



Crosstalk



The Official Publication of the Gloucester County Amateur Radio Club
July 1993

President's Message

A few days ago, I finished assembling my MOBILE PACKET station in the van. As soon as I pick up a better antenna than what I'm currently using, it will be finished.

Now, I am very aware that the mental image of "keyboard mobile" operation brings forth humorous responses, horizontal head movements and other similar things. No, I don't intend to actually send messages and read the e-mail while driving. (Although it might be possible on Route 42 around 5:00 on Friday nights.)

I also have to admit it is not something which has a lot of everyday practicality to it. I knew that *going in*.

You see, that's not the point. It's that I'm doing something experimental. Something that could have use in an emergency situation. Something that would come in handy when I travel somewhere. Something that may help with the evolution of digital communications. Whatever the end result(s) may be, I really just did it "because I can".

Much like the thrill of being able to work other hams through Oscar 21 while I drive around, it's not the most important thing in my life, but it is enjoyable. I enjoy experimenting. That accounts for the vast majority of my understanding of electronics. Next down the list is countless hours I've invested in reading and listening. Empirical research is great, but if you can learn through the experiences of others, even better. This is not to say that I have ever taken what I've been taught as "the final word" on anything. In fact, nothing can motivate me faster than to hear that something can't be done. I have a number of clients that witnessed me doing the "impossible", as defined by others in the computer industry.

So, am I an isolated case? Alone like an island in sea? The last bastion of an endangered species? A throw-back to another time? A dinosaur headed for extinction? Naaahhh... While I admit there are, percentage wise, less of us who are hands-on hardware types, and the economics of building anything more than a homebrew transmitter or QRP kit versus a quality commercial rig don't encourage the type of construction projects seen in the 50's, there are other areas to experiment in. (Boy, that was a long sentence.)

I haven't seen any commercial rigs for 33cm or 13 cm and above. You can buy transverters, but since microwaves have become no-tune and inexpensive propositions, you can still build a kit for less. When was the last time you made your

own antenna? Other than a dipole? In Glassboro, we are blessed with a scrap-metal paradise just a few miles out of town. I had passed it many times, but until Mike, WA2TOP took me on a guided tour recently, I had no idea what "treasures" their inventory held. There's enough stuff there to make 5 element yagi for 160 meters and all the supports you'd need. Even an appropriate rotor motor.

Do you know anything about Spread Spectrum Emissions? Patents were awarded in the 40's for some of this stuff, so it's about time you read up on it. Basically, it's a method of radio communications that "hops" from one frequency to another, based on an encoding scheme. Speeds of 100 hops or "chips" per second are not uncommon. Someday, we may see everything from cellular phones to garage door openers using this technology. Maybe even ham rigs... 33 cm is a great band to experiment with this stuff. It may even become necessary for survival if the FCC continues to allow whoever and whatever to invade this band. Small wonder that you don't see ICOM, Kenwood and Yaesu racing to bring out 902Mhz rigs.

Not a "hardware type"? There is also an less esoteric track you can take. Let's see... CW? Done that. SSB? Done that. FM, Repeaters, DX? Been there, done that. Satellites, Packet? Yeah, done that twice. Old stuff, huh?

Unless, you are someone just starting out in this hobby. Someone who doesn't even know just how much they don't know! Everything is new to them. Operating procedures, terminology, techniques, equipment knowledge, etc. The things that come with experience.

Now there's an area to do some experimenting; teaching, leading, guiding, *elmering* some new hams. How about just one? Who knows, you might enjoy it. That's how this hobby (and our club) grows, one person at a time.

See you at the meeting,

WA3UWVCory

**Crosstalk Article
Deadline for August Issue:
8PM, Sunday,
July 25, 1993!**

ATLANTIC DIVISION NEWS

LICENSE TEST SESSIONS JULY 1993

Confirm all information with the contact person before appearing for a test. Note that all testing for the Novice license will be carried out in VEC-coordinated sessions after July 1. ARRL/VEC is now accepting applications from Generals for VE credentials to give Novice and Technician tests.

DELAWARE

24 Wilmington, 9:15 AM. AWARE.
Giselle Walls, (ARRL)

EASTERN PA

1 Levittown, 7 PM.
Dave Heller, (W5YI)

1 Philadelphia, 6 PM. Phil-Mont MRC.
Dusty Rhoads, (ARRL)

2 Nazareth, 7 PM. Delaware-Lehigh ARC.
Robin Moseley, (ARRL)

3 Lehman, 10 AM. Murgas ARC hamfest.
Joe Caffrey, (ARRL)

3 Levittown, 10 AM. Penn Wireless Assn.
George LeNoir, (ARRL)

10 Honesdale, 9 AM.
Vincent Banville, (ARRL)

14 Scranton, 7 PM.
Art Sposto, (W5YI)

15 East Stroudsburg, 7 PM. Pocono ARK.
Steve Gajkowski,

19 Telford, 6:30 PM. RF Hill ARC.
Warren Erdman, (ARRL)

SOUTHERN NJ

15 Bellmawr, 6:15 PM.
Bill Helmetag, (W5YI)

17 Jackson, 10 AM. Jersey Shore ARS.
Dave McCauley, (ARRL)

17 Pennington, 12:30 PM. Delaware Valley RA.
Don Wright, (ARRL)

24 Rio Grande, 10 AM. Cape May Co. ARC.
John O'Neill, (ARRL)

73 and good luck on your upgrade
de

Hugh Turnbull, W3ABC
Director Atlantic Division ARRL

@ WB3V.MD (Please note new packet address for W3ABC)

Kay Craigie, WT3P
Vice Director Atlantic Division
@ WB3JOE.PA

Miscellaneous Items

- The Novice and Technician question pools change on July 1. The new edition of ARRL's "Now Your Talking" has a blue cover. Let's not help prospective hams by giving them used copies of out-date manuals.
- Amateur licenses begin to expire again in late 1993, when the first ten-year tickets reach their time limits. Because our licenses last so long, it is easy to forget when they expire. We all need to get back in the habit of checking the date once in a while.
- Check the five-week calendar on page 8 of this issue of the Crosstalk for the latest information on Hamfests. Those listed as "**HAMFEST**" are ARRL sponsored.

LETTERS TO WASHINGTON NEEDED NOW!

Thanks to efforts by the League, resolutions supporting Amateur Radio have been introduced in both Houses of Congress. S.J. Res. 90 and identically-worded H.J. Res. 199 declare that "*reasonable accommodations should be made for the effective operation of amateur radio from residences, private vehicles and public areas, and that regulation at all levels of government should facilitate and encourage radio operation as a public benefit.*"

Our letters are needed now, asking Senators and Representatives to co-sponsor these resolution. Individually-written letters are preferable to petitions and form letters.

Address Senate letters to:

The Honorable (Name)
U.S. Senate
Washington, D.C. 20510

Address House letters to:

The Honorable (Name)
U.S. House of Representatives
Washington, D.C. 20515

Please send a copy of your letter to ARRL Headquarters so their Washington staff can follow up.

//Editors Note: Some of the items on this page were taken from packet messages as well as the Atlantic Division News letter.//

LIGHTEN UP!

(FROM THE COLLECTION OF SONNY GUTIN, WB2DXB)

DIETING UNDER STRESS

This diet is designed to help you cope with the stress that builds up during the day.

BREAKFAST

1 Grapefruit
1 Slice Whole Wheat Toast, dry
3 oz. Skim Milk

LUNCH

4 oz. Lean Broiled Chicken Breast
1 Cup Steamed Spinach
1 Cup Herb Tea
1 Oreo Cookie

MID-AFTERNOON SNACK

Rest of Oreos in the Package
2 Pints Rocky Road Ice Cream
1 Jar Hot Fudge Sauce
Nuts, Cherries, Whipped Cream

DINNER

2 Loaves Garlic Bread with Cheese
Large Sausage, Mushroom & Cheese Pizza
4 Cans or 1 Large Pitcher of Beer
3 Milky Way or Snickers Candy Bar

LATE EVENING NEWS

Entire Frozen Cheesecake Eaten Directly from Freezer.

RULES FOR THIS DIET

1. If you eat something and no one sees you eat it, it has no calories.
2. If you drink a diet soda with a candy bar, the calories in the candy bar are cancelled out by the diet soda.
3. When you eat with someone else, calories don't count if you don't eat more than they do.
4. Food used for medicinal purposes NEVER count...such as hot chocolate, brandy, toast, and Sara Lee Cheesecake.
5. If you fatten up everyone around you, then you look thinner.
6. Movie related foods do not have additional calories because they are part of the entire entertainment package, and not part of one's personal fuel... such as Milk Duds, Buttered Popcorn, Junior Mints, Red Hots, and Tootsie Rolls.
7. Cookie pieces contain no calories. The process of breaking causes calorie leakage.

THE REAL THEORY OF ELECTRICITY

Just the other day I read in an obscure scientific periodical what purports to be the latest and verifiable theory about electricity. Until now we were led to believe that electricity was invisible. After reading the following, I wonder. The realization of such a simple observation was so obvious that we, the scientists of the world, just overlooked it.

Electricity and its power has its source in SMOKE. Yes, it is as simple as that. Smoke is the driving force in all power circuits. You have surely observed that every time you allow smoke to escape from something electrical it stops working. This has been verified throughout the existence of our use of electricity. Do you remember the last time a piece of your equipment smoked? It quit working. Didn't it?

I remember the description of what transpired when a 69KV breaker & bus stopped working. There was smoke coming from it that was hard to believe. No wonder it stopped working. All the electricity had escaped. The smoke just poured out and it was the end. The breaker and bus just melted down and quit.

Yes, we now know that it is the smoke that's the conductor that carries the electricity from one device to another. It starts at the power plant where the smoke is produced, and it then proceeds along the lines to each distribution point until it reaches the smaller devices we use. The smoke that we see coming from the stacks at the power plants is released into the air to prevent any overload of the lines. Without that release we would really have problems. Just look at the dark spot in a burnt light bulb. Somehow we must devise a way to release some of the smoke from the bulb.

For a more in depth explanation of the smoke theory write to the US Department of Documents in Pueblo, CO and ask for booklet # 868686.

Respectfully submitted,
Amos Anonym,

(With apologies to both Sam Tyree and Leo Martin for the plagiarism)

8. Things licked off of knives and spoons have no calories if you are in the process of preparing something. Example: Peanut butter on a knife when making a sandwich...or...ice cream on a spoon when making a sundae.

9. Foods that have the same color have the same number of calories. Examples: Spinach and pistachio ice cream... or ...mushrooms and white chocolate

NOTE: Chocolate is a universal color and may be substituted for any other food color.

BELLMAWR TESTING INFO

Date: Thu, 03 Jun 93 10:38:38 EDT
 From: n2lcr@k2aa.#snj.nj.usa.na (Don Nafis)
 Message-ID: <06662_K2AA> ()
 To: exam@njnet
 Subject: Bellmawr VE Exams

VE Exams are held on the third Thursday of every month at the Bellmawr Community center in Bellmawr, NJ, Camden County.

Registration begins at 6:30pm.

Be sure to bring your current Amateur Radio license and a photocopy. Those not yet licensed must be prepared to show 2 forms of identification.

Walk-ins are invited.

An examination fee of \$5.60 will be charged. This one fee covers all exam elements that you take.

Talk-in: 146.895 -600, beginning at about 6:30pm.

We make special provisions for handicapped testing, including testing for sight and hearing impaired. Please call ahead for details.

For more information or directions, contact Bill Helmetag, WA2VQG

-73 de Don,
 N2LCR@K2AA.#SNJ.NJ.USA.NA

NO COUNT DXCC COUNTRIES

Information has just been received that the following countries CAN NOT be counted by Field Representatives. The following is a quote from a letter to all ARRL DXCC Field Representatives:

"We are removing all former Soviet Republics from the Field Checking list. The republics have undergone at least two major callsign revisions and will be undergoing another major revision within the year. We're going to have to see the card in order to determine the correct country. The callsign will not be an unambiguous indicator. These are all of the former "U" prefixes"

It is suggested that prior to submitting you cards to a Field Representative you give him a call.

C U in the Pile-Ups

John, K2JF

American Cancer Society Bike-A-Thon

The GCARC has received a letter from the ACS Bike-A-Thon committee asking for our support. The bike tour will be held on July 18, 1993, with the cyclists leaving the Liberty Bell at 0700. The 100KM ride will cross the Ben Franklin Bridge and continue to the Atlantic City Race Track.

They need operators in the following positions:

- Ambulances
- Sag Wagons
- Rest Stops
- Check Points
- End Point

Applications to volunteer will be on the club table at the next General Membership meeting.

Let's help out!

A Reminder

Reprinter from Feb '93 Crosstalk

AS MANY OF YOU ARE AWARE, G.C.A.R.C. members should look on KF2AW (145.070 Mhz) for any traffic to the membership. But how do you do this without listing every single message that is on the PBBS? It is easily done! Just use the following short cuts to review only specific messages:

L@ GCARC... this entry will list only those messages that are sent to anyone at the PBBS "GCARC". (i.e. A message sent to K2JF @ GCARC would be displayed here)

L< XXXXX... this entry will list all messages *from* a particular station. Replace the "XXXXX" with that stations callsign. (i.e. L< W2MMD will list all messages from W2MMD)

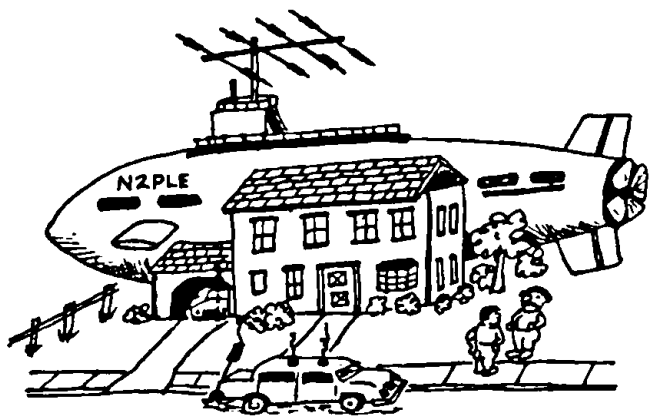
L> XXXXX... this entry will list all messages to a particular station. Replace the "XXXXX" with that stations callsign. (i.e. L< W2MMD will list all messages *to* W2MMD)

If you have any questions, just give one of the GCARC "packetees" a call and they can give you a hand.

NEWS FLASH!

Famed GCARC Treasurer, Bill Mollenhauer (N2FZ), discovered a 2300 Mhz antenna in his can of soda last week. When asked by the company to return it so they could reinstall it at the canning facility, Bill replied, "Never happen! I was looking for one anyway."





"Why don't we go into the shack and work some DX?"

For the month of JULY,
the GCARC Membership
wishes the following a...



Very Happy Birthday!

<u>CALL</u>	<u>NAME</u>	<u>DAY</u>
WA2BMQ	NORMAN T. CONNELLY	02
N2KLE	JOSEPH T. WELLS	03
KB2ODJ	EDWARD HANKIN	03
N2FJQ	ALLAN R. TRUEBLOOD	04
N2NMY	JOHN KURKIS	05
N2DUZ	HARRY JESSEN	06
N2SS	ANTHONY R. GARGANO	14
KB2BLO	CAROL HUTKIN	17
KF2AW	BOB OUDYK	17
N/C	JENNIFER WELLS	17
WB2OCR	RICHARD J. NETHERBY	21
WB2THM	LOUIS MICELI	22
KB2IRK	WESLEY GOSBIN	22
N2IVN	CHRIS CHAMBERLAIN	24
N2MWX	DENNIS S. BALLANCE	25
N2HTS	CONRAD M. SALATI	27
N2BDC	TADEUSZ NIZIOL	29

Last month JIM WILSON, who's birthday was June 10th, was missed by this reporter. So Jim, I hope you enjoyed your day and I will try to do better next year.

Chas Sketchley, K2PQD
Data Processing

Do You Really Want To Know?

During a conversation concerning Field Day '93 Steve, N2GVR, mentioned to Marla, N2DWR, that Mike (WA2TOP?) had left his overalls at the site. The question raised by Marla was... "If his overalls are at the site, what did he wear home?"

Does anyone know? How about it, Mike? Any comment?

**FOOTBALL HALL OF FAME
Special Event Station**

The Canton ARC will operate Special Event Station W8AL from July 26 to August 01, to celebrate the Pro-Football Hall of Fame, Greatest Weekend.

Operations will be on...

<u>SSB</u>	<u>CW</u>
28.350	28.125
24.950	24.910
21.350	21.125
18.150	18.080
14.270	14.050
--	10.120
7.270	7.125
3.870	3.700

These frequencies are +/- QRM and will operate from 1000 to 0200 UTC. There will also be RTTY, Packet, Amtor, Satellite and 2meter FM & SSB.

QSL to:

Randy Phelps - KD8JN
1226 Delverne Ave., SW
Canton, OH 44710-1306

For an unfolded certificate, send QSL with contact number and 9X12 inch SASE with 2 units of First Class Postage.

For a folded certificate, send QSL with contact number and a #10 SASE with 2 units of First Class Postage.

73... N2IMK\Gene
&
KB2JCQ\Ginny

Advertising for the Crosstalk?

- OR -

Publicity for the G.C.A.R.C.?

Send the information to:

Jacob Freedman - N2MPN
517 Devon Rd.
Moorestown, NJ 08057

Or via Packet to: N2MPN @ W2HOB.#SNJ.NJ.USA

DX UP CLOSE & PERSONAL

Sum thing on the WISH LIST !

BV9 - Pratas Islands... A group in Taiwan appear to be in a Big Hurry BV20B, BV4AS & Others. Maybe soon as June 26-July 5. No 80 or 160 meters.

E3-ERITREA... Next OP scheduled to be in June 27-28 for 7-8 days. Ops are JH1AST-DJ9ZB-K5VT. CW, SSB, & RTTY All bands, No callsign mentioned. Mebbe E31A.

3V-TUNISIA IT1RBJ/3V... from Tunisian Island beginning July 1. WFWL.

YI-IRAQ YI1DZ-DIAH... Frequently on 14.247 net after 0100Z. QSL P.O. BOX 7361 BAGHDAD, IRAQ. 2 IRC, No "Green-Stamps."

CY9-ST PAUL ISLAND... Duane WV2B, Art WA2VJH, will be active July 9-12 CW, SSB & 6 MTRS. They will sign WV2B/CY9 & WA2VJH/CY9 also active during IARU HF & CQ VHF WPX contests.

ZS9-WALVIS BAY & ZS1-PENGUIN ISLANDS... (German Ops July 25 to Aug 3.) Penguin first then Walvis - No callsigns mentioned. No freq's either, that will be spotted on Packet for sure.

N9NS/KH5K... Cards won't be out before July at earliest. Mike N9VS opoligizes for delay. Please don't send follow-up cards.

5A0RR-ROMEO-DXpedition... has met with many trials. Low power; armed security guards; an order by Libyan authorities not to work U.S. Stns (He did anyway!). Ops are shut down, but should be back up by time this goes to press. Just try to work him and remember Romeo's a Big-Boy, and knows what it's all about. Don't listen to Rumors.

5A0/DJ6RAU... Attention anyone who worked him on 22 June 1993, 20 meters CW around 1325Z. I worked him and he gave a very reliable QSL Manager, Frank Turek-DL7FT. I've sent Frank a note with my QSL, inquiring as to slim or not. Should get answer the end of June or 1st week of July. So WFWL. I will spot on Packet soon as I get answer from Frank. he took only few calls & went QRT.

"Men grow tired of sleep, love, singing and dancing
sooner than 'Ham' Radio."

Homer -Ancient Greek poet.

TNX TO QRZ DX, DX BULLETING AND OTHERS.

CW FOREVER

C U ON THE LOW ENDS.

CLIFF-N2PLE

ARRL DXCC Field Representative

For those wishing to submit their cards for DXCC for the FIRST TIME, they may do so by using the ARRL DXCC Field Representative. There are two authorized Field Representatives in the GCARC; Jim K2OWE, & John K2JF. At the present time the Field Representatives can only count QSL cards for the FIRST DXCC submission. We have been informed that later on the Field Reps. will be authorized to count "ADD ON's."

To submit your cards to either of the two Field Reps., the following is required:

1. ARRL form MSD-505(592) must be used. (Copies can be obtained from either of the Field Reps.)
2. Instructions for card presentation are given on the reverse side of the Form. Sorting of the cards is very important as to band, mode, and alphabetical order.
3. A self-addressed stamped business envelope, along with a check for \$10.00 made out to ARRL, must accompany the QSL cards.
4. Cards must be given to either of the Field Reps. in person. They will not accept mailed cards.
5. Upon completion of and verification of the QSL cards, the form will be mailed to ARRL by the Field Rep. (It takes two Field Reps to check the cards. After one of the Reps. checks the cards he will see that the other Rep. gets the cards and checks them.) Once they have been checked you will be notified and you can pick up your cards.

It is suggested that when applying for DXCC for the first time that more than just 100 cards be submitted. There is always a chance that one of the cards will not make it. A computer print-out using the form as per the DXCC AWARD APPLICATION (reverse section) is very much acceptable. It makes it easier to read. As a matter of fact it is preferred.

If there are any questions as to the submission of DXCC AWARD for either new or "add-ons" please contact either of the authorized ARRL DXCC Field Representatives.

C U in the Pile-Ups

John, K2JF

Articles for the Crosstalk?

Send them to:

Harry Jessen - N2DUZ
48 Prospect Ave.
Erial, NJ 08081-2107

Or via packet: (145.070 Mhz)
N2DUZ @KF2AW.#SNJ.NJ.USA
- or -
Connect to: N2DUZ-10

GLOUCESTER COUNTY AMATEUR RADIO CLUB

HAMFEST

16th ANNUAL



Amateur Radio, Computer & Electronics Fair

**SUNDAY
AUGUST 29, 1993**

Hours : 8am - 4pm
Vendors Admitted at 6am

Two covered table buildings
and plenty of tailgate spaces

Food Stand &
Non-alcoholic beverages
Coffee and Breakfast Sandwiches
Available after 6am

VE TESTING

Testing will be available to all on
the 4-H Fairgrounds including No-
Code Technician Testing.

Registration - 9:30am
Testing Begins at 10am
For more information

Harrison Township
4-H Fairgrounds
Route 77 - Mullica Hill, NJ

Commerical Exhibitors
Attending

G.C.A.R.C. TALK-IN:
W2MMD REPEATERS
147.18 +600 / 442.100 +
PL131.8
Starting at 6am

TICKETS

Advance Sales	\$3.50 each
At the Gate	\$5.00 each
Covered 8ft tables, <u>registration by</u>	
<u>August 7th- \$7.00 ; After that- \$10</u>	
Tailgaters	\$7.00 per space

Tailgaters and vendors must purchase an
admission ticket. Send Check & S.A.S.E.
by August 7th to - G.C.A.R.C.
PO BOX 370
PITMAN, NJ 08071



July 04 - August 07, 1993

G.C.A.R.C. & Amateur Radio Events



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Jul 4 8:00 PM ARES/RACES 8:30 PM 10 Mtr Net Hamfest - Bressler, PA Independence Day	Jul 5	Jul 6	Jul 7 8:00 PM GCARC Gen. Mem. Mtg.	Jul 8	Jul 9	Jul 10
Jul 11 8:00 PM ARES/RACES 8:30 PM 10 Mtr Net • Hamfest - Alexander, NY • Hamfest - Pittsburgh, PA • Hamfest - Westminster, MD	Jul 12	Jul 13	Jul 14	Jul 15	Jul 16	Jul 17
Jul 18 8:00 PM ARES/RACES 8:30 PM 10 Mtr Net	Jul 19	Jul 20	Jul 21 7:30 PM B.O.D. Mtg	Jul 22	Jul 23	Jul 24 Hamfest - Huntingdon Mills, PA Hamfest - Frankfort, NY
Jul 25 8:00 PM ARES/RACES 8:30 PM 10 Mtr Net • Hamfest - Indiana, Pa • Hamfest - Timonium, MD	Jul 26	Jul 27	Jul 28	Jul 29	Jul 30	Jul 31
Aug 1 8:00 PM ARES/RACES 8:30 PM 10 Mtr Net	Aug 2	Aug 3	Aug 4 8:00 PM GCARC Gen. Mem. Mtg.	Aug 5	Aug 6	Aug 7 Traffic Handlers Picnic - Newark Valley, NY

THE ARRL INCOMING QSL BUREAU SYSTEM



Purpose

Within the US and Canada, the ARRL DX QSL Bureau System is made up of numerous call area bureaus that act as central clearing houses for QSLs arriving from foreign countries. These "incoming" bureaus are staffed by volunteers. The service is free and ARRL membership is not required.

How It Works

Most countries have "outgoing" QSL bureaus that operate in much the same manner as the ARRL Outgoing QSL Service. The member sends his cards to his outgoing bureau where they are packaged and shipped to the appropriate countries.

A majority of the DX QSLs are shipped directly to the individual incoming bureaus where volunteers sort the incoming QSLs by the first letter of the call sign suffix. One individual may be assigned the responsibility of handling from one or more letters of the alphabet. Operating costs are funded from ARRL membership dues.

Claiming your QSLs

Send a 5 x 7-1/2 or 6 x 9 inch self-addressed, stamped envelope (SASE) to the bureau serving your call-sign district. Neatly print your call sign in the upper left corner of the envelope. A suggested way to send envelopes is to affix a first class stamp and clip extra postage to the envelope. Then, if you receive more than 1 oz. of cards, they can be sent in the single package.

Some incoming bureaus sell envelopes or postage credits in addition to the normal SASE handling. They provide the proper envelope and postage upon the prepayment of a certain fee. The exact arrangements can be obtained by sending your inquiry with a SASE to your area bureau. A list of bureaus appears below.

Helpful Hints

Good cooperation between the DXer and the bureau is important to ensure a smooth flow of cards. Remember that the people who work in the area QSL bureaus are volunteers. They are providing you with a valuable service. With that thought in mind, please pay close attention to the following DOs and DON'Ts.

DOs

- Do keep self-addressed 5 x 7-1/2 or 6 x 9 inch SASEs on file at your bureau, with your call in the upper left corner, and affix at least one unit of first-class postage.
- Do send the bureau enough postage to cover SASEs on file and enough to take care of possible postage rate increases.
- Do respond quickly to any bureau request for SASEs, stamps or money. Unclaimed card backlogs are the bureau's biggest problem.
- Do notify the bureau of your new call as you upgrade. Please send SASEs with new call, in addition to SASEs with old call.
- Do include an SASE with any information request to the bureau.
- Do notify the bureau *in writing* if you *don't* want your cards.

DON'Ts

- Don't send domestic US to US cards to your call-area bureau.
- Don't expect DX cards to arrive for several months after the QSO. Overseas delivery is very slow. Many cards coming from overseas bureaus are over a year old.
- Don't send your outgoing DX cards to your call-area bureau.
- Don't send SASEs to your "portable" bureau. For example, AA2Z/1 sends SASEs to the W2 bureau, not the W1 bureau.
- Don't send SASEs to the ARRL Outgoing QSL Service.

ARRL INCOMING DX QSL BUREAU ADDRESSES

First Call Area: All calls* —
W1 QSL Bureau
Y.C.C.C.
Box 216, Forest Park Station
Springfield, MA 01108

Second Call Area: All calls* —
ARRL 2nd District QSL Bureau
N.J.D.X.A.
P.O. Box 599
Morris Plains, NJ 07950

Third Call Area: All calls —
C-CARS
P.O. Box 448
New Kingstown, PA
17072-0448

**Fourth Call Area: All single-letter
prefixes (K4, N4, W4) —**
Mecklenburg Amateur Radio
Club
P.O. Box DX
Charlotte, NC 28220

**Fourth Call Area: All two-letter
prefixes (AA4, KB4, NC4, WD4,
etc.) —**
Sterling Park Amateur Radio
Club
Call Box 599
Sterling Park, VA 22170

Fifth Call Area: All calls* —
ARRL W5 Incoming
QSL Bureau
P.O. Box 50625
Midland, TX 79710

Sixth Call Area: All calls* —
ARRL Sixth (6th) District DX
QSL Bureau
P.O. Box 1460
Sun Valley, CA 91352

Seventh Call Area: All Calls —
Willamette Valley DX Club,
Inc.
P.O. Box 555
Portland, OR 97207

Eighth Call Area: All calls —
8th Area QSL Bureau
P.O. Box 182165
Columbus, OH 43218-2165

Ninth Call Area: All calls* —
Northern Illinois DX Assn.
Box 519
Elmhurst, IL 60126

Zero call Area: All calls* —
W0 QSL Bureau
P.O. Box 4798
Overland Park, KS 66204

Puerto Rico: All calls* —
KP4 QSL Bureau
P.O. Box 1061
San Juan, PR 00902

U.S. Virgin Islands: All calls —
Virgin Islands ARC
GPO Box 11360
Charlotte, Amalie
Virgin Islands 00801

Hawaiian Islands: All calls* —
Wayne Jones, NH6GJ
P.O. Box 788
Wahiawa, HI 96786

Alaska: All calls* —
Alaska QSL Bureau
4304 Garfield St.
Anchorage, AK 99503

Guam —
MARC
Box 445
Agana, Guam 96910

SWL —
Mike Witkowski
4206 Nebel St.
Stevens Point, WI 54481

**QSL cards for Canada may be
sent to:**

CRRL Incoming QSL Bureau
Kennebecasis Valley Amateur
Radio Club
Box 51
St. John, NB E2L 3X1

**QSL cards for Canada may also
be sent to the individual bureaus:**

VE1, VE0, VY2* —
K.V.A.R.C.
Box 51
St. John, NB E2L 3X1

VE2 —
A. G. Daemen, VE2IJ
2960 Douglas Ave.
Montreal, PQ H3R 2E3

VE3 —
The Ontario QSL Service
P.O. Box 157
Downsview, ON M3M 3A3

VE4 —
Adam Romanchuck, VE4SN
26 Morrison St.
Winnipeg, MB R2B 3V4

VE5 —
B. J. Madsen, VE5FX
739 Washington Dr.
Weyburn, SK S4H 3C7

VE6* —
Norm Waltho, VE6VW
P.O. Box 1890
Morinville, AB T0G 1P0

VE7* —
Dennis Livesay, VE7DK
8309 112th St.
Delta, BC V4C 4W7

VE8* —
Rolf Ziemann, VE8RZ
2 Taylor Road
Yellowknife, NWT X1A 2K9

VY1 —
Yukon Amateur Radio Assn.
P.O. Box 4597
Whitehorse, YU Y1A 2R8

VO1, VO2 —
Roland Peddle, VO1BD
P.O. Box 6
St. John's, NF A1C 5H5

*These bureaus sell envelopes or
postage credits. Send a SASE to
the bureau for further information.

DXCC AWARD APPLICATION

DIRECTIONS: PLEASE PRINT. Use this form for both new and endorsement applications. Complete both sides of this form. Do NOT include other correspondence with this application.

1) I am applying for the following DXCC awards (check ALL as appropriate) Note: Pins are available for each award at \$2 apiece.

	New application	Endorsement	Last submission date
Mixed			
Phone			
CW			
RTTY			
SAT			
160			
80			
40			
10			
6			
2			

2) Call Sign _____

Ex Calls _____

3) Name _____
Last (Spanish Apellido) First

Address _____
(Number and street)

(City, State/Country, ZIP)

4) Fill this line out ONLY if you will receive a certificate(s) from this submission. Otherwise, leave blank.

Name _____
(Print exactly as you want it to appear on certificate)

7) Postage = \$ _____ Pins = \$ _____

Award Fee = \$ _____ TOTAL = \$ _____

US Currency Stamps

Check or money order IRCs

8) Number of QSL cards enclosed _____

5) FEES: ALL amateurs initial first time registration \$10 DXCC participants before Oct. 1, 1990 are exempt from this fee. ALL League members 1st submission in a calendar year — FREE

Non-League members outside of USA/Canada 1st submission in a calendar year — \$10.

ALL League members 2nd submission in a calendar year — \$10.

Non-League members outside of USA/Canada 2nd submission in a calendar year — \$20.

6) Return my QSL cards via

- Registered
- Certified (US only)
- United Parcel Service (US only)
- First class mail
- Airmail
- Other _____

Note: Registered mail is recommended. IRCs valued at \$0.50 US. See MCS-16 (enclosed) for return postage rates.

9) HONOR ROLL (check if applicable) I am a member of Mixed Phone CW Honor Roll.

10) ALL applicants in the US and possessions, Puerto Rico, and in Canada and foreign members MUST complete the following statement:

"I currently hold full ARRL (or CRRL) membership expiring _____" OR attach label from QST wrapper.
(month, year)

11) ALL applicants must complete the following statement:

"I affirm that I have observed all DXCC rules (see attached) as well as all pertinent governmental regulations established for Amateur Radio in my country. I agree to be bound by the decisions of the ARRL Awards Committee. (Decisions of the ARRL Awards Committee shall be final.)

Signature _____ Call _____ Date _____

12) Send application forms, QSL cards, fees (if applicable) and return postage to: DXCC Desk, ARRL HQ, 225 Main St, Newington, CT 06111, USA.

13) For any questions or clarifications, please write to the DXCC Desk separately at the above address. The DXCC Desk can also be contacted as follows:

Telephone 203-666-1541
 Fax 203-665-7531 (24-hour direct line to ARRL HQ)

Telex 640215-5052 MCI
 MCI Mail 215-5052

14) Thank you for your cooperation, and Good DX!

ARRL DXCC FIELD REPRESENTATIVE VERIFICATION

I hereby verify that I have personally inspected the confirmations and verify that this application is correct and true.

Signature _____ Call _____ Date _____

Signature _____ Call _____ Date _____



MCS-505 (591)
 Printed in USA

DIRECTIONS: (1) Sort and list cards below first by band, e.g. all the 80-meter cards together, then the 40-meter cards, etc. (2) Within each band, sort and list below by mode, e.g. all the 80-meter phone cards, then the 80-meter CW, 40-meter phone, etc. (3) Make one entry below for each OSO credit. (4) Cards indicating multiple contacts should be placed at the end, listing each contact on a separate line below. (5) Bands = 160, 80, 40, 30, 20, 17, 12, 10, 6, 2. (6) Modes = PHONE, CW, RTTY, SAT. (7) OSO Year = use two digits, e.g. 89.

	CALL	BAND	MODE	OSO YEAR	COUNTRY
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	CALL	BAND	MODE	OSO YEAR	COUNTRY
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