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THE BULLSHEET

Official News Bulletin of the
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	Bob Evans, N5DU
DX Chairman	Steve Smothers, WA9VLI
Field Day Chairman	Mike Davidson, KC5CP
Legal Chairman	Sid Leach, K5XI
Repeater Chairman	Brent Levit, NT5D

Weekly DX and Contest Net - Each Tuesday night at 2100 CST, the Texas DX Society sponsors a DX and contest net on 147.96/36 MHz.

The purpose of this net is to exchange information of interest to DXers and contesters. The agenda includes general and club announcements, DX information, contest information, QSL routings, propagation forecasts and related topics. Participation is not limited to members of TDXS, but is open to all and everyone is free to join in.

For Sale - Two (2) KLM 435-18C Circular Polarized 420-450 MHz 18 el beams; 7 ft. boom, 12 db gain, w/ CS-2 boom mounted Circular Switcher (RHC/LHC) w/ 2-port power divider and matching transformer. New, Assembled (but never used!) AES retail: \$235 (435-18C), \$72 (CS-2); Sale Price; @ \$150, or 2 for \$275. Contact Joe, W5ASP (713) 974-355.

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 September meeting will take place on **Friday, September 11, 1992**.

The meeting will be held at the **Emergency Operating Center at 330 Rusk**. This facility is run by the City of Houston Office of Emergency Management, and is located at the corner of Rusk and Bagby on the northeast corner of the Coliseum and Music Hall. There will be free parking available in the lot behind the entrance to the "Cave", as it is known. The regular club meeting will begin at **7:30 P.M.**

Visitors are welcome to attend the meeting 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 encouraged and appreciated.** Visitors to our regular monthly club meetings will receive the Bullsheet for several 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 area on KB5NFN's Bulletin Board at 713-777-0821, or sent to the Editor. If necessary text may be sent to via FAX to the editor by prior arrangement. Files or other messages may be sent to the editor via CompuServe or Internet to 71045.2632@compuserve.com.

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 for either fax or packet transfers. Publication deadline is the first Friday of the month.

The Prez Sez - de Bill, K5GA

(Actually the Prez Sez nothing. He missed the publication deadline again! After his nasty remarks in last month's column, I shouldn't bother to cover for him. But there's a couple of items worth mentioning. Pardon the lack of an East Texas twang, but here goes..ed)

Glory be! TDXS has come up with some ideas for a DX and Contest Forum at the November convention. **Dale, KG5U** will address the deserving on the basics of getting into the DX game. Now that all the old salts have dropped by the wayside with their "worked 'em all" nonsense, it's high time to bring some new blood into the eternal hunt. Dale will introduce the initiates into the mysteries of DXing and set them upon their way to greater glories.

This will be followed by a **Jim and Mike** "two-step". **N5DC** and **WB5USV** will explain the how computer logging software can ease the burden and brighten the life of the newly anointed DXer. Jim will tackle 2ND OP and Mike will do DX BASE. Rumor has it that their computer wizardry will be projected on a monster screen will full Dolby sound.

Our special guest speaker will be **Dick Fenwick, K5RR** who will share his wisdom and experience on "HF Antennas for DXing". (This is one for all hands, new or old!)

Wrapping up the program will be the excellent video of the World Radio Sport Team Championships. It features some of the best contest ops in the world doing their thing in head-to-head competition.

And yes, **George, NR5M** will be at his usual stand hawking those tickets to any and all who long for this year's special treasure. The local watering hole will again be in the capable hands of **Bill, K2TNO** our master of the Hospitality Suite.

Ham Radio Bulletin Boards (BBS)

de Ron, KB5NFN

(This is the second of a two articles discussing telephone access, amateur radio oriented bulletin boards. This month Ron shows us how to actually navigate on an Opus BBS..ed)

What do I do now?

Sound familiar? Namely, you've gotten somewhere on a BBS and can't get out? While I can't tell you where to go on any BBS package generally, I can tell you where to go on the Opus setups that I have on Cell Bio and Pegasus. (Of course, I'm sure where you want to tell me to go when you get lost too. HIHI). Clip this out! Tape it to your computer! Refer to it often!

Main Menu: Let's start with when you first log in, after you've entered your name and password. After a few informative displays, you're at the Main Menu. The big question to ask yourself here, where do you want to go? Messages or Files? Pick one, and follow the directions below. When you're finished on the system, please use the Goodbye command to log off. Just having your computer drop carrier (hang up the phone) on the BBS is not very nice. Press the 'G' key and hit enter. You will be asked if you're ready to disconnect. Simple yes or no. You will then be asked if you want to leave the sysop a message. Also yes or no. If yes, refer down to entering a message below. In either case, the system will hang up when you are finished.

Messages: So you want to read messages first. Great! Press the letter 'M' and hit enter. Now you're at the message menu. More often than not, you're in the area of local messages. This information will be shown right above the actual message menu. Is this where you want to be? If yes, read further ahead. If no, hit the letter 'A' and press enter twice. This will give you a list of all the message areas available to you.

When prompted, enter the number of the message area in which you wish to enter, then press enter. You're back at the message menu again, this time in a different message area. Now, is this where you want to be? (sound familiar?) If no, go back one step. If yes, read on.

Here, you have several choices. Most common is the List command. This lists the messages available to you, showing the sender, who the message is directed to, and the subject of the message. Hit the letter 'L' and press enter. You will be asked which message to start with. Generally speaking, you will want to start about 50 messages back from the total number of messages available. That number is usually 200, so entering 150 will usually be sufficient. This will then cause the last 50 message headers to be shown on your screen.

If you see an interesting message, remember, or better yet, write down the number of the message. When you finish seeing the list of messages, and are returned to the message menu, just type in the number of the message and press enter. The message will be shown on your screen.

Do you want to enter a message? If no, read further ahead. If yes, then ask yourself something else. Are you in the message area where you want to enter a message? For example, you don't want to enter a message to the sysop in a national message area. Nor do you want to enter a scuba diving message in an amateur radio message area. If you're not in the area you want to be in, refer above to changing message areas, then refer back here. Now, press the letter 'E' and press enter. You will be asked to enter information on who the message is for, and the subject. Enter the information as requested and hit

enter after each. You will then be put into the message editor. Those familiar with WordStar commands will have an easy time, as the editor is based on those commands. Enter your message as you would in any text editor. When finished, hit the Control-Z combination (just like on packet), and the BBS will save the message.

Finished with messages now? If not, refer back to the messages heading above. If so, press the letter 'M' and hit enter. You're back at the main menu. Refer back to the main menu heading above.

Files: Files! Fill up your hard drive! You're now at the File menu. First and foremost, what topic of files are you here for? Press the letter 'A' and press enter twice. This will give you a listing of the file areas available. Enter the number of the file area you wish to enter. If you don't see the area of your topic, it probably means there hasn't been enough files to warrant a separate area. In that case, choose file area 'I', the unclassified area. Now, let's see what files are available. Hit 'F' and press enter. You will then be shown a list of the files available in that message area.

The next question, do you want to send (Upload) a file to the BBS, or do you want the BBS to send (Download) a file to you? For Uploading, refer to the upload heading below. For Downloading, refer to the download heading below. If you're finished, press 'M' and hit enter. This will return you to the main menu. Refer back to the main menu heading above.

Uploading: Thank you! All SysOps appreciate uploads. First thing that should be noted. I can tell you how to set the BBS to receive the file, but not knowing what communications package you are using, I can not tell you how to start the file transfer on your end. Owing to the number of different packages out there, I'm not even going to try. Thus, you need to make sure you know how to use your communication program in doing file transfers.

From this point, double check to make sure you're in the right file area. If not, refer back above to changing file areas. Otherwise, press 'U' to indicate an upload. The system will then prompt you to select a protocol. Experienced users should pick one of the more efficient protocols available. Otherwise, choose the faithful and reliable Xmodem-CRC protocol. The system will prompt you to enter the name of the file you will be sending. Enter the filename, then press enter. You will then be told to start the file transfer. At that point, you need to start the file transfer on your own system.

After the file has transferred, you will be asked to enter a description about the file. Please enter a short, yet descriptive definition about the file. It is that one or two lines that determines if someone else will find the file useful. Descriptions like 'A good program' are not considered acceptable. What does the program do? From this point, you're back at the file menu. Refer to the files heading above.

Downloading: Ah, so you've found a file that interests you. Did you remember the name of the file as shown in the list? Good. The first thing I should note, I can tell you how to set the BBS up to send the file, but I can not tell you how to start the receive on your communications program. You need to make sure you know how to use the file transfer capability on your com package before attempting a file transfer.

Now, press the 'D' key and hit enter. The system will then prompt to choose a transfer protocol. Experienced users should pick one of the more efficient protocols. Otherwise, choose Xmodem-CRC, the old faithful and reliable protocol. You will then be prompted to enter the name of the file you want sent to you. Provide that information, and press enter. The system will then indicate you should start the file transfer on your end.

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Once the file transfer has been completed, you will then be returned to the file menu. Refer back to the files heading above.

Again, clip this out and keep it with your computer. I hope I've written it simple enough to follow. Of course, if there are any questions, comments etc., and I can't stress this enough, please don't hesitate to contact me. Either on the repeater, by voice (772-1466) or pager (994-3573). I do have answers, but I can't foresee every question and try to answer it here.

PacketCluster Ver. 5 - DX Filters

de Dave, N3RD

(The following is a reprint of parts of an article appearing in the July 1991 *Frankford Radio Club Newsletter*, and later in the August 1991 *TDXS Bullsheat*. In view of the current discussion as to the merits of putting out on the local PacketClusters those DX spots originated by the Midwest and East Coast, the use of the DX filter feature of the AK1A PacketCluster software is worth reconsiderig..ed)

Version 5 allows EACH INDIVIDUAL USER to decide what type of output he want to get from the PacketCluster. The list of "switches" which can be either on or off includes:

- Normal and WX announcements
- **DX announcements**
- New mail announcements
- Talk messages
- WWV announcements
- Beeps
- Login/logout announcements (if enabled by the sysop)

All functions default to "ON," as we're all accustomed to having it. If you decide that you want to turn off normal announcements, you would type SET/NOANNOU, and from that point on IN THE CURRENT SESSION ONLY, you would receive no more normal announcements. When you disconnect, then reconnect, you're back to the default setting of "ON" for all these functions. (There is a way to make these switch settings permanent...more on that later.)

Turning off some of these functions tends to reduce the number of packets which are sent on the user frequency, as compared to sending everything to everybody. However, Version 5 offers a much more powerful traffic limitation device: the SET/FILTER command. With this command, each user can set up DX announcement filter(s), depending upon his personal preferences and needs. The filters can be set up by specific country, band and mode. Leaving out the optional mode identifier (CW or SSB) defaults to ALL modes. Using the keyword ALL for either band or prefix provides a quick method for screening out everything called out on certain band, or screening a particular prefix or prefix list on ALL bands. As many SET/FILTER commands as required by your preferences can be entered. The general form of the command is:

SET/FILTER/mode/BAND=(x,x,...,x) prefix(es)

where:

mode = CW or SSB (optional)
x = 160,80,40,30,20,17,15,12,10,6,2 or ALL
prefix = country prefix list of ALL

Some examples will help to clarify this command's use

- SET/FILTER/BAND=(10,15,20) G,EA,F,DL
Filter G,EA,F & DL on both modes on 10, 15 and 20

- SET/FILTER/BAND=(30,17,12,6,2) ALL
Filter ALL callouts on WARC and VHF bands

- SET/FILTER/CW/BAND=(160) ZA,XZ
Filter 160 meter ZA and XZ CW callouts (need SSB only!)

- SET/FILTER/BAND=ALL W,VE
Filter W and VE on all band, all modes

This command is great!! If you have no interest in WARC and VHF band callouts, do as I did and type in the second command above. You will never again be bothered by callouts on those bands. I also installed the fourth command, since I don't chase IOTAs, grid squares, or special events stations. Use of the PacketCluster filtering capability is much, much better than that offered by end-user filters (such as DXBase and Cluster-Log), not that there are better or more filters available, but that THE PACKETS ARE NEVER SENT IN THE FIRST PLACE, if you don't want them. This will go a long way towards keeping the traffic on the frequency down to the bare minimum required to satisfy the users of that node. Delivery of packets to all users is sped up and people aren't bothered by output they don't want. Everybody wins!

There is one caveat attendant to SET/FILTER. After having done multiple SET/FILTER commands, which are PERMANENT, unlike the switches described above, there is no easy way to determine the exact nature of your filters. You can do a SHOW/FILTER prefix, and the system will tell you which bands and modes are filtered for that particular prefix, but if you had set up a diverse and elaborate filtering scheme, it would be difficult or impossible to decipher.

Your best bet is to write down on paper those commands which you enter, so that you can reverse them later if need be with a SET/NOFILTER command.

If all else fails, you can erase all your filters with one global command:

SET/NOFILTER/BAND=(ALL) ALL

I mentioned earlier that you can make the previously described "switch" setting permanent. Type the command U-Pload/Usercmd. You will be prompted to enter text, just like sending a message. Enter each and every command which you would like to have permanently set, as well as any command you normally issue when you connect into the system. A typical Usercmd file might look like:

```
SET/NOLOGIN
SET/NOLOGOUT
SET/NOWWV
SH/D
DI
```

Those commands will be executed in that exact order each and every time you connect into your node. If you wish to revise your Usercmd file, merely U-Pload a new one!

Upcoming Events

September 11.....Texas DX Society Meeting
September 12.....European (WAE) DX Contest SSB
September 13.....NCJ NA Sprint SSB
September 19.....Scandinavian CW Contest
September 26.....Scandinavian SSB Contest
October 03.....California QSO Party
October 09.....Texas DX Society Meeting
October 10.....W5 DX Bash, Lake Buchanan, TX

PacketCluster Power

de Scott, NB9C

There are several databases available on most PacketCluster nodes (for a complete list, type SH/COMMANDS) that are either directly resident on your node or available from a nearby node. For the most part, these databases are "free" in that they do not cost money to have them on the node. Unless, of course, you count the time that the Sysop has invested in maintaining the databases and the long distance calls to download the files.

There are two databases, however, that do cost money and it is important that the user community understand the relationships and how you can support the efforts of your Sysop in maintaining these databases. Do you know which databases they are? The two most used databases, of course. What are they? The W6GO/K6HHD List and Hamcall. These two databases are used by more people in a given month than all the other databases combined.

The W6GO/K6HHD List is available on PacketCluster as a service to Jay and Jan's subscribers. Each month the Sysops receive a report of the percent of users who have checked into their node in the last three months who are also subscribers. Jay and Jan's benefit of being on PacketCluster is that the Sysops will upload to them QSL information supplied by our users (and their subscribers). This allows Jay and Jan to get more accurate information out to their subscribers faster.

As a user of PacketCluster, you may access this information on the node whether you subscribe or not subscribe. But you should understand that if the amount of subscribers declines because of PacketCluster access, there will be no List on PacketCluster because the service is subscriber supported. The fact of having over 15,000 QSL routes being immediately available to a user is not a thing to lose, especially considering the accuracy of the routes. And Jay and Jan had a nice business going before PacketCluster anyway.

How can you support this database as a user? The absolute best way is to be a subscriber to the W6GO/K6HHD List. If you think about how often you use this database for "free," you will quickly conclude that subscribing to the List to support the database makes a lot of sense. The second way to support the database is to provide QSL routes for all users of the Midwest Cluster by adding routes to the QSLNEW database. To add a route, simply type UPDATE/QSLNEW, and you will be prompted for the information needed.

The second database is Hamcall. Hamcall provides a name and address listing of US callsigns AND now includes over 70 other countries in the listing (yes, it keeps growing...). This database must be purchased by a subscribing Sysop within the Midwest Cluster. This comes out of your Sysops pocket and your Sysop's computer. The latest version takes 35MB of hard disk space! The best way to support this database is to provide contributions to your Sysop. This can be done individually, or it can be club sponsored. Both methods are used in Wisconsin and I do not know how it is handled in the other states. Check with your Sysop for the method used by the subscribing Sysop. That's it for this month. Over 1,500 callouts were made during WPX SSB, and as I write this, the WPX CW contest is roaring along. Keep up the callouts.

Due Dates

(Contest Logs must either be postmarked (*) or received (!) by the dates listed...**Get Your Logs In!**)
 September 15.....NA QSO Party Phone

Contest Scores

Claimed

K5RC.....436 Q x 101 M = 44K
 W5ASP.....451 Q x 138 M = 62K
 K5WA.....250 Q x 100 M = 25K
 KI3L/5.....317 Q x 104 M = 33K
 AA5NK.....78 Q x 59 M = 4K
 K5GA.....20 Q x 12 M = .2K
 N5DC.....40 Q X 20 M = .8K
 K5LLL(w/KB5NFN)...342 Q x 122 M = 42K

West Texas DX Assoc. W5 DX BASH

de Ken, KE5IV

Saturday, October 10 & Sunday, October 11. This is an open invitation to all DXers, Contesters, True Believers, QRPers, DX Cluster Users, Antenna Nuts, Big Guns, and Little Pistols to come join us. Bring your YLs and XYLs, the gals had a great time together last year.

Location:

W5KFT's ranch on Lake Buchanan northwest of Austin. The repeater frequency is 146.06-146.66.

Special Features and Discussions:

Rotating Towers, DX PacketCluster, Contesting, Antennas, Great DX Feats, Contest Stations, and DX Hog of the Year.

Special Guests:

Danny Weil: VP2VB, FO8AN, HC8VB, and many, many more calls will be in attendance on Saturday, October 10.

Bob Winn, W5KNE and Lanny Phillips, W5BOS - D-Xpedition to VK9 Christmas Island.

Bill Sattler, N0XX - DX Engineering Products: 1.) Yagi Stacking, 2.) Building the AA6TT Super Station.

Dick Weber, K5IU - 1.) Antenna Design & Construction, 2.) Low Band Systems with Elevated Radials.

Kurt Pauer, W1PH - Stacking Contest Antennas on a Single Tower.

Les Bannon, WF5E - W5 QSL Bureau Manager will be on hand. Some of the sorters will be on hand to personally deliver QSL Cards.

Schedule:

Saturday, October 10

8:30 A.M.- 9:00 A.M. -Coffee and Donuts

9:00 A.M.-12:30 P.M. -Lots of DX, Contest, Antenna Talk

12:30 P.M.-1:30 P.M. -Lunch at the Ranch (see Registration)

1:30 P.M.- 6:30 P.M. -More DX, Contest, Antenna, es BS

7:00 P.M.....-Bar-B-Q Dinner at Big John's, locate at the Intersection of Hwy 29 and Hwy 1431, about 7 miles south of the ranch (Dutch Treat)

8:30 P.M. til ?.....-Back to ranch for more DX info

Sunday, October 11

8:30 A.M.- 9:00 A.M. -Coffee and Donuts

9:00 A.M.-11:30 A.M. -More talk about DX, Cluster, and etc.

11:30 A.M.-1:30 P.M. -Charter trip Vanishing Texas River Cruise (Optional)

2:00 P.M. - Everyone goes home to get ready for CQWW

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Special Notes about Tours

Bryan has made special arrangements to have the stern wheeler to dock on the west side of the Lake for the Vanishing Texas River Cruise on Sunday, where it normally would dock on the east side, would be a 40 minute drive. This trip will take us up the Colorado River canyons to where the American Bald Eagle spends its winters. Cost is \$12.95 per person, this is an INCREDIBLE Trip so bring your cameras.

A number of the gals are again planning a major shopping expedition to nearby Marble Falls on Saturday. Come join them.

Bryan has made addition arrangements for a special tour/tasting at the Fall Creek Winery near the ranch on Saturday. Tours of Lake Buchanan Dam will be offered on Saturday afternoon. This dam is of the longest of its type in the world and the lake is the largest of the Highland Lakes on the Colorado River.

The Ranch is located on the migration path of the Monarch Butterfly as it travels to Brazil for the winter. The timing last year was great, the oaks trees were covered with

Cost of Registration

\$15.00 per person which includes the cost of lunch on Saturday, free coffee, soft drinks, and donuts for both days. The Vanishing Texas River Cruise is \$12.95 per person. The Bar-B-Que at Big John's Saturday night is dutch treat. All other tours are no charge.

Bryan needs to know A.S.A.P. if you plan to attend so he can plan for food Saturday at lunch. W5KFT, Bryan, can be reached at 806-745-3692 (office), 806-799-5783 (home), or he is normally connected to the KA5EJX PacketCluster Node in Lubbock. Please mail registrations to: W5 DX BASH 3801 68TH Street Lubbock, TX 79413

DX PacketClusters

The TDXS Contest and DX PacketCluster operates on 144.930 MHz with the call **K5DX**. This node is operated by Rich, K5WA from his home in southwest Houston and is sponsored by the Texas DX Society. It is linked to the Texas PacketCluster DX network. This is a "no-frills" packet node intended primarily for DX spotting. While it lacks some of the more powerful features of several of the other southeast Texas PacketCluster nodes, it is intended to provide stations in the immediate Houston area with a convenient and reliable path into the system.

The Brazos Valley Contest and DX PacketCluster Bulletin Board is located in Hempstead, Texas and operates on 144.990 MHz with the call **KE5IV**. A digipeater node operating on 144.990 MHz with the alias **MAGBPQ** is located near Magnolia and gives access to those users in the northern part of Houston. There is another port operating on 144.910 MHz, also under **KE5IV**'s call. This affords local stations with higher ERP, generally those on the west side of Houston, the option of connecting directly with Hempstead and getting somewhat better response.

The Galveston County DX PacketCluster, located in La Marque, is active under the call **KC5SC** and operates on 144.930 MHz and 144.970 MHz. It is usually connected with **KE5IV** via the 446.100 MHz backbone link. Stations in the southeastern parts of Houston may find it easier to connect with this cluster.

AB5A located in Dickinson about 10 miles northwest of **KC5SC** operates the Texas Gulf Coast DX PacketCluster. This node is regularly connected to the **KC5SC** PacketCluster via

446.100 MHz. This cluster features a 40 Meter HF Gateway on 7.089 MHz which runs 600 watts into a 2 element yagi at 80 feet. Local users may also access the node via ports on 145.01/03 MHz.

In addition to listing current DX spots, the system provides access to a wide variety of DX related information such as WWV propagation, the W6GO QSL Manager list, the US, VE and Foreign Amateur Call Book listings, 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.

Outgoing QSL Cards

The ARRL provides a service to it's 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 current ARRL DXCC Country List. This means that the prefixes XQ and 3G with Chile CE, AZ and L2 to Argentina LU, etc. Keep in mind recent changes. ES, LY and YL are no longer included with the "Russians". The "East" Germans Y## now go with the DL's. What to do with the Yugoslavians remains a mystery. For now, separate YU2 and 9A (Croatia), YU3 (Slovenia), and YU4 (Bosnia) from the rest of the YUs. It also makes good sense to sort the CIS, i.e. the "Russian Commonwealth", cards according to the individual Republics as per the DXCC List. It is not necessary to sort within a given country, e.g. it is not necessary to sort by DF, DJ, DL, or by RB, UT, EX separately.

Also, remember that QSLs for DXpedition operations usually go the country of the operator, e.g. D2CW via DK7PE, Y1IRJ via GOMMI, etc. Many foreign stations have stateside QSL managers. These cards may be included with the "Ks".

By the way, most Caribbean stations turn out to be nonresidents, so send such QSLs to the operator's home country. There are number of DXCC countries not served, e.g. many U.S. territories (KH0, KH4, KH9, etc.) and countries such as Qatar, Montserrat, Nepal, etc. A complete list currently appears in the **January 1992 QST**, page 59 along with additional information about the ARRL Outgoing QSL Service.

Finally, each TDXS member must include a current QST address label with each group of cards he wants sent to the bureau. Contact **Dale, KG5U** if you have any questions (before you drop the cards on him!).

DXers Tool Box

Just a reminder to those among you who don't already have them all worked and credited that there are four local area DXers authorized by the DXCC desk to check QSL cards.

You may contact either:

Jim, N5DC and **Evie, KF5MY** at (713) 358-0051, or
Bob, AK5B and **Linda, KE5TF** at ((713) 363-0209.

Anyone wishing to have cards checked should first fill out the DXCC Award Application. This form can be obtained from the ARRL DXCC Desk by calling (203) 666-1542 or via FAX at (203) 665-7531 (24-hour direct line to ARRL HQ).