



The Bullsheet

The Official News Bulletin of
The Texas DX Society
An ARRL Affiliated Club

The Texas DX Society, Houston TX K5DX@tdxs.net December 2018

TDXS Monthly Meeting (was):

TDXS pre-meeting Dinner: Thursday Dec 13 at 5:30PM

**Pappas Bar-B-Q
9797 Westcenter Dr.
Houston TX 77042**

TDXS Monthly Meeting: Thursday Dec 13 at 7:00PM

Program "DXLabs Logging Software - Review" by Robie AJ4F

**Tracy Gee Center
3599 Westcenter Dr.
Houston TX 77042**

Editor's Note by Allen Brier N5XZ

This newsletter is coming out late, for which I apologize. One thing led to another, and another and another and, well I just plain FORGOT! My bad. (Probably) won't happen again!

As I write this I see that I also missed the ARRL 10 Meter contest, which is really my favorite contest of the year. I see a number of TDXSers entered despite the extremely poor conditions, and Chuck, W5PR still managed to make a net 582 QSOs! Congrats to Chuck and to all those who entered.

TDXS Meetings will officially shift to the THIRD THURSDAY as of next year, to allow for members of multiple clubs to go to both meetings if they wish. The clash has been an issue for a long, long time and hopefully there

will be more attendance at BOTH meetings going forward.

Weather conditions continue to get colder these days and tower / antenna work has slowed down. But some are still taking care of business. Pat KJ5Y is planning to put up a very big beam or two on a very large (make that high) tower. Those of us who use Pat's remotes are looking forward to seeing how it performs. He also had to replace a rotator on his 100 foot tower down south, and hopefully that has been taken care of.

As most of you know, Jan Carman, K5MA, TDXS #12 passed away in mid November. He will be missed.

Not much more to report from this end. If anyone has news or tidbits that they would like

for me to include in the Bullsheet, just let me know. That could include personal biographies if you haven't been already featured. The rest of the club would surely like to know more about the rest of the membership.

73 Allen 'XZ

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Please...if you read this and are a member of TDXS, we want to know more about you! PLEASE send me a biography of your ham life, equipment, accomplishments, regrets, wants, needs, etc. Pictures also, please!

The Prez Sez by Robie, AJ4F

The Prez Sez

December 2018

I want to take this opportunity to wish all the TDXS members, their families and friends a Merry Christmas and happy holidays! This is a joyous time of year and we all look forward to sending time with our loved ones!

The Ole' Codgers dinner was a great success. I really enjoyed conversing with those who attended and sharing stories with them. It was obvious from the activity level of the crowd that everyone was having a good time and I received very positive feedback from several attendees. I want to thank Orville – K5VWW for putting this one together! It takes some effort to make an event successful and the requirements are changing. In the past it was relatively easy to find a location that would provide a private (or at least partially so) room, allow the guests to order from the regular menu and pay individually. This is the ideal arrangement. However, to get a private room now, most restaurants now require that we make an upfront payment to secure the date, guarantee a minimum purchase, order from a restricted menu and make a single payment including (except for the bar tab). For future events we will let you know the situation as far in advance as possible. Please provide feedback on places you feel would be good choices, especially if you have participated in successful events there previously.

WSJT-X has made a significant impact on ham radio this past year. Its popularity has skyrocketed especially since the conditions on the high bands have been so poor. WSJT-X has provided hams with a way to make DX contacts under less than ideal conditions and has brought many hams off the sidelines and back into the game. Version 1.9.1 was significant because of the DXpedition mode which allowed much higher QSO rates when used by rare entities. Feedback from hams like us to the developers indicated a desire for contesting capabilities which lead to the development of WSJT-X version 2. There have been several beta releases (release candidates) over the past several months. Each release candidate has had increasing capabilities moving toward the general release. The full release (GA) Version 2 of the WSJT-X software is scheduled for release on December 10, 2018. With every change there are consequences intended and non-intended. The additional functionality required additional data to be transmitted in each cycle. This meant an increase in the number of data bit from 75 in release 1.9.1 to 77 in 2.0. This means that the two versions are incompatible. WSJT-X rc3 utilized 75 bits, rc3 allowed you to select between 75 and 77 bits, where rc5 is only 77 bits. If you have tried rc5 you most likely noticed fewer decodes and QSOs because only a small number of hams have "upgraded" to rc5. WSJT-X 2.0 GA Full Release is scheduled for release 12/10/18. WSJT-X rc5 expires (no longer operates) after 12/31/18 so you will be required to either continue to use version 1.9.1 (75 bit) or move to 2.0 (77 bit). All future releases will be 77 bit. So make plans to transition to 2.0 as soon as practical.

We have a call to action as it appears the FCC may act on NPRM 16-239 in the very near future. All Amateur operators need to immediately file thoughtful, well -reasoned, succinct responses at the FCC ECFS, asking the Commission to DISMISS the FCC's ill-conceived proposal for unlimited wideband HF data, NPRM 16-239, from being considered further. AI – N5XZ posted an e-mail on the TDXS reflector on 11/17/18 that provides the necessary details on making comments.

73,

Robie – AJ4F

TDXS Meeting Minutes by Doug Seyler WB5TKI

TDXS November 2018 Meeting Minutes

The Old Codgers Dinner

Date: November 10, 2018

Location: Hickory Hollow Restaurant, Houston, TX

Attendance: Members: Doug WB5TKI, Larry KB5WWW, Keith NM5G, Orville K5VWW, Bob N5ET, Jerry K9GEM, Scott K5DD, Robie AJ4F, Ron K5LLL, Kim K5TU, Wes N5WW, Randy KR5LM, Richard K5NA, Dale KG5U, Alex WA5UHT

Guests: Lynn Seyler (XYL of WB5TKI), Beth Dutson (XYL of NM5G), Janice Muller (XYL of K9GEM), Verna Patout (XYL of K5DD), Kitty Marosko K5KAT (XYL of K5LLL), Terresa (friend of N5ET), Patricia Stalinsky (XYL of WA5UHT), Susan King K5DU (XYL of K5NA, Ellie Whiddon (XYL of N5WW)

November was our annual Old Codgers Dinner, where we honor the early members of TDXS. It was held at the Pappadeux Seafood Kitchen on Westheimer in Houston. Among those early members in attendance were Richards King K5NA (#1), Wes Whiddon N5WW (#2) and Alex Stalinsky WA5UHT (#3). At the other end of the roster was one of our newest members, Larry Daze KB5WWW (#214).

We had a private room and several servers. The food was great and the conversation was lively. If you weren't there you missed a good one.

The next meeting will be a regular one at the Tracy Gee Community Center. The program will be presented by President Robie. He will discuss and demo the DX Labs suite of programs.

73,

Submitted December 4, 2018

Doug Seyler WB5TKI

TDXS Secretary



DX Report by Orville Burg K5VWW

DX Report by Orville Burg, K5VWW

December appears to be a continuation of planned ZERO Sunspot numbers but the low bands are improving! The ARRL 160M CW was great.

The hottest DXpedition coming up is **Macao, XX9D from** February 11-26. They will be on CW, SSB, RTTY and FT8 on all bands from 160M through 10M. There will be 4 stations on the air 24 hours a day with 15 operators

Actual dates of the proposed **Bouvet Island** operation, **3YØI**, being planned have not been announced. There are a group of participants in South Africa making preparations and training for Antarctic operation..

Chatham Islands - **ZL7/JA0JHQ**, Nobu, has announced a January 17-20 operation, mainly concentrating on 160.

9M2 - West Malaysia will be activated by PA0RRS, Rich, 9M2MRS from Penang Island, from January 2-February 15. He will be on CW, RTTY, PSK and FT8 on HF.

YJ - Vanuatu - VK4AFU will have the YJ0AFU call sign active on the air from Efate, and nearby Iririki, December 25 to January 8. Most of his time will be on FT8 with some CW, SSB and WSPR, focusing on 160 and 80 the first week.

9L - Sierra Leone is planned for January 9-21, using the call **9LY1JM** from Banana Island, AF-037 see <https://9l2019dx.wordpress.com/>. 12 ops will be on 160-10M CW, SSB, RTTY, PSK and FT8 Fox and Hound mode with 4 rigs.

Please note that the new **WSJT-X General Release 2.0** will be available on **December 10th**. Operation will **not** be backward compatible with previous releases of FT-8 including 1.9.1. Decoding of previous versions will not be possible using the new standard release. DXpeditions will be using the new Fox/Hound mode of 2.0. Installation of both 1.9.1 and 2.0 is possible using different folders which would allow both versions to be decoded.

Very interesting elaboration of the **TT8KO** story by **Ken, LA7GIA**, can be found at: <http://la7gia.com/Chad/tt8ko%20story.html>. Such are the trials and tribulations of DXing in third world countries.

Good DX,
Orville, K5VWW

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Contest Chairman Report—by Jim Burrough N5DTT

Hello again. It has been a busy month for contests. Almost every week end there has been an opportunity to participate in one contest or another. The results of the Society’s efforts, as reported in the 3830scores website, are provided at the bottom of this month’s report.

We are going to start something new this month. As Contest Chairman, I need to be a cheerleader to motivate the Society members to participate more in the major contests, especially those contests that have Club Competitions. While the CQ Contests do not seem to have minimum levels of participation, the ARRL Contests do. We have a group of about 7 who are rather consistent contesters who participate in almost every major contest. We have another group that tend to participate less often but rally when called upon to provide a log to reach the “magic 11” that we need to be classified as a Medium Club in ARRL Club Competitions. Most of the rest of the membership seem to not participate in many contests.

The things I can do as Contest Chairman are somewhat limited. But one thing I can do is remind the membership that a contest is coming. At least that will eliminate the claim that “I did not know”. So, beginning next month, the first entry in my monthly report will be a reminder of the contests coming up that month.

For your information, here is a list of ARRL Contests with Club Competitions:

January VHF Contest

RTTY Roundup (January)

International DX Contest (February and March)

June VHF Contest

222 MHz and Up Distance Contest

September VHF Contest

November Sweepstakes

160-Meter Contest

10-Meter Contest

Another thing I will do is aggressively pursue commitments to participate in the ARRL contests with Club Competitions. We need to be classified as a Medium Club for us to be able to use STX as our area rather than be restricted to a 175-mile circle around our club mid-point. We have some great contesters with stations near or outside the 175-mile boundary that we need to keep on our score list. The ARRL 160 Meter contest is the next major contest but it is possible we do not have 11 members with 160 capability. I may be wrong, so please get on the air and send in a log if you can. After that, we have the ARRL 10-meter contest. We can easily get 11 people with that capability. I will send out messages to all members and will encourage commitments to participate and to send in a log.

December Contests

November 30 - December 1 ARRL 160 Meter Contest

December 8 -9 ARRL 10-Meter Contest



Contest Chairman Report—by Jim Burrough N5DTT

Here are the results of TDXS member Contest participation last month.

CQ Worldwide - SSB

SO(A)AB HP

Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
K5GN(@W5KU)			1113	124	317	21	1,135,134	TDXS

SOAB HP

Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
N5DD			234	66	143		135,223	TDXS
KI5LR			221	65	126	18	101,612	TDXS
KB5WWW			195	52	112	12	82,984	TDXS

SOAB Classic HP

Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
KB5WWW			195	52	112	12	82,984	TDXS

SOSB10 HP

Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
W5PR			201	15	31		23,920	TDXS

ARRL Sweepstakes - CW

Single Op HP

Call	SO2R	Remote	QSOs	Sections	Op Time	Score	Club
K5TU			555	79	8.8	87,690	TDXS
KØNM		x x	302	70	6	42,280	TDXS

Single Op LP

Call	SO2R	Remote	QSOs	Sections	Op Time	Score	Club
AJ4F			326	68		44,336	TDXS
KI5LR			265	73	14	38,690	TDXS

ARRL Sweepstakes – SSB

Single Op LP

Call	SO2R	Remote	QSOs	Sections	Op Time	Score	Club
KI5LR			281	80	13.5	44,960	TDXS



Contest Chairman Report—by Jim Burrough N5DTT

N5DTT	77	53		6.5		8,162	TDXS	
CQ Worldwide – CW								
SO(A)AB HP								
Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
N5DD			154	44	124		70,728	TDXS
SO(A)AB Classic HP								
Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
KØYY			99	40	76		30,508	TDXS
SO(A)AB LP								
Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
AJ4F			158	53	89		56,232	TDXS
W3RZ			15	7	6	2	91	TDXS
SO(A)SB160 HP								
Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
W5PR			11	5	8	.75	325	TDXS
SOAB HP								
Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
K5TU			752	90	251	16.1	725,648	TDXS
KØNM	x	x	465	80	182	21	316,758	TDXS
WB5TKI			200	47	112		88,086	TDXS
SOAB LP								
Call	SO2R	Remote	QSOs	Zones	Countries	Op Time	Score	Club
N5DTT			46	14	32	6	5,382	TDXS

Have a Merry Christmas and a Happy New Year.

Jim, N5DTT



Where in the World Is...by Ron Litt K5HM

Eswatini (3DA) CQ Zone 38 ITU Zone 57



Eswatini what? Sounds like one of those smartphone apps. No, you won't find it on any DXCC list. At least not just yet.

The Kingdom of Eswatini is one of the world's last remaining absolute monarchies. The king rules by decree over his million subjects, most of whom live in the countryside and follow traditional ways of life. Eswatini, formerly known as Swaziland is a landlocked nation in southern Africa, surrounded on three sides by South Africa and on the east by Mozambique.

King Mswati III was crowned in 1986 at the age of 18, succeeding his father. The king, who is known as Ngweyama - "the lion" - often appears in public in traditional dress and has many wives (currently 15).



He has been criticized for his heavy-handed treatment of opponents. The king frequently raids the treasury for money to pay for his passions, palaces and luxury cars. On his birthday in 2018, the king announced that the country, hitherto known as Swaziland, would henceforth be called Eswatini, a move that was made without consulting his ministers. This resulted in panicked changes in new bank notes, postage, official documents and signage. The nation's constitution uses Swaziland in more than 200 places. License plates and internet domain names, the country's airline, Swaziland Airlink is also affected. It's good to be king, right?



Not so fast. According to UNICEF Eswatini has the highest HIV prevalence rate in the world. The HIV-Aids virus has killed countless Swazis who have left behind thousands of orphans. Some 210,000 people, out of a population of 1.2 million, are estimated to be living with HIV.

The *Umhlanga*, a Swazi cultural tradition that celebrates chastity and virginity, attracts tens of thousands of women from across the country. On the final day of the festival, the young women, or "maidens", parade bare-breasted at the royal village. Traditionally, the king can choose one of the women as a wife. Families who don't send their daughters to the *Umhlanga* have to pay a fine, usually a goat or a cow.

Where in the World Is...by Ron Litt K5HM

To mitigate the HIV and AIDS pandemic in 2001, the king used his traditional powers and invoked a time-honored chastity rite, which encouraged all Swazi maidens to abstain from sexual relations for five years. This rite banned sexual relations for Swazis under 18 years of age but just two months after imposing the ban, he violated his own decree when a royal fiancée was chosen, who became his 13th wife. As per custom, he was fined a cow, which he duly paid.

The currency of Eswatini is called the **lilangeni** (plural: "emalangeni"). It is tied to the South African rand at par. Shops in Eswatini usually accept and make change for both currencies indiscriminately where banknotes are concerned, but not coins. However, this is not the case in **South Africa**. All Swazi vendors will take rand, but no South African vendors will take emalangeni. The South African rand is worth about \$0.07 or about 14 rand to the dollar. So, make sure you have plenty of rand when you visit the local Swazi store for an ice-cold Coca Cola.

Many Western foods are available in Swazi grocery stores, but traditional foods are still common. Maize-based dishes are popular, and mealie or pap (like porridge) is a staple. Beans, groundnuts, pumpkin, avocado and sour milk are also common ingredients. Dried and cooked local meats, such as antelope (often called 'wild meat' by locals), are widely available at tourist restaurants.

"Chicken dust" is a cheap local BBQ meal; usually chicken grilled in the open served with a salad and porridge. Take appropriate precautions.



The QRZ search yielded 89 call signs. Most are overwhelmingly foreigners visiting on business or for humanitarian work and well as several formal DX-peditions. One of these was 3DA0CF, our own Charles "Frosty" Frost, K5LBU (SK). 3DA0RS is the call sign of the Radio Society of Swaziland. Due to the small number of fully licensed operators, there is no official QSL bureau in Eswatini.

Swaziland; er . . . Eswatini is 134th on the Club Log DXCC Most wanted list.

Reporting from the Dark Side,
Ron, K5HM

73eeeeeezzz...by Ron Litt K5HM

73, the time-honored end to every QSO. It has been maligned, corrupted and talked about down through the years of Ham History. Whether one prefers 73 or whatever variation on the theme, it's the feeling that counts.

Some operators have expanded on the word, if you can call it that. It is a number that seems to have evolved to a phrase but is not yet a complete sentence. Like Best 73 or Very 73, to emphasize that we **REALLY** mean it. Is that a level of sincerity greater than 73? The last time someone was that sincere, I was checking to be sure I still had my wallet.

At the beginning of the 20th century, people were a lot more graceful and courteous. 73 was a sincere expression of thanks for a good conversation. We are not that formal anymore and it seems that just plain old 73 is no longer enough.

Lately, I've been experimenting with 73 in hopes of conveying a more accurate expression of sincerity. After all, if 73 means "best regards" then should 73s mean "best best regards regards" or "best regards best regards" or even "best regardses?" Is that even a word? How many times do you repeat best regards when you mean 73s? Perhaps 73s should mean more plurals than two. The degree of your sincerity is hard to express this way.

1	* Wait a minute.	25	Busy on another wire.
2	Very Important.	26	* Put on ground wire.
3	* What time is it?	27	* Priority, very important.
4	Where shall I go ahead?	28	* Do you get my writing?.
5	Anything? (Have you business for me?)	29	* Private, deliver in sealed envelope.
6	* I am ready.	30	* No more - the end.
7	* Are you ready?	31	Form 31 train order.
8	Close your key, stop breaking.	32	* I understand that I am to
9	* Priority business. Wire Chief's call.	33	Answer is paid.
10	* Keep this circuit closed.	34	* Message for all officers.
12	* Do you understand?	35	* You may use my signal to answer this.
13	Understand?	37	* Inform all interested.
14	* What is the weather?	39	* Important, with priority on through wire.
15	* For you and others to copy.	44	* Answer promptly by wire.
17	* Lightning here.	55	Important.
18	What's the trouble?	73	Best Regards.
19	Form 19 train order.	77	* I have a message for you.
21	* Stop for meal.	88	* Love and kisses.
22	Wire test.	91	* Superintendent's signal.
23	* All stations copy.	92	Deliver Promptly.
24	* Repeat this back.	134	* Who is at the key?

Amateurs didn't invent 73. We borrowed it, along with other convenient numbers for use in passing messages. Thank Walter Phillips, a journalist and telegraph operator for the Associated Press.

Expert telegraph operators often used numbers to save time and cost when sending long messages. The most well-known of these was the **92 Code** adopted by [Western Union](#) in 1859.

In 1879 Phillips included these and a host of other word shorthand, including the now famous POTUS and SCOTUS as part of his Phillips Telegraphic Code. Included were various codes for handy phrases like; 73, "best regards" 30, "good night" and 22 for "love and kisses."

By 1905, the Navy adopted many of these codes and along the way, promoted "love and kisses" from 22 to 88. Nobody knows exactly when or

why this happened. Perhaps sailors placed more importance on romance. 73 and 88 remained the most used number codes and eventually they made the leap from CW to radiotelephone vernacular.



73eeeeeezzz...by Ron Litt K5HM

Now a part of Hamspeak, we use 73 to end a contact, send good feelings and confound those who are unlicensed. Hams have all sorts of ways to use 73 at the end of a QSO; 73s or Best 73s being the most often heard on the air.

Don't get me wrong. I'm not a stickler for ham grammar or any other grammar. I'm from New York where English is merely a subject taught in school. Understanding "Street English" requires total immersion for a period.

I understand 73 but the plural form, 73s is confusing. Do you mean 73 73? Or 73 73 73 73 73 73 73 73 73 73 73 73 73 73? Just how many times is 73 repeated in 73s?

If I spell 73's with an apostrophe, it becomes the possessive form of a word, like "My best regards". Perhaps that is better in meaning but 73s and 73's sound the same on sideband and the nuance is lost. And what CW operator will use an apostrophe anyway?

About now, I can hear my third-grade teacher, Mrs. Goldblatt screaming at me from the beyond. "I can talk until I'm blue in the face and I can't seem to get through to you. 73 is a number and can't be conjugated!" Mrs. Goldblatt was a professional level screamer and when she got wound up, she really could get blue in the face.

After a polite but uninteresting contact I tried using half of 73. I might end it with just "7" or "7's" or even "3". Polite but not over the top. Too often though, the operator on the other end missed the point entirely and saw it as just QSB. "You faded away, there OM but thanks for a great contact and best 73's."

As an engineer, I tried using 73 with more mathematical precision to more accurately convey the level of my feelings. After a not very interesting contact, instead of "7", I will say 36.5, meaning polite but half-hearted sincerity. After a good QSO, 146. This allows the use of the full range of numerical values. It just depends on how I feel.

These days, I am working on a more rigorous approach. I developed what I call the Sincerity Index (S) to guide me in my use of 73. I added it as a custom field to my logbook to track the Sincerity Index for every contact. Where S = any positive number. So, a better way to express the feeling in your 73 is to say 73(S) where S = the Sincerity Index for this QSO; the number of times you want to repeat Best Regards. That way people can see how you really feel. If you say 73, that is mildly sincere. 73(10); that is super sincere.

If $S < 0$, it might look like an insult to some, so I limited the Sincerity Index only to positive numbers. After all, it is a hobby. On the other hand, if you set the value of S too high, like $S=100$, people will think you are making fun of them and they'll be insulted anyway.

The great comedian Don Rickles said, "There is a delicate balance between sincerity and ridicule." He should know.

So, have fun with it and 73eeeeeezzz!

Reporting from the Dark Side,
Ron, K5HM



Jam Carman K5MA TDXS #12—SK

R. Jan Carman

Ham radio operator Richard Jan Carman, 76, of West Falmouth died November 13, 2018 at Bridges by Epoch memory care facility in Mashpee, MA.



He was the husband of Sarah J. Carman.

The only son of Lloyd P. Carman and Colleen (Ball) Carman, he was born in Philadelphia and grew up spending summers on this parents' Friendship sloop on the nearby Sasfras River.

Known as Jan, Mr. Carman obtained his first amateur radio operator's license at age 14 and maintained the hobby until Alzheimer's disease interfered. He was a DXer and contester.

He graduated from high school in Yeadon, Pennsylvania, and went on to earn both a **bachelor's and master's degrees in electrical engineering from the University of Pennsylvania.**

While at the university, he played trumpet and was a member of the marching band.

Upon graduation, Mr. Carman accepted a position with the Martin Marietta Corporation in Baltimore, designing and testing marine equipment for government and commercial endeavors.

The unit was purchased in the mid-1960's by **Cameron Iron Works, an oil field equipment manufacturer,** and Mr. Carman moved to Houston, Texas. He traveled the world – from Brazil to Bali,

including a visit to Tehran in the late 1970's – representing the company. In 1983, he joined Ferranti ORE, which used to be in Falmouth, MA.

Four years ago, he adopted a rescued dachshund, Molly.

In addition to his second wife, he leaves his son, Christopher J. Carman of Glasgow, Scotland; two daughters and their husbands, Kendal L. and John Hinchey and Rebecca L. and Zachary Kraft, all of Lancaster, Pennsylvania; a grandson, Mason P. Carman; and four granddaughters, Riley Kraft, Emma Hinchey, Ella Hinchey, and McKenna Kraft.



Jan Carman, WN3JXS at his Yeadon, PA station (circa 1957)



Texas DX Society Board members

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VP Programs	Open	
Secretary	Doug Seyler, WB5TKI	djseyler at comcast.net
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CQ WAZ Card Checker	Bob Walworth, N5ET	rwalworth at charter.net

How to reach US

On the World Wide Web <http://www.tdxs.net> email address: k5dx@tdxs.net

On 2 Meters: 147.96/36 MHz (100 Hz) On 70cm: 447.00/442.00 MHz (103.5 Hz)

DX Cluster—On Packet: Connect to **K5DX** on 145.71 MHz or telnet via IP address 75.148.198.113

Facebook: <https://www.facebook.com/groups/TexasDXSociety/> (new)

TDXS says "HAPPY BIRTHDAY" to these members with birthdays in December:

Please notify the Editor if I have missed anyone or of any updates:

Mike Young W5RRX
Sid Leach K5XI
Buzz Loeschman NI5DX