



The Bullsheet

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

The Texas DX Society, Houston TX K5DX@tdxs.net November 2020

TDXS Monthly Meeting via Zoom: Thursday Nov 19 7PM CST

Program: "Protecting My Data" Part 3 by K5TU

Editor's Note by Allen Brier N5XZ

K5DX/50!

K5DX/50 is in the history books! Thanks to all who contributed or participated. As you can see in Robie's article later in the Bullsheet, we made over 8,000 QSOs in over 100 countries by 26 TDXS members. QSL cards continue to stream in to Orville K5VWW, the official QSL manager for the operation. Even though we didn't get as many TDXSers to operate as I would have liked, I consider it a great success. Here are some additional stats: There were 435 slots reserved by 31 stations, the most slots in a single day was 29, the average slots reserved was 14.5. To those who operated, give yourself a pat on the back and **Thank You** again!

Field Day 2020 results have been published. You can find them at:

<https://contests.arrl.org/ContestResults/2020/Field-Day-2020-FinalLineScores.pdf>

The ARRL article can be found at:

<https://contests.arrl.org/ContestResults/2020/Field-Day-2020-FinalQSTResults.pdf>

It appears that TDXS did pretty well with a total of 45,022 points from 21 logs. From my unscientific search TDXS came in 3rd in the club scores overall. Not too bad! Once again, thank you to all those who participated. It was strange not operating at the FD site, but it was still fun. Next year, hopefully back to the site for another 10A operation.

Sunspot numbers are up! Some days over 40

have been reported lately with the flux up there, too. Activity on all bands has jumped up with propagation to Europe and Asia on 6, 10, 12 and 15 meters! We have definitely started a new solar cycle...I sure am looking forward to good times ahead.

There have been a lot of predictions out there... [NOAA](#) is predicting Cycle 25 to reach a maximum of 115 occurring in July, 2025. Here is another good source of information: <http://www.sidc.be/silso/eisnplot>

Final note: I am nearing completion of my SteppIR rebuild and hope to have it in the air soon. It has been a long 1+ year since I took it down. *See you in the contest! DX is!*

73, Allen N5XZ

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We are now holding my Thursday "EX-ZED SPRED" lunches on Zoom and it is every week! If you would like to be invited, send me at note at n5xz@arrl.net

The Prez Sez by Robie, AJ4F

November 2020

The FCC *Notice of Proposed Rulemaking* ([NPRM](#)) MD Docket 20-270 appeared in the October 15 edition of *The Federal Register*. Under this proposal, amateur radio licensees would pay a \$50 fee for each amateur radio application for new licenses, license renewals, upgrades to existing licenses, and vanity call sign requests. The FCC also has proposed a \$50 fee to obtain a printed copy of a license. Excluded are applications for administrative updates, such as changes of address, and annual regulatory fees. Amateur Service licensees have been exempt from application fees for several years. The NPRM sets deadlines of November 16 to comment and November 30 to post reply comments. I believe that if this fee structure is adopted it will have a significant negative impact on Amateur Radio. In my opinion the fees are excessive and will discourage individuals from becoming hams and encourage existing hams from renewing their licenses. I encourage each of you to file comments in opposition to this NPRM. The ARRL has prepared a [Guide to Filing Comments with the FCC](#) which includes tips for preparing comments and step-by-step filing instructions. File comments on MD Docket 20-270 using the FCC's Electronic Comment Filing System ([ECFS](#)).

Officers for 2021 will be elected during our November meeting (11/19/2020). We still need candidates for 2 positions, President and Vice President for Programs. This is your time to give back to the TDXS by volunteering for one of these positions. If you are concerned about how you would perform in one of these roles, I want to assure you ample support is available to ensure your success. You will have to make the required time commitment. Contact me if you would like to discuss any aspect of these roles or of being an officer in the TDXS.

I send invitations to the monthly meeting (currently held virtually, with ZOOM) a few days before the meeting date. Please feel free to forward this invitation to any other individuals (hams or prospective hams) you feel may be interested. This is a good recruiting tool. Also, if you participate in other clubs please share your experiences with the TDXS. We need program presenters, ideas for programs and other activities to enhance the TDXS. I have participated in several other virtual meetings with several other clubs and have an idea I'd like to share. Most other clubs have a weekly "net" on a VHF/UHF repeater. We have both 2 m and 70 cm repeaters with great coverage in the Houston area. I've recently spent time on both and there is very little activity on either. Would you be willing to participate in this activity? I see this as an opportunity to increase our visibility in the area and to develop our operating skills. What do you say?

Robie – AJ4F

TDXS Meeting Minutes by Doug Seyler WB5TKI

Date: October 15, 2020

Location: ZOOM Virtual Meeting

Attendance: Robie AJ4F (Pres.), Doug W9LCQ (Sec.), Kim K5TU, Larry KB5WWW (Treas), Jim N5DTT, Orville K5VWW, Allen N5XZ, Scott K5DD, John K5EC, Keith NM5G, Ben NE5B, Rick K5GZR, Don N5DD, David KE5ZZO, George K5KG, Mike N5MT, John K5IZO

The October TDXS Meeting was held, as usual, via ZOOM Video conferencing. The agenda was:

Officers Report – Still need nominees for President and VP Programs

Texas DX Society 50th Anniversary Operating Event Wrap-up

25 operators, 743 QSOs *[See update later in BS—Editor]*

Sign-up went fairly smoothly

Detailed analysis to follow

Texas QSO Party –

452 logs submitted, vs 348 last year

Need more mobiles

Need to schedule a separate discussion of 2021 TQP contest plans.

TDXS 2021 Plans

Proposed to use the same meeting plan as 2020 schedule, +/- Covid-19

Need more program ideas

Suggestion included

DXpedition videos, shack tours, presentations by other clubs posted on YouTube, etc.

Tech Topic – Kim K5TU presented Part 2 of his overview of data security entitled “How Much Data Can You Afford to Lose?” He covered various backup media and archive, as well as backup and restore methodologies.

A full recording of the meeting is at <https://youtu.be/G-Gc-8rnqrM>.

73, Submitted November 8, 2020

Doug Seyler W9LCQ (ex - WB5TKI) TDXS Secretary



DX Chairman's Report by Orville Burg K5VWW

The TDXS website, WWW.TDXS.NET, reports lots of activity on the front page:

Wintertime propagation is beginning and some good DX is being heard.

Low Band operation is becoming prevalent with new countries being worked on 160M as well as 80M. GI4SNA was worked on 160M by AJ4F. That was a new country.

Minami Torishima – JG8NQJ/JD1 will operate spare time until December 31, 2021. HF on CW, with 50w.

Belize, V31CO, is operational by W0YBS. He will be all modes on 160M, 80M to 10M. He will be active until November 13th.

Maldives, 8Q7RM - will be activated until November 29th by HB9SHD on SSB and FT8. 80M, 40M, 20M, 15M and 10M

TXØT – Tatakoto Atoll in French Polynesia will be activated by VE3LYC on 40M-17M through November 5th. CW, SSB, & FT8.

Malawi, 7Q7RU, will be activated all bands by 3 UA stations from November 11th through 18th. CW, SSB, and FT8 f/h.

Greenland – OX3LX will be operated by OZ1DJJ on HF from November 29th to December 16th.

Please continue to monitor the main page of the TDXS Web Site, www.TDXS.net, for updates to activity on the bands.

Good DX,
Orville, K5VWW



Contest Chairman Report—by Jim Burrough N5DTT

Hello again. As usual, we will start with a summary of major contests coming up in the next two months.

November

- 1 North American SSB Sprint
- 9 ARRL Sweepstakes, CW
- 15 10-10 International Fall Contest, Digital
- 21 ARRL Sweepstakes, SSB
LZ DX Contest
- 28 CQ Worldwide DX Contest, CW

December

- 4 ARRL 160 Meter Contest
- 13 ARRL 10 Meter Contest
- 18 Russian 160 Meter Contest
- 26 Stew Perry Top Band Challenge
- 31 Straight Key Night

Arizona QSO Party 2020 Oct 10

SOCW LP

| Call | SO2R Remote Score | CW Qs | Ph Qs | Dig Qs | CW Mults | Ph Mults | Dig Mults |
|-------|-------------------|-------|-------|--------|----------|----------|-----------|
| K5GQ | | 29 | 0 | 0 | 19 | 0 | 1,202 |
| K5HEM | | 21 | 0 | 0 | 13 | 0 | 646 |

SOMixed LP

| Call | SO2R Remote Score | CW Qs | Ph Qs | Dig Qs | CW Mults | Ph Mults | Dig Mults |
|-------|-------------------|-------|-------|--------|----------|----------|-----------|
| N5DTT | | | 7 | 6 | 0 | 5 | 220 |

SOSSB LP

| Call | SO2R Remote Score | CW Qs | Ph Qs | Dig Qs | CW Mults | Ph Mults | Dig Mults |
|--------|-------------------|-------|-------|--------|----------|----------|-----------|
| KD5FBA | | 0 | 24 | 0 | 15 | 0 | 360 |



Contest Chairman Report—by Jim Burrough N5DTT

Pennsylvania QSO Party 2020 Oct 10

SOCW LP

| Call | SO2R | Remote | CW Qs | Ph Qs | Dig Qs | Mults | Op Time | Score | Club |
|-------|------|--------|-------|-------|--------|-------|---------|-------|------|
| KE8G | | | 53 | 0 | 0 | | 3,392 | | TDXS |
| K5GQ | | | 22 | 0 | 0 | 2 | 788 | | TDXS |
| K5HEM | | | 20 | 0 | 0 | 2 | 760 | | TDXS |

SOMixed LP

| Call | SO2R | Remote | CW Qs | Ph Qs | Dig Qs | Mults | Op Time | Score | Club |
|-------|------|--------|-------|-------|--------|-------|---------|----------|------|
| N5DTT | | | | 17 | 10 | 0 | 18 | 2.25 792 | TDXS |

Nevada QSO Party 2020 Oct 10

SOCW LP

| Call | SO2R | Remote | CW Qs | Ph Qs | Dig Qs | Mults | Op Time | Score | Club |
|-------|------|--------|-------|-------|--------|-------|---------|-------|------|
| K5HEM | | | 2 | 0 | 0 | 2 | 12 | | TDXS |

SOSSB LP

| Call | SO2R | Remote | CW Qs | Ph Qs | Dig Qs | Mults | Op Time | Score | Club |
|-------|------|--------|-------|-------|--------|-------|---------|-------|------|
| N5DTT | | | 0 | 3 | 0 | 3 | 2 | 18 | TDXS |

CQ Worldwide DX Contest, SSB 2020 Oct 24

SO(A)AB HP

| Call | SO2R | Remote | QSOs | Zones | Countries | Op Time | Score | Club |
|-------|------|--------|------|-------|-----------|---------|--------|------|
| W9LCQ | | | 172 | 45 | 65 | | 49,500 | TDXS |
| K5TU | | | 85 | 26 | 51 | 2.8 | 18,403 | TDXS |

SOAB HP

| Call | SO2R | Remote | QSOs | Zones | Countries | Op Time | Score | Club |
|--------|------|--------|------|-------|-----------|---------|--------|------|
| KB5WWW | | | 145 | 40 | 61 | | 40,299 | TDXS |

SOAB LP

| Call | SO2R | Remote | QSOs | Zones | Countries | Op Time | Score | Club |
|-------|------|--------|------|-------|-----------|---------|--------|------|
| N5DTT | | | 135 | 37 | 58 | 12 | 35,055 | TDXS |



Contest Chairman Report—by Jim Burrough N5DTT

CQ Worldwide DX Contest, SSB 2020 Oct 24 (Cont.)

SOSB10 HP

| Call | SO2R Remote | QSOs | Zones | Countries | Op Time | Score | Club |
|------|-------------|------|-------|-----------|---------|--------|------|
| W5PR | | 423 | 20 | 36 | 30 | 56,560 | TDXS |

I swim about three or four times a week in a City of Bellaire Therapy Pool. Since my back surgery in 1996, I have found swimming to be the one activity that strengthens my back, relieves my minor pain and allows me some moments of isolation. The isolation really helps me cope with the world that we now live in.

When you spend a lot of time someplace like the pool, you get to know the staff. One lifeguard in particular has become a friend. He knows me and knows what I like to talk about – particularly Amateur Radio. A couple of weeks ago, he told me he was intrigued with my experiences with some of the contests I have participated in. He said he was particularly impressed with the fact that you could be talking to England one minute and then Argentina the next and Japan just seconds later. He asked how hard it would be for him to become a Ham. Of course, I jumped at the opportunity to get him started. I told him I would bring him a Technician Licensing Manual the next time I swam. I ordered the book that afternoon and had it the next morning. (I really like Amazon Prime). I gave him the guide and told him I would support his efforts in every way. Yesterday, he said he had read the book and would begin working on the test questions. He said he felt certain he would be ready to do the test in early December. Wow! Smart and committed.

He then asked about operating, since he lives in an apartment. We spoke about HTs and 2M repeaters but I could tell he was thinking further out to being on HF. We talked a little about me loaning him an HF radio and him operating portable in some of the local parks or at his uncle’s place near Halletsville. I told him I could provide everything he needs, including whatever support he would need with setup and getting started with operating.

I think he’s hooked and is going to make a great young Ham. One step at a time, but I’ll bet he will be joining our ranks soon.

Stay well and stay safe.

Jim, N5DTT



Where in the World is? ... Ron Litt, K5HM

The Seychelles is an archipelago of 115 islands in the Indian Ocean off East Africa, known for its beaches, coral reefs, diving, nature reserves and rare wildlife such as giant Aldabra tortoises. Mahé island, with an international airport, is a key transport hub, home to capital Victoria, the mountain rainforests, Seychellois National Park and white-sand beaches.



The Seychelles were uninhabited throughout most of recorded history. The earliest recorded sighting by Europeans took place in 1502 by the Portuguese Admiral Vasco da Gama, who passed through the Amirantes and named them after himself (islands of the Admiral). Nice Going Vasco.



A transit point for trade between Africa and Asia, the islands were occasionally used by pirates until the French took over in 1756. During the Napoleonic Wars, Britain eventually assumed full control upon the surrender of neighboring Mauritius in 1810. Seychelles became a British Crown Colony separate from Mauritius in 1903. Elections were held in 1966 and 1970.

When the British gained control of the islands, they allowed the French upper class to retain their land. Both the French and British settlers used enslaved Africans, and although the British prohibited slavery in 1835, African workers continued to come. Thus the *Gran blan* ("big whites") of French origin dominated economic and political life. The British administration employed

Indians on indentured servitude resulting in a small Indian population.

Through harmonious socioeconomic policies and developments over the years, today Seychelles is described as a fusion of peoples and cultures. Numerous Seychellois are considered multiracial: blending from African, Asian and European descent to create a modern creole culture. Evidence of this harmonious blend is also revealed in Seychellois food, incorporating various aspects of French, Chinese, Indian and African cuisine.

As the islands of Seychelles had no indigenous population, the current Seychellois are composed of people who have immigrated. The largest ethnic groups were those of African, French, Indian and Chinese descent. French and English are official languages along with Seychellois Creole, which is primarily based upon French, yet nowadays is often laced with English words and phrases.

The prime agricultural products currently produced in the Seychelles include sweet potatoes, vanilla, coconuts and cinnamon. These products provide much of the economic support of the locals.



Where in the World is? ... Ron Litt, K5HM



In 1971, with the opening of Seychelles International Airport, tourism became a significant industry, essentially dividing the economy into plantations and tourism. The tourism sector paid better, and the plantation economy could only expand so far. The plantation sector of the economy declined in prominence, and tourism became the primary industry of Seychelles.

In recent years the government has encouraged foreign investment to upgrade hotels and other services. These incentives have given rise to an enormous amount of investment in real estate projects and new resort properties. The government has moved to reduce the dependence on tourism by promoting the development of farming, fishing, and small-scale manufacturing and most recently the offshore financial sector. Sounds like a good place to stash your money too.

The Aldabra Giant Tortoise populates many of the islands of the Seychelles. These unique reptiles can be found even in captive herds.

There are several unique varieties of orchids on the islands. Seychelles hosts some of the largest seabird colonies in the world. The marine life around the islands, especially the more remote coral islands, can be spectacular. More than 1,000 species of fish have been recorded.

According to QRZ.com, there are 129 licensed amateurs, although many of them are foreign visitors or DXpeditions. The Seychelles are 158th on the list of Most Wanted DXCC list according to Club Log.

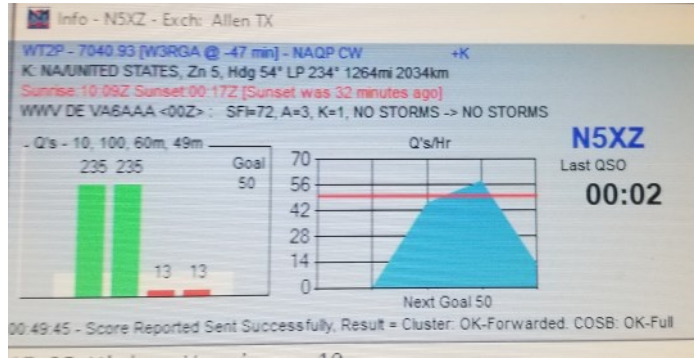
Reporting from the Dark Side,
Ron, K5HM



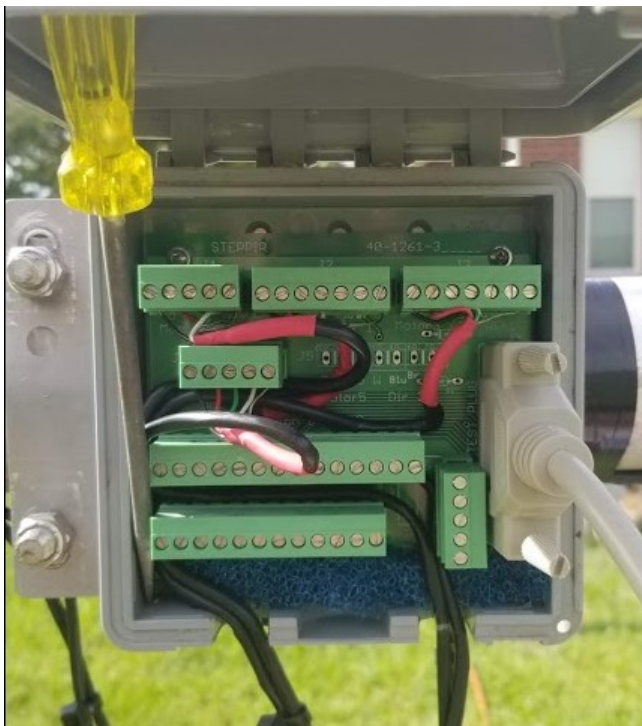
Random Pics by N5XZ



Amazon now selling K3's!



Decent contesting rate



SteppIR Interface Box



Bird's Nest in Tower

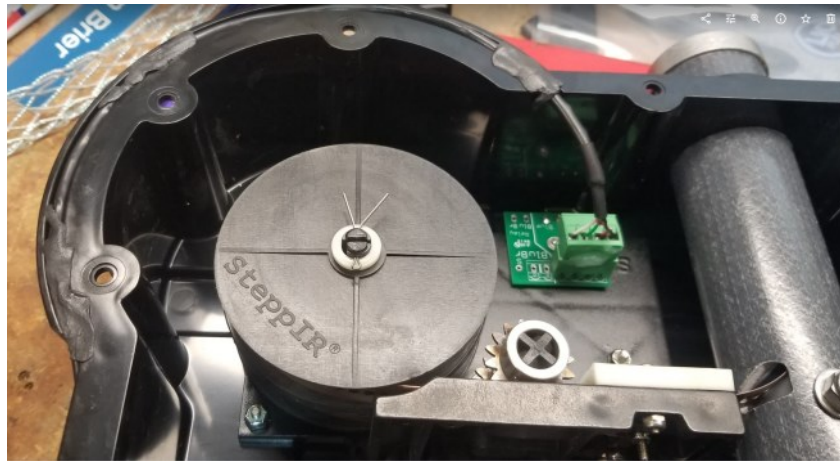
| | | | | | | | |
|------------|-----|-----|------------------------|----|-----------|----|----|
| 11/10/2020 | 20M | FT8 | +09 +05 Richard Murray | GA | 14.076234 | 5 | 8 |
| 11/10/2020 | 20M | FT8 | Count | SC | 14.076234 | 5 | 8 |
| 11/10/2020 | 20M | FT8 | 200000 records | | 14.076234 | 14 | 21 |
| 11/10/2020 | 20M | FT8 | (all records) | | 14.076234 | 14 | 21 |
| 11/10/2020 | 20M | FT8 | | | 14.076234 | 4 | 7 |
| 11/10/2020 | 20M | FT8 | | | 14.076234 | 14 | 21 |
| 11/10/2020 | 20M | FT8 | | | 14.076234 | 15 | 21 |

200,000 QSO Milestone reached by N5XZ

(Yeah, I know you see a lot of FT8 here, but all I have is a vertical until the SteppIR goes back up)



Random Pics by N5XZ



Inside SteppIR EHU



Board of Directors Selfie



SteppIR on the ground almost ready



TDXS 50th Anniversary Operation—Results

K5DX/50

This is a summary of the results of all activity using the K5DX/50 callsign. Orville K5VWW did all the "heavy lifting" to prepare the statistics and I'm adding a bit of context to them. All 8,376 K5DX/50 QSOs have been submitted to LoTW and 4,456 (53.2 %) have been confirmed. K5DX/50 has confirmed 50 States; 6 Continents; 36 Zones; and 102 Countries. We have received over 173 requests for the commemorative QSL card, however the commemorative QSLs are still in route from the printer.

26 TDXS members have submitted K5DX/50 logs and are listed here alphabetically:

AD5WB, AJ4F, KØYY, K5DD, K5EC, K5GN, K5GZR, K5HEM, K5IZO, K5KG, K5NZ, K5TU, K5VWW, K7BV, KB5WWW, KB4KBS, N5DTT, N5MT, N5WW, N5XZ, NA5D, W5MF, W5SG, W9DX, W9LCQ and WA5LEE.

Total Contacts by Band and Mode:

| Band | CW | Phone | Dig | Total | % |
|-------|-------|-------|-------|-------|-----|
| ---- | -- | ----- | --- | ----- | --- |
| 160 | 16 | 0 | 261 | 277 | 3 |
| 80 | 149 | 1 | 669 | 819 | 10 |
| 60 | 0 | 0 | 53 | 53 | 1 |
| 40 | 967 | 705 | 1,204 | 2,876 | 34 |
| 30 | 15 | 0 | 763 | 778 | 9 |
| 20 | 943 | 597 | 1,268 | 2,808 | 34 |
| 17 | 19 | 0 | 386 | 405 | 5 |
| 15 | 32 | 0 | 248 | 280 | 3 |
| 12 | 0 | 0 | 6 | 6 | 0 |
| 10 | 0 | 30 | 31 | 61 | 1 |
| 6 | 0 | 0 | 4 | 4 | 0 |
| 2 | 0 | 8 | 0 | 8 | 0 |
| 70 | 0 | 1 | 0 | 1 | 0 |
| | --- | ----- | --- | ----- | --- |
| Total | 2,141 | 1,342 | 4,893 | 8,376 | 100 |

As expected, there were more FT8 QSOs than any other mode. Many stations work K5DX/50 on multiple bands/modes. K5RK worked K5DX/50 on all bands 160 m - 70 cm!

TDXS 50th Anniversary Operation—Results

Total Contacts by Operator:

| Operator | Total | % |
|----------|-------|-----|
| ----- | ----- | --- |
| N5XZ | 2,275 | 27 |
| K5KG | 1,686 | 20 |
| AJ4F | 828 | 10 |
| W9LCQ | 816 | 10 |
| K7BV | 774 | 9 |
| K5VWW | 410 | 5 |
| KB4KBS | 258 | 3 |
| W9DX | 225 | 3 |
| AD5WB | 183 | 2 |
| K5GN | 144 | 2 |
| WA5LEE | 139 | 2 |
| K5IZO | 135 | 2 |
| W5SG | 100 | 1 |
| K5GZR | 69 | 1 |
| K5DD | 62 | 1 |
| N5MT | 59 | 1 |
| N5WW | 53 | 1 |
| K0YY | 41 | 0 |
| K5EC | 32 | 0 |
| KB5WWW | 28 | 0 |
| K5TU | 19 | 0 |
| K5NZ | 18 | 0 |
| W5MF | 10 | 0 |
| NA5D | 6 | 0 |
| K5HEM | 2 | 0 |
| N5DTT | 2 | 0 |
| Dummy* | 1 | 0 |
| K5DX* | 1 | 0 |

Total = 28

These logs were used only for testing setup of the LoTW submission process and are not real QSOs.

Details of Countries & CQ Zones confirmed are listed in the following tables.

Thanks for your participation!

Robie - AJ4F

John Devoldere ON4UN—SK

Although not a TDXS member, I thought I should mention the unfortunate passing of John ON4UN who was the king of all things 160 meters. I have a copy of his book and according to my log, worked him 14 times going as far back as 1986

Dear amateur radio friends

It is with sadness, but also gratitude and pride, I have to let you know my father John ON4UN, has become silent key.

John's health has steadily deteriorated throughout the year, but in the last few weeks he was home with us where he peacefully passed away yesterday November 9.

Ham Radio, and especially Low Band DX-ing, were my father's lifelong passion and always had a strong presence in our house. Sometimes literally, when many of you paid us a visit or a group of DX'ers came over for a weekend of contesting. At other times in the background, when my dad was working on a project or experimenting with new equipment or antennas.

Though I don't have a call-sign, I very much feel part of the big radio family and always will. I am very proud of everything my father has accomplished together with you, and I am grateful to the many of you who have given him so much joy over the years. We will miss him dearly, but we take comfort looking back on the beautiful life he lived as a member of the wonderful Ham Radio community.

We are planning a digital farewell ceremony on Saturday Nov 21st and will keep you updated on practicalities.

If you would like to send us a message please mail to ON4UN.SK@gmail.com—John's old e-mail account is not in use anymore.

In the meantime, you can pay him a visit at QRZ.com where he always kept his resume up to date.

Marleen Devoldere



Texas DX Society Board members

| | | |
|-----------------------------|-------------------------------|---------------------------------------|
| President | Robie Elms, AJ4F | ruler55 at gmail.com |
| VP Membership | Gerald Muller | gmuller885@aol.com |
| VP Programs | Open | |
| Secretary | Doug Seyler, WB5TKI | djseyler at comcast.net |
| Treasurer | Larry Daze KB5WWW | dxon20@gmail.com |
| Contest Chairman | Jim Burrough, N5DTT | jandpburrough at sbcglobal.net |
| Field Day Chairmen | Open | |
| Repeater Chairman | Glenn Anderson, WB5TUF | wb5tuf at arrl.net |
| DX Chairman | Orville Burg, K5VWW | Orville at rubyglass.com |
| Outgoing QSL Manager | Scott Patout, K5DD | 5dd at arrl.net |
| Webmaster | Scott Patout, K5DD | k5dd at arrl.net |
| Bullsheel Editor | Allen Brier, N5XZ | n5xz at arrl.net |

| | | |
|--|---------------------------|---------------------------------|
| DXCC/WAZ/WAS QSL Card Checker | Bob Walworth, N5ET | rwalworth at charter.net |
|--|---------------------------|---------------------------------|

How to reach US

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

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

Keith Huge - KA5F
 Tom Ashworth - N5EA
 Charles Brues - N5AM
 Robert McWhorter - K5PFE
 Chuck Dietz - W5PR
 John Davis - KN5T
 Bill Eckenrode - W5SG
 Bob Chmielewski - N5PJI
 Bruce Meier - N1LN
 Ed Gerber - W5GCX

Don Mayhall - N5DM
 Don Daze - N5DD
 Matt Thomas - WX5S
 Willis “Cookie” Cooke - K5EWJ
 Jim Burrough - N5DTT
 Leonard Cernuch-WD5DAY
 Jim Burroughs-N5DTT
