



founded 1970

THE BULLSHEET

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Texas DX Society
An ARRL Affiliated Club



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The Texas DX Society, P. O. Box 540291, Houston, TX 77254-0291

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Contest Chairman	Dale Martin, KG5U
DX Chairman	Bob Walworth, AK5B
Field Day Chairman	Bob Perring, N5RP
Legal Chairman	
Repeater Chairman	Jim Lane, N5DC

Announcements

Meeting Notice - The Texas DX Society meets on the second Friday of each month, except when the date is changed by the Board of Directors. This month the meeting will take place on **Friday, December 14, 1990**. This meeting will be held at **Gabby's BBQ, 3101 North Shepherd**, which is located one block north of Loop 610 North on North Shepherd and is on the west side of the street. It is well marked by a large outside sign and has ample parking. It has "walk-thru" food service and the group will be seated together off to one side of the main dining area. The gathering should begin sometime between 6:30 and 7:00 P.M. with the meeting starting sometime after 7:30 P.M. Members are encouraged to attend this meeting as it will be the time to consider plans for the upcoming **Annual TDXS Banquet and Awards Ceremony** to be held on **Saturday, January 12, 1991** at Brady's Landing. Jim, N5DC, will have the menu options available for our selection. It also represents the last chance for some of those of you still on the ragged edge to meet the four meeting per year requirement for full membership. Visitors are welcome to attend and may obtain help in finding the location by checking in on 147.96/36 MHz.

Bullsheet Mailing List - TDXS wishes to provide the Bullsheet to those amateurs in the Houston area with an active interest in DXing and contesting. Donations to help defray publication and mailing costs are appreciated. Visitors to our club meetings will receive the Bullsheet for three months free of charge simply by signing the Attendance List and including their mailing address. Articles or other newsworthy items are hereby solicited by your editor. Articles should be submitted in the form of either ASCII files or as MS Word or WordPerfect word processor files. Files

may be uploaded to the TDXS Bullsheet area on K2TNO's Bulletin Board at 713-798-4955, or sent direct to the Editor on either 5 1/4" or 3 1/2" diskette, either DS/DD or DS/HD. If necessary, files may be sent to "Dr. William Schrader" via FAX at 713-790-1275. For those with VHF Packet and having access to any of the local Digipeaters, or able connect directly, ASCII text can be sent directly to the Editor. Contact W5ASP at (713) 974-3455 to arrange such file transfers.

DX Packet Cluster - The TDXS sponsors the Waller County Contest and DX PacketCluster Bulletin Board (PCBS) located in Hempstead, TX operating on 144.990 MHz with the call KE5IV. A local digipeater is operational on 144.990 MHz from the Greenway Plaza area to provide convenient access to this PacketCluster. This Digi has the "alias" TDXS. The suggested procedure is to connect with KE5IV via TDXS (C KE5IV V TDXS) rather than connecting first to TDXS and then to KE5IV. KE5IV may also be reached via IAH, IAH4 on 145.010 MHz. There is a second port operating on 144.91 MHz, also under KE5IV's call. This affords those with higher ERP (i.e. power and/or gain antennas), particularly on the west or northwest side of Houston, the option of connecting directly with Hempstead and has the virtue of giving somewhat faster response.

The Galveston County DX PacketCluster, now located in La Marque, is now active under the call KC5SC and is on 144.93 MHz. It is usually connected with KE5IV via the 446.100 MHz backbone link. Stations in the southern parts of Houston may find it easier to connect with this cluster. AB5A located in Dickinson, about 10 miles northwest of KC5SC, provides digis on both 144.930 and 144.970 MHz to assist in accessing the KC5SC PacketCluster. This Cluster also features a 40 Meter HF Gateway on the 144.930 MHz port.

Both clusters are frequently linked into Austin, Dallas and beyond for added DX coverage, especially during contests. In addition to listing current DX spots, the system provides access to a wide variety of DX related information such as the W6GO QSL Manager list, Russian oblasts, WWV propagation, beam headings, etc.

Users are requested to limit their use of these "databases" to off-peak hours so as to minimize the side effects on others. A quick check of the status shown in the opening message which appears upon connection will indicate the number of nodes/users active at the time. Otherwise all users are encouraged to query the various data banks and make full use of their many features.

The Prez Sez

de Ken, KE5IV

The January TDXS Banquet will be held again this year at Brady's Landing on Saturday, January 12th. Members should be receiving a mailing later on with a listing of meal choices. (Or better yet make the December meeting to see the menus...ed)

The 1991 Officers of the Club are: President - Jim Lane, N5DC; Vice-President - John Stevens, K5JS; Secretary - Butch Barber, K5GB; Treasurer - Dale Martin, KG5U. Please give them your full support in the coming year. John, K5JS, will have the fun position...coming up with the programs each month!

I would like to take this opportunity to especially thank N5DC for all his efforts in the past two years as the Vice-President of the TDXS. He has been a real trooper. He always had a program, took responsibility for the repeater, shuttled correspondence and hardware between the members, and if there was a loose end somewhere, Jim made sure it was taken care of. Thanks, Jim!

We still have ballots out on the three prospective new members, please get them in the mail to the TDXS Secretary, Barbara, WB5RUS. Also, now is the time to get your dues in for 1991. They must be received by January 31. If you miss that date, it'll cost you another ten bucks to get it done.

Elsewhere in this issue you should find the chronological entry sequence of members during the first 20 years of the TDXS. (That's if our editor managed to get it sorted out in time to get it in this issue.)

Some very nice scores were turned in by club members in the past six weeks. They appear in the contest column. If yours isn't there, it's because you didn't make it known in time. Please, everyone...TURN IN YOUR SCORES FOR TDXS!

(And from all the TDXS...THANKS KEN...you done good!...ed)

DX Report

de Bob, AK5B

Well, another quick month is upon us. Got your Christmas shopping done yet? It's never to soon to be dropping those little hints, being subtle of course, using words like "more aluminium", "bigger watts", "this ole radio only has one VFO", "packet sure would help the cause", or "it would be pretty neat to have a computer to dedicate to ham radio so we could keep up with all that the new technology stuff". After all, they keep writing about these things in the ham magazines like QST, CQ, NCJ, etc. You get the idea. Maybe just circle one of the items on this page and leave it in a spot that she, or he, will see (on the pillow maybe?) and who knows. Santa might just appreciate the help.

This month I have another book to report on. If there are times that we can't work 'em, this one will be there so we can read about 'em. Having not seen the book, as it's in the prepublication stage, I'll quote from parts of the article received from The DX Bulletin. Tentatively entitled "Where Do We Go Next?". Marti Laine OH2BH is introducing his first work in the exotic field of DX literature. Running to almost 300 pages, the book is richly illustrated with pictures from the

author's private collection. With over a quarter-century of D-Xploits ranging from one side of the globe to another, putting on the needed rare ones, the new ones for the first time like M-V Island, and potential new ones like Penguin Island (which has been on this week), he's definitely "been there". There probably isn't a DXCC application that's been submitted in recent times that doesn't have a few of Marti's QSL cards included. Don't forget he's one of the few that operated from ZA!

Prepublication price is \$22.95 plus postage. All copies of the book ordered in advance will be personally signed and dedicated by Marti. Shipping and handling for the US is \$3.00. Order from KTE Publications, 2301 Canehill Avenue, Long Beach Ca 90815.

I'm really looking forward to seeing a big turnout at our annual January banquet. This year we will again be enjoying the facilities at Bradys' Landing, though we won't have N5DC to kick around (or was that roll around?). Jim expects to be there without his wheelchair. So much for the main show! Maybe Tuna will come up with a suitable encore.

But the good news is that it looks like K5LZO, Chuck, won't have to have sand along with his January meals. He's back in the states, and I think, ready for a break from the ship-board action... maybe even some DXing and contesting from this side of the pond. So you all be there, should be lots of fun.

Things are kind of winding down right here at the holiday season. Not to much activity now that the "Big Three" contests for the fall season have past, those being CQ WW, the Telephone Pioneer QSO Party (the what?...ed), and the ARRL 10 Meter test.

One operation that I should mention is that by Bob Winters, KD7P/KH2. He plans to activate KH7, Kure Island December 12-21, all bands, SSB, CW, and RTTY (6 meters too).

So till next month, have a safe and happy holiday.

Weekly DX and Contest Net -

Each Tuesday night a 9:00 P.M. local time the Texas DX Society sponsors a net on 147.96/36 MHz. The purpose of this net is to exchange information of interest to DXers and testers. The agenda includes current DX and contest information, QSL routings and related announcements. Stations checking-in are urged to report DX heard or worked locally, band openings, contest claimed scores, and any other information that might be of interest. Participation is not limited to members of TDXS, but is open to all and everyone is encouraged to join in.

Upcoming Events

- December 14.....TDXS Monthly Meeting
- December 25.....MERRY CHRISTMAS
- January 01.....HAPPY NEW YEAR
- January 12.....North American QSO Party-CW
- January 12.....TDXS Monthly Meeting
- January 19.....North American QSO Party-SSB

Could It be I.O.T.A.

de Frank, KC5M

The ARRL operating awards program with its many different categories has been responsible for a major portion of the enjoyment many of us derive from amateur radio. Like many other Hams, I have spent what seems like thousands of hours scanning the bands for that elusive "new one". For me, the thrill of the hunt is an important part of this hobby.

My normal routine is to listen whenever I can, including immediately after work and just before bedtime. On a night just like any other I start listening at the bottom of the band and gradually work my way up to the top. As is my normal practice, I spend a lot of time just above the DX window. This portion of the band has been very good to me in the past and one never knows what may chance by. Several stations were rag-chewing and while that can be interesting, it is not what I enjoy...so the search continues.

Ah, a weak station calling CQ. Nothing unusual about that except this was the week the DX magazines were announcing the possibility of an operation that I needed. Who knows, this could be it. I reach for the headset with one hand and my "need list" with the other.

Where did he go? Ok, there he is. Good, he is still calling CQ. Rats! missed his call sign, wish people would listen before they transmit. Oh, there he is again! Why doesn't he send his call sign? Wait a minute, there he goes. What did he say? "DXpedition?"

As a dedicated DX'er, this word has the ability to create in me a sense of excitement that is obtained in no other way. (Hope my wife doesn't read this.) No matter how hard I try to resist, there can be only one possible response, "MAXIMUM EFFORT!"

Immediately, the amplifier is in the high power position. The antenna begins to rotate. "Come on TS-830 tune, darn it, tune!" The DXpedition operator is almost ready. Once again I wonder if my little station is up to it. From past experience, I know that I must get him early to have a real chance. Ok, I know what I must do. My sweaty hand moves from the radio to the keyer. The DX station gives his call sign. What? That can't be correct. Has my faithful prefix cross reference failed me at this critical moment? Perhaps it is a new prefix. Besides, I really didn't copy him very well. Do I dare miss out? WFWL right?

There is only one possible answer. Into the pile up I go. He sends..."up five". Ok, I'll try seven. My hands are shaking with excitement. Well I'll be darned, he got me right off! That was not nearly as difficult as most pile ups. Remember that 3Y pile up? It took almost two weeks!

I sat back and felt rather proud of my little station. Only one problem, he has my call sign and I still don't have his. Besides, I need the QSL information. OK headphones, do your thing! There he goes again. What did he say? An island off the Italian coast!

Welcome to the world of I.O.T.A. Nearly everyone has heard of I.O.T.A. but I doubt that many have actually participated in its activities. As a DX'er, you run into a big problem about the time your DXCC country count passes number two hundred. That's right...things start to slow down. The next new one can be a long time in coming. This is when I.O.T.A. can be very helpful by filling that void and help to maintain your interest while waiting. It is well worth looking into.

First introduced by Geoff Watts in the mid 1960's, I.O.T.A. is an awards program, now administrated by the RSGB, for DX'ers who wish to expand their DX'ing activities by making

contacts with islands or island groups world wide. In this activity, sixteen separate awards are available including an Honor Roll. The basic award is the I.O.T.A. 100 which represents confirmation of 100 of the listed islands or island groups.

The official listing of qualifying island groups can be obtained for \$4.00 from VP2ML at the following address: Mr. Chod Harris DX Bulletin P.O. Box 50 Fulton, Ca 95439

Instructions for award applications and QSL verification for North American stations are handled by W4BAA/8. This means your QSL cards remain stateside for approval. Information about this procedure can be obtained from the following address: Mr. Dewitt L. Jones P.O. Box 379 Glen Arbor, Mich 49636

I would encourage you to investigate the I.O.T.A. program and give it a chance to work for you. It can be a lot of fun. See ya in the pileups!

Contest Scores

CQ WW DX SSB

K5MA/1 1138 X 207 X 63 = 885,870 SO A/B
KI3L 1094 X 367 X 131 = 1.46 M SO A/B

ARRL SS SSB

W5WMU 2280 X 77 SO
NR5M 2208 X 77 SO
W5ASP 1402 X 77 SO
KI3L 1074 X 75 SO
K5MA/1 809 X 77 SO
NZ5I 525 X 72 SO
KE5FI 146 X 55 SO
K5GA 105 X ?? SO
K5WA 100 X ?? SO
KD5SP (NT5D & NM5M) 1596 X 77 MO

CQWW CW:

K5GA 1328 X 120 X 37 = 612,547 SO 15M
W5WMU 1140 X 111 X 35 = 457,710 SO 15M
K5MA/1 1609 X 359 X 127 = 2.3 M SO A/B
KI3L 622 X 242 X 105 = 600,657 SO A/B
NR5M 550 X ? X ? SO
ZP0Y(WN4KKN) 4920 X 357 X 137 = 7.2M SO A/B
N5EA (N5EA, W5ASPM, W5VAJ, W5VWN)
1456 X 388 X 134 = 2.17M M/S

ARRL SS CW

K5GA 1271 X 75 SO
K5MA/1 1023 X 75 SO
N5DU 654 X 77 SO
W5ASP 585 X 72 SO
KI3L 401 X 71 SO

ARRL 10 METER

KI3L 1427 X 186 SO MIXED
KC5CP 1050 X 185 SO MIXED
NR5M 3260 X 173 SO SSB
W5ASP 700 X 105 SO CW
K5WA 510 X 96 SO CW
NZ5I 375 X 73 SO CW
WB5RUS (WB5RUS & K5LZO) 700 X ?? MO MIXED

Dispatches From The Colonies

de Jan, K5MA/1

(The following is an extract of a recent letter from Jan, K5MA, who now resides on the shores of Buzzards Bay in the quaint village of West Falmouth in the Massachusetts colony. Those of you not familiar with such rural areas will find that even here amateur radio has gained a foothold and that two-way communications with the outside world are not at all uncommon...ed)

"I keep reading the Bullsheet and noticing lots of TDXS members contest scores listed, but never see anything for either K5NA or myself." (They made the February, May and October issues, but you know how these New Englanders are about top billing...ed) "I guess we have nobody to blame but ourselves because we don't communicate so well. I guess it's easy with the local repeater available to exchange scores, but I guess I have to resort to the US Mail."

(Jan included his recent scores which are listed elsewhere in this issue...ed)

"The only one of the four contests that was an all-out effort was the CW SS where I went the full 24 hours and got my tail beat...didn't even come close to the top ten. The Phone CQ WW was intended to be single band ten meters, but we have an untimely death of our next door neighbor on the Saturday night and I missed most of Sunday. I spent 31 hours in the CQ WW CW contest and about 10 hours in the SS Phone.

The antennas here consist of the following. 10 Meters: Modified (N6ND design) 105BA 5-el monobander at 80 ft.; 15 Meters: Modified 115BA (computer optimized) 5-el monobander at 70 ft.; 10/15/20 Meters: TH6-DXX at 80 ft.; 40 Meters: Sloper on Europe with top at 80 ft.; 80 Meters: Quarter-wave slopers NE and SW from 75 ft.; 80/160 Meters: 256 ft. Zepp, center-fed with tuned feeders with the middle 70 ft. at 75 ft. height and the end 90 ft. sections sloping from the two towers.

As you can see, the low band antennas are not very competitive. I still have my old Cushcraft 40-2CD 2-element Yagi, but it won't be put up until next summer. The 80 foot tower (presently with the TH6) will end up with a 205BA at 80 ft. and the 2-el 40 at 90 ft. in the configuration I originally had at this QTH before I was transferred back to Houston. The 70 foot tower has the 10/15 monobander stack with a Cushcraft 3219 2-meter yagi sandwiched between. Plans for 160 are to load the 80 foot tower shunt feed style against ground radials. That's a project for next summer.

Rigs consist of my old antique Drake C-Line and my old TS-430S mobile rig used as the primary rig. Amplifiers are the old SB-220 and my new Henry 3K Classic MK III (with 160). As you can see, I'm due for a new, modern radio in order to be competitive in contests.

Hope all is well with the guys in the club. Will try to get by to see them when next in Houston which now appears to be the ENTLEC Conference in March '91. Will keep you informed."

(Jan's address is P.O.Box 930, West Falmouth, MA 02574 and he can be contacted on packet at K5MA @ KA1THM.MA or on the YCCC PacketCluster via various HF gateways...ed)

DX Notes

(The following was forwarded to TDXS by Ed, NT2X, and came from Romeo Stepanenko, 3W3RR, in Moscow...ed)

"My second DXpedition to Spratly Isl. is delayed and would begin early next year, because I've received a license to operate from Afghanistan. This has just been checked by the DXCC desk and was found acceptable by their requirements.

My callsign is YA0RR. I hope to start my operation at the end of December 1990, immediately after the necessary sum of money is collected. It depends on you how soon you can hear YA on the air. Your "green stamp" may be the last donation I need to start my operation from YA.

All donations are very much appreciated and should be sent to the following addresses.

For individual donations: Edward Kritsky, NT2X, P.O.Box 715, Brooklyn, NY 11230, USA.

For DX Associations: Account #307538, Cambridge Savings Bank, Harvard Square, 1374 Massachusetts Ave., Cambridge, MA 02238, USA.

You will see your logo on my QSL card. All QSL information and operating frequencies will be announce later. Hoping to get your help.

My FAX in the USSR (095) 200-2216, for MBILTD 5759
(095) 200-6511, for MBILTD 5759

My TELEX in the USSR 411700 PTB SU, for Stepanenko 4323."

(According to Ed, "The expedition is scheduled to take place in the last week of December, and will last for 2-3 weeks, if enough funds are collected. Romeo will be the only operator, as they will not issue more licenses. The reason for such a 'rush' (expedition being organized on such short notice) is because of political instability in YA. Romeo's license is valid until March 15, but he wants to have an operation as soon as possible and get out of Afghanistan."

For further information contact Edward Kritsky, NT2X; Packet Address - NT2X @ WA2SNA.; MCI Mail 443-9156; TELEX 650-4439156MCI UW; Phone (718) 284-4493...ed)

ACHTUNG!

de Der Oberfuhrer

Alles Lookenspeepers! Das computenmaschine ist nicht fur gefingerpoken und mittengrabben. Ist eashish schnappen das springenwerken, blowen das fusen, und poppen das corken mit spitzensparken, und donner, und blietzen und den alles ist kaput. Ist nicht fur gewerken mit das dummkopfen. Das rub-bernecken sightseeren keepen die hande innen das pocketen, relaxen und wachen das blinkenlichten!

(Sign seen over the operating position at W5SJS...ed)

Incoming QSL Cards

The ARRL DX QSL Bureau consists of a number of separate call area bureaus that handle the incoming QSLs arriving from foreign countries. This service is free of charge and does not require ARRL membership. For the Fifth Call Area the address is: **ARRL Fifth (5th) District DX QSL Bureau, P. O. Box 44246, Oklahoma City, OK 73144.**

To claim cards ARRL recommends sending the bureau a number of 5 x 7 1/2 in. SASEs. To assist TDXS members in this Bob, AK5B, has obtained a supply of envelopes. He will provide 10 of the 5 x 7 1/2 envelopes along with a single 6 x 9 in which to mail them to the bureau for \$1.00. If you are interested, catch him on the repeater or call a day or so before the monthly meetings.

Full details about this ARRL service appeared in the June 1989 QST on page 72 under the heading "QSL Corner".

For those who expect to receive large quantities of cards here are a couple of suggestions. (1) Place \$1.00 postage on each 5x7 self-addressed envelope, (2) Have the post office stamp "THIRD CLASS" in the lower left, (3) Attach a label "50 Cards Minimum" beneath the "THIRD CLASS", (4) Put your call in the upper left and (5) Number the envelopes consecutively (so you will know where you stand as you receive them back from the bureau).

This approach will save a lot of agony with postage due and avoid small mailings which use up envelopes needlessly. The time delay in using Third Class won't be noticeable.

Outgoing QSL Cards

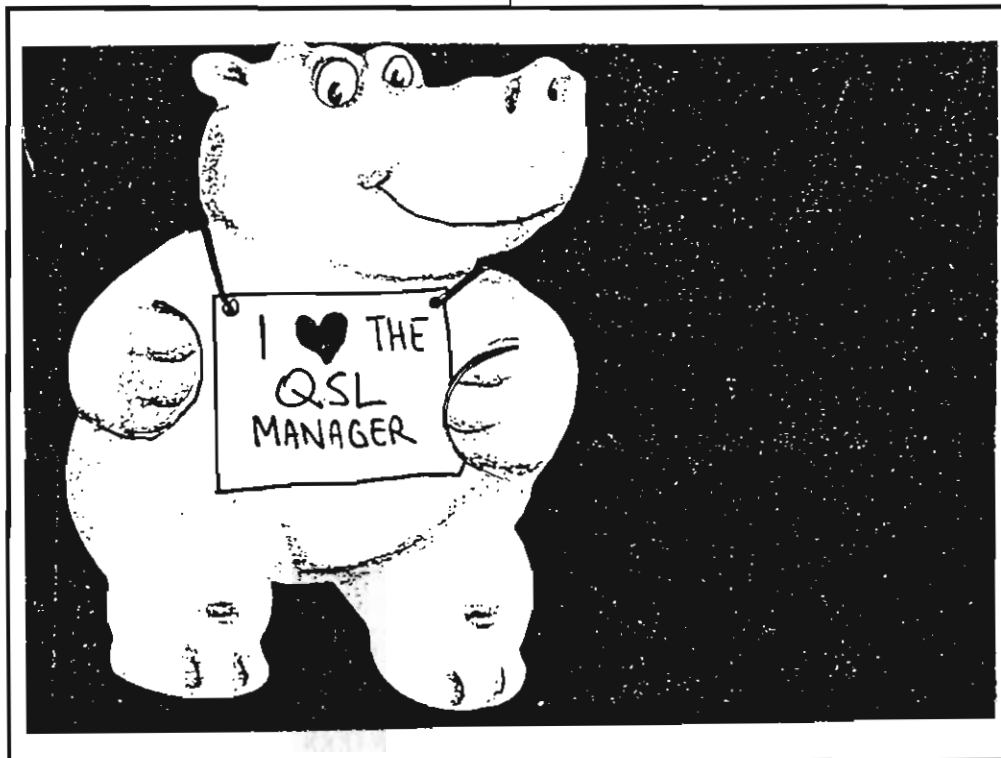
The ARRL provides a service to its members which allows them to send DX QSL cards to foreign countries at minimum cost and effort. TDXS members can take advantage of this service by getting their cards to KG5U, who will in turn forward them to the ARRL Outgoing QSL Service. TDXS pays the nominal service fee of \$2 per pound as well as the postage.

Those wishing to use this route for their cards must sort their DX QSL cards alphabetically by country as shown on the ARRL DXCC Country List. This means that the prefix ES or LY goes with the Russians, XQ and 3G with Chile, AZ and L2 to Argentina, etc. However, it is not necessary to sort within a given country, i.e. all Russians may be lumped together, don't sort RA, UT, LY separately.

Keep in mind that QSL's for DXpedition operations usually go the country of the operator, e.g. JW9XG via LA9XG, 3D2XR via SM7PKK, etc. Many foreign stations have stateside QSL managers. These cards may be included with the "K's". By the way, most caribbean stations turn out to be non-residents, so send such QSL's to the operator's home country.

There are number of DXCC countries not served, e.g. many U.S. territories (KH3, KH7, KH9, etc.) and countries such as Taiwan, Egypt, Nepal, etc. A complete list currently appears in September 1989 QST, page 65.

Finally, each TDXS member must include his QST address label with each group of cards submitted. Contact KG5U if you have any questions (before you drop the cards on him!).



TDXS MEMBER ENTRY SEQUENCE

1	K5PFL	(K5NA)		64	W5SJS		
2	K5RLW	(N5WW)		65	K5EJO		
3	WA5UHT			66	K5VWW		
4	K5SOR		1971	67	K5TP		---1979
5	K5PFE		--- Charter	68	W5VUM		
6	K5LZJ	(N5AF)	Members	69	WB5YJX		
7	K5DEG	(VP2VM)		70	K5IY		
8	W5JAW			71	WD5GXI	(NM5L)	
9	K5ZJK	(NX7S)		72	W5SG		
10	WB5CKM	(K5ZR)		73	W5PTJ	***	
11	WA5YEL			74	W5URN		
12	W5SBX	(K5MA)	---1972	75	WB5PBA		
13	WA5LES	(K5RC)		76	K5AAD		
14	K5LWL	(K5GA)		77	WB5FSF		---1980
15	W5ZR	(W5NA)		78	WA3OVC	(KN5H)	
16	K5AAD			79	KN5A		
17	WA5ZNY	(N5JJ)***	---1973	80	WB5WHR	(NM5M)	
18	W5RTQ	(K6SE)		81	N5CDO	(NA5R)	
19	W5WMU			82	N5EA		
20	W5NMA	(K5DX)		83	KA5F		
21	WA5WQF	(N5DM)		84	KD4M		
22	WA5WCT	(K5TU)		85	W5JQ		
23	WB5HOD	(AC5K)	---1974	86	KB5FU		
24	K5LZO			87	W5ASP		---1981
25	W5JWM			88	N5DC		
26	WB5GJD			89	KA5GJO	(KD5SP)	
27	WA5APD	(KD5MR)		90	KN5T		
28	WN5MYO	(WB5MYO)		91	KG5U		
29	WB5IFY	(AA5Y)		92	KU5I		
30	K5KYU	(K5JS)		93	KC5CP		
31	W5WZQ	(W5UN)	---1975	94	KA5FUI	(KE5TF)	---1982
32	WB5IGX			95	AK5B		
33	WB5QWX	(KZ5M)		96	KC5M		
34	WB5OOW	(K5GN)		97	KV5Q		
35	W5RRX			98	K2TNO		
36	WB5PTW			99	W5LLU		---1983
37	WB5CFI		---1976	100	KY5A		
38	K5BZU			101	K5RVK		
39	WB5QDW	(K5ZD)		102	WA5ZVE		
40	WB2UFG	(K5WA)		103	KE5FI		---1984
41	W5OIB	(K5NU)		104	WA5PQK	(NR5M)	
42	WBONFY	(KE5IV)		105	KF4VS		
43	K5KG		___1977	106	NT5D		
44	N5AM			107	WA9VLI		---1985
45	K5GB			108	N5RP		
46	WA5NGH	(N5DU)		109	NZ5I		
47	N5RO			110	W9AGH		---1986
48	K5CNN			111	WB5N		
49	K5FP			112	N5AQT		---1987
50	W5ZQR			113	WX5S		
51	K5HXR	***		114	KF5MY		
52	N5RF			115	K2UA		
53	WB5USV			116	NN5O		
54	WA5TMN		---1978	117	WB5BIR		---1988
55	N5ZR			118	GW0ECO		
56	AD5W			119	WB5RUS		
57	K5WS			120	WN4KKN		
58	W5HNS			121	K5VMX		---1989
59	W5DOZ	***		122	AC5K		
60	K5YCP			123	KI3L		
61	WD5CHY			124	K5LLL		---1990
62	WD5CBA	(WI5P)	---1979	125	K7WOC		
63	WB5LVL			126	K5XI		

*** Silent Key