approved for purchase within the budget (\$1,200.00)

**Use of Groups IO**, Paul Nienaber KN4BAR,

Avoid replying to the entire group when using Groups IO, please make the reply to your sender only.

**Presentation by Nancy Heinrich, N4ZM**

Frank Wroblewski, W2XYZ was presented with a certificate commemorating his 55 years as a licensed ham radio operator.

### OLD BUSINESS:

- 1. Bus to Hamcation, Feb. 11, \$50.00 per person;** Frank, W2XYZ

Chartered bus is set to leave the USCG at 6:30 am, and stopping at Sarasota Red Cross about 7:15 am. 34 have signed up with a total of 55 seats available.

- 2. Shark's Tooth 5K, 10K Run, Resuming March 5;** Steve NS4P / Paul KN4BAR,

Steve will provide information on those volunteers monitoring the runs.

- 3. Fox Hunt at North Jetty, February 18;** Paul, KN4BAR

Fox hunt set to start at 1pm. There will be two hidden foxes, VHF frequencies to be used. See Elmer section on the club's website for information about fox hunting, or Google "Amateur Radio Direction Finding".

- 4. Special Events Station, Discussion;** Steve, NS4P (absent)/ Paul KN4BAR,

TARC will not have a special event station booth located at the Shark's Tooth Festival venue at Centennial Park, April 22-23, 2023. The board of directors decided that the smaller venue from previous years and the downtown location would make for difficult operating conditions (noise (verbal and RFI) and antenna placement). Instead, station K4S can be operated from individual club member's home QTH. Steve, NS4P will develop a sked of bands and modes for operators to use. QSL cards for this event will include a shark's tooth. More information to follow in March.

### NEW BUSINESS:

- 1. Discuss invitation to TARC to join Sarasota County Fair Ham Radio Demo Stn.**

March 17-26, 2023; Paul, KN4BAR.

This event is located at Robart's Sports Arena with an indoor 10 X 10' space.

TARC will be furnishing about 9 volunteers to man the exhibit for Monday, March 20, and Wednesday, March 22nd. Steve White, W4SNW from the Sarasota club is the organizer of the event.

- 2. TARC has been invited to join the SW Fla. DMR Cluster;** Frank, W2XYZ

The DMR repeater is now linked to the SW Florida (Fort Myers) Cluster, via Talk Group # 2 / timeslot 2 / Brandmeister.

Discussions took place which included last year's Winter Field Day, and an improved antenna, namely a 40M / 80M fan dipole antenna. Xmit power limited to 100W per rules. Further discussion occurred about a DuneStar bandpass filter. Resulting was a motion for TARC to purchase the above by Steve Froggatt, KN4NFX, and a second by Tom Zirolli, N2UD. The motion was passed by majority voice vote.

- 3. TARC Considering joining Venice Main Street, a community organization;** KT4DDS

Dwight gave a summary of Venice Main Street's mission in promoting social and economic activities in the Venice community, and advantages of its potential benefit to TARC. The annual membership fee of \$125.00 was reasonable to the membership.

A motion was made by Gary Youngberg, W8SKI for TARC to join Venice Main Street as a member for one year, the cost being \$125.00 for the year's membership.

The motion was seconded by Jim Cook, W3APC and was passed by majority vote of the membership.

**Other new business:** A brief mention was made of a State House Bill addressing HOA matters.

**Comments:** None further.

**ADJOURNMENT:** Time of motion 8:10 PM

Motion to adjourn made by Steve Froggatt, KN4NFX, seconded by Nancy Heinrich N4ZM. The motion was passed by unanimous voice vote.

**Attendance:** Number of members 38, number of guests 5.

**Next Meeting Date:** Wednesday, March 8, 2023 at VPC @ 7 pm

**Evening Program presented was by Den, W2DEN, "Knots for Hams"**

Respectfully submitted, Gary Youngberg, W8SKI,  
Recording Secretary



## CHASING DX *CQ DX CQ DX....*

March 2023

DX Editor: Tony DiCenzo, KX1G  
KX1G@ARRL.NET

### Announced DXPEDITIONS scheduled in March

DATES	ENTITY	CALLSIGN	QSL INFO	Comment
3/20-3/29	Sable Island	CY0J	LoTW; Clublog OQRS; WA4DAN direct	Will include a rare 2M EME operation!

Source: [Announced DX Operations](https://www.ng3k.com/misc/adxo.html) <https://www.ng3k.com/misc/adxo.html>

### Bouvet (3Y0J) was TOUGH!

If you followed the reports coming out of the Bouvet 3Y0J DXpedition (#2 on the Most Wanted List) you now understand how difficult some of the most exotic DX locations can be to place on the air. Some are calling it the most extremely difficult and most expensive DXpedition ever. Case in point, the beach landings of the crew were accomplished by holding onto a line attached to a buoy and floating 15 meters to the beach in survival suits. They had to float in equipment as well, then carry it 800 feet up to the camp. This resulted in revising the stations to use fewer radios, only wire antennas, and run 100 watts. Not optimal for their location. They had several storms with high winds. Even worse, those who tried to work them experienced intentional interference on the bands. At the time this was written in mid-February not all antennas are up and hours are limited. FT8 had just started. I hope you had success working them, especially if it was a ATNO (all-time new one). The number of QSOs is expected to be well below the goal of 200,000.

### Solar conditions continue to fluctuate.

On January 7<sup>th</sup>, we woke up to the Solar Flux Index jumping from 112 to 234 and a corresponding rise in Sunspots up to 177. It may surprise newcomers, but experienced DXers did not rush to their radios. That increase was accompanied by blackouts. It did not take long for the SFI to fall back into the low 100s. We are very early in the new 11 year cycle and we can expect solar conditions to vary wildly for a while. Things will gradually become more consistent. See previous newsletters for suggestions on checking solar conditions.

### Contests in March

DXers take note! The ARRL DX CONTEST SSB is March 4-5. See the ARRL contest page for rules on this and several other contests. Good luck!

### Question of the month for March 2023

First, the results for the February question. The question was:

***How many deleted countries are there on the ARRL list of Deleted Countries, how many of them do you have confirmed, and***

### ***which DXCC award do deleted countries NOT count towards?***

The ink on the newsletter was barely dry when I received the first response, this from Steve Hawley, K4EU: "There are 62 entities on the ARRL deleted countries list. Deleted entities do not count towards Honor roll, #1 Honor Roll, 5-band DXCC or the DXCC Challenge." His answer was right on the button!

As Steve and AI confirmed, there are 62 deleted entities. Deleted Entities do NOT count for Honor Roll, Top of the Honor Roll, 5-Band DXCC, or DXCC Challenge. (See <https://www.arrl.org/country-lists-prefixes>) Only Current Entities count for these awards. There are currently 340 Current Entities. Honor Roll requires proof of working @ minimum of 331, Top of the Honor Roll all 340

Strangely enough, deleted countries DO count for the basic DXCC award. It is interesting that the rules do not specifically mention that. The rules says only that contacts have to be no earlier than November 1945. It is rule 1.a in the DXCC rules. That won't benefit newcomers. But old timers might want to dig into the boxes of QSLs in the attic. Deleted countries do come into play when QST annually prints Honor Roll recipients showing their current and total count.

### Question of the Month for March 2023

*Two DXpeditions created quite a stir the past month, TN8K Congo and 3Y0B Bouvet. TN8K made a whopping 164,900 QSOs. Bouvet has had a tough time of it and a slow start, but as this is written it is still in progress. Major DXpeditions like these depend on donations. DX Clubs are one major source of those funds.*

***The question is, name three or more DX CLUBS. You must include a club in Florida. Extra credit if you are a member of one of the clubs. Clubs can be Associations or Foundations. Take your time answering. This may be difficult to get right.***

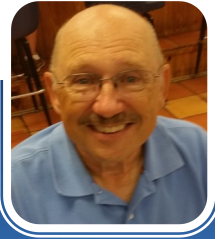
*I will double the bragging rights and list your name/call in this column if you worked both the recent TN8K and 3Y0B DXpeditions. Let me know.*

As always, this month's question will be posted on TARC's Groups.io page. Please submit your answer there. 73! KX1G



# Winter Field Day Report

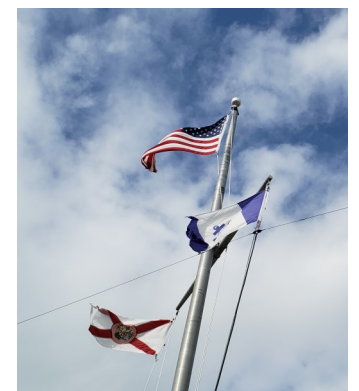
by Frank, W2XYZ



There used to be a commercial that said, “How do you spell success?” I would spell it T-A-R-C. The reason for this confidence is knowing how well the club did on Winter Field Day (WFD). The points earned are important, but there is much more to the story, so let me begin. Winter Field Day is a relatively new event created by several hams in the frozen north, whereas, the Field Day held in June is an ARRL function. The two are similar, but there are some major differences. Most obviously, it is held on the last full weekend in January as opposed to FD taking place on the last full weekend in June. ARRL Field Day focuses on public relations where we try to demonstrate to the public our preparedness to handle communication emergencies.

Winter Field Day doesn't emphasize public relations, and doesn't award bonus points for bringing in elected officials, publishing articles in the newspaper, having youth operate the radio, etc. as FD would do. WFD is focused on what you might do in a real emergency (use whatever is possible), but you can gain bonus points for operating off the power grid and using temporary antennas. The popular mode of FT8 is used at FD but not at WFD. Quoting the reasoning behind it, “You can't send a message saying the Titanic is sinking with FT8.” Instead, WFD allows any of the other digital communication modes such as RTTY, PSK-31, Olivia, and others. Voice (SSB or FM) is also allowed as well as CW. Satellite communication is encouraged with a bonus for making a contact via satellite. To sum it up, it's about communicating the way one would in a true emergency. So, how did TARC meet this challenge?

The Board of Directors made some plans as to where and what we would do on WFD, but the real credit goes to the members. After a hearty breakfast at Perkins on the Friday before WFD, a group of members (15-20) went to the Coast Guard Aux Station to begin preparation. The plan was to erect the antennas on Friday and set up the equipment on Saturday morning. Several members assembled and raised the two element yagi we often use. Steve, NS4P erected his 'eggbeater' antennas for satellites and a 6 meter squarelo antenna. A couple of guys put up the 40m inverted-vee dipole on the flagpole. Tom, K7ONE launched his 'rocketship' to put



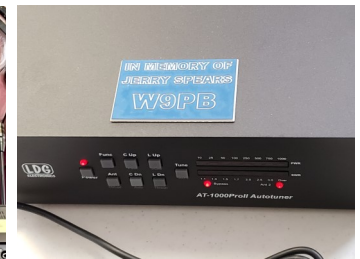
Con't >>

## Winter Field Day, continued

a line over the CG Fan Dipole. To that line an end-fed antenna for 80m-10m was connected. Chip, WO0S brought his Buddipole Hexbeam antenna, and with the help of several members assembled and erected the antenna. The antennas were all tested and a problem was discovered with the 80m-10m end-fed antenna. It was decided to correct that problem Saturday morning.

On Saturday morning many members showed up to help install the equipment, connect computers, ground the equipment, bring coax cables into the building, position generators and power cables, and complete other odds and ends, including correction of the end-fed antenna problem. Finally, around noon, all that was left to do was test everything and be ready to operate at 2 pm. The station passed with flying colors and we were as ready as we could be. The stations were manned with two hour shifts for the 24 hours of operations, and to the credit of TARC members, we had enough personnel to function around the clock. According to the "Sign-In Sheet," 31 people attended. In actuality, it was a few more than that, as some forgot to sign in. Things went rather smoothly, but we did encounter some software issues that complicated the CW and phone stations. Resilient as TARC is...we were able to work through those issues. We did learn a few things that will help on FD or the next WFD.

Now that sunspots have returned and propagation on the higher bands is possible again, we found we need to purchase a 10m band-pass filter. A second directional antenna for 20-15-10 is also needed and a second antenna for the low bands, 40-80-160 is needed as well. By the time WFD ended on Sunday at 2 pm, we earned 9064 points. That's about two and a half times as many points as we earned last year. 500 points came from erecting temporary antennas, 500 points for using generator power, and 500 points for making a satellite QSO. The remaining points came from the 604 phone contacts, 237 CW contacts, and 25 PSK-31 contacts operators made. At 2 pm on Sunday, we went QRT. Many TARC members were present to take down antennas, store equipment, and clean-up the CG Station room we used. Yes, we earned many more points this year than in the past, but our real success story is how smoothly members worked together to make the weekend one to remember. That is why I spell success as T-A-R-C. Great job everyone! **Frank Wroblewski, W2XYZ** 📡





# The Bulletin Board

## Sarasota County Fair – Ham Radio Booth

The Sarasota Emergency Radio Club (SERC) has arranged to host a 10×10 foot vendor booth at the fair this year. The fair is open Friday, March 17th through Sunday, March 26th. Weekday hours are approximately 5 pm to 10 pm and weekend hours are 12 noon to 11 pm with slight variations on some days.

SERC wants this to be a non-club specific activity that is intended to promote amateur radio to the public, and they are asking other clubs in the area to provide staffing support to man the booth, greet the public, and promote ham radio. They intend to have an HF special event station, a V/UHF station on a local repeater, and a Win-Link station for sending emails by RF operating from the booth for demonstration.

TARC has volunteered to staff the booth on Monday, March 20th and Wednesday, March 22nd from 4 to 10 pm each day. Thanks to the following TARC volunteers for this effort: Gerard, KQ4DVD; Shaun, KO4YAX; Nancy, N4ZN; Jim, NJ4NDO; Brian, W1JBD; San, K3SY; Steve, NS4P; Paul, KN4BAR; Eric, KO4ZMT. More volunteers are needed; if interested contact Paul, KN4BAR by email to paul9aber@gmail.com. Visit the fair this year if you can and stop by the first ever ham radio demonstration booth to say Hi and show your support.



**TARC FIRST ANNUAL**  
BarBeQue & QsOs

**BBQ**

**W4AC POTA Activation**

**\$10 PER PLATE**

**March 25, 2023 - 12:00 noon**  
Oscar Sherer State Park  
1843 S Tamiami Trail, Osprey, FL 34229  
FOR MORE INFO [www.tamiamiARC.org](http://www.tamiamiARC.org)

Nancy, N4ZM, finally caught up with Frank, W2XYZ, at the February meeting where she awarded him his QCWA 55 year service award.



### TARC meeting program schedule

- March 8 ~ DX, DX Clusters ~ Tony DiCenzo, KX1G
- April 12 ~ Homebrew Solar Generator ~ Steve Phillips, NS4P,
- May 10 ~ Real-time Flight Tracking ~ Tom Watters, KE4RXM
- June 14 ~ Winlink & VARA emails ~ Paul Nienaber, KN4BAR

Den, W2DEN has the TARC members all tied up in knots at our February meeting. His program "Knots for Hams" will come in handy at all those field day and POTA outings.

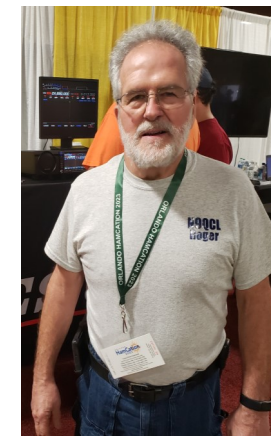


## WELCOME NEW MEMBERS

Date Joined	Memb. Type	First Name	Last Name	Call Sign
February 6, 2023	Member	Keith	Fuller	WD8KFN
February 8, 2023	Member	Janet	Iwanski	KO4MZO
February 3, 2023	Member	Roger	McEntarfer	N9QCL
February 7, 2023	Member	Lauren	Rudd	KD8PZ
February 5, 2023	Member	Wayne	Stanley	AA1SC
February 8, 2023	Member	W. Keith	Wolfe	N3YUA

# Seen at

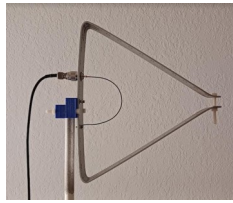
# HamCation





# Antenna Test

## Measuring Antenna Patterns of a 2 M Antenna



Tom, K7ONE, displayed a 2-meter triangular antenna during our Wednesday morning Zoom in January. He built it from an article by W4RQ in the January/February 2023 QEX titled "Horizontally Polarized Two-Meter Triangle Loop Antenna." The antenna's plane was used horizontally in the article but Tom flipped the antenna so its plane was vertical and used it successfully to get into our repeater. (See THE COMMUNICATOR 2/23 for pictures and descriptions.)

### But is the antenna pattern now vertical, and is it directional?

After talking with Tom and Peter we convened in my South Venice backyard to test the antenna. We used Tom's NanoVNA for measurements. This handheld device is able to generate a test signal and measure a received signal's phase and amplitude (Vector Network Analyzer). We drove the triangle antenna with port 1 of the VNA and set up a measurement antenna supplied by Peter 10 feet away. The measurement antenna was connected to port 2.

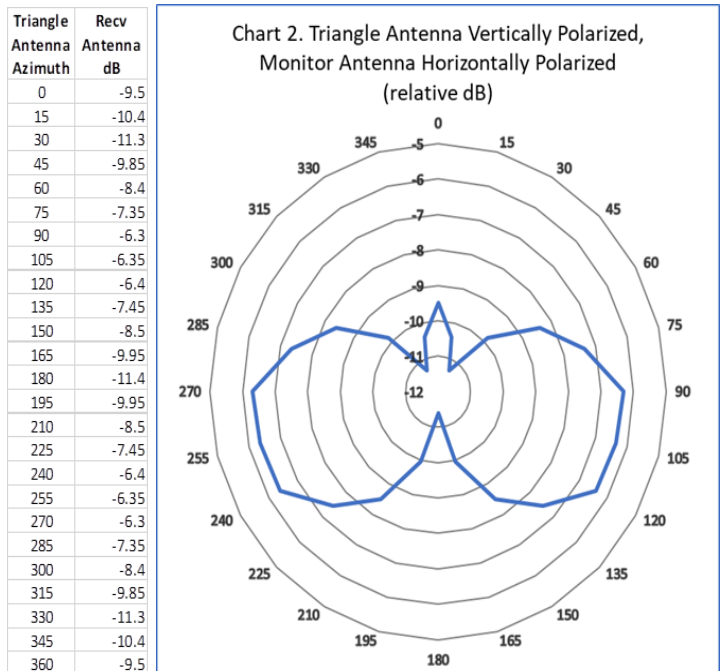
With both antennas oriented vertically we rotated the triangle antenna in 30° steps and recorded the received amplitude at each step. Data at 15° steps are averaged between the 30° step readings. Our results are shown in Chart 1.

..... with Tom Babcock, K7ONE, Peter Boers, KV4LR, and Doug Griffin, WA1KRX

Our results show the antenna is vertically polarized and is roughly symmetric front to back with the field strength dropping about 3dB on the sides.

We also measured the horizontal field component of the antenna with it still in the vertical orientation. For this we rotated the receive antenna horizontally and again rotated the triangle antenna in 30° steps.

We only measured from 0° to 180° so the data plotted for 180° to 360° is the mirror image. The results shown in Chart 2.

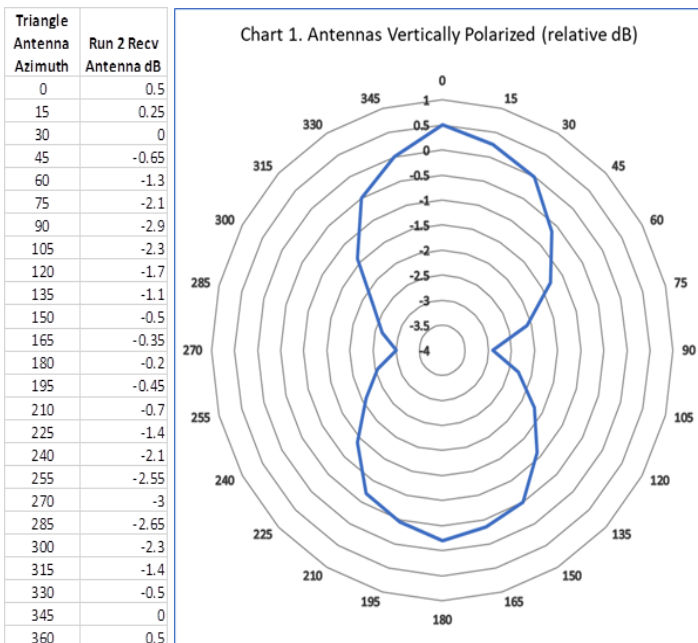


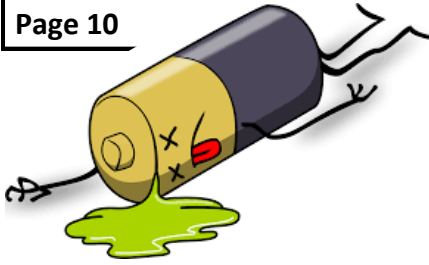
The dB scale shown on Chart 2 is relative to the signal levels shown in Chart 1. This indicates the horizontal field component of the antenna used this way is 6 to 12 dB lower than the vertical field strength.

This triangle antenna was designed to be a horizontal antenna as published. Tom needed a vertically polarized antenna to hit our repeater so he flipped the antenna's orientation vertical. This simple to build antenna worked for him. Perhaps it will work for you.

We enjoyed our ham-tech outing making these measurements!

**73, Doug, WA1KRX**





# Bulging Battery Redux

by Tom, K7ONE and Steve, AA4TI

## Tom's story

After seeing San's battery story in the February Communicator, I thought I'd share my own story to emphasize how important it is to routinely inspect your lithium batteries.

In 2019 I flew up to NASA Langley Research Center with my government furnished laptop in my carry-on bag. That night in the hotel I noticed some curvature to the keyboard that I had not seen before.



The following day I took the laptop to a young technician on Center to see if I could get it fixed. His office was a mess with junk piled everywhere.

The technician was kind enough to offer me a replacement battery from a spare computer. (I was shocked that I didn't have to go through some bureaucracy that would leave me without a computer for a month) As he was removing the battery it started to smoke. He froze like a deer in the headlights. I grabbed the nearest box I could find and told him to throw it in the box. He promptly threw the whole computer in. I said NO, just the battery! He pulled the computer out and I ran for the nearest exit door.



The bureaucracy then kicked into action. Eventually a

fireman walked over from the station across the street and put the battery into a metal ammo box and took it away.

I suggested the technician clean up his office and get a metal ammo can or at least a metal trash can. Maybe next time he will be prepared. What bothered me the most was that I was almost "that guy" on the nightly news whose battery burns up on the plane.



Check your batteries regularly. If you find one like San's, or even a slightly swollen one, put it in a metal can, outside your house, and keep it dry until you can get rid of it!

## Steve's story

Recently, I changed out some batteries in a device and noticed that one of them started getting hot as soon as I turned on the device. Within seconds, the battery burst and smoke started pouring out of it.

Fortunately, I was in the garage with the door open. I yanked out the battery with a pair of pliers and tossed it outside where it pretty much melted down over a period of about a minute. Interestingly, this was NOT a Li-Ion battery, just an ordinary Duracell alkaline battery.

It just goes to show that even a typical battery has enough stored juice to start a fire. A typical Li-Ion battery stores significantly more energy than a standard alkaline battery, so the problem is magnified a lot.

When you parallel a whole bunch of Li-Ions for use in an eBike, scooter, etc., a tremendous amount of energy can be released during a shorting event.





# ~ March, 2023 ~

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	~ See Groups.IO for ZOOM sign-on	Peaches opens at 6 AM. Orders taken at 7	1 ~ Virtual breakfast via ZOOM 10 AM	2 * 2 meter net 7:30 PM followed by + 10 meter net	3 Breakfast @ Perkins 9A	4 Shark's Tooth 10K  DAV 9:30 A BOD 1P
5 Shark's Tooth 5K	6 QCWA 11 AM @ Denny's Bee Ridge	7 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	8 ~ Virtual breakfast <b>TARC MTG 7:00 PM @ Venice Presbyterian Church</b>	9 * 2 meter net 7:30 PM followed by + 10 meter net	10 Breakfast @ Perkins 9A	11 Bkfst @ DAV 9:30 <b>TARC VE session @ Venice Library 10 A</b>
12 	13 DARN net 11:00 AM Starts on NI4CE/rpt 145.43 pl100	14 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	15 ~ Virtual breakfast via ZOOM 10 AM	16 * 2 meter net 7:30 PM followed by + 10 meter net	17  Breakfast @ Perkins 9A	18 Breakfast @ DAV 9:30 A
19	20 	21 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	22 ~ Virtual breakfast via ZOOM 10 AM	23 * 2 meter net 7:30 PM followed by + 10 meter net	24 Breakfast @ Perkins 9A	25 DAV 9:30 <b>BBQ+Q Oscar Scherer State Park 12:00</b>
26	27	28 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	29 ~ Virtual breakfast via ZOOM 10 AM	30 * 2 meter net 7:30 PM followed by + 10 meter net	31 Breakfast @ Perkins 9A	

# DMR net on W4AC UHF repeater - 444.10 MHz - Talk Group 310442  
 \* 2 meter net on W4AC VHF repeater - 146.805 MHz, (-), PL 100 or W4AC-R EchoLink  
 + 10 meter net on 28.460 MHz +/- 10 MHz (depending on band activity) immediately following 2 M net.

**THE COMMUNICATOR** is a publication of the Tamiami Amateur Radio Club (TARC). It is published monthly; except during the summer months, the July and August issues will be combined. The Communicator is forwarded to all members via e-mail, and is available for viewing on the club's web site - [www.tamiamiarc.org](http://www.tamiamiarc.org) - Webmaster - Paul Nienaber, KN4BAR.

Editor - San Yoder, K3SY, who acknowledges and thanks these contributing writers this month: Paul Nienaber, KN4BAR, Gary Youngberg, W8SKI, Tony DiCenzo, KX1G, Frank Wroblewski, W2XYZ, Doug Griffin, WA1KRX, Tom Babcock, K7ONE, & Steve Morton, AA4TI

Articles of general interest to club members are solicited and welcomed. Please submit photos and/or copy (preferably in Word) to : [k3sy@arrl.net](mailto:k3sy@arrl.net). 73, San

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**TAMIAMI AMATEUR RADIO CLUB, INC. - Membership Application**

NAME \_\_\_\_\_ Call Sign \_\_\_\_\_ Class \_\_\_\_\_ ARRL ? Yes \_\_\_ No \_\_\_

2nd Fam. Memb. [or YL/OM] \_\_\_\_\_ Call Sign \_\_\_\_\_ Class \_\_\_\_\_ ARRL ? Yes \_\_\_ No \_\_\_

LOCAL ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_ CELL \_\_\_\_\_ e-mail \_\_\_\_\_

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PHONE \_\_\_\_\_ ALT. e-mail \_\_\_\_\_

Application date \_\_\_\_\_ PAYMENT: Amount \_\_\_\_\_ by: Check \_\_\_ Cash \_\_\_ PayPal \_\_\_ First year free \_\_\_

For payments by mail send to:  
 TAMIAMI AMATEUR RADIO CLUB, INC.  
 PO Box 976  
 Nokomis, FL 34274  
 Web site [www.tamiamiarc.org](http://www.tamiamiarc.org) payments accepted via PayPal [Add \$1.00 convenience fee].

**Dues:**  
 Regular member: \$25.00/year  
 After 6/1 - \$12.00 to year end. After 10/31 \$25.00 thru next year.  
 Family membership: \$30.00/year. Non-voting student: \$5.00/year.  
 New licensee: Tested by TARC VE- 1/1 to 10/31 - free to year end.  
 11/1 to 12/31 - free thru next year.

Please note: After two month grace period thru Feb., non-renewals will be dropped.