



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>

February, 2020

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President's message.....KJ4NDO

I want to thank everyone who participated in, and supported the Winter Field Day exercise January 25 and 26, 2020. Club members gathered the antennas, tents, generators and supporting gear, and erected an antenna farm with two tents and radios up and running. We started making voice and CW contacts at 2 PM Saturday.



After the sun went down, the wind increased and it really got chilly. Tentage did not protect the operators. In a real emergency we would have sought shelter. If reliable electric power was available, we would have used it rather than using gasoline powered generators. And that is exactly what we did at midnight. We transitioned from tents to the Coast Guard building, and that decision allowed us to continue making contacts.

I don't know what our total contacts were, but a number of operators who had never engaged in contest operations took charge, and under the guidance of club contesters, learned how to be contest operators. We worked as a team, overcame challenges, ate donuts, drank black coffee, had fun, and surely learned a lot.

After the end of Winter Field Day, I realized that our club, located hard by the Gulf of Mexico, did not have a marine frequency radio for emergency use. Please contact your club officers and board members with your comments on this subject.

Looking forward, we will be supporting the Shark's Tooth 10 K road race on March 7th and the Shark Fin 5 K road race on March 8th. This event is called the Megalodon Weekend. We provide safety communications via short wave radio. Our club members are positioned all around the course to ensure race participant safety. Keep the 7th and 8th of March free for the events. You will enjoy every minute.

The ARRL Southeastern Division – January 2020 Newsletter arrived on January 27th. There is a wealth of information in this newsletter. For example, the ARRL sponsors a Teachers Institute on Wireless Technology; an expenses-paid professional development seminar for teachers interested in STEM education. Applications open February 1, 2020.

Education and technology program grants are available and awarded to schools to help fund amateur radio equipment for school student use. Links are published in support of both of these initiatives. Please review these links and get this information into the hands of middle school science teachers. Free Stuff always has appeal.

In closing, I want to wish everybody a happy HamCation in February, and a great Megalodon weekend in March.
73 to all, Jim, KJ4NDO

Next Month

- Orlando HamCation Report
- Shark's Tooth Preview

Next meeting February 12, 2020

Our meeting will start at **7:00 PM** on Wednesday, **12 February, 2020** at the Coast Guard Auxiliary Training Center, 1200 South Harbor Drive.

TAMIAMI AMATEUR RADIO CLUB *Minutes of the 01/08/20 Meeting*

The meeting was called to order at 7:03 PM. by president Jim Shortill, KJ4NDO. The pledge to the flag followed. Introductions were made by name and call sign.

MINUTES: Jim asked for a motion to accept the minutes of the December 11, 2020 meeting as published in The Communicator. Paul Nienaber, KN4BAR, so moved, seconded by Gary Hagens, K60C, and passed.

CORRESPONDENCE: TARC received a Christmas card from waitresses Jody and Dawn at the DAV. It was addressed to "The Radio Guys & a Girl". TARC received one QSL card when the club worked from the Boca Grande/Gasparilla Lighthouse (USA 910) on December 28, 2019. In addition, several members mailed in their 2020 dues.

TREASURER'S REPORT: Treasurer Frank Wroblewski, W2XYZ, reported a beginning balance of \$4,330.26, receipts of \$539.00, expenses of \$379.31, and an ending balance for the month of December of \$4,719.95. The Treasurer's report was approved by the membership.

SUNSHINE: None

VE TESTING: Steve Phillips, NS4P, reported four candidates were present for the December test session and all four passed. Of note was that the total number of incorrect answers for the entire session was 1 (one). We handed out completion certificates for two technician, one general upgrade, and one restoration of an expired general.

Over the entire year, the TARC VE team conducted 13 exam sessions for 78 candidates. The team administered 81 exams with 66 successful completions.

Reminder: The VE testing sessions has moved to the William H. Jervy, Jr., Venice Public Library, located at the corner of Milan and Nokomis streets, "on the island." The schedule is the same. Sessions will be held on the second Saturday of the month at 10 AM, except for the February session, which is the third Saturday, so as not to conflict with HamCation.

LIAISON TO QCWA: Al Culbert, K0AL, mentioned that 25 members, spouses, and guests met in December at Denny's restaurant in Sarasota. Hans Napfel, WB2ZZB, presented the program entitled "Knowledge & Memory".

REPEATER / TECHNICAL: Frank Wroblewski, W2XYZ, reported that both the digital and analog repeaters were working well. The frequency for the digital operations is 444.100 MHz (+), color code 1, talk group TAC 311. The digital net opens Tuesday at

7:30 PM. The club 2-meter analog repeater frequency is 146.805 MHz (-) PL 100. The 2 meter net opens Thursday at 7:30 PM. Hams can participate on this net via EchoLink using a computer, an iPhone or an Android system based phone. Click on W2XYZ-R (Node 571146) on the EchoLink directory screen to establish EchoLink contact. The 10 meter net is on frequency 28.450 MHz, upper side band, and begins immediately after the conclusion of the 2 meter net. The 10 meter frequency was chosen so novice/ technician licensees could participate.

About 12 to 14 members on average participate in these nets every month.

MEMBERSHIP: Steve Phillips, NS4P, reported that there are 89 regular, paid members, 45 first year free members, 0 student members, 7 life members and 1 comp. member, for a total of 142.

Jim Shortill, KJ4NDO, proposed that Fred Lathwood, KJ4TNI, be granted Honorary Life Membership for his many years of service to the TARC, including being past president. Fred has been living in Arizona for the past five years. The proposal met with unanimous approval.

OLD BUSINESS: 1. Technician class license training course: Paul Nienaber, KN4BAR, stated that the next technician course will be on March 21 and 28, 10:00 AM to 5:00 PM each day, at the William H. Jervy, Jr., Venice Public Library. Attendees are asked to purchase and read the Gordon West "2018-2022 Technician Class Book" prior to the class. The book costs about \$25.

2. Rotating Net Control Operators for Digital and Analog Nets. The net control operators for our weekly nets (Frank, W2XYZ, San, K3SY, and Steve, NS4P) offered to help any members to become good net control operators. We have a net control script. New net control operators would have a trainer at their elbow throughout the net. If you want to volunteer for net control please contact Steve at: sphilips3@gmail.com. He developed the sample script and will train new net control operators.

3. Bus to HamCation. Members wishing to take a chartered bus on February 8 to HamCation in Orlando should contact Frank Wroblewski, W2XYZ, immediately (w2xyz@arrl.net) as the bus is filling up. A \$10 deposit will reserve your spot. The bus will pick up people at 6:30 AM at the U.S. Coast Guard Auxiliary Station Venice. The bus will make a second pick up at the American Red Cross in Sarasota (2001 Cantu Ct) around 7:15 AM. The bus will leave HamCation at

Continued >>>>>

Minutes, con't

5:00 PM to ferry the people and their treasures back to Sarasota and Venice.

4. Antenna Shoot Out, North Jetty. Frank Wroblewski, W2XYZ, reported that the antenna shoot out was a big success. There was a variety of antennas (e.g., multiband, vertical dipole, fishing plane). We discovered that the differences in efficiency levels were very small and all of the antennas were really quite effective. In the future, the club may try yagi, n-pole, and/or buddy pole antennas.

5. Boca Grande/Gasparilla Lighthouse (USA 910) Communication Event. Andy Durette, KB1HIP reported that there were five hams that participated in this event. Three antennas were set up at the lighthouse and an amplifier helped in making 59 phone and 12 CW contacts. In the future, the club may try different lighthouse locations.

6. Winter Field Day, Mark your calendar for Winter Field Day on January 25 and 26. Location will be the USCG Auxiliary station, 1200 Harbor Drive, Venice, FL. A sign-up sheet was passed around.

NEW BUSINESS: 1. Club Station. Recently on Groups.io members were chatting about a club station and a remote club station. A committee is being formed to explore the feasibility of a club station. Reach out to Paul Nienaber, KN4BAR, and Tom Shrilla, W8QJF, if you are interested in joining this committee.

2. Elmer Help. Just a reminder that if you need help with any radio stuff, just send an email to askelmer@tamiamiarc.org. The TARC Elmer program is designed to mentor new hams and to help old

hams learn new tricks. A dedicated group of experienced club members have made themselves available to help other hams become better hams. Steve Phillips, NS4P, also mentioned that he is developing a tech Bootcamp. We will learn more about this in upcoming months.

3. To get younger people involved in ham radio suggestions were made to start a committee to work with a local school to encourage them to use Echolink and the International Space Station.

4. Fox Hunting. Fox hunting is where participants use radio direction finding techniques to locate a radio transmitter hidden within a designated search area. If you are interested in participating in a fox hunting event talk to Paul Nienaber, KN4BAR, and Steve Phillips, NS4P. Paul brought in his 2 meter home built antenna made with a tape measure, pvc pipe, and wire, which could be used in a fox hunting event.

5. Sarasota Emergency Radio Club Hamfest. The SERC Hamfest is scheduled for March 28, 2020 from 9:00 AM to 2:00 PM at the American Red Cross on Cantu Ct. in Sarasota. If you are interested in presenting a program please contact Den Spiess, W2DEN, by email to w2den@comcast.net. Anyone wishing to sell stuff should contact Micky Taylor, KM4BHF, by email to KM4BHF@aol.com.

ADJOURNMENT: The meeting adjourned at 7:55 PM. There were 41 members and 3 visitors present. The 50-50 winner was Paul Nienaber, KN4BAR, who won \$31.00.

Program: Winter Field Day



The new TARC officers take over the helm



Paul, KN4BAR demos his tape measure fox-hunt antenna

DX Jack's page....

..... By Jack Sproat, W4JS



MAJOR CURRENT/UPCOMING DX ACTIVITY & PROPAGATION HIGHLIGHTS

CURRENT and/or SCHEDULED DX ACTIVITY

COUNTRY – CALL SIGN	ACTIVITY PERIOD	BEARING	HF BANDS and BEST OPENING TIMES (UTC)							
			80	40	30	20	17	15	12	10
Norfolk Is – VK9NK by SP9FIH, SSB/FT8	Now to 12 Apr	250	1000	07-12	06-11	1400	NO	NIL	20-23	NO
Thailand – HS0ZME by SM6NT, **	Now to April	355/175	NO	NO	NO	1300	NO	1500	NO	NO
DR Congo – 9Q1C by IK7UXW, **	Now to April	88	0200	23-05	22-06	19-24	12-23	13-22	NO	NO
Gambia – C5YK by ON7YK, CW/SSB/FT8	Now to March	88	23-07	21-10	20-24	17-23	16-20	NO	NO	NO
W. Malaysia – 9M2MRS by PA0RRS, CW/FT8	Now to 27 Feb	352/172	NO	NO	NO	2400	1300	1400	NO	NO
El Salvador – HU1DL by 10 op team	30 Jan to 13 Feb	206	23-13	20-16	00-24	12-24	14-23	--	--	--
Cocos Is – T19C by 2 op team, SSB	30 Jan to 09 Feb	193	23-12	21-14	20-16	12-03	13-24	15-24	15-23	18-22
Gambia – C5XW by G5XW, holiday style	Now to 07 Feb	88	--	21-10	20-24	17-23	16-20	--	--	--
Somalia – 6O1OO by EP3CQ, SSB/FT8/CW	Now to 05 Feb	66	NO	00-03	23-01	20-24	17-22	13-21	NO	NO
Ghana – 9G5GS by IZ4YGS, FT8/SSB	01 to 16 Feb	88	00-06	22-08	21-05	18-24	--	--	--	--
Cocos Is – T19A by 4 op team, all modes	02 to 08 Feb	193	23-12	21-14	20-16	12-03	13-24	15-24	15-23	18-22
So. Cook Is – E51DDG by VE7DS, **	02 to 14 Feb	246	--	04-13	03-11	05-10	17-20	--	--	--
Tanzania – 515TT & 514ZZ by 10 op team	04 to 18 Feb	83	NO	24-03	23-02	20-23	18-22	15-21	1800	NO
Nauru – C21AA, GW, PF, etc., mainly FT8	05 to 08 Feb	279	NO	06-12	06-13	1400	NIL	20-24	20-22	NO
Palestine – E44CC by French team, all modes	05 to 17 Feb	49	01-03	22-05	21-06	1400	13-16	14-15	NO	NO
Tanzania – 5H4WZ by 5 op team, all modes	06 to 18 Feb	83	NO	24-03	23-02	20-23	18-22	15-21	1800	NO
Azerbaijan – 4K6/TA7AOF, SSB/FT8/CW	07 to 12 Feb	36	NIL	23-05	23-01	1200	13-14	NO	NO	NO
Fr. Polynesia – TX4N, TX4VK, holiday style	11 to 17 Feb	243	05-11	03-13	02-11	23-10	17-01	17-24	NIL	NO
Tanzania – 5H3DX by NK8O, CW/digital	16 Feb to 16 Mar	83	--	24-03	23-02	20-23	18-22	15-21	1800	NO
Micronesia – V63DX by JA7HMZ	14 to 21 Feb	293	NIL	07-12	06-14	1400	NIL	21-23	2100	NO
St. Barthelemy – FJ/N2IEN by 4 ops, holi styl	15 to 22 Feb	113	22-12	20-14	06-24	04-01	12-23	13-23	14-22	NO
Senegal – 6W7/ON4AVT, FT8/FT4/SSB	16 Feb to 27 Mar	87	--	21-10	--	17-21	--	--	--	--
Maldives – 8Q7HK by JG1SXP, FT8/CW	19 to 24 Feb	41	NO	2400	2300	1900	13-16	14-16	NO	NO
Norfolk Is – VK9NR	20 to 25 Feb	250	1000	07-12	06-11	1400	NO	NIL	20-23	NO
So. Orkney Is – VP8PJ by 13 op team	20 Feb to 05 Mar	163	03-05	01-08	24-09	22-01	19-24	13-23	19-21	NO
Cote d'Ivoire – TU5PCT by 3 op team	24 to 29 Feb	90	24-06	21-08	21-05	18-24	13-23	13-22	17-19	NO

Prepared 28 January 2020 based on the 27 January 2020 *The Weekly DX*, <https://dx-world.net/> and, <http://www.ng3k.com>

Notes: Times shown are for S-5 or better signals and 60% or better opening probability. ??? = Call Sign not yet known; ++ = Mostly SSB; ** = Mostly CW; NO = No Opening forecast, NIL = band is open but signals below S-5 threshold. Long Path bearings and opening times are underlined. All forecasts are calculated using VOACAP <http://www.voacap.com/hf/>.

-- JANUARY SOLAR ACTIVITY --

Through to 28 January, the 10.7 cm Solar Flux ranged from 70 to 75, with a mean value of 72.1. The A_p index was ≥ 7 on only four days.

During the month, three distinct sunspot groups appeared for a total of 12 days through 28 January.

-- FEBRUARY FORECAST --

Solar activity is expected to be very low with a slight chance for C-class flare activity from Sunspot Region 2757.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to remain at moderate levels throughout the month.

Geomagnetic field activity is expected to reach unsettled levels on 03-05 Feb and 25-26 Feb in response to CH HSS influence.

The 10.7 cm Solar Flux should range from 71 to 74, and average 72.4 during February.

(From NOAA *Weekly Highlights and Forecasts*, 27 January 2020, NOAA *27-day Space Weather Outlook Table*, 27 January 2020, and *45 Day AP Forecast*, USAF, 27 January 2020.)

-- TOP TEN MOST WANTED DXCC --

1. P5 DPRK (NORTH KOREA)
2. 3Y/B BOUVET ISLAND
3. FT5/W CROZET ISLAND
4. BS7H SCARBOROUGH REEF
5. CE0X SAN FELIX ISLANDS
6. BV9P PRATAS ISLAND
7. KH7K KURE ISLAND
8. KH3 JOHNSTON ISLAND
9. 3Y/P PETER 1 ISLAND
10. FT5/X KERGUELEN ISLAND

As of 18 January 2020, the above DXCC entities/countries remain as the most wanted. Two aborted attempts were made during 2019 to land on Bouvet. There's no news at this time about potential activation of any of these locations during 2020—unless there may be some Surprise News revealed at the 2020 Hamvention.

-- RANDOM THOUGHTS --

As shown in the DX Activity table above, there is a lot of very good DX scheduled for February. Cocos Is. hasn't been on for years and the South Orkney Islands are reasonably rare. We should have good propagation to both, so go get 'em if you can!!

Lighthouse On The Air

What's more fun than going to the beach? Going to the beach with radios, of course. That's exactly what Peter KV4LR, Al K0AL, Andy KB1HIP, Jim KJ4NDO, and Frank W2XYZ did three days after Christmas. We thought Santa and eight tiny reindeer might be relaxing in the sun after a long session of delivering toys around the world. To our disappointment, we didn't see Santa, only women in bikinis on the beach. However, that's okay because our real purpose was to go to the Boca Grande Lighthouse and activate USA-910 as part of the "Christmas Lighthouses Celebration."

We used the club's Icom 746 Pro radio and Icom 2k 500 watt amp to call CQ Lighthouse Special Event Station W4AC on 20 meters phone, and a 20 watt (Xiegu G90) to call the same in CW on 40 meters. We might have picked a better day for enlightening the world about Boca Grande Lighthouse because it was "Canada Day" and every Ham north of the border was on the air, so radio real estate was at a premium. We did contact a number of our northern neighbors and gave them points in their contest. We also gained more experience of operating in field environment under distracting conditions. In summary, the event was a great success, even if we didn't see Santa we all had a lot of fun.

Frank Wroblewski, W2XYZ



WINTER FIELD DAY



If any more show up to load Jim's truck, he'll have to construct a parking garage for the Friday post-breakfast loading crew.



Locked and loaded - next step - put 'em up!

Antennas up and on the air with a tri-band yagi, an end-fed wire, an inverted vee dipole on 40 M, and a 20M ground plane. Contacts made on 20, 40 and 80 meters.



WINTER FIELD DAY, 2020

And the faithful manned the stations in the tents into the night



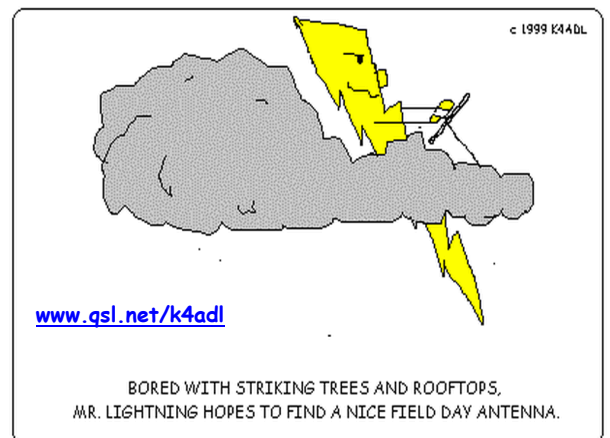
< A mosquito's eye view through the screen of the proceedings.

At 1:50 > on Sunday the antennas are coming down.



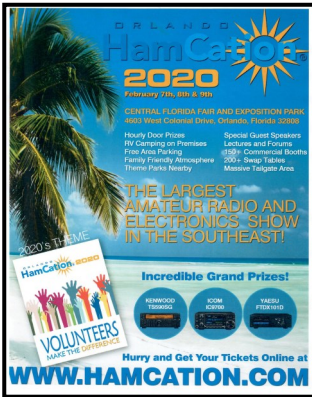
< At 2:01 the radios are off the air with 334 phone and 96 CW QSOs

Fortunately this guy >> didn't show up!



www.qsl.net/k4adl

BORED WITH STRIKING TREES AND ROOFTOPS, MR. LIGHTNING HOPES TO FIND A NICE FIELD DAY ANTENNA.



If you're going to HamCation, on the charter bus or otherwise, shown below is the list of programs scheduled for Saturday 08 February. All programs will be in the Lakeside Pavilion, which is northwest of the main buildings and tailgating area.

George Wagner - K5KG from Siesta

Key will be offering a program on behalf of the Florida Contest Group, which will be followed by QCWA President, Ken Oelke - VE6AFO expounding on that international organization. So, you can rest your butt and you don't have to spend all the day walking around the commercial exhibits.
73, Jack, W4JS

10:00 AM - Saturday

- CS I** - Understanding Speech Articulation - Bob Heil (K9EID)
CS II - Youth in Amateur Radio -Carole Perry (WB2MGP)
CS III - Florida Contest Group - George Wagner (K5KG)
Blockroom - LO and Waveform Generation Using Advanced PLL and Direct Digital Techniques -Ray Baker (K9RY)
CS IV - Entering FT4/FT8 World -Masaaki (Masa) Maeda (JR1AQN)

11:15 AM - Saturday

- CS I** - Joint Service MARS: The Hobby Becomes a Mission -Pat Johnson (KJ4AVE)
CS III - QCWA -Ken Oelke (VE6AFO)
CS IV - Kit Building Techniques for Success -Joe Eisenberg (K0NEB)

11:30 AM - Saturday

- CS II** - ARRL Collegiate Amateur Radio Initiative -Andy Milluzzi (KK4LWR)
Blockroom - Build An Antenna From Aluminum Crutches - Robert Fischer (WB8BEL)

12:30 PM - Saturday

- CS I** - West Mountain Radio - Run Your Own EchoLink Node for Personal or Shared Use -Sholto Fisher (K7TMG)
CS III - AMSAT / ARISS -AMSAT Team ()
CS IV - Personal Space Weather Station (PSWS) Introduction to Network and Software Design -Bill Engelke (AB4EF)

12:45 PM - Saturday

- CS II** - The latest updates and an overview of Hamvention 2020 - HV20 -Jack Gerbs (WB8SCI)
Blockroom - Connecting the Continents: A Short History of the Atlantic Telegraph Cable - Robert Feeney (KG4UGG)

1:45 PM - Saturday

- CS I** - An Introduction to Software-Defined Radio -Steve Brightman (KI5ENW)
CS III - Florida Weak Signal Society -Walter Dail (K4HV)
CS IV - TAPR TangerineSDR, A New Modular Open Source Software Defined Radio -Scotty Cowling (WA2DFI)

2:00 PM - Saturday

- CS II** - Spy Radios and Hidden Microphones -Tom Perera (W1TP)
Blockroom - East Coast IRLP Reflector 9050 -Dick Laing (WB2JQP)

3:00 PM - Saturday

- CS I** - Steath MF-HF Ham Radio Antennas -Richard Rikowski (W9ZD)
CS III - High Altitude Balloons Around the World -Bill Brown (WB8ELK)
CS IV - Digital Amateur Television (ATV) -Mel Whitten (K0PFX)

3:15 PM - Saturday

- CS II** - Society of Amateur Radio Astronomers (SARA) - Dennis Farr (WB4RJK)
Blockroom - Florida Statewide Amateur Radio Network (SARNET) -Randy Pierce, Joe Poerschke, David Krauss, Brian Kopp (AG4UU, WB4HIS, NX4Y, KC5LPA)

The Sarasota Emergency Radio Club (SERC) has announced the date for their second annual HamFest. It is planned for Saturday, March 28, 2020 from 9 am to 2 pm.

Vendor tables are available both inside the ARC building and in outside spaces

around the complex. SERC will also have many informative seminar presentations during the HamFest with a theme of "Digital Communications and DMR".

They are currently looking for presenters, so if you have a topic and some expertise to share please contact Den Speiss, w2den@comcast.net to sign up as a presenter.

Donation of ham radio equipment to TARC

The Tamiami Amateur Radio Club (TARC) is a 501(c)(3) not for profit organization. We accept ham equipment from estates, and from hams who no longer want to participate in the hobby. Every donation helps support a range of TARC and American Radio Relay League (ARRL) programs and services in which our members participate.

For all donated equipment we will:

- ◆ provide a donation receipt for tax purposes
- ◆ remove all radio equipment.



To donate, please contact club secretary, Patti Phillips at: pat.philips3@gmail.com or at PH (412) 417-6381, or president, Jim Shortill, jmnshortill@netscape.net, PH (941) 485-7327.

Thank you for thinking of us.

SK Ed Clark, K8ZM ham gear offered for sale

The estate of Ed Clark is offering his ham radio items for sale. This is quality equipment that has had minimal use, and has been in a non-smoking environment.

ICOM 7610 transceiver 160 - 10 meters plus 6 meters, original shipping carton and manual

YAESU FP-1030 30 amp power supply w/ meters

YAESU SP-2000 speaker

ALPHA 9500 legal limit 160 - 10 meter amplifier w/ original boxes

PALSTAR HF-AUTO HF Tuning network (160 - 10 meters)

Fred Lathwood, KJ4TNI elected life member

Former president of TARC, Fred Lathwood, KJ4TNI, was approved as a life member at the January meeting. Fred served as president for several years until he moved to Arizona. Clockwise from far right - Fred giving a check to Special Olympics in 2015, replacing wood supports at the repeater site in 2014, and his Life Member certificate.

YAESU FT-897 HF-VHF - UHF transceiver w/ FP-30 power supply

YAESU MLS-100 speaker

Plus all the small items (**wattmeters, antenna switches, patch cables, antenna analyzer, dummy loads**) usually found in a station.

Contact Al, K0AL at 319-329-6197 or radio.k0al@gmail.com for scheduling a visit to inspect this equipment or for pricing. All items not sold prior to HamCation will be offered for sale at the TARC tailgate site at the hamfest.



What is the Ten-Ten International Net?

With the prospect of a sunspot or two in the next few years, ten meters may be the place to be for some fun contacts. For those of you who have yet to be exposed to good propagation on ten meters, here is some information gleaned from the Ten-Ten International website about obtaining a 10-10 number and enjoying the band. —→ <https://www.ten-ten.org/>

The Ten-Ten International Net, Inc. was formed back in 1962 as the Ten-Ten Net of Southern California. Its purpose was to promote activity and good operating practice on the ten meter amateur band. During the first few years the organization grew slowly, but by 1975 there were 10,000 members, and the word "International" had crept into the name. There have now been over 75,000 10-10 numbers issued world wide.

The Ten-Ten International Net is a non-profit entity incorporated under the laws of the State of California.

Ten-Ten (or more commonly "10-10") has no paid employees. All of its officers and managers serve on a voluntary basis, and are reimbursed for necessary expenses only. With the great expansion of the organization in recent years, it has been necessary to employ computer processing for membership records and mailing labels. This has also permitted publication of a Membership Roster at suitable intervals and has facilitated mailing the quarterly *10-10 International News*, which is sent to all paid-up members.

Ten-Ten's principal expenses are for printing, postage, and computer processing. Annual dues are \$15.00 US members, \$20.00 for Canada and Mexico, and \$30.00 for other DX members to provide funds for expenses.

A membership card, certificate of membership and other items are sent to new members when membership is granted. Each new member is assigned a unique "10-10 Number" which is retained for life, regardless of a change of callsign. A 10-10 number is never re-issued. When one becomes an SK (Silent Key), his/her number is still listed in the membership records and Mem-

bership Roster.

Paid-up (ACTIVE) members receive a copy of the *10-10 International News*, 10-10's own magazine which is published each quarter, and are eligible to participate in various 10-10 activities.

3) How do I join and where do I get my 10-10 number?

Any licensed amateur authorized to operate on the 10 meter band can join 10-10. It is required that you contact 10 10-10 members (on 10 meters), listing their information as noted on the Membership Application form.

Shown below is your editor's 10-10 certificate obtained back in the day when the band was active with lots of exciting DX. de K3SY



TOM'S TECH TIPS: Disable Startup Programs & processes:

If you really want to see and control what's going on during your PC's startup, download Autoruns from Microsoft: <https://download.sysinternals.com/files/Autoruns.zip>

73, Tom, W8QJF

February 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<p>* Peaches opens at 6:00 AM. Orders taken at 7:00</p> 						<p>1</p> <p>Breakfast @ DAV 9:30</p>
<p>2</p> 	<p>3</p> <p>QCWA 11:30 AM Denny's Bee Ridge Road</p>	<p>4</p> <p>Breakfast @ Peaches * DMR net @ 7:30 PM W4AC 444.1</p>	<p>5</p> <p>Breakfast @ IHOP 8:30</p>	<p>6</p> <p>TARC net @ 7:30 PM W4AC / RPT 146.805 ** +10M net</p>	<p>7</p> <p>Breakfast @ Peaches *</p> 	<p>8</p> <p>Breakfast @ DAV 9:30 Bus to Hamcation</p>
<p>9</p> 	<p>10</p>	<p>11</p> <p>Breakfast @ Peaches * DMR net @ 7:30 PM W4AC 444.1</p>	<p>12</p> <p>IHOP 8:30 TARC meeting @ Coast Guard Training Center 7:00 PM.</p>	<p>13</p> <p>TARC net @ 7:30 PM W4AC / RPT 146.805 ** +10M net</p>	<p>14</p> <p>Breakfast @ Peaches *</p> 	<p>15</p> <p>Breakfast @ DAV 9:30 TARC VE session @ Venice Public Library Note date change this month only</p>
<p>16</p>	<p>17</p>	<p>18</p> <p>Breakfast @ Peaches * DMR net @ 7:30 PM W4AC 444.1</p>	<p>19</p> <p>Breakfast @ IHOP 8:30</p>	<p>20</p> <p>TARC net @ 7:30 PM W4AC / RPT 146.805 ** +10M net</p>	<p>21</p> <p>Breakfast @ Peaches *</p>	<p>22</p> <p>Breakfast @ DAV 9:30</p>
<p>23</p>	<p>24</p>	<p>25</p> <p>Breakfast @ Peaches * DMR net @ 7:30 PM W4AC 444.1</p>	<p>26</p> <p>Breakfast @ IHOP 8:30</p>	<p>27</p> <p>TARC net @ 7:30 PM W4AC / RPT 146.805 ** +10M net</p>	<p>28</p> <p>Breakfast @ Peaches *</p>	<p>29</p> <p>Breakfast @ DAV 9:30</p>

**The W4AC 146.805 Repeater is ANALOG, PL100. [If the 2-m repeater is down, please QSY to 146.58 simplex]

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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