

The Printed Circuit

The Monthly Publication of the
Tallahassee Amateur Radio Society
April, 2021



TALLAHASSEE
AMATEUR
RADIO
SOCIETY

K4TLH
.NET
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K4TLH

P.O. Box 37127
Tallahassee, FL 32315



Minutes of the April 1, 2021 TARS Meeting

Compiled and Submitted by: Todd Clark (KN4FCC) – TARS
Secretary

(Note: The business portion of the meeting was conducted via radio net due to the COVID-19 pandemic. The program portion of the meeting was conducted via video teleconference following the business meeting)

Call to Order: Todd Clark (KN4FCC), as net control, opened the meeting at 7PM local time on the 147.03 MHz repeater. Check-ins from:

KN4UXJ, Larry
KD4MOJ, Doug
KK4SIH, Don
AG4UU, Randy
KC4EMS, Jack
KA5USN, Chief
KO4KSV, Robert

K4TB, Tom
KN4TRT, Paul
K4NRD, Pat
KQ3O, Justin
KN4WOW, Ed
AI4KA, Chuck
KN4TDL, Jeffery
KN4FCC, Todd

Business Meeting:

Don (KK4SIH) opened the meeting at 7:04 after check-ins.

Approval of minutes: The minutes were approved as printed in the Printed Circuit. There were no corrections and no objections.

Committee Reports:

Treasurer's Report – Doug – KD4MOJ: noted that the latest treasure's report was included in the Printed Circuit. The club had received dues from 19 new members / renewals during the past month and \$41 from Amazon Smile. There were some additional dues received after the books closed on the last report on March 22, 2021.

Education Committee -- There will not be any classes held until the pandemic has ended. That may be later this year. At the current time, the American Red Cross is not permitting outside groups to meet at their facilities.

Testing – Doug – KD4MOJ reported that the club hosted one testing session on March 6. The club held both a morning and afternoon testing session. The next testing session is scheduled for May 8, 2021. Although the Red Cross HQ in Tallahassee is closed, they are allowing groups of no more than 5 test candidates and 3 volunteer examiners to meet at the building. Phil, KA4USN said that the testing committee can call for additional Volunteer Examiners if they are needed once the Red Cross building opens up and we can get larger test sessions.

Repeaters – Doug –KD4MOJ reported that all club repeaters are operating normally. The club is in the process of moving the 6 meter repeater to a new location, but it is not currently in operation. The UHF repeater on 443.400 MHz, which was owned by a private operator, is no longer operating as the operator has moved away from the Tallahassee area.

Old Business:

Field Day operations in person are still a possibility and the club has applied to use space at Tom Brown Park with appropriate COVID-19 precautions in place. We are still looking for additional volunteers to assist with the setup and operations for Field Day activities. Chief, KA5USN stated that we have not yet received a response from the City of Tallahassee on our application to use the space at Tom Brown Park, but we may hear back from them in early April. The only station captain we have is for CW. We still need station captains for the phone station and for a digital communications station. Anyone wishing to volunteer to help with any part of the Field Day activities can send an email to the club at tallyamateurradio@gmail.com.

New Business:

Don, KK4SIH, noted that the certificate for the K4TLH web site (K4TLH.net) has expired and is causing some problems with accessing the site in certain browsers. He is aware of the problem and is working to renew the security certificate for the website.

The Florida State Parks on the Air is this coming weekend (April 2 – 4) and club members are encouraged to get on the air and make as many contacts as possible with stations operating from our state parks.

Zoom Program:

Dr. Francisco Reyes - KK4AAV - University of Florida, Dept. of Astronomy will be talking on Radio Astronomy touching on the following topics:

- * Brief history of the Univ. of Florida Radio Observatory (UFRO) and the closing of the UFRO.
- * The observations of Jupiter's decametric emission from UFRO and a station in Chile
- * Antennas and equipment used at UFRO and the station in Chile
- * Pulsar observations at UFRO and Chile and the antennas we used.
- * The Radio JOVE educational, public outreach and citizen science project
- * The Spectrograph User Group (SUG) network, equipment and the observations
- * The small antenna and spectrograph at Rosemary Hill observatory
- * Planning for the observations of the 2024 total solar eclipse in the US.

The Zoom meeting started with Dr. Reyes at 7:32

Tom introduced Dr. Reyes from UF and EE degree from Chile and has been working with radio astronomy, especially signals from Jupiter. His thesis was on radio telescopes and has also observed pulsars at low frequencies. Also interested in photography and in teaching astronomy.

Interest in connecting EE and radio astronomy. Associate Professor at UF. In charge of radio telescope at UF. Observatory at UF operated at a campus location in 1957 at 18MHz. Moved to Dixie County near Old Town in 1966 and operated there from 1966 to 2010 on a 60-acre site. Yagi antennas at 15, 18, 20, 22, and 27 MHz. 23.3 MHz dipole in a phased large array and an 18 MHz polarimeter. Plus an array of 16 conical log spiral array built 1993-95. Dr. Tom Carr and Alex Smith were the faculty members who started the radio telescopes. Repairs had to be made to the large 640 dipole array after each lightning season. Observatory was shut down in 2010. Was used to observe radio signals from the planet Jupiter. Emissions from Jupiter were detected below 39 MHz. These radio signals are from the changes in the magnetic

field from the planet. Observations occurred during a 15 year period with both left-hand and right-hand polarized emissions. Planet's magnetic field is tied to the gases that make up the planet and thus signals from the planet can be use to determine the rotation of the planet. Jupiter's rotation period is about 10 hours and the Io orbital period is about 42 hours. So the planet's magnetic field is generating a ray back toward Earth due to the interaction between Jupiter's magnetic field and the moon Io. Other moons of Jupiter (such as Ganymede and Europa) also create radio emissions that can be detected on Earth.

Another project was the Radio JOVE project, which is still underway. This was a public outreach by citizen scientists using receivers at a frequency of 20.1 MHz. See the website <http://radiojove.gsfc.nasa.gov>. UF had a couple of 2 half-wavelength dipoles at 20.1MHz with a phasing cable that allowed operators to "direct" the beam. GA. But the reception area was still pretty wide, so you could still receive signals without directing the beam. Emissions can be observed both from Jupiter and from the Sun.

New system near Bronson, FL at the Rosemary Hill optical observatory. Now with a Terminated Folded Dipole (TFD) which uses a sweeping spectrograph. The antenna can observe frequencies between 18 and 30MHz. There are observatory locations in Bronson, High Spring, Murfreesboro, TN, Heliotown, NM, and Jasper, Group is planning to make observations during the total solar eclipse in 2024. Shadow will go from Mexico to western US, north to Canada. The antenna has four elements forming a square array that can be phased to direct the receiving beam.

Dr. Reyes is also involved with observing pulsars using an antenna array in Chile. The collapse of the Arecibo radio telescope in Puerto Rico due to hurricane damage. The NSF has made the decision that the whole structure must be taken down. The instrument panel collapsed into the dish on December 1, 2020, damaging the dish.

But there is a potential plan that came out in March 2021 to build 1,112 parabolic dishes in the same space which would be called the New Generation Arecibo Telescope (NGAT). This would cover more sky and with a wider range of frequencies

TARS Treasurer's Report

Submitted by Doug Ferrell, KD4MOJ, Treasurer

<u>Beginning Balances:</u>	30-Apr-21	1-Jan-21
Cash on hand	\$ -	\$ -
Checking Account:	\$ 4,901.32	\$ 3,876.41
Savings Account:	\$ 3,103.07	\$ 3,102.68
Total:	\$ 8,004.39	\$ 6,979.09

Summary of Month's Activity:

Total Receipts:	\$ 180.39	\$ 1,373.69
Total Expenditures:	\$ 345.82	\$ 513.82

Receipts Derived From:

Members Dues:	\$ 100.00	\$ 1,161.70
Fifty/Fifty	\$ -	\$ -
Donation (W6KBL & AG4K)	\$ 80.00	\$ 170.00
Veteran's Radio Fund	\$ -	\$ -
Field Day Radio Fund	\$ -	\$ -
Interest (Savings)	\$ 0.39	\$ 0.78
smile.amazon.com		\$ 41.21
Total	\$ 180.39	\$ 1,373.69

Expenditures:

American Red Cross:	\$ -	\$ -
Fifty-Fifty	\$ -	\$ -
ARRL Insurance	\$ -	\$ -
Spagetti 100 - TARC	\$ -	\$ -

TARS & Feathers	\$	-	\$	-
Plaque				
Storage & Supplies	\$	284.57	\$	284.57
Field Day	\$	-	\$	-
VE Expenses	\$	-	\$	-
Tower/Repeater	\$	-	\$	-
Maintenance				
Florida Dept of State	\$	61.25	\$	61.25
Post Office Box:	\$	-	\$	168.00
Total:	\$	345.82	\$	513.82

Transfer Checking -> Savings:

Ending Balances - Apr 30, 2021:

Cash on hand	\$	-	\$	-
Checking Account	\$	4,735.50	\$	4,735.50
Savings Account	\$	3,103.46	\$	3,103.46
Total	\$	7,838.96	\$	7,838.96

*Veteran's Radio Fund	\$	500.00
*Field Day Radio Fund	\$	697.00

Ham Happenings

May 2021 DX

It is possible that some of the listing stations canceled their plans due to the Corvis-19

From	To	Prefix	Call, () is the IOTA designation
01-May	???	FJ	FJ/K2LIO
01-May	01-Aug	TZ	TZ4AM
01-May	01-Jun	J2	J28PJ
01-May	01-Jun	JW	JW/LB2PG (EU-027)
01-May	01-May	OX	OX3LX (NA-151)
01-May	01-Nov	VU	AU2HFI
01-May	03-May	PJ2	PJ2ND

01-May 09-May I	II5RCH
01-May 10-Jun	JD1/M JG8NQG/JD1
01-May 15-Jun	YU YU51ANO
01-May 15-May	HC HC1MD/2
01-May 15-May	JW JW1I
01-May 16-May	F TM150PAR
01-May 16-May	XE 6D1A, 6D2A, 6D3A
01-May 18-May	ON OT30CRD
01-May 29-May	VK VI100AF
01-May 30-Aug	VP8/F VP8ZMS
01-May 30-Jun	DL DA21WARD
01-May 30-Jun	F TM8AA
01-May 30-Jun	IS II0QSE
01-May 30-Jun	TY ZS6JSI/TY
01-May 30-May	CE9 RI01ANT
01-May 30-May	VE VC3T
01-May 30-Nov	CE9 VK0PD
01-May 31-Aug	VK VK100AF
01-May 31-Dec	CE9 8J1RL
01-May 31-Dec	CE9 LU1ZG
01-May 31-Dec	VP8/SH DT8A
01-May 31-Dec	ZC4 ZC4GR
01-May 31-Jan	HL DS4DRE/4 (AS-060)
01-May 31-Jul	UA2 RK75AK, RK75FF, RK75FU
01-May 31-May	DL DQ100JL, DR100JL
01-May 31-May	HI HI9/F5PLR

DX sources - The Daily DX, 425 DX News, or DX Zone

FCG Frequent Contester Program (FCP) Monthly Report

May 2021

May RadioSport Highlights

Radiosports slow down a bit in May with only 11 activities listed.

There is only one major contest and a handful of smaller DX contests scheduled. The State QSO Party season is at full steam during the first week with four SQPs, but only one more the rest of the month. WA7BNM Contest Calendar still lists over 100 activities which should be more than enough to keep you busy depending on your interest – phone, CW or digital. You don't have to wait until the weekend to play – there are many small activities scheduled throughout the week in the evenings. These minor events are too numerous, too short, or too focused to warrant attention here. The more significant ones are described below.

Preview of May Weekends

May 1-2

This is a big weekend for state QSO parties. The four state QSO parties cover 421 counties in 17 states, so there is a huge opportunity to work a lot of multipliers. Propagation usually favors all four both on 20 meters during the day and 40 meters at night.

The 7th Call Area QSO Party is one of two state QSO parties (SQPs) that includes an entire call area. For the stations outside of the 7th call area, the overall number of counties worked is the score "multiplier", giving those operators a large incentive to seek out and work as many counties as possible. For the organizers of the 7QP, a key objective is to get as many of the 259 counties in these eight states (Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming) activated for at least some of the contest by promoting serious "roving" mobile operation and county-line stations, plus arm-twisting the casual-operator fixed stations in under-populated counties. The challenge is that the 7th call area includes many of the most sparsely populated counties of the United States!

The other call area QSO party is the New England QSO Party which is also held this weekend. The first call area is much more populated, and the sponsor expects to have all 67 counties active.

The Framingham Amateur Radio Association will award a Lobster dinner for two to the USA single op (non-New England) winner. Among the many other awards, there is a plaque for the highest scorer in any category from the W4 call area.

The Indiana QSO Party has 92 counties as multipliers.

Rounding out the weekend for QSO Parties is the Delaware QSO Party with just three counties. Delaware is allowing the FT8/FT4 modes this year, using the Field Day contest overlay. Delaware is the only QSO party this weekend that includes Sunday. It can be a challenge to get the two contacts needed to qualify for the State QSO Party Challenge.

Since most logging programs can only handle one contest at a time, anyone trying to do all four has a difficult time switching between logs. The solution for N1MM+ is the IN7QPNE -- all four rolled into one 'contest' log. To help promote this, the sponsors of all four parties agreed that since each had log checking software capable of determining which QSOs in a log counted for its contest, the entrant could submit the same log to all four sponsors. To accommodate this, the sponsors decided to use a five-character code consisting of the state followed by the three-character county designator. To enable operators to submit individual scores for the State QSO Party Challenge, a program was written to parse out the four QSO parties. This can be found on the SQP Challenge website (StateQSOParty.com). Both the IN7QPNE contest module and the parsing program can only be used with these four QSO parties.

If you are interested in DX rather than states and counties, the ARI International DX Contest is usually quite active. This is an anyone-works-anyone CW/SSB/RTTY contest with extra points for Italian stations. There are no points for your own country. The exchange is RS(T) plus serial number.

May 8-9

There are two DX contests this weekend. The CQ-M International DX Contest is a CW and SSB contest where the world works the world. Multipliers are countries/entities. The exchange is RS(T) and a serial number.

The Volta RTTY DX Contest honors the Italian discoverer of electricity, Alessandro Volta. It is a worldwide all-work-all contest. However, you get no points for your own call area, but you do get points for other call areas in your own country. If your callsign is from a different call area, please use the /x suffix to allow others to identify your actual call area. Multipliers are DXCC entities and each different call area worked in Australia, Canada, Japan, New Zealand and the USA. There is an additional multiplier for each intercontinental country worked on at least 4 bands. The exchange is RST plus a serial number plus your CQ Zone number.

This is another weekend with a State QSO Party. There won't be another one until June. The Arkansas QSO Party is CW, SSB and digital (PSK and RTTY). Sorry, they don't allow FT8/4 – yet. The 75 Arkansas counties count as multipliers.

May 15-16

There is only one contest this weekend. The His Majesty King of Spain CW Contest honors Juan Carlos who reigned as the King of Spain from 1975 to 2014. His amateur radio callsign is EA0JC. Multipliers are DXCC entities, the EADX entities and the 52 Spanish provinces. The exchange is RST and a serial number. The SSB version of this contest is in June.

May 22-24

The Baltic Contest is the only contest this weekend. It is a worldwide SSB and CW contest with a 20-point bonus for working stations in Estonia (ES), Latvia (YL) and Lithuania (LY). The

exchange is RS(T) and serial number.

Because of the pandemic, the Hamvention at Dayton is again being presented as a Virtual Hamvention this year. As part of that virtual event, there will again be a Hamvention QSO Party. This will be a SSB and CW contest with the first year that you attended Hamvention as part of the exchange, e.g., 599 1998. (If you have never attended Hamvention, send 2021 in place of the year). Logs are not collected. The competition is based on claimed scores collected by 3830Scores.com. Your score is the number of QSOs plus bonus points for working W8BI, the Dayton Amateur Radio Associations club call. This is a fun event intended to replace eyeball QSOs at Dayton with on-line friendly QSOs. Plus, you may work some Baltic Contest DX QSOs along the way.

May 29-30

The last weekend of May brings the only big one of the month – the CQ Worldwide WPX Contest, CW. The bands will be jammed for this one. Everyone can work everyone, even in the same country. The objective is to work as many prefixes as possible, which serve as multipliers. However, there are more points for working other countries and continents. Contacts on 160, 80 and 40 meters are worth more than the other bands. So, the strategy is to operate on bands where there is propagation to high-point-value and prefix-rich areas. The exchange is “599” and a serial number.

About Participating

Before participating in any of these contests or events, please familiarize yourself with the frequencies, exchanges, rules, etc. associated with the event. The WA7BNM Contest Calendar (<http://www.contestcalendar.com//index.html>) can provide most of the information, as well as a link to the contest’s home page, which will give you a “flavor” for the contest and let you know about any plaques or other special prizes like a bottle of wine or a frozen salmon.

If you are a new or casual tester, there is never a better time to start or return to testing than now. Pick one of the easier contests, such as an NAQP, a State QSO Party or many of the minor DX contests, and jump in. (No, first read the rules as suggested above.) You don't have to score a lot of points but do spend some time in the chair having fun. As you are enjoying the leisurely pace of one of these slower contests, picture it on steroids as a major contest with wall-to-wall stations all calling CQ. After it is completed, submit your log and report your activity on 3830Scores. Then check the schedule of contests to see what next weekend has in store for you.

Join the Online Scoreboard Fun. Testing has traditionally been a very lonely sport. You sit in your shack, make QSOs, and then find out how you did at the end. That requires a lot of self-motivation to keep going, particularly when conditions are poor. But now you can watch an online scoreboard while operating to see how you are doing compared to others.

The Florida Contest Group encourages you to link your log with an online scoreboard to include your score with other members of the Florida Contest Group. You can watch how you are doing compared with other members and see how FCG compares with other clubs. As more and more operators join the Online Scoreboards, contests become more enjoyable for everyone, regardless of whether you are competing for a top spot or just trying to beat a friend.

Please go to <https://contestonlinescore.com/blog/documents/> and follow instructions to register. The scoreboard works with several contest loggers. After registering on-line, follow your logger's instructions for linking to the scoreboard.

May 2021 Contest Schedule

Contest	Type	Weight	Date	Time	CW	SSB	RTTY	Digital
ARI International DX Contest	DX	5	1-May	1200Z	C	S	R	
7th Call Area QSO Party	QSO	7	1-May	1300Z	C	S	R	D
Indiana QSO Party	QSO	7	1-May	1600Z	C	S		
Delaware QSO Party	QSO	7	1-May	1700Z	C	S	R	D
New England QSO Party	QSO	7	1-May	2000Z	C	S	R	D
CQ-M International DX Contest	DX	5	8-May	1200Z	C	S		
VOLTA WW RTTY Contest	DX	5	8-May	1200Z			R	
Arkansas QSO Party	QSO	7	8-May	1400Z	C	S	R	No
			FT8/4					
His Maj. King of Spain Contest, CW	DX	5	15-May	1200Z	C			
Baltic Contest	DX	5	22-May	2100Z	C	S		
Hamvention QSO Party	--	--	22-May	1200Z	C	S		
CQ WW WPX Contest, CW	Major	10	29-May	0000Z	C			

Shortwave Listening

A few weeks ago, on the Capital District EMCOM Training net, Clay, W4LCR, gave an interesting talk on Shortwave Listening. It peaked my interest in this aspect of HF operations, so I thought I would expand a little on what he said

As the name suggests or implies shortwave listening is a receive only type of activity. It is reserved almost exclusively to the HF band, i.e., from 3-30 MHz although there is some interest in the very low frequencies below 300 KHz.

Theoretically all you need is a radio capable of receiving those frequencies and you are on your way. Of course, radio manufacturers have created a special niche and you can spend almost as much for a receiver as you would for a low end transceiver.

The real trick to shortwave listening is finding a station to listen to. That is a bit harder than you might suspect. While there are dozens and perhaps hundreds of radio stations populating the HF band, finding one in English can be a trick. If you want to polish you German, French, Vietnamese, Chinese, or Pashtu there are stations for you. Of course, there are several English speaking stations

The problem of finding, say, an English speaking station becomes harder because they are not necessarily on the air twenty hours a day. Several variables dictate their transmitting times. Many of them broadcast to a specific area and they have

sophisticated antennas that will focus most of the radio energy in the direction they want. Unless you are in their cone you may be unable to hear them. For example, Voice of America has a transmitter that broadcasts only to Cuba, and in Spanish. So, you may not hear that if you are in Tallahassee simply because you are in the opposite direction than the station is transmitting on.

Also, these stations may transmit during only certain parts of the day, depending on the propagation to their target area.

None the less there are some stations that have a universal or nonspecific area of interest, and they can be fun to listen to. Radio Moscow, for example has English speaking segments. As I recall they had a station on, about, 7.100 MHz, so it was one that had a natural attraction. As you might expect it had a different view of the world than the United States, and during the Vietnam war in the 60s they provided a different view of that conflict than the 6 p.m. o'clock news with Walter Cronkite did.

Many of these stations are interested in knowing how they are getting out. You can send them a report of the time of day, frequency and a signal report. Often they will respond with a QSL. Some are works of art and anyone would be proud to have it on his or her wall.

A couple of websites will help you get going if you want to pursue Short wave listening.

Swling.com

Dxing.com

The World Radio TV Handbook, also known as WRTH, is a directory of virtually every radio and TV station on Earth, published yearly. is very comprehensive and packed with frequency listings and information. In particular, the International radio section provides a full, comprehensive listing of Short Wave broadcasters and clandestine stations, the last being worthy of another article.

Glenn Hauser on YouTube, is the "go to" guy for SW listening His World of Radio shows are informative and highlight all of the current activity and news reported on the SW bands

So, even though it is hard to believe, you may want a break from ham radio try just listening to what is going on outside the

ham bands. It is fascinating.



TARS Officers

Don Pace KK4SIH President dgpac @yahoo.com @hotmail.com	Todd Clark KN4FCC Vice President KN4FDCC @ARRL.net	Tom Brooks K4TB Secretary K4TB @earthlink.net	Doug Ferrell KD4MOJ Treasurer KD4MOJ@ KD4MOJ.org	Bob Clark K9HVW Board Member at large K9HVW@ARRL.net
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TARS COMMITTEES/COORDINATORS

Repeater Trustee: Randy Pierce AG4UU

Assistant: Doug Ferrell KD4MOJ

K4TLH Callsign Trustee: Dave Miner W4SKG

Equipment Manager: Vacant

Education: Phil Ashler N4IPH

Testing Coordinator: Norm Scholer K4GFD

Repeaters Capital Area Region

Location	County	Call Sign	Backup Power	Digital Mode	Output Freq	PL	Special Configuration	Height ft.
Crawfordville	Wakulla	K4WAK	No		145.450 -	94.8		300
Crawfordville	Wakulla	KB5IKR	Yes	Fusion	444.450 +	94.8	Yaesu System Fusion C4FM WIREX Connected (Auto)	400
Crawfordville	Wakulla			Fusion	442.850 +	94.8	Yaesu System Fusion (Auto)	
Greensboro	Gadsden	NX4DN		Fusion	147.390 +	94.8	Yaesu System Fusion DCR 023 WIREX Connected (Auto)	300
Greensboro	Gadsden	NX4DN		NXDN	444.125 +	94.8	NXDN World Wide Network	300
Monticello	Jefferson	WX4JEF	No		145.430 -	94.8		270
Quincy	Gadsden	W4EAF	Yes		147.165+	94.8		250
Tallahassee	Leon	AE4S	Yes	P-25	146.655 -	94.8		550
Tallahassee	Leon	N4PG	Yes		146.610 -	203.5		200
Tallahassee	Leon	K4TLH	Yes	P-25	146.910 -	94.8	Temp TARS Talk-In	375
Tallahassee	Leon	K4TLH	Yes		147.030 +	94.8		750
Tallahassee	Leon	KA4EOC	Yes		147.285 +	94.8		350
Tallahassee	Leon	K4TLH	Yes		442.100 +	94.8	Statewide Amateur Radio Net (SARNet) See Next Page	600
Tallahassee	Leon	K4TLH	No		442.850 +	94.8		275
Tallahassee	Leon	KJ4G	Yes		443.400 +	131.8	Host of Echolink Node #3950	575
Tallahassee	Leon			Fusion	444.850 +	94.8	Yaesu System Fusion (Auto)	
Tallahassee	Leon	AE4S	Yes	P-25	443.950 +	94.8		550
Tallahassee	Leon	N4NKV	Yes		444.400 +	131.8	NXDN World Wide Network	CRMC (200)
Tallahassee	Leon	KD4MOJ	Yes		444.000 +	94.8		T3H3 (200)
Tallahassee	Leon	NX4DN		NXDN	444.175 +	94.8	NXDN World Wide Network	175
Tallahassee	Leon	NF4DG	Yes	D-Star	146.835 -	DV		180
Tallahassee	Leon	NF4DG	Yes	D-Star	443.450 +	DV		180
Tallahassee	Leon	NF4DG	Yes	D-Star	1293 -	DV		180
Tallahassee	Leon	NF4DG	Yes	D-Star	1253	DD		180
Wacissa	Jefferson	K4TLH	No		147.800	94.8		300
Wacissa	Jefferson			Fusion	444.950 +	94.8	Yaesu System Fusion (Auto)	
Thomasville	Thomas				145.370 -	141.3		
Thomasville	Thomas				442.600 +	141.3		
Reno	Grady	KE4URL	Yes		145.170 -	141.3		600

The most current repeater list is available on the TARS website:

www.k4tlh.net/repeaters

For *SARNet* information (Locations, Repeaters and operational status) visit:

<http://www.sarnetfl.com/>

Regional Nets

TARS News & Information Net	Thursday • 8 PM EST (not 1 st Thrs.)	147.030 MHz, K4TLH + 600, 94.8
North Florida Amateur Radio EmComm Net	Daily • 9:00 AM ET except Sunday	3950 kHz
Capital District EmComm Training Net	Sunday • 7:30 PM ET	147.030 MHz, K4TLH + 600, 94.8
Capital District ARES Net	Sunday • 8 PM ET	147.030 MHz, K4TLH + 600, 94.8
Leon County ARES Net	Tuesday • 8:15 PM ET	147.030 MHz, K4TLH + 600, 94.8
Florida Phone Traffic Net	Daily • 6:55 AM ET	3940 kHz
Florida Midday Traffic Net	Daily • Noon ET	7242 kHz
North Florida Phone Net	Daily • 7:30 PM ET	3950 kHz
North Florida Digital Net	Sunday • 7 PM ET	3590 kHz PSK-31 Mode
TARC Thursday Night Net	Thursday • 8 PM ET	147.060 MHz, + 600, 141.3
Thomas County ARES Net	Thursday • 7:30 PM ET	147.060 MHz, + 600, 141.3
Grady County ARES Net	Tuesday • 7:30 PM ET	145.170 MHz, - 600, 141.3
North Florida 6M SSB Net	Sunday • 8:30 PM ET	50.150 MHz
Morse Code Practice Net (Informal / Open) 5-15 WPM	Wednesday (or any day) 8:30 – 9:30 PM ET	28.114 MHz CW Mode
Morning Drive-Time Net (Informal)	Mon-Fri • 7:30 – 9:00 AM ET	147.030 MHz, K4TLH
Southwest Georgia HF Weather Net	Third Thursday 7:30 PM ET (or after GA SSB Net)	WX4TAE, 3975 kHz (+/-)
Southwest Georgia ARES Net	Thursday • 9 PM ET	145.170 MHz, + 600, 141.3
SKYWARN Net	First Sunday • 7:30 PM ET	WX4TAE, 3810 kHz (+/-)

Some nets have been inactive for some time, however, individuals are encouraged to re-activate these nets as guest net controls.

Have any **corrections** or **additions**? Contact Dave at davedavis1@embarqmail.com prior to the 20th of the month to make changes.



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Tallahassee Amateur Radio Society

New Membership / Renewal Form

Updated 11/3/16

This form can be used for new members or for renewals. If you have not changed any information from last year, merely complete the form with your name, indicate your member type and ARRL membership status and make payment to TARS.

Membership Status:

- **Individual:** Single member; full voting privileges.
- **Family:** Single member, plus participating family members residing at the same address; all members have full voting privileges. Complete a form for each member.
- **Student:** Free for students (elementary school through college) with ID; all rights and privileges except voting.
- **Introductory:** Free until the end of year (next year for December) for anyone who passed Amateur Licensing Exam facilitated by TARS; all rights and privileges except voting.

If no personal information has changed, current memberships can be renewed simply by making payment to TARS.

You must be a licensed Amateur Radio operator to join the Society; however, any non-licensed radio enthusiast may attend the TARS business meetings and functions. Membership dues for the Tallahassee Amateur Radio Society are only **\$20 per individual or family** (complete a form for each family member.) **Students** (with valid ID) can join for free!

Membership is per calendar year and the deadline for paying dues for renewing membership is February 20th. Individuals wishing to reinstate their expired membership status must reapply and pay full dues (\$20) for the current year. TARS is a "not-for-profit" organization and dues are used to help defray the cost of repeater maintenance and TARS events. Most of TARS's revenue is derived from donations, which are gladly accepted.

Please make your dues check payable to the **Tallahassee Amateur Radio Society** (or **TARS**) and include your telephone number on the check. Bring your check (or cash) along with the completed form provided below (including e-mail address please) to the next monthly TARS business meeting and give it to the Treasurer - or mail your check and completed form to:

Tallahassee Amateur Radio Society, C/O Treasurer, P. O. Box 37127, Tallahassee, FL, 32315

Name:		Call Sign:	
Address:			
			Date: / / 20__
City:		State:	Zip: -
Member Type: <input type="checkbox"/> Individual <input type="checkbox"/> Family <input type="checkbox"/> Student <input type="checkbox"/> Introductory (Check One)			
Home Phone: () -		Work Phone: () -	
Cell Phone: () -			
E-Mail Address:			
ARRL Member: <input type="checkbox"/> Yes <input type="checkbox"/> No		"Elmer": <input type="checkbox"/> I would like a ham mentor <input type="checkbox"/> I can be a ham mentor	
<small>Tallahassee Amateur Radio Society THE PRINTED CIRCUIT April 2017 25</small>			
Interests: <input type="checkbox"/> EmComm <input type="checkbox"/> Contest <input type="checkbox"/> Phone <input type="checkbox"/> Digital <input type="checkbox"/> CW Other: _____			

Updates of Information If you are aware of any updates, changes or corrections to any of the information in this newsletter such as news write-ups, information about our neighboring clubs, local nets, repeaters, frequencies or etc., please forward that information to us at TallyAmateurRadio@Gmail.com or Dave Davis, WA4WES, (Editor in Chief) at davedavus1@embarqmail.com for inclusion, retraction or correction in future newsletters publications. Corrections and additions cannot be reflected until the following month's edition.

At NO Cost The Printed Circuit is provided as a service **FOR FREE!** Articles and content are written and edited on a volunteer basis. Please consider the large amounts of time each month put into making these newsletters a "great read." Monetary contributions are encouraged to be made to the Tallahassee Amateur Radio Society, Inc., which depends on your support. You may also consider donating your time and talents by writing for The Printed Circuit or submitting material or information to be considered for publication. The Printed Circuit is MORE than just a club newsletter!

Distribution The Printed Circuit is distributed via **gmail** account via a PRIVATE BCC recipient list, generally one week prior to the following TARS business meeting. **Re-Distribution IS ENCOURAGED**, however you may consider sending us any new addresses for interested recipients (with their authorization.) Back issues and past articles organized by topic can be readily found at <http://k4tlh.net/tars-newsletter/> and <http://k4tlh.net/index-of-newsletter-articles/>

E-mail Addresses Please forward any additions or changes of e-mail addresses for delivery of the Newsletter to the TARS email address: TallyAmateurRadio@Gmail.com , or Dave Davis, WA4WES, (Editor in Chief) at davedavus1@embarqmail.com. Also, notify us if you wish to no longer receive the newsletter and would like to have your address removed.

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73,

Dave
WA4WES
Printed Circuit Editor