



# The Bullsheet

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

The Texas DX Society, Houston TX K5DX@tdxs.net June 2017

**This month, there is no regular or dinner meeting. Field Day counts as our meeting. Please come and enjoy the weekend with us! There will be plenty of contacts to be made, food to eat, antennas to raise and lower, fun to be had, etc.**



## Editor's Note by Allen N5XZ

### FIELD DAY! FIELD DAY! FIELD DAY!

Last month, I shocked the world and announced that we will hold Field Day at the same location as last year. Did you see it? As a TDXS member, are you planning to participate with the rest of the club? We are in a position to put TDXS back in the TOP TEN again if we can just get the operators out there! **What has happened to TDXS?** We used to be a powerhouse in contesting and Field Day was one of those. Even though we will be sharing the glory with other clubs, the TDXS letters will be once again blazed into the history books! Will you be a part of that, of TDXS's rich history? We have some of the finest CW, Phone and RTTY operators ON THE PLANET! Come to Field **Day** and BE AWESOME AGAIN! Jeff, KG5LRP and I have put

together an on-line sign-up system to choose operating slots. There are two links. You should click on the [Operator Schedule](#) link first to download a pdf file showing what slots are available, then click on the [Field Day Operator Request Form](#) link to make your request. You will receive an email confirmation of your request. Requests for the same slot will be moderated by Jeff via time stamp information. Currently you may request a mode and timeslot, your band will be selected by Jeff, or if you have a preference, email him directly.

[Operator Schedule](#)  
[Field Day Operator Request Form](#)

[Hold CTRL and click on the links above]

The rules have been posted on the TDXS and other reflectors, Facebook pages and hopefully soon on various websites. I don't think it gets any easier than that. If you have any questions, contact me or Jeff, KG5LRP at

twigit@gmail.com  
What else can I say? Besides the fact that we will have multiple tribanders fed via triplexers for each mode and mostly K3 or K3S radios? Or that we will have three antenna supports, one of them being a 60 foot manlift? Also great food, lot's of new hard-line and coax to feed the antennas, an air conditioned building to operate in...etc. (We are planning to operate 8A again). What else can we do to entice you guys to come??? BTW, we are planning to hold the next Field Day meeting at the Fire Station on Sunday, July 11th at 2:00 pm. Can you make it?

Besides being able to contribute to another great event, the more experienced TDXS operators can mentor lesser experienced operators and pass along the thrill of contesting...after all, isn't that what TDXS is all about?

Allen N5XZ

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## The Prez Sez by Robie, AJ4F

The Prez Sez

June 2017

The Sporadic E season has finally arrived! 6 meters is now open most every day to some part of the continental United States, Central America, the Caribbean and occasionally to Europe. Conditions vary widely day to day and change rapidly during each day. In addition to CW and SSB activity around 50.125 MHz, there is a lot activity using two digital modes, JT65 and most recently MSK144. The software to operate these modes is [WSJT-X](#). It was developed by Joe Taylor K1JT, and offers specific digital protocols optimized for EME (moon bounce), meteor scatter, and ionospheric scatter, at VHF/UHF. JT65 is also very common on the HF bands. The capabilities of the modulation techniques and the operating procedures used. enhance your ability to make contacts under rapidly varying conditions. During the Sporadic E openings that have occurred this past month, I have worked K-W, VE, XE, V3, KP4 stations, and copied EA8, PY, KP2, HI, CO and TG stations. I have not worked or copied any European stations but I see them spotted by stations in nearby states most days. My DX contacts were made using JT65 and operation using this mode centers around 50.276 MHz. The MSK144 mode is designed for meteor scatter but works very well during sporadic openings. Operation on this mode centers around 50.280 MHz and 50.260 MHz. I have not made any DX contacts with MSK144, however I have worked several new Grids for VUCC including EN07 in North Dakota. The software is free and can be downloaded from:

<http://physics.princeton.edu/pulsar/K1JT/>

This site contains a lot of additional information regarding these modes including

operating procedures. If you operate RTTY using a sound card, you likely have all the “hardware” required to operate JT65 and MSK144. If you have questions contact me and I’ll gladly share what I have learned.

The ARRL VHF contest is June 10-12 and I want to encourage as much participation as possible. VHF contests are often low scoring affairs due to low levels of participants and frequently poor propagation. Please spend a few minutes to get on 6, 2, 222 and 432 to give us a contact. The effort will really be appreciated. I believe this contest occurs on the same week end as HAMCOM, which tends to reduce activity around Southeast Texas.

The TDXS had a good showing during the CQWW WPX CW contest. KJ5Y (operators N5XZ, KJ5Y and YU6DX) utilized a remote station, multi operator, single transmitter set up to rack up over 2.7 million points. Great going guys! As of 6/1/17 the following additional TDXS members have posted scores on [3830scores.com](#): KONM, K5TU, K5GN, W5DPT, N5DTT and AJ4F.

One more reminder: The ARRL’s Field Day is June 24-25, location will be the Pecan Grove Volunteer Fire Station, which is the same location as last year. Mike Davidson (N5MT) is the Field Day Chairman. Al Brier (N5XZ) is working to schedule operators. Please contact Al and get on the schedule. Having operators to fill the entire operating period is extremely important in making a good score in the event. Our objective is to make the best possible showing (win)!

I have received very little feedback about potentially changing the TDXS meeting day/schedule to increase attendance at our meetings by eliminating conflicts with other club meetings & various activities. Please

take a few minutes to get your thoughts together regarding this topic and communicate to me or any other Board Member. We need your input on this issue before any decision can be made.

The Amateur Radio Parity Act of 2017 (HR-555) Update – As of 6/1/2017 this bill remains in the U.S. Senate Committee on Commerce, Science and Transportation. Given the current situation in Washington, it is unclear to me when this bill will be acted on by the committee. I check frequently to see when discussion will be scheduled but have not been able to get any information. Texas Senator Ted Cruz is a member of the committee and I recommend you contact his office and make your feelings about the bill known.

73,

Robie – AJ4F



# TDXS Meeting Minutes by Doug Seyler WB5TKI

**Date:** May 10, 2017

**Location:** Rudi Lechner’s German Restaurant, Houston, TX

**Attendance: Members:** Doug WB5TKI, Orville K5VWW, Bob W5UQ, Robie AJ4F, Gerald K5GEM, Mike N5MT, Jim N5DTT, Keith NM5G, Mike K5UO, Curt WG5H, Chuck W5PR, Nizar K0NM, Paul W5PF.

**Guests:** Lynn Seyler (XYL of Doug WB5TKI), Janice Muller (XYL of Gerald K9GEM), Chris Boone WB5ITT, Beth Dutson (XYL of Keith NM5G), Georgina Frantz (XYL of Paul W5PF).

May was a dinner meeting month and we assembled at Rudi Lechner’s German Restaurant on South Gessner for an evening of good food and fellowship. There was a buffet available with lots of German favorites, such as Sauerbraten, Hungarian Goulash, and Weiner Schnitzel, along with Red Cabbage, Spätzle and German Potato Salad. It was all delicious!

A short business meeting was held, at which the following expenditures were approved:

- Purchase of a tri-plexer for use at Field Day
- Donation of \$150 to the Joint BVARC/TTDXS/ECHO/KARS Field Day to help defray food costs
- Donation of \$500 in support of the upcoming Bouvet Island DXpedition

All in all it was a very enjoyable evening.

73,

Submitted June 4, 2017

Doug Seyler WB5TKI

TDXS Secretary



## DX Report by Orville Burg K5VWW

DX Report by Orville Burg, K5VWW

Nizar, **NØNM**, is on a trip to Tanzania and should be operating as **5H3NM**. Look for him on 20M running 10W into a dipole.

We're all ready to go for the **3YØZ** Expedition in early 2018.

The TDXS membership voted to make a donation to help with the extreme cost of this DXpedition, \$740,000 , and received a token of appreciation from the DXpedition:



The TDXS emblem is displayed on their web site and will also be on the QSL.

The link to our emblem is shown on:

<https://www.bouvetdx.org/foundations-and-clubs>

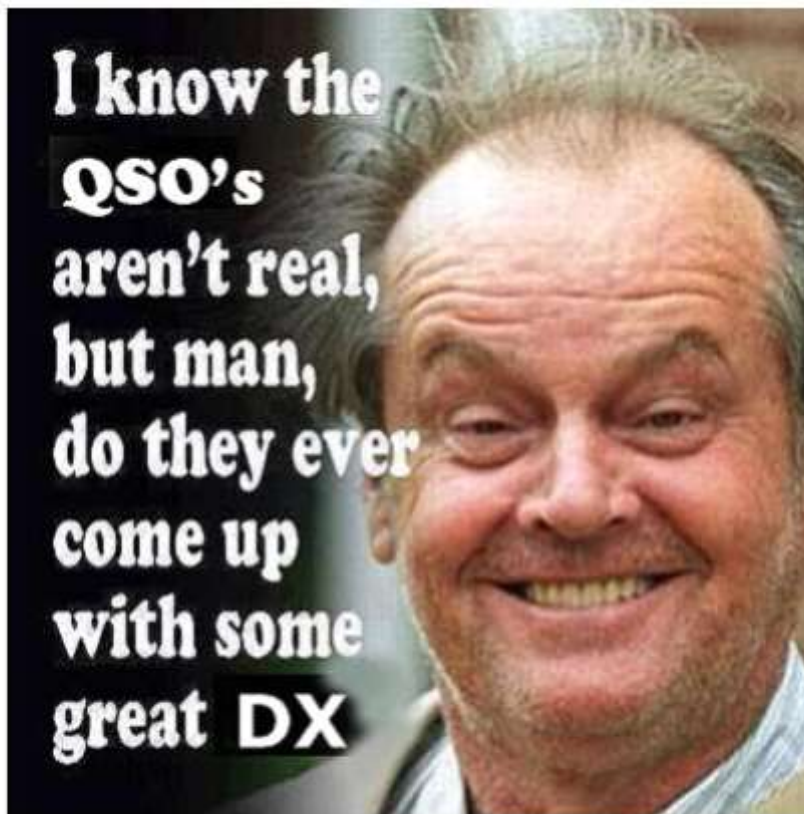
The operation by **LA7GIA**, Ken, from Brazzaville, Republic of the Congo has been active on 40M through 12M using the call **TN5E**, has been active since May 25th and will go QRT on June 4th .



## DX Report by Orville Burg K5VWW

An operation by 5 W9 ops will commence on June 14th and go through June 20th from **Sint Maarten, PJ7**. Look for **PJ7/W9DR** on 6M with a beacon on 50.115. They will be on 80M – 10M with 2 active stations.

6 Meters has been quite active in the past week in all directions from Houston. Sporadic E (Es) has provided both U.S. and DX contacts on CW, SSB and JT65. Today the band was open from Houston to **V31**, Belize, **HR**, Honduras, **TG9**, and others to the south, plus WØ, W9, W8, W7, W6, W5, W4, W3, W2 and W1. Robie, **AJ4F**, has been adding quite a number of new grid squares on 6M with JT65. Daily Trans-Atlantic QSOs are being made from Florida and the Caribbean to Europe, including LA, SM, UA, and several other countries utilizing JT65 mode.



Good DXing,  
Orville, K5VWW



## Contest Chairman Report—by Jim Burrough N5DTT

Hello again. Well, I sure have to say the Ten-Ten International Spring CW Contest was a bust. I was all set up with the temporary 20-foot tower up in the garden with the three-element 10 meter beam in place. Logging software and interfaces were all set for action. I started off OK with a contact in Florida right after the contest started. I thought there was at least some hope. Then almost nothing for the rest of the contest. There were a couple of locals who answered my CQs on Saturday and two Panama stations on Sunday but not much else. Maybe I'll try the next time from the 60-foot tower I have up in Fayette County.

A couple of members participated in the 50 MHz Sprint on May XX. Conditions were not great but that did not keep Chuck, W5PR, from turning in a very respectable score.

With all the doom and gloom predictions about conditions for the CQ WPX CW contest, I was not optimistic. I took down the 6M beam from my temporary tower and replaced it with my 15M monobander. I only have room to get the beam up to 22 feet so I am somewhat compromised. I entered as SO LP SB15 with hopes to make some kind of a showing. To my great surprise, the 15M band was quite lively. I was not hearing much from Europe but U.S., Caribbean and Canadian stations were available to work. I'm not much of a CW operator but persist with a lot of S&P operation where I have plenty of time to get the call right before attempting the contact. My measly 60 contacts does not come close to what others do but I still have a lot of fun and occasionally pick up a new one.

Even with "poor" propagation predictions, the Big Guns had some very impressive scores. K3LR claimed <score>, Field Day is coming up at the end of the month. It is not a contest but sure feels like one. TDXS is teaming up with BVARC, ECHO and KARS and will be at the Pecan Grove FD station on Pitts Road near Richmond. Plan to come out and operate as much as you can to help put us #1 in the 8A category.

After Field Day, there is one more major contest before the contest season winds down. The IARU is set for July xx. I plan to have "temporary shelter" up at my place in Fayette County so I can finally use my 60 foot tower and its trib-ander along with 40 and 80 M dipoles to make a more respectable showing in this last major international contest before the Fall Contest Season.

### Recent Member Contest Scores

50 MHz Spring Sprint

Call: AJ4F  
 Operator(s): AJ4  
 Station: AJ4F  
 Class: Single Op LP  
 QTH: STX  
 Operating Time (hrs):

Summary:  
 Total: QSOs = 4 Mults = 4 Total Score = 16

Total: QSOs = 110 Mults = 46 Total Score = 5,060

Call: W5PR  
 Operator(s): W5PR  
 Station: W5PR  
 Class: Single Op HP  
 QTH:  
 Operating Time (hrs):

Summary:  
 Total: QSOs = 110 Mults = 46 Total Score = 5,060  
 Club: Texas DX Society  
 M/S HP

| Call         | QSOs | Prefixes | Op   | TimeScore | Club |
|--------------|------|----------|------|-----------|------|
| KJ5Y         | 2025 | 731      | 42   | 2,773,414 | TDXS |
| SO(A)AB HP   |      |          |      |           |      |
| Call         | QSOs | Prefixes | Op   | TimeScore | Club |
| KØNM         | 236  | 170      | 5:40 | 75,650    | TDXS |
| SOAB HP      |      |          |      |           |      |
| Call         | QSOs | Prefixes | Op   | TimeScore | Club |
| K5TU         | 266  | 207      | 5.1  | 186,507   | TDXS |
| SOAB LP      |      |          |      |           |      |
| Call         | QSOs | Prefixes | Op   | TimeScore | Club |
| NU5A(K5GN)   | 754  | 377      | 18   | 547,027   | TDXS |
| AJ4F         | 498  | 261      | 17   | 227,853   | TDXS |
| W5DPT(LOUIS) | 16   | 16       | 3/24 | 360       | TDXS |
| SOSB15 LP    |      |          |      |           |      |
| Call         | QSOs | Prefixes | Op   | TimeScore | Club |
| N5DTT        | 60   | 53       | 7    | 4,770     | TDXS |

Hope to see everyone at Field Day!

Thanks and 73, Jim, N5DTT



# Where is the world is... By Ron Litt K5HM

Where in the World is . . .

The Dayton Hamvention?

CQ 4 ITU 8



But it's not in Dayton! Instead the Macdaddy of hamfests magically appeared in Xenia, Ohio (pronounced Zeenya by the locals) about 20 miles southeast of the now closed Hara Arena May 19-21.

With an estimated attendance of 30,000 bargain hunting hams, traffic was expected to be headache number one. Surprisingly, while it was heavy, legions of volunteers managed to provide excellent shuttle service between the parking areas and the fairgrounds entrance. Friday taught us a vital lesson. Since we were not bargain hunting, it was a lot better to get to the fairgrounds later, rather than early. Still plenty of parking and no traffic!

The weather provided intervals of brief showers, but it did not dampen the enthusiasm of convention go-ers. It did manage to turn the parking areas muddy, though.

The photo above shows this year's layout. Many of the flea market exhibitors were in the infield of the racetrack; others scattered around the perimeters of the indoor exhibit areas. There were 5 large buildings for commercial exhibitors (e.g. photo foreground). A sixth building was really a couple of white tents cobbled together. Plenty of commercial exhibit space but most were not air conditioned. Two smaller buildings were given over to forums, that ran each day.



## Where is the world is... By Ron Litt K5HM



The ICOM 7300 was hands down, the hot rig of the show. Seems like every other person I saw was carrying the little cardboard box with the ICOM 7300 label. According to Scott Sherwood, NC0B of Sherwood Labs, ICOM has sold more than 10,000 of these nifty rigs to date.

At the Elecraft booth, the brand new KPA 1500 legal limit amplifier. Two models were on display, waiting for FCC approval. Hams were signing up to get on the waiting list to order. Yours truly included.

One building was given over to HF antennas; towers, multi band beams; verticals and some unique designs. One of the strangest was the SteppIR Urban Beam. According to SteppIR, "This antenna is excellent for use where a traditional beam may not be appropriate. It's a high-performance 2 element beam 20m-6m, and a folded dipole on 30 and 40 meters. combined with a beam requiring only a 15.5 foot turning radius, low-sunspot-cycle DX is possible with a simple rotator and mast." HMMM.



On Thursday, the day before Hamvention I attended Contest University. That was still in Dayton at the Crowne Plaza. Eight hours of talks from some of the best contesters and subject matter experts in the Ham universe. It was like drinking from a firehose. The speakers, included names I had only seen in print; Ward Silver, N0AX; Scott Sherwood, NC0B and Dr. Tamitha Skove on space weather and propagation.

I found the Hamvention technical program full of well-known experts on their topics including APRS, MARS, Moonbounce and EM-COM. Friday's presentations were the more interesting to me. Some of the presenters were repeats from Contest University. Bob Heil did a live broadcast of the 300<sup>th</sup> edition of Hamnation you can view it here: <https://twit.tv/shows/ham-nation/episodes/300?autostart=false>

All in all, had a great time. Would I do it again? You bet.

Reporting from the Dark Side,

Ron Litt, K5HM





## TDXS Biography—Allen Brier N5XZ

Some time ago, I decided I wanted to showcase our members. Since nobody came forward with a biography this month, I decided to use my own. Hope it's not too scary at the end.

Allen Brier – N5XZ / KL5DX

I originally got started in electronics sometime in 1969 at the age of 12. My father, knowing my interest in taking things apart and not always putting them back together, started me in the "Experiment of the Month Club". I found great joy in all the projects, but my favorite was the magnetism experiment. So, seeing my greater interest in electronics he enrolled me in the ham radio club at the local Jewish Community Center (along with Pat KJ5Y, ex-WN5EDO/WB5EDO). I found that very exciting and after about 9 months, at the age of 13, I got my first license, WN5BIR. I purchased a Heathkit HW-16 transceiver, which operated 80, 40 and 15 meters, maximum of about 90 watts and crystal controlled. Back when I got my Novice license, the limit was 75 watts input, so I was very careful not to exceed that so as not to get into any trouble. I built it but when I was finished, it didn't work, so I had to find get Tom Taormina W4SLES (now K5RC) to fix it and after I got it back, it worked great. My first QSO was with a ham in Throckmorton, Texas, WN5BWB and boy was I nervous! My second QSO was with XE2PAZ in Mexico, so I started my DXing career right away. I managed to get Worked All States and work about 60 countries before upgrading to General and Advanced the same day. Back in those days, you had to go downtown to the FCC building and take the test, and pass receiving and sending at 13 words per minute. I actually found the Advanced test to be easier than the General.

Armed with my new WB5BIR call, I purchased a Henry Radio Tempo One (with some financial help from my parents). Up went a 2 element TA-32 on a 30 foot mast and I was working the world! My first SSB QSO was on July 7, 1971 and I made about 60% SSB QSOs after that. I really enjoyed DXing and worked 89 countries in 1971 and 194 in 1972. Sometime in 1973, however, I started discovering girls and other nefarious distractions and my radio activity diminished to very little until the early 80's. The early 80's were pretty slow but then I hit my stride again in 1986 with a used Kenwood TS-830, and Raytrack DX-2000L amp and a Wilson System 40 ten element tribander up about 65 feet on a Rohn 25G tower. I was very active until about 1990 averaging about 6000 QSOs per year and 200 – 250 countries per year. I started contesting quite a bit, including a lot of 10-10 contests, which I usually won world-wide (to date I have won 18 of them...maybe I'll retire at 20!) I took another short hiatus from radio from about 1991 to 2000 not being very active and had a few very active years in 2001 and 2002 using a Kenwood TS-930 and a TS-940. I took another break until 2007 and purchased a TS-950SD (beginning to see a pattern here with equipment?) during which I made over 13,000 contacts. I have been quite active ever since again averaging about 6000 per year mostly contesting and DXing. However, most of my time is spent on CW now, as I get a lot more joy operating that mode than any other.

Currently, I hold #1 Honor Roll, 8BDXCC, 8BWAS, close to 5BWAZ, and almost 2500 in the DXCC Challenge Award. I have made almost 165,000 QSO's from Texas and over 20,000 QSO's as KL5DX and KL7/N5XZ from Alaska. I am a life member of ARRL, BVARC and 10-10 International (#4530). I'm also a member of FISTS (#2635), CWops (#447), FOC (#1953), QCWA (#28318), the A-1 Operator Club, the Pro CW Club (#54), the Anchorage Amateur Radio Club and the Central Texas DX & Contesting Club.

My current station includes a fully loaded K3 and P3 combo, an Alpha 78 amplifier, a Dentron MT-2000A tuner, an LP-100A Digital Vector HF Wattmeter, a 4 element SteppIR Yagi with the 30/40 meter and 6 meter options up about 75 feet on a motorized Hy-Gain HG70-HD telescoping tower and a Hy-Gain 18HT Hy-Tower on my 2 acre property in Richmond, Texas..

My job as a Fire & Gas Engineer for oil and gas facilities has taken me all over the world and I have met hams in many of those countries, some of whom I had contacts with prior, including Indonesia, Singapore, Malaysia, Hong Kong, The Philippines, South Korea, Angola, Chad, Cameroon, Egypt, India, Mexico, Canada, Trinidad, and all over Europe. I have operated as VU/WB5BIR, R3/N5XZ, R9/N5XZ, TT8XZ, HL/N5XZ and KL5DX. My experience in Alaska was wonderful and wouldn't trade the experience for anything. My logging system allows me to be alerted whenever a KL7 is spotted, and I always try to make contact when conditions permit. I currently use LOGic 9 for day to day logging and N1MM+ for contesting.

I am also a big time Jazz lover and high-end audio enthusiast (my other expensive vice) however, I consider my system to be the "low-end" of "high-end". If you love Jazz, let me know and we'll have to get together some time. My favorite era is 50's and 60's Jazz. It seems, however, that music and radio are almost mutually exclusive hobbies. Weird, isn't it?

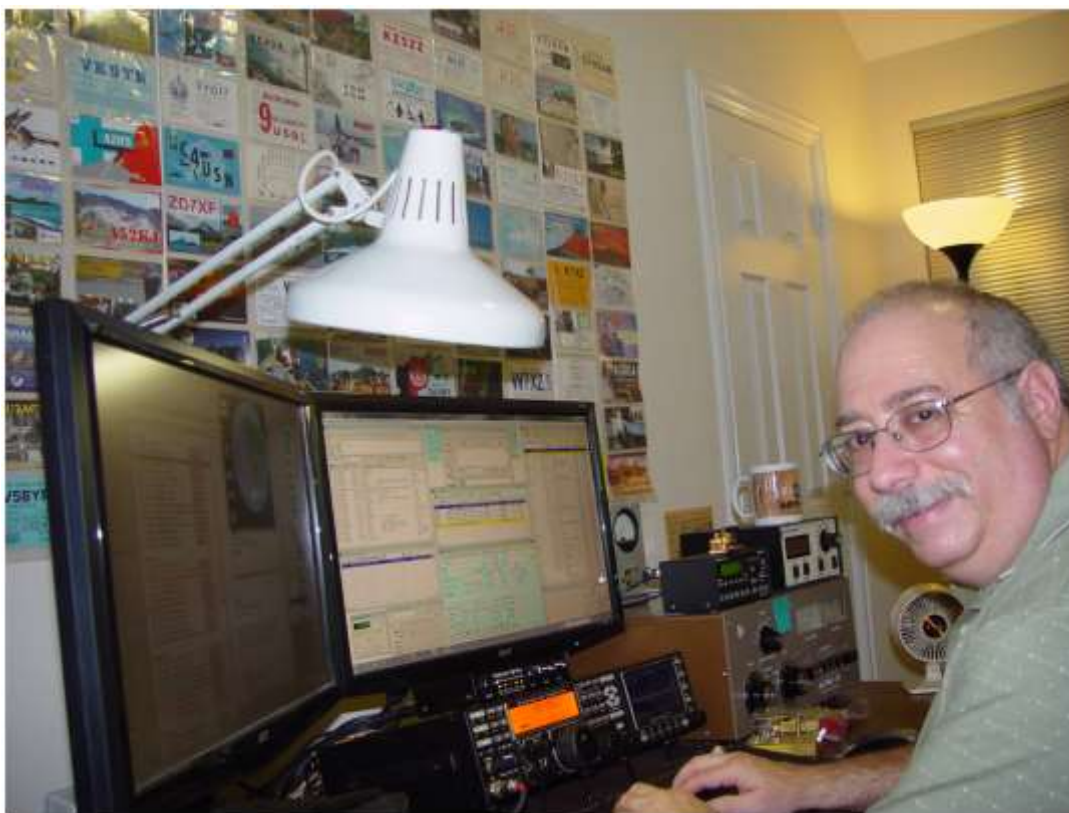


73, from Allen N5XZ / KL5DX

## TDXS Biography—Allen Brier N5XZ



WN5BIR with his HW-16 and a box of crystals (remember those things?). This picture was featured in the September 1971 edition of QST on page 13. They used to call me "The Golden Fist" with my Radio Shack straight key!



Current N5XZ station. Additions include a Dentron MT-2000A Tuner, LP-100A Digital Vector Wattmeter and a 3rd monitor connected to the P3. I'm not sure I see any resemblance between those two guys!

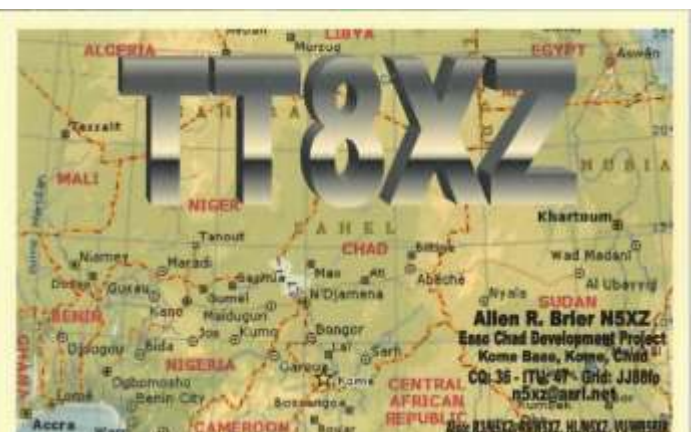
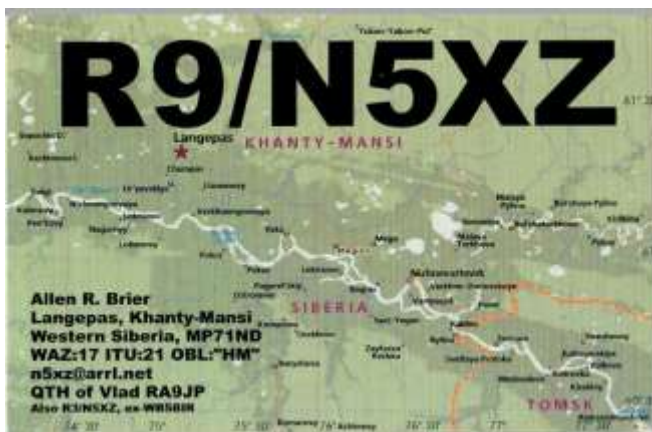
# TDXS Biography—Allen Brier N5XZ



My current QSL card and the SteppIR antenna



This is the QSL card I used while in Alaska. I formed my own club because KL5DX was easier to send than KL7/N5XZ. Better for WPX also. The club call is still active in case anyone wants to “guest op”.



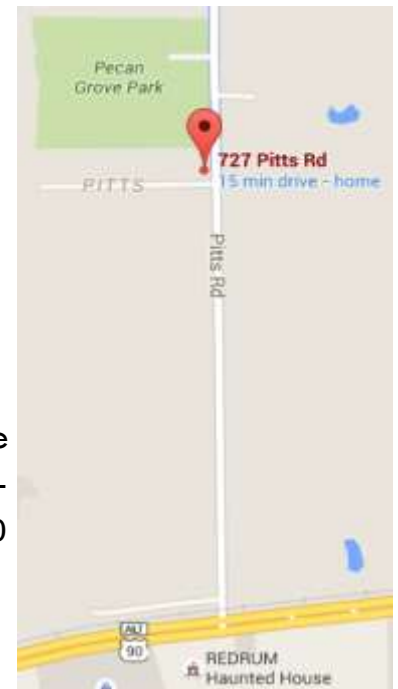
These are the QSL cards I used while in Siberia and in Chad. I met a couple of CW contesters in Siberia. They didn't speak much English, but it didn't matter, we spoke CW. While in Chad, I was only able to make about 50 QSO's due to equipment and antenna limitations, but it was a lot of fun anyway. I send a QSL to every contact! Why not?



## FIELD DAY 2017 TDXS/BVARC/Echo Society/KARS



Here is a map to the Field Day site this year. It is about 2 miles north of 90A on Pitts Road. In the Google Earth picture below, the Pecan Grove Volunteer Fire Department building is in the lower right corner. We will have the same operating room as last year, and a “flop room”. Please come to FD this year! There will be discussions at the upcoming BVARC meeting on June 8th at the Masonic Lodge at 421 Eldridge Street in Sugar Land, Texas and the next Field Day meeting at the fire station on June 11th at 2:00 pm.



## Texas DX Society Board members

|                      |                        |                                |
|----------------------|------------------------|--------------------------------|
| President            | Robie Elms, AJ4F       | ruler55 at gmail.com           |
| VP Membership        | Keith Dutson, NM5G     | kdutson at sbcglobal.net       |
| VP Programs          | Gerald Muller K9GEM    | gmuller885 at aol.com          |
|                      | Lance Rumfield WD5X    | ltrumfield at sbcglobal.net    |
| Secretary            | Doug Seyler, WB5TKI    | djseyler at comcast.net        |
| Treasurer            | Orville Burg, K5VWW    | Orville at rubyglass.com       |
| Contest Chairman     | Jim Burrough, N5DTT    | jandpburrough at sbcglobal.net |
| Field Day Chairmen   | Mike Davidson, N5MT    | n5mt at aol.com                |
| Repeater Chairman    | Glenn Anderson, WB5TUF | wb5tuf at earthlink.net        |
| DX Chairman          | Orville Burg, K5VWW    | Orville at rubyglass.com       |
| Outgoing QSL Manager | Scott Patout, K5DD     | k5dd at arrl.net               |
| Webmaster            | Scott Patout, K5DD     | k5dd at arrl.net               |
| Bullsheat Editor     | Allen Brier, N5XZ      | n5xz at arrl.net               |

|                       |                    |                          |
|-----------------------|--------------------|--------------------------|
| DXCC QSL Card Checker | Bob Walworth, N5ET | rwalworth at charter.net |
| 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](mailto: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

## TDXS says "HAPPY BIRTHDAY" to these members with birthdays in June

Please notify the Editor if I have missed anyone

Alex Stalinsky - WA5UHT  
 Joe Brassfield - N5AQT  
 Al Loeckle - K5FK  
 Madison Jones - W5MJ  
 Larry Vehorn - W9AJ  
 Dave Topp - W5BXX  
 Paul Frantz - W5PF  
 Mike Anderson - K5MV  
 Grady Ferguson - W5FU  
 Kirby van Horn - K7EC  
 Bill Stein - WB5SJS

Don Busick - K5AAD  
 William Goins - K5WVG  
 Steve Smothers - W9DX  
 Bob Evans - K5WA  
 Paul Jaeger - KY5A  
 Wes Spence - AC5K  
 Glenn Anderson - WB5TUF