



The Bullsheet

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

The Texas DX Society, Houston TX K5DX@tdxs.net August 2023

The August 17, 2023 TDXS monthly meeting will be at the Tracy Gee Community Center, and it will be both in-person and ZOOM. As a reminder, Tracy Gee is located at 3599 Westcenter Dr., between Richmond Ave. and Westpark Dr. The meeting will start at 7:00 p.m., as usual, and some may wish to have a pre-meeting dinner at Pappas BBQ, located at Westheimer and S. Gessner Rd.

The program will be presented by Robie Elms AJ4F. His presentation will be "Obtaining ARRL Awards With QSL Cards." Robie has spent some time delving into the rather complicated process by which both paper QSL confirmations and LOTW confirmations are entered into a DXCC Award Record. You may be surprised by some of the pitfalls.

This meeting will be recorded, but please make an effort to attend the live meeting.

For those who choose to attend via ZOOM, the details are below.

Please let me know if you intend to be at Tracy Gee, so I can get a suitable sized room.

Editor's Note by Allen Brier N5XZ

In case you didn't notice, something has changed with the BS...I have deleted the "Prez 'sez" and "DX Chairman" reports from the TOC and the body. Why did I do this? Because it seemed silly and ridiculous for me to keep posting them every month if no one will step up to takes these officer's positions. Well, I guess it does make the BS Newsletter file a bit smaller. Maybe someone will be happy about that, but not me. We have been needing someone to fill these slots for a very, very long time now. Anyone willing to belly up to the bar?

I want to thank Rick Hiller for sending me the article on Madison Electronics...I have a lot of fond memories of going there. One in particular is after I upgraded from Novice to Advanced (when I took the General license..why not go for Advanced which I found to be easier anyway), I had my parents take me to Madison's to buy my first real HF rig with my Bar Mitzvah money (after the HW-16 that I botched the soldering job on and had to have Tom Taormina fix for me). It was a brand new Henry Radio Tempo One! I really loved that rig. Well anyway, when we went to buy it, I notified my parents that it required a power supply, too. Something I didn't have the money for. After I told them the radio wouldn't work without it, they just had to buy it for me. Pretty clever, huh?



Hope to see you at the meeting this Thursday!

73/161, Allen N5XZ

Inside this issue:

Secretary Report by Doug W9LCQ	2
Contest Chairman's Report by Jim N5DTT	3
Madison Electronics Supply A Reflection—by Rick W5RH	6
Solar Cycle Update by Skip W5GAI	11
TDXS Board Members/ Birthdays	12



TDXS Meeting Minutes by Doug Seyler W9LCQ

Date: July 20, 2023

Location: ZOOM Virtual Meeting

The July 2023 TDXS meeting was over ZOOM. There were 20 participants: Doug W9LCQ, Orville K5VWW, Rick W5RH, Madison W5MJ, Robert K5PI, Susan K5DU, Gerald K9GEM, Jim N5DTT, Larry KB5PNU, Tom KG5RXE, Deroy AA5R, Don N5DD, Duane AC5AA, Jeff W5JEF, John K5EC, Leslie AD5WB, Mark K5GQ, Mark K5MGJ, Mike W9MC, and Steven N5NAA.

Agenda:

Field Day 2023 –

Quad Club effort – TDXS, BVARC, KARS, UHARC

10A plus 6m, GOTA and satellite

Over 4600 contacts (SSB & digital up, CW down)

Raw score 14864 + bonus points

Bill Bradford TDXS #14 (1972) – SK

See July Bullsheet for remembrances of Bill

Texas QSO Party 2023 - September 16-17

Program – “On the Road Again – Getting Your Mobile Ready for TQP” by Madison Jones W5MJ. Madison led a very entertaining and informative discussion of the history of the Texas QSO Party, as well as lots of pointers on mobile operation. He was aided by other veteran rovers, including Robert K5PI and Mike W9MC. If you are thinking of going mobile this year you need to watch this program.

The video from this meeting is available on the TDXS YouTube channel ([TDXS Monthly Meeting July 20, 2023 - YouTube](#)).

Submitted August 7, 2023

Doug Seyler W9LCQ

TDXS Secretary



Contest Chairman Report—by Jim Burrough N5DTT

August

- 5 10-10 International Summer Contest, SSB
North American QSO Party, CW
- 12 Worked All Europe DX Contest, CW
Maryland-District of Columbia QSO Party
- 19 North American QSO Party, SSB
- 20 ARRL Rookie Roundup, RTTY
- 26 World-wide Digi Dx Contest
W/VE Islands QSO Party
Ohio QSO Party
Hawaii QSO Party
Kansas QSO Party

September

- 2 CW Ops CW Open
All Asia DX Contest, SSB
Russian RTTY WW Contest
Colorado QSO Party
- 3 Tennessee QSO Party
- 9 ARRL September VHF Contest
WAE DX Contest, SSB
Alabama QSO Party
- 16 Texas QSO Party
Iowa QSO Party
Washington State Salmon Run (QSO Party)
New Jersey QSO Party
New Hampshire QSO Party
- 23 CQ WW DX Contest, RTTY
Maine QSO Party



Contest Chairman Report—by Jim Burrough N5DTT

TDXS members participated in several contests in July. Here is their score information as it was found in the 3830scores.com website:

RAC Canada Day Contest 2023 Jul 1

Single Op HP

Call	Remote	CW Qs	Ph Qs	CW Mults	Ph Mults	Op Time	Score	Club
W5GCX		22	9	12	7	2.5	6,840	TDXS

Single Op Assisted LP

Call	Remote	CW Qs	Ph Qs	CW Mults	Ph Mults	Op Time	Score	Club
N5DTT		7	10	7	8	2	3,450	TDXS

IARU HF World Championship 2023 Jul 8

SOAB(A)CW HP

Call	Remote	CW Qs	Ph Qs	Zones	HQ	Mults	Op Time	Score	Club
N5XZ		500	0	54	47		4:22	193,112	TDXS
K5TIA		250	0	46	54		9	87,800	TDXS
AF5J		80	0	15	24		2:47	10,563	TDXS
KØNM		51	0	20	22		3	8,946	TDXS

SOAB(A)CW LP

Call	Remote	CW Qs	Ph Qs	Zones	HQ	Mults	Op Time	Score	Club
KG5U		671	0	115	101		19.67	488,808	TDXS

SOAB(A)Mixed LP

Call	Remote	CW Qs	Ph Qs	Zones	HQ	Mults	Op Time	Score	Club
N5DTT		19	63	55	27		8	12,648	TDXS

SOABCW HP

Call	Remote	CW Qs	Ph Qs	Zones	HQ	Mults	Op Time	Score	Club
K5GQ		1	38	0	19	36	5.5	29,260	TDXS

SOABMixed HP

Call	Remote	CW Qs	Ph Qs	Zones	HQ	Mults	Op Time	Score	Club
W5GCX		3	4	109	19	31	3.5	26,050	TDXS



Contest Chairman Report—by Jim Burrough N5DTT

CQ Worldwide VHF Contest 2023 Jul 15

SOAB LP

Call	Remote	QSOs	Mults	Op Time	Score	Club
WB5TUF	x	130	69		10,212	TDXS
N5EKO		72	47		4,089	TDXS

SOSB/6 HP

Call	Remote	QSOs	Mults	Op Time	Score	Club
W5PR		170	98	15.5	16,660	TDXS
K5TIA		38	27	5	1,026	TDXS

SOSB/6 LP

Call	Remote	QSOs	Mults	Op Time	Score	Club
N5DTT		39	22	12	858	TDXS

YOTA Contest 2023 Jul 22

SO3B HP

Call	Remote	CW Qs	Ph Qs	Mults	Op Time	Score	Club
K5TIA		28	0	24	4	2,136	TDXS

SOAB HP

Call	Remote	CW Qs	Ph Qs	Mults	Op Time	Score	Club
W5GCX		1	2	17	20	2.5	3,600 TDXS
AF5J		6	0	6	:50	108	TDXS

IOTA Contest 2023 Jul 29

SO12SSB HP

Call	Remote	CW Qs	CW Mults	Ph Qs	Ph Mults	Op Time	Score	Club
W5GCX		0	0	10	7	2	1050	TDXS

Have a good month, contesting as much as you have the time for. Don't forget, the Texas QSO Party is September 16. It is not too early to make plans.

Jim, N5DTT



Madison Electronics Supply – A Reflection by Rick W5RH

By the Members of TDXS
Compiled by Rick W5RH

I was just getting back into Ham Radio in the mid to late 80’s. I would listen to the local 147.32 and 146.36 repeaters ECHO and TDXS, respectively. The 36 machine was a treasure trove of Contesting, DX, antennas, towers, the Lumber Yard and Candy Store discussions. All of much benefit to my mid-life, but renewed, ham edification. Thank you to all.

But this is not about me, it is about y’all and others that had the pleasure of knowing Max, Don and David the proprietors of Madison Electronics Supply. Comments, anecdotes and opinions were flourishing in October, 2022 on the TDXS e-mail reflector. Below is a compilation of those insertions, abridged slightly, plus additional relevant information for your pleasure.

Madison Electronic Supply – Location Timeline

- Established – 1956
- 1956 to 1985 – 1508 McKinney Downtown Houston
- 1985 to June 1990 – 3621 Fannin St. Change in Telephone number
- 1990 to early 1993 – 12310 Zavalla Street 1993 Feb CQ mag -- last advert appearance
- During all of these years ads appeared in CQ, Ham Radio and 73 magazines

Some abridged comments from TDXS members -- October 2022

Mike N5MT -- OK, I was there to help get the new store ready for business on a volunteer basis. The box that got my attention was not marked with any warnings and so I opened it up to see inside and WOW. I found what looked like a Chemistry lab glass tube about 3 or 4 inch in diameter and 12 inches long with two places to empty the tube which had rubber stoppers stuck in each.

Can you guess what silver liquid was in the glass tube that weighed about 5 to 10 pounds? I have no idea where Max found the Mercury.

Bill K2TNO -- Here's a poem for ya:

LITTLE BILLY FROM THE MIRROR
 LICKED THE MERCURY RIGHT OFF.
 THINKING IN HIS CHILDISH ERROR
 IT WOULD CURE HIS WHOOPING COUGH
 AT THE FUNERAL HIS MOTHER SAID
 TO HER NEIGHBOR MRS. BROWN:
 " 'T WAS A CHILLY DAY FOR BILLY WHEN THE MERCURY WENT DOWN."



Madison Electronics Supply – A Reflection by Rick W5RH

Rick K5GZR - In 1970s or so, Joe WB5CCJ (SK) was building a regulated high voltage supply using 6AS7s. Joe bought 4, took them home, and discovered that the filaments were open on 2 of them. So he took them back, found Max, told him the tubes were bad. Max took them from Joe, threw them in the big box with the other 6AS7's and told Joe to 'pick out a couple more'. 'Caveat emptor!'

The first Madison Electronics store I went to in the early 1960's was in a narrow white one-story building on the west side of Caroline street, just north of Blodgett. The store had two aisles running front to back, with shelves along both outside walls and shelves down the middle between the two aisles. Don't know if they sold anything at that time that wasn't government surplus.

Byron W5FH -- When Max would see you fondling an item that he suddenly decided he wanted to keep, the next sentence from his mouth was invariant: "It's not for sale."

Forgive me here (Ol' Max) but I am compelled to tell. I will never forget I called one day needing a certain 6.3 VCT filament transformer. He told me "Yes, I remember seeing one on a parts chassis in the pile. I drove up and dug through the pile and sure enough I found the chassis he was speaking of with the transformer. When I took it up to the counter to pay for it Max picked it up and looked it over, then he said "Yes, this is the one, I have been looking for it, and I want to keep it" and he put it on the floor behind the counter. I could not persuade him to turn loose of it! That was not a good day at Madison's.

With that said strictly as a funny story to laugh as I cannot thank both Max and Don for their generosity and help over the years. They did a lot for, and helped out, a lot of folks.

Bob N5ET -- Even I can relate... Around 1975 or 76 I called from Beaumont and spoke with Max. Yup, we sure do have that TA-33 antenna you want.

So Linda and I drove over and sure enough, nope, don't seem to have one.

Oh well, always enjoyed the visit there on McKinney.

Chuck W5PR -- The story I remember best about Madison Electronics was one Saturday I was standing at the front counter talking to Don when a guy in an overcoat walked by who was shoplifting a piece of equipment and dragging the cord from the bottom of the coat. As he went out, Don said: "Be careful, you might trip over the cord!"

Has anyone mentioned the Madison Electronics warehouse? Max had to sell it off when his lease on the warehouse was not renewed. He let everyone dig through it and make an offer on anything they wanted. I was on one of the larger piles with a couple of other guys, all of us amazed at the amount of stuff. Don told us we might find anything there and sure enough, toward the bottom, we uncovered an automobile!

.....

Madison Electronics Supply – A Reflection by Rick W5RH

Dave K5GN -- I remember Max's answer when you called to ask if he had a particular part: "Come on down, we've got plenty." Of course, when you got there if they had any it was very hard to find!

Mike WW5WM -- I was looking around Madison's and Don asked me if I would be interested in coming in on weekends to help. Max sent me to the other building many times to find something only he knew was there. Don was a character unto himself also. More than once we worked DX from the station upstairs while I was supposed to be working.

Maury W5IO -- A few remembrances. Back in 69 I had just taken and passed my general. My dad had taken me to Houston for the test. He then told me we were going to meet up with my Uncle Morris. Morris had made a deal with Max for a Collins 75A2 for me. Max told my dad we were getting the family price since our last names were so close. I used that receiver for 25 years. Wish I still had it as it had the only SSB adapter plugged into the NBFM plug with no other mods I've ever seen.

A few ads from the various publications over the many years. Ads appeared in CQ, 73 and Ham Radio

MADISON

Electronics Supply

FAMILY OWNED SINCE 1956

3621 FANNIN
HOUSTON, TEXAS 77004

MADISON ★ ★ ★ SHOPPER

CALL FOR ORDERS
1 (800) 231-3057
1 (713) 520-7300 or
1 (713) 520-0550
FAX 1 (713) 358-0051

TEXAS ORDERS CALL COLLECT.
ALL ITEMS ARE GUARANTEED
OR SALES PRICE REFUNDED.

<p>New Yaesu FT-1000D Trades wanted Kenwood TH215A, TH25AT Trade in your old HT TS440 S/AT Call New Kenwood TM-731A, mobile Call ICOM IC-24AT Call</p> <p>TS 790A Superior 2 Meter 70 cm Rig Call 1.2 GHz Option Available Call BW VS 300A 99.00 Perita 6140B 12.00 Perita 572B 79.00 Perita 3-500Z 99.00 Perita 611A 12.00 Perita 4C239B 79.00 Icon 765 2695.00 NYE MB5A Tuner 629.00 Alpha Delta Transtrap HV 33.00 CEI Private Patch V 489.00</p>	<table style="width: 100%; border-collapse: collapse;"> <tr><td>Amoco VHF, UHF GaAsFET preamps</td><td>..... Call</td></tr> <tr><td>831SP-PL259 Silverplate (Amphenol)</td><td>..... 1.50</td></tr> <tr><td>82-61 N Male (Amphenol)</td><td>..... 3.50</td></tr> <tr><td>82-202-1006 N Male (99 13)</td><td>..... 3.50</td></tr> <tr><td>Double Female UHF</td><td>..... 1.00</td></tr> <tr><td>LUG 176 RIGXK</td><td>..... each 40</td></tr> <tr><td>Surplus Elbow PL259-SC239</td><td>..... each \$1</td></tr> <tr><td>Receiving tubes 50-90% off list price</td><td>..... Call</td></tr> <tr><td>3 Amp HF Meter, 2.5" Round New, Boxed</td><td>..... 30.00</td></tr> <tr><td>25 FT 10KV Durok/DuCo Crip</td><td>..... 5.00</td></tr> <tr><td>100mF 50V axial cap</td><td>..... 4.00</td></tr> <tr><td>Throat Mike (now mt. surplus)</td><td>..... 5.00</td></tr> <tr><td>Yaesu FT-747, 757R</td><td>..... Call</td></tr> <tr><td>GGTE Morse Tuby</td><td>..... 18.00</td></tr> </table> <p>USED EQUIPMENT All equipment used, clean, with 90 day warranty and 30 day trial. Six months full trade against new equipment. Sale price refunded if not satisfied. (800) 231-3057</p> <p>POLICIES Minimum order \$10.00. Mastercard, VISA, or C.O.D. All prices FOB Houston, except as noted. Prices subject to change without notice. Items subject to prior sale. Call anytime to check the status of your order. Texas residents add sales tax. All items full factory warranty plus Madison warranty. Bird and Belden products in stock. Call today.</p>	Amoco VHF, UHF GaAsFET preamps Call	831SP-PL259 Silverplate (Amphenol) 1.50	82-61 N Male (Amphenol) 3.50	82-202-1006 N Male (99 13) 3.50	Double Female UHF 1.00	LUG 176 RIGXK each 40	Surplus Elbow PL259-SC239 each \$1	Receiving tubes 50-90% off list price Call	3 Amp HF Meter, 2.5" Round New, Boxed 30.00	25 FT 10KV Durok/DuCo Crip 5.00	100mF 50V axial cap 4.00	Throat Mike (now mt. surplus) 5.00	Yaesu FT-747, 757R Call	GGTE Morse Tuby 18.00	<p>New Kenwood TS 950 SD Call Laren 2 meter on glass 99.00 Antico 2M, 56, Mag Mount, Comp 49.95 YAESU FT-1000D 25.00 Call for price</p> <p>Kenwood TS 1429 Call for trade Van-Gorden Window WAG 44.00 Bird 43 elements/stock Call Thousands of panel meters 3.95 up CALL Belden 9913, 8267, 8214 Stock Call MCA Capacitors Call</p>
Amoco VHF, UHF GaAsFET preamps Call																													
831SP-PL259 Silverplate (Amphenol) 1.50																													
82-61 N Male (Amphenol) 3.50																													
82-202-1006 N Male (99 13) 3.50																													
Double Female UHF 1.00																													
LUG 176 RIGXK each 40																													
Surplus Elbow PL259-SC239 each \$1																													
Receiving tubes 50-90% off list price Call																													
3 Amp HF Meter, 2.5" Round New, Boxed 30.00																													
25 FT 10KV Durok/DuCo Crip 5.00																													
100mF 50V axial cap 4.00																													
Throat Mike (now mt. surplus) 5.00																													
Yaesu FT-747, 757R Call																													
GGTE Morse Tuby 18.00																													

MADISON

Electronics Supply
 3621 FANNIN
 HOUSTON, TEXAS 77004

Madison Electronics Supply — A Reflection by Rick W5RH

Madison 3 element 20 meter beam—Gamma match 8 DB gain	\$59.95		
Madison 10 element 2 meter beam—Gamma match			
13 DB gain	11.95		
Madison 5 element 6 meter beam—Gamma match 9.5 DB gain	15.95		
Madison "Bug Catcher" mobile antenna loading coil 80-10	14.95		
Madison 3 position coax switch	3.95		
Madison SWR bridge kit	9.95		
88 mhy toroids	each	.80	
W2EWL SSB transformer			1.00
Model 15 teletype & table	\$125	Polar relay & socket	\$3.45
Model 14 TD	60	Model 14 strip printer	29.95
Mercury keyer relay	3.95	TG30 terminal repeater	35.00
2" core RTTY tape	case 8	Large single RTTY paper	12.50
RA87A RTTY power supply	9	W2JAV prtd. ckt. board	3.95
Galaxy III Transceiver	\$349	TR-3 Transceiver	\$550
HX-50	325	200V	600
NC-105	80	HT-37	325
NC-140	129	HT-44	395
NC-300	199	SX-88	99
NCX-3 Transceiver	369	8-38E	19
DX-100	97	8-101	195
DX-60	59	SR-150 Transceiver	650
Cheyenne-Comanche	99	SR-160 Transceiver	369
Elmac PMR-6A	39	RME-4300	99
HQ-170C	199	RME-4350	129
SX-43 & speaker	79	Viking Ranger	125
SX-117	379	Eldice SSB-100A	195
75A3	295	Transmitter	50
32V2	195	SP-400 & power supply	50
		Viking Adventurer	29
Dynamotors—250VDC output		Triple section 6' rack	\$150
6VDC input	\$5	SIE 210VDC regulated, 320VDC	
12VDC input	3	unregulated power supply	20
24VDC input	1	Jones Micromatch SWR	18

SPECIALS

Teletype gears 74912-74913	\$5	RME 6900 Receiver & speaker	\$199
-------------------------------	-----	--------------------------------	-------

ALL ABOVE ITEMS F.O.B. HOUSTON, TEXAS. PLEASE INCLUDE SUFFICIENT POSTAGE. EXCESS WILL BE REFUNDED. SEND FOR NEW FLYER!!

MADISON ELECTRONICS SUPPLY
1508 McKINNEY
HOUSTON, TEXAS 77002

CA42668 HOUSTON, TEXAS 77002 JA45298

April Showers Bring May Towers!

NEW HUSTLER 6BTV ... \$139.00
6BTV (80-10) ... 115.00

HYGAIN
TH7DXS 7el triband ... 379.00
TH5DXS 5el triband ... 229.00
V2S Super 2M vertical ... 39.00

CUSHCRAFT
A3 3el-3 band beam ... 179.00
A4 4el-3 band ... 229.00
ARX2B Ringo ... 39.00

AEA
Isopole 144 ... 39.00
Isopole 440 ... 59.00

TRIEX W51 Self-support tower crankup ... FOB CA 799.00

ALLIANCE HD73 ... 99.00
BUTTERNUT HF6V ... 125.00
2MCV5 ... 39.00

BELDEN
RG8X 9258 ... 19¢/ft.
RG8J Foam 8214 ... 39¢
RG8 Coax 8237 ... 36¢
RG213u 8267 milspec ... 46¢/ft.
8448 Rotor Cable ... 27¢
9405 Heavy duty rotor ... 45¢
8205 300 ohm
KW twinlead ... 10¢
8000 14GA
stranded antenna ... 10¢/ft.
CDE HAM-4 ... 199.00
HAM X
Consumers wire
RG214/u nonmil ... 70¢/ft.

Belden, Berktek, Columbia, Consolidated, Consumers
Coax Seal \$2.00

Any new equipment ordered from us can be tested and approved by our factory trained technicians prior to shipment if you request it. This requires opening the box, but the technicians approval card will be enclosed.

MASTERCARD VISA
All prices for Houston except where indicated. Prices subject to change without notice. All items guaranteed. Some items subject prior sale. Texas residents add 6% P.S.E. and sufficient postage. Balance collect. **or 164**

MADISON

Electronics Supply
1508 McKinney
Houston, Texas 77010
713-658-0268
Toll Free orders only
1-800-231-3057

DON'S CORNER

We've noticed a recent trend that has some other dealers charging you a restocking fee and not offering a store warranty. At Madison, we strongly protest. A good radio deserves both a factory warranty and a store warranty. What good is a warranty if the store you bought it from won't honor it and, instead, always ships your unit back to the factory? Madison has always, always, backed everything we sell. We don't charge a restocking fee. We take care of the warranty. Our personal guarantee policy has been in effect for over 40 years — shouldn't this be the year you discover how much it means to you when you buy a new piece of gear?

Madison Ad Proofreading contest: 1st post-card with correct number of errors noted wins a Calrad SWR meter. No purchase necessary to enter.

73&Good DX
DON

DON & BOB'S SUPER BUYS

HY GAIN TH6DX	\$192.00
MOSLEY CLASSIC 33	\$179.00
GREAT BUYS ON 204BA, 402BA, 18AVT/WB, BN86	
BN86	\$15.95
CDE HAM-II ROTOR	\$129.00
18HT HY TOWER	\$218.00
TRIEX W SERIES TOWERS (FOB CALIF.)	
BELDEN 8214 RG-8/U FOAM COAX	23¢/FT.
AMPHENOL PL-259	59¢
CALL FOR QUOTES — TS-520, TS-700A, 210X, BOOKS	
TELSTAR 12V, 2 AMP REGULATED SUPPLY	\$30.00

ALL PRICES FOB HOUSTON

MADISON ELECTRONICS SUPPLY, INC.

1508 McKINNEY AVENUE
HOUSTON, TEXAS 77002
713/224-2668 Nites 713/497-5683

Madison Electronics Supply – A Reflection by Rick W5RH

ALPHA
Next best isn't even close.

Like the Royal Gorge bridge at Canon City—the world's highest, suspended 1053 feet above the Arkansas River—an **ALPHA** hf linear amplifier is in a class by itself! Whatever's "next best" isn't even close!

A "next best" amplifier CAN'T give you **Re Tune Up** convenience with maximum legal power in all modes. ONLY **ALPHA 374A** AND **ALPHA 78** CAN.

"Next best" can't deliver full CW break-in capability AND maximum legal power in all modes, either. ONLY **ALPHA 770x** AND **ALPHA 78** CAN.

Nor will "next best" provide you the protection of a TWO YEAR (limited) FACTORY WARRANTY for amateur service, or an unequivocal "key-down-no-time-limit" full kilowatt power rating. You'd probably have to settle for 90 days and an ambiguous reference to "continuous duty". BUT YOU GET THAT WARRANTY AND RATING WITH EVERY **ALPHA**!

IF NEXT BEST ISN'T GOOD ENOUGH FOR YOU, ALPHA IS THE ANSWER.

CALL FOR QUOTE

MADISON

Electronics Supply, Inc.
1508 McKinney • Houston, Texas 77002 • (713) 658-0268
CIRCLE 33 ON READER SERVICE CARD

MADISON "NEW" SURPLUS

CALL FOR ORDERS: 1 (800) 231-3057
1 (713) 520-7300 or 520-0050

1 (713) 729-7300 or 729-8800
FAX 1 (713) 358-0051

TEXAS ORDERS CALL COLLECT.
ALL ITEMS ARE GUARANTEED OR SALES PRICE REFUNDED.

Receiving Tubes.....\$1.00-\$5.00	New RG-14A/U 40' w/HN male 50.00	Amphenol Silver Plate PL259... 1.50
4-1000A 150.00	Surplus Elbow PL259-SO239... 1.00	8261 N Male 3.50
GE 8072 195.00	Double Male BNC 4.00	N Male For 9913 3.50
100TH 35.00	UG-201 A/U Adapter N male/ BNC female 4.00	3 Amp RF Meter 2.5" new boxed Other sizes available... each 30.00
833A 75.00		25 pf 5. KV Door Knob 15.00
6CL6 9.00		200 pf 7.5 KV Door Knob 20.00
4CX1000A 400.00		.001 µf 10 KV Axial 1.95
4CX1500B 400.00		.0015 µf 10 KV Axial 1.95
5CX1500A 750.00		Throat mike (new) 5.00
Eimac 3CX2500A3 400.00		6000 military ear piece (new) 5.00
Syl 3CX2500F3 400.00		455 kHz if xformer 50
4CX10000 1000.00		Cinch 12 pin plug (fit Drake) 2.00
807 5.00		PHC 10 amp switching 12 amp max 4 pounds 69.00
SK 516 75.00		Ameco Books, Hi-Pass Filters... Call
SK 806 50.00		
New RG-9B/U 40' w/N male... 50.00		

USED EQUIPMENT
All equipment, used, clean, with 90 day warranty and 30 day trial. Six months full trade against new equipment. Sale price refunded if not satisfied.
(800) 231-3057

POLICIES
Minimum order \$10.00. Mastercard, VISA, or C.O.D. All prices FOB Houston, except as noted. Prices subject to change without notice. Items subject to prior sale. Call anytime to check the status of your order. Texas residents add sales tax. All items full factory warranty plus Madison warranty.
Bird and Belden products in stock. Call today.

3621 FANNIN
HOUSTON, TEXAS 77004

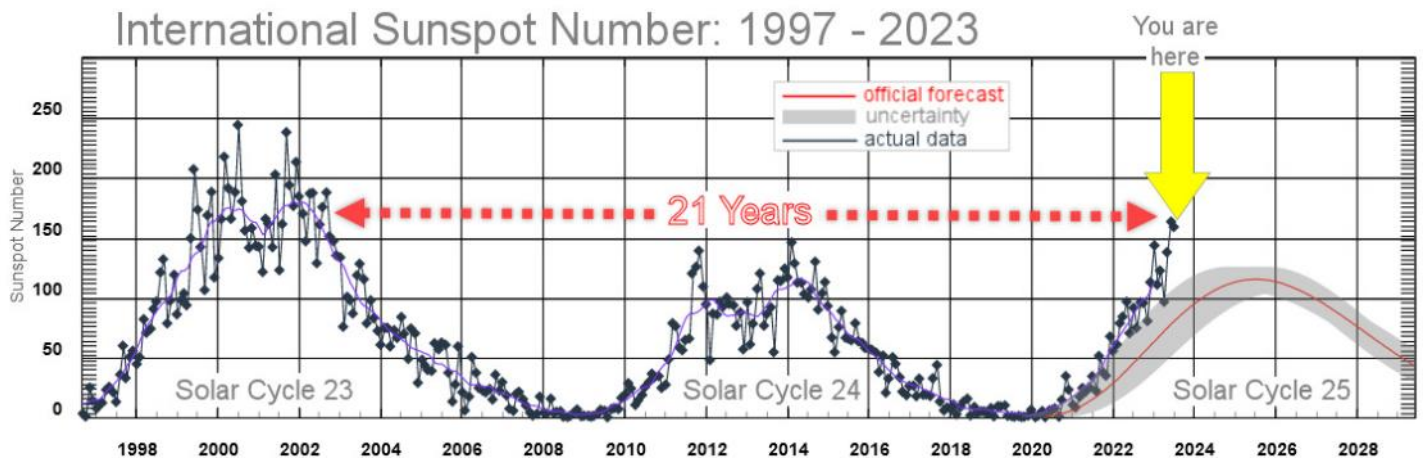
MADISON

JUNE 1
12310 ZAVALLA STREET
HOUSTON, TEXAS 77085

Solar Cycle Update—by Skip Cameron W5GAI

SOLAR CYCLE UPDATE:

This website, Spaceweather.com, began in 1997 with the first stirrings of Solar Cycle 23 (SC23). The timing was right. In the years that followed, SC23 produced the [strongest solar flare](#) of the Space Age (X45), the infamous [Halloween Storms](#) of 2003, and multiple episodes of Northern Lights as far south as [Texas and California](#). Could it happen again? New Solar Cycle 25 is heading in the same direction:



This summer, sunspot counts have hit their highest values in more than 20 years, sharply exceeding official forecasts and putting them squarely in the ballpark of Solar Cycle 23. It's just like old times.

With Solar Max not expected for another year (or more), sunspot counts should continue to increase, further widening the gap between Solar Cycle 25 and its [historically weak](#) predecessor Solar Cycle 24. If, indeed, Solar Cycle 25 does leapfrog Solar Cycle 24 and land in the vicinity of Solar Cycle 23, we can expect at least 3 to 5 years of high solar activity in the years ahead. Stay tuned. **Solar flare alerts:**

<https://spaceweather.com>

I "stole" this from the TDXS Reflector—I hope Skip doesn't mind... But I have to admit I am a bit disappointed that we haven't seen more good 10m and 6m propagation so far this cycle...am I wrong? What do you think??? - Ed.

Texas DX Society Board members

President	STILL OPEN!	
VP Membership	Gerald Muller	gmuller885@aol.com
VP Programs	STILL OPEN!	
Secretary	Doug Seyler, W9LCQ	djseyler at comcast.net
Treasurer	Keith Dutson, NM5G	keith1 at dutson.net
Contest Chairman	Jim Burrough, N5DTT	jandpburrough at sbcglobal.net
Field Day Chairman	Allen Brier, N5XZ	n5xz at arrl.net
Repeater Chairman	Glenn Anderson, WB5TUF	wb5tuf at arrl.net
DX Chairman	STILL OPEN!	
Outgoing QSL Manager	Scott Patout, K5DD	k5dd at arrl.net
Webmaster	Scott Patout, K5DD	k5dd at arrl.net
Bullsheets 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/>

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

**Please notify the Editor if I have missed any-
one or of any updates:**

Frank Wyatt - KC5M
 George Wagner - K5KG
 Bill Wibker - WI5P
 Kirk Kridner - KV5Q
 Randy Thompson - K5ZD
 Brent Levitt - NT5D
 Eric Silverthorn - NM5M
 Trey Garlough - N5KO
 Rick Hall - K5GZR
 Philippe Boucaumont - K5BOU