



THE COMMUNICATOR



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

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

Incorporated 1984

<https://www.tamiamiarc.org>

December, 2023

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President's message ... KN4BAR


I hope everyone had a fantastic Thanksgiving Day this year. We have so much to be thankful for: good DX, FT8, flagpole antennas, great fellow club members, and good POTA weather all winter long! What more could we possibly ask for?



Our Holiday Party is planned for Wednesday, December 6th, 6 pm at the Plantation Golf and Country Club. We currently have 59 club members signed up for this event. Reservations can still be made at our website store until Thursday, November 29th. SO, when you read this, decide right away if you want to join in the fun and make that last minute reservation on the website. (<https://tamiamiarc.org/wp-easycart-parent/store/>)

Club dues are \$25 per year for individuals and \$30 for family membership. Dues are due on January 1st of each year and are considered as past due on March 1st. At that time, we drop members from the club roster that have not paid their dues. Our membership stands at 174 as of November 1st. Our club is growing each year thanks to the participation and many activities of its members; making TARC one of the most active amateur radio clubs in the area. Please renew your membership early so you don't forget!

The annual meeting of the club is held in December when officers and directors are elected for the next year. December 13th at 6:30 pm is the date for this meeting this year. John, KQ4ELH is this year's nominating committee chairman. Please submit any nominations for club positions to him before the meeting. John will conduct the election of 2024 officers during the December meeting per the club's by-laws.

It has been a great year for TARC with many POTA activations, Field Days, Special Events, and great weekly radio nets on 70 cm, 2 m, and 10 m. Our monthly after-meeting programs have been informative and entertaining with special thanks to our retiring vice president Jim, KJ4NDO for managing this club program. Jim will be ending his official service to the club at the end of his 2023 term. Over his many years of club membership Jim has held every office in the club at least once, and he was one of the hardest working participants at just about every field day and special event held by the club. Thank you Jim! **73, Paul, KN4BAR** 

Next Issue
Holiday Party Report

Next meeting 6:30 PM, Wednesday, December 13, 2023 at Venice Presbyterian Church Fellowship Hall, 825 The Rialto, Venice, 34285

STOP! Don't move! Drop everything! You can still do a last-minute - hurry-up - under-the-wire - quick - sign-up for the TARC Holiday Party if you act immediately, [before the midnight, November 29th deadline], if not sooner!



Want to have an eyeball QSO with a reindeer or some elves? Don't miss the TARC Holiday Party at Plantation Golf & Country Club December 6th 6-9 PM.

The TARC Holiday Party for 2023 will be held at the Plantation Golf and Country Club in Venice on December 6, 2023 from 6 PM to 9 PM. If you want to attend, please purchase your tickets by Wednesday, November 29 at this URL:

https://tamiamiarc.org/wp-easycart-parent/store/?model_number=xmasparty

Address is:

Plantation Golf & Country Club
500 Rockley Blvd, Venice, FL



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Tony Levenson, W4RFV, Extra
Mike Tinsley, KK5WP, Extra

While you are in the holiday mood why not give yourself the gift that will give you a year's worth of good times with fellow hams, good information on your hobby, and help when you need it!

Time to renew your membership in TARC. [See page 12](#) for all the details for membership costs and how to pay.

TAMIAMI AMATEUR RADIO CLUB *Minutes of the 11/08/23 Meeting*

Please note the new meeting time of 6:30PM. "Elmer Hour" for assistance will remain at 6PM. Email akselmer@tamiamiARC.org in advance with questions we can be better prepared to assist you.

The meeting was called to order at 6:30 PM by Treasurer Frank, W2XYZ as the President and Vice President were on travel. Board member Steve, NS4P was Acting Secretary as Art, K4NUM was absent. A Pledge to the Flag was conducted.

INTRODUCTIONS:

New Members Dan Carlton, KO4EST and Lou Ronnau, N0MUQ were welcomed to the club.

All other members in attendance introduced themselves.

SECRETARY'S REPORT: A motion to accept the minutes of the October 11, 2023 meeting as published in the Communicator was introduced by Randy, N4TDT, Seconded by Steve, KN4NFX. The motion passed unanimously.

TREASURER'S REPORT: Frank W2XYZ reported on the club finances. Summary information for October is as follows:

	Beginning	Ending
October	\$26,252.51	\$27,066.41

Hop, AC8NS moved to accept the Treasurer's report. Paul, K1YOU seconded. The motion passed unanimously.

SUNSHINE: Gary, N5BLV is recovering at a rehab facility in Venice. His XYL reports he is not ready to receive visitors other than family.

Patti, N4IGI is recovering from eye surgery. She is resting comfortably at home after an overnight stay in hospital.

Ken, K4AKL is reported to be in the hospital, but details are scarce.

VE TESTING: Steve, NS4P reported that VE sessions continue to run smoothly using the new tablets. The December testing session will be held December 2nd (one week early) to enable the examiners to attend the Tampa Bay Hamfest.

LIASION TO QCWA: Al, K0AL reminded everyone that the local chapter of QCWA meets for lunch the

first Monday of every month. The price is \$20 including drink and gratuity. A program follows lunch. Everyone is welcome to attend QCWA meetings.

REPEATER / TECHNICAL: Frank, W2XYZ reported that everything is working well, except for a short EchoLink outage caused by human error. The DMR net is on Tuesday at 7:30PM and the Analog (2 meter) net is Thursday at 7:30PM. The weekly 10m net has moved to Wednesday at 7:30 PM on 28.460 USB plus or minus QRM.

For the 2m Net, EchoLink users are reminded to be ready to check in first thing (7:30 sharp) since once the net gets rolling it can be hard to get a gap big enough to accommodate the EchoLink VOX delay.

REMOTE STATION UPDATE: Frank W2XYZ reports the remote station is working well. Contact Tom, W8QJF for details on how to access the remote HF station.

PIO INFORMATION AND UPDATE: Dwight, KT4DDS reported on upcoming events and stated that the TARC FaceBook page has 463 followers. Dwight mentioned he is evaluating whether to continue membership in Venice Main Street due to lack of benefit to membership.

MEMBERSHIP: No report as Paul, KN4BAR was absent. Frank, W2XYZ mentioned that he will be collecting 2024 dues shortly.

ANNOUNCEMENTS

- ➔ Frank, W2XYZ requested a show of hands regarding the new meeting start time. The crowd endorsed the new start time enthusiastically. Future membership meetings will start on 6:30 PM
- ➔ November 8th was the deadline for placing an order for a club polo shirt or name tag on the group orders. Shirts and name tags can be ordered individually at any time (Embroidery Patch for shirts, talk to Frank for a name tag)
- ➔ Frank, W2XYZ announced that after evaluating submissions to the Board of Directors, the 10M radio, 10M antenna, and DMR HT will be given to Carlton, KQ4ELR. A working party is scheduled to help him set up the station at his house in the near future.

>>>>>>>>>>

TARC Minutes, continued

- ➔ Tom, KE4RXM will be holding a one-time 10M net for the purpose of exchanging 10-10 numbers. Date is Thursday, November 16 at 8:15 PM. Tom is exploring starting a 10-10 Chapter in the area.
- ➔ John, KQ4ELH reported that the “Knuckle-dragger Net” meets on 7215 KHZ every Thursday at 5 PM. Check-ins are taken starting about 4:30PM
- ➔ Tony, KX1G announced that he is heading up a team to run a Multi-Operator station to compete in the ARRL 10M contest the weekend of December 9-11. The team will be using the K0AL super-station. Contact Tony if you are interested.

OLD BUSINESS:

SOLAR POWER AT REPEATER SITE: Progress has restarted on this project. Tom, W4IEE has a team together with construction of the new cable bridge to start very soon.

HIGH-SCHOOL SCHOLARSHIP: Steve, NS4P has made contact with Rotary Futures and the Board of Directors is discussing the details and logistics of the scholarship award process. A full proposal will be presented for membership approval at a meeting in the near future.

TARC HAM RADIO DAY at the LIBRARY. Brian, W1JBD reported on the unqualified success of the event. Thanks to excellent publicity by Dwight, KT4DDS and a strong membership turnout the Library Day was fun and exciting.

2024 OFFICER/DIRECTOR NOMINATING COMMITTEE:

John, KQ4ELH stated that most of incumbent officers are willing to serve another term, however, we are looking for a candidate to serve as Vice President. Any member in

good standing can nominate themselves or another member to run for office. Contact John if you are interested.

HOLIDAY PARTY: Steven, NS4P reported that signups are going well. A Groups.IO message with all the details was sent out. The final date to sign up is November 30. The event will be held at the Plantation Golf and Country Club on Wednesday December 6th. Prior registration is required.

NEW BUSINESS

There was no specific new business to conduct, and nothing was provided from the floor. Frank, W2XYZ did remind attendees that several events are coming up, including Officer/Director elections (next month), Holiday Party (Dec. 6th), Winter Field Day (January 27&28), TARC Spring BBQ (March??), Florida QSO Party and Florida State Parks On the Air.

Hop, AC8NS moved to adjourn the meeting, seconded by Roger, N9RM. The motion passed unanimously.

The 50-50 raffle was won by Rich, KQ4APW.

The speaker for the evening program was Steve Worobel, Venice Fire Department Battalion Chief. Chief Worobel discussed the “File of Life” system for recording important emergency information (Pre-existing conditions, medication, advanced directives and emergency contact information) in a convenient and easy to find document. Chief Worobel indicated the importance of keeping the document up-to-date.

Next meeting date; Wednesday, December 13th at 6:30 PM

Respectfully submitted, Steve Phillips, NS4P - Director and Acting Secretary

TARC
Second Annual
BBQ

BarBeQue & Qsos

\$XX PER PLATE

W4AC POTA ACTIVATION

March 24, 2024
1:30 PM

Oscar Sherer State Park
1843 S Tamiami Trail
Osprey, FL 34229

FOR MORE INFO WWW.TAMIAMIARC.ORG



CHASING DX CQ DX CQ DX....
 Column No. 14, December 2023

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

ClubLog Announced Top-100 Needed scheduled in December 2023

DATES	ENTITY	CALLSIGN	QSL INFO	INFO
Nov 21- Dec 5	Christmas Is #63	VK9XGM	Via N3SL; OQRS	80-10 SSB CW FT8 FT4
Nov 29 – Dec 7	Cocos KeelingI #64	VK9CY	see Web page	160-10m; CW SSB FT8
Dec 4-16	Micronesia #82	V6EU	QSL via ClubLog OQRS or DL2AWG direct	60-10m, 6m; SSB CW RTTY FT8

Check **Announced DX Operations** at <https://www.ng3k.com/misc/adxo.html>

**Working on your DXCC? The ARRL
 10 Meter Contest is Dec 9-10 (note
 this is UTC time)**

With band conditions improving, this year's 10 Meter Contest should give you ample opportunity to fill your log book! *Don't forget to submit your log within 7 days to the ARRL Contest department and upload it to LoTW.*

Important DX Contests in December

- ARRL 160 Meter Test, Dec 1-3 UTC
 - ARRL 10 Meter Test, Dec 9-10 UTC
- Source: www.contestcalendar.com

**Answer to the November
 Question of the Month**

The November question was submitted by TARC member Steve Hawley, K4EU.

- 1) What international organization issues callsign prefix blocks (i.e AAA-ALZ?)
- 2) What U.S. organization issues callsigns per the world guidelines?

Answers: (1) The International Telecommunications Union (ITU), as an agency of the United Nations specialized in Information and Communication Technologies. (2) In the U.S. the FCC, issues callsigns within the blocks. Callsign blocks assigned to the USA are: AAA-ALZ, KAA-KZZ, NAA-NZZ and WAA-WZZ.

**Special December
 Question of the Month**

T'was the week before Christmas...

Santa's Elves were in the workshop, busy making toys. Mrs Santa came into Santa's shack at the North Pole with some hot chocolate and heard a horrendous noise coming from Santa's radio. Santa, callsign SNOW, was on 40 meters hosting a net with kids of all ages giving Santa their lists. Before Santa could say "Ho, ho, ho!" the pile up was horrendous! He shouted into his mic "Ho, Ho, Ho! QRX! QRX! Stand by, stand by!" He turned to his logger, Rudolph (call sign R3D) and, wiping the sweat off his brow, asked "Is there a way to deal with this pile up?" And Rudolph said to Santa, "Lets do this the ham radio way!" and he gave Santa specific instructions.

What specific instructions did Rudolph suggest that Santa tell the boys and girls to do????

If you have a suggestion for a DX question, please send it to KX1G@ARRL.net 73! Tony KX1G

10-10 membership drive net successful *by Tom, KE4RXM*

The 10-10 Membership Drive Net which was held after our regular 2m chat Net Thursday, November 16th was very fruitful.

Three members, Steve Philips NS4P, Alex Gan, W2GAN, and Bob Mcalister, KN4RKE, each got 3-5 QSOs with the (6)TARC members who hold 10-10 numbers that were also on the air. I believe those 3 guys each need 3 or less to finish their logs. The International net is on 28.380 six days a week, at 1pm our time right now. Conditions vary greatly, but keep at it. Every day holds new opportunities.

NS4P assisted me in providing relay which was very helpful. If you have ever tuned into an actual 10-10 International Net, you will hear relay operators as well. They can't help you complete a QSO but they are instrumentally helpful to the NCS keeping things rolling.

Everyone checked in, said whether they were need-

ing numbers or had one, and stood by to answer each other's call. I enjoyed sitting back and hearing the QSO's take place here in my own back yard.

If you are wanting more information about the 10-10 International organization, how to get your number or help with an application you have already started, reach out to me and I'll do my best to help.

REMINDER-TARC has a regular 10m Chat Net, hosted by Steve Philips, NS4P. It is now on WEDNESDAY nights at 7:30 pm at 28.460, plus or minus, depending on clear frequencies. There is NO current regular 10m net on Thursday nights after the 2m net. Stay tuned for upcoming new 10m opportunities here at TARC.

73 to all, and welcome back, seasonal members. Seasoned Hams, hi hi.

73, Tom Waters, KE4RXM



10 meter contest provides an operating op

Contest Objective: For amateurs worldwide to exchange information with as many stations as possible on the 10-meter band.

Contest Period (All dates are maintained in the ARRL contest calendar): Second full weekend in December. Begins 0000 UTC Saturday and runs through 2359 UTC Sunday. Operate for a maximum of 36 hours out of the 48-hour period. Off times must be at least 30 minutes long.

Exchange: All stations send a signal report. W/VE stations, including Alaska and Hawaii) send their state or province. (District of Columbia stations send "DC".) Mexican stations send their state or province. DX stations send a serial number. Maritime mobile stations send ITU Region (1-3).

Click here for full rules:

<https://contests.arrl.org/ContestRules/10M-Rules.pdf>

Here's an opportunity to hone your race monitoring skills

Steve White, W4SNW / Email: swhite@adaptivecreationsgroup.com / is organizing ham radio monitoring stations for two major race events in Sarasota for **Spring 2024**. He needs all the help he can get from folks with good HT and mobile 2m/70 cm radios that can act as route monitors along the courses. There is consideration being given to using FRS/GMRS radios for non-ham participation in some portions of the race courses. So, family, friends, or neighbors can help as well! Please contact Steve directly if interested in participating in this Sarasota ARC sponsored activity.

Saturday, January 13th - <https://sarasotamarathon.com/>

Saturday, April 24th - <https://events.nationalmssociety.org/index.cfm?fuseaction=donorDrive.event&eventID=1701>

AGAIN...please contact Steve W4SNW directly for info and to sign up. Email: swhite@adaptivecreationsgroup.com



TIME IS OF THE ESSENCE

by Steve, NS4P

What time is it? This is a question that has bedeviled mankind for millennia. Ancient artifacts found around the world testify to the effort put in to determining time accurately. In the ham radio world determining the exact time hasn't really been of particular concern up until recently – a reasonably accurate Timex was sufficient to keep our logs accurate to accepted standards. Sure, we might tune into WWV to check our receiver frequency and set the second hand on our shack clock just because we could, but it wasn't a requirement. And even today, highly accurate timekeeping is not really necessary for CW, SSB, RTTY and most other modes.



The introduction of modern synchronous digital modes (FT8, etc.) has introduced a new reality in the ham shack. It's now a baseline requirement to synchronize your shack time with an international time reference, accurate to within 1 second. In any location with reliable Internet access, this is not too big a hill to climb. Our computer operating systems (Windows, Chrome, Linux, and OSX) automatically connect to Network Time Protocol (NTP) time servers around the world, which can set the computer internal clock to within a few seconds of reference time. In practice, our shack PC clocks will drift between "syncs", so we can add an NTP application (e.g., Meinberg, Dimension 4) to provide even better accuracy. The end result is that our shack PC is "right on" almost all the time with very little effort.

In the field things get more complicated. We don't typically have WiFi or Ethernet in our State parks so our computers are unmoored from any time reference...or are they? Let's explore some options for getting an accurate time reference away from the shack.

Apart from lugging a Starlink dish out into the woods, the most obvious option is Internet access over cellular service. This can be accomplished either by using a cellular-capable computer or using the WiFi hotspot in our cellular telephone (or a stand-alone cellular Wi-Fi hotspot) to provide Internet access to a WiFi-capable computer. This works well, as long as you have cellular service at the location you are operating from and you've subscribed to an appropriate data plan with your provider. The problem with this system is that cellular service is typically concentrat-

ed in population centers and along busy thoroughfares (i.e., where the people are) and not so much in remote parks and forests.

For those remote areas where this is no wired Internet or cellular service, the good news is that almost the entire surface of the Earth is bathed in RF signals containing time codes accurate to within microseconds of international time references. Every Global Positioning System (GPS) satellite carries a very accurate and precise Cesium clock in addition to a location tracking system. The clocks in the satellites are corrected on a regular basis from ground stations that are reference to an official time standard. Each satellite broadcasts a data stream including a time code along with corresponding position data. GPS receivers on or near the ground operate on the principle of determining the time difference between the arrival of signals from multiple satellites and "doing the math" (Trilateration) to determine their location on Earth.

Alternatives such as GLONASS (Russia), Beidou (China), and Galileo (EU) operate on the same principle. You can also use clever math to match up signals from several satellites and zero out the errors due to the time delays for the time it takes the signal to travel from the satellites to the receiver and calculate a very accurate time at the point of reception. All we need to do is receive the GPS signal, calculate the time, and then get the time into our computer.

Receiving the GPS signals is a simple matter of getting an appropriate receiver (AKA "Dongle") and plugging it in to your PC. Many suitable choices are available on Amazon for less than \$30. I chose the VK-162 G-Mouse GPS dongle, available from several suppliers on Amazon for less than \$15. I chose the wired dongle instead of the "thumb drive" form factor because I wanted to be able to set the receiver away from the laptop for a better view of the sky. On my Windows 11 laptop no special driver was needed – all I had to do was plug it in and the dongle was recognized by Windows. Windows provided a generic USB Serial Device driver and automatically assigned a COM port. I used Device Manager to view the serial port parameters (8, N, 1) and increase the data rate from 9600 to 115200 bps. I chose the higher data rate because some of the smart guys on the internet claim that time accuracy is improved at >>>>

TIME IS OF THE ESSENCE, CONTINUED

rates. The data stream provided by the dongle is in National Marine Equipment Association (NMEA) 0183 standard format.

Fun Fact: The biological clocks of plants and animals (including Humans) are generally referenced to sunrise and sunset (Astronomical Time). Since the speed of rotation of the Earth is not constant, international standards bodies, including the US National Institute of Standards and Technology (NIST), periodically add “Leap Seconds” to UTC to keep our body clocks aligned with astronomical time. The GPS and related systems do not change their internal system time but include a correction (currently 18 seconds for GPS) in the data stream.

Decoding the GPS data streams and calculating the UTC time requires a bit of software and several choices are available. I found two programs that worked for me - GPS2Time by VK4ADC and BktTimeSync by IZ2BKT – both are available for free. BktTimeSync is a bit more polished and may be easier to use for most

users. I found that the initial time reference provided by either program was about 2 seconds off. It took about 5 minutes after a cold start for the receiver and software to get a “lock” on 4 satellites and provide a time accurate enough for FT8. I suggest you get your laptop and GPS receiver fired up early so it can get a good reference while you set up the rest of your station. Both packages will automatically update the system clock, either on-demand or on a schedule that you can set (Windows Administrator privileges are required to reset system time).

BktTimeSync has an additional feature in that it will also use NTP over the Internet, if available, so it works in almost any situation.

I also found a method of accurately setting the system clock that requires no Internet access and no additional hardware – JTSync by DK5EW. JTSync is

specifically designed for WSJT-X users and works by listening to your FT8 data stream and calculating the average of the Delta Time (DT) for all the signals you decode. The idea is if your clock is set properly, the average DT at your station should be close to “0.00”. If the average is off, JTSync can adjust your PC system clock to bring the DT average back to 0.00. I’ve used this app for several months and have had good results with it. JTSync will also use NTP if Internet service is available.

A final note – some users on the Internet have reported wideband RFI from the GPS dongles. I haven’t noticed it yet, but if you experience RFI, you can simply unplug the GPS dongle after you get the time set – the PC will almost certainly keep time close enough over the course of a typical POTA activation.

Acknowledgement - Thanks to Tom, K7ONE for his help with this article.

73, Steve, NS4P



The Florida Gulf Coast Amateur Radio Council Presents:

The 48th Annual

TAMPA BAY HAMFEST

and Electronics Show

ARRL West Central Florida Convention
Second Largest Hamfest in Florida



Expo Building
Strawberry Festival Grounds
Parking behind 301 N Lemon St (Now Berryfest St)
Plant City, FL 33563

December 8th – 9th, 2023
Friday, 1PM to 6PM—Saturday, 8AM to 4PM

Talk-in Brandon - 147.165 +, PL 136.5

For up-to-date information visit www.TampaBayHamfest.org

ARRL-VEC Exam and Commercial license testing
WAS, DXCC, IARU, VUCC Card Checking

Forums and Programs are updated regularly on website

Admission at the gate	\$13	Under 12 accompanying a paid admission	FREE
Advanced ticket purchase	\$10	Public service/military in uniform	FREE
Student with ID	\$5	Bulk Tickets Sales	\$1 S/H if mailed 10/\$90

Indoor tables, 8ft	\$20	No vehicles of any kind in building
Booth, 10ft x 10ft with 2 8ft tables	\$60	
Electric	\$10	
Tailgate space	\$10	

Camping	\$20	See website for details
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Club table, 1 free for club activities	\$0	No selling allowed
Club tables	\$15	each for selling

Everyone entering the parking/tailgate/inside area must have a ticket visible.

See webpage for more information—www.tampabayhamfest.org

As some of you may know, before my stint as editor of "The Communicator", I edited "The Fifth Wheel", newsletter of The Lehigh Valley Corvair Club in Allentown, PA. (I owned a '63 Corvair convertible back in the day).

Allen Lacki has edited that newsletter since, and after 19 years, I still enjoy reading it. Here is an article remotely connected to radio, reprinted as published with permission. **de K3SY**

Duck and Cover from the Corvair Center Forum

Editor's Note: I actually stole this from the NJACE Fanbelt, which is edited by Bob Marlow.

Here's a Corvair radio, a '63 to judge by the trim plate. See those two little triangle symbols between 55 & 7 and between 11 & 14? Do you remember why they were there?



They are CONELRAD markings, marking AM frequencies 640 and 1240 where info could be found when Khrushchev dropped the Big One and it was time to "duck and cover."

By law, radio sets manufactured between 1953 and 1963 had to have these two frequencies marked by the triangle-in-circle symbol of Civil Defense. From Wikipedia: "In the event of

an emergency, all United States television and FM radio stations were required to stop broadcasting.

Upon alert, most AM medium-wave stations shut down. The stations that stayed on the air would transmit on either 640 or 1240 kHz. They would transmit for several minutes and then go off the air, and another station would take over on the same frequency in a "round robin" chain. This was to confuse enemy aircraft who might be navigating using radio direction finding."

The 1960 Corvair Owner Guide has a picture in which the CONELRAD frequencies (640 and 1240) are pointed out. From 1961-64, in both car and FC Owners Guides the CONELRAD frequencies are described in a box labelled "Radio Tips."

While the CONELRAD markings were required from 1953 to 1963, some car radios had them for a little longer. The use of these frequencies was ended in August, 1963, when the first '64 models were already on their way to the showroom; radios without the markings would not reach the factories until later.

The description of the CONELRAD frequencies is found in the first edition of the 1964 Corvair Owners Guide but is gone in the second edition.

Call Search

Find each of the listed calls of TARC members in the grid - horizontally, vertically or diagonally in either direction. Sorry not all members are on the list this time. Find the dupe call and win a free ticket to the next TARC meeting.



K	N	4	B	A	R	N	9	C	K	K	9	W	R	H
Y	S	3	K	N	A	C	X	E	G	V	4	I	K	E
4	4	W	X	4	I	P	E	P	4	A	A	X	N	X
R	P	1	4	Z	6	A	W	1	I	C	U	O	X	X
S	D	X	Y	M	V	3	K	I	Y	X	7	F	F	N
J	U	X	S	0	O	W	4	J	S	K	J	N	3	T
4	2	V	X	K	2	N	E	T	4	Q	4	P	S	1
W	N	X	R	G	X	I	X	N	8	N	Q	K	R	A
8	K	0	A	L	G	X	U	W	K	D	0	B	R	P
S	E	N	X	I	4	M	X	5	U	X	H	1	3	A
K	4	X	4	C	N	V	X	G	E	G	X	H	A	J
I	R	N	X	R	O	3	K	J	4	T	N	I	W	4
K	X	1	G	X	K	6	S	Y	K	N	4	P	H	Q
X	M	W	4	I	E	E	K	C	K	O	4	B	C	X

AA4PE	KC9N	KX1G	W2GAN
AI6VO	KE4RXM	KY4GH	W2XYZ
AJ4QX	KG4IYS	KY4RS	W3APC
K0AL	KI4VGE	N2UD	W4AII
K2NET	KJ4NDO	N3PQD	W4IEE
K3SY	KJ4TNI	N3SC	W4JS
K4EU	KN4BAR	N4IGI	W4MO
K4NUM	KN4NFX	N4ZM	W5GJ
K60C	KN4PHQ	NS4P	W8QJF
K7ONE	KN4RKE	NT1AP	W8SKI
K9WRH	KO4BCX	W1ICU	WA3RRS
KB1HIP	KV4LR	W1XXV	W00S



~ December, 2023 ~

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			~ See Groups.10 for ZOOM sign-on		1 Breakfast @ Perkins 9A	2 Bkfst @ DAV 9;30 TARC VE session @ Venice Library 10 A BOD 1P
3	4 QCWA 11 AM @ Denny's Bee Ridge	5 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	6 ~ Virtual brunch via ZOOM 11 AM TARC Holiday Party 6-9	7 * 2 meter net 7:30 PM	8 Breakfast @ Perkins 9A Hanukkah Tampa Bay Hamfest	9 Breakfast @ DAV 9;30 A 10 M Cont. Bay Hamfest
10 10 Meter Contest	11 DARN net 11:00 AM Starts on NI4CE/rpt 145.43 pl100	12 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	13 ~ Virtual brunch TARC MTG 6:30 PM @ Venice Presbyterian Church	14 * 2 meter net 7:30 PM	15 Breakfast @ Perkins 9A	16 Breakfast @ DAV 9;30 A
17	18	19 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	20 ~ Virtual brunch via ZOOM 11 AM + 10 meter net 7:30 PM	21 * 2 meter net 7:30 PM	22 Breakfast @ Perkins 9A	23 Breakfast @ DAV 9;30 A
24 31 	25 	26 Breakfast @ Peaches 6 - 7 AM # DMR net 7:30 PM	27 ~ Virtual brunch via ZOOM 11 AM + 10 meter net 7:30 PM	28 * 2 meter net 7:30 PM	29 Breakfast @ Perkins 9A	30 Breakfast @ DAV 9;30 A

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)

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 - Webmaster - Paul Nienaber, KN4BAR.

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

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