

CROSSTALK

Published By and For The
GLOUCESTER COUNTY AMATEUR RADIO CLUB, W2MMD

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	Milt Goldman, K3WIL, Publisher

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CLUB NETS

10 Meter	Friday,	10:00 PM	28.775 USB
ARES Net:	Sunday,	8:00 PM	147.78/18 rtpr
75 Meter Net			Currently DeActivated
Club Swap Net	Sunday,	8:30 PM	147.78/18 rtpr
Club Repeaters:	147.78 - .18,	223.06 - 224.66	447.1 - 442.1

The Gloucester County Amateur Radio Club Meets the first Wednesday of each month at the VFW Hall in Woodbury Heights. Meetings begin promptly at 8PM.

Please send any contributions for CROSSTALK to Tony Starr, WA2FZB.

Deadline for submissions is 10 days before Club Meetings.

PRESIDENT'S MESSAGE, January 1985

Well, here it is almost January 1985! I have taken part in my first board meeting as president. I feel that we accomplished alot, and have some exciting plans and projects for the coming year. We are trying to get back into the Ham of things! Ha! Ha! I want to take this opportunity to thank our past president, Harry, and all the members, who took part in getting things moving. I want to wish all the club members and their families a happy and healthy holiday and new year. I also hope more club members will come out to the meetings and get involved in activities and projects. Make this one of your New Year's Resolutions! It is up to the membership to make this club work, and we must work as a unit. We are going to have club projects; one that will take alot of membership involvement. So come out to the next meeting and see what is going on!

TNX President
Tom Gordon
KB2GI

JANUARY PROGRAM

Our new V. Pres. and Program Chairman is Chick Naylor, WA2USI. Chick has informed us that this month's program will be about direction-finding antennas. This is sure to be of interest to many of you out there who have, at one time or another, experienced some form of interference which you probably wished you could track down. I'm sure many of you remember how a team of DF'ers tracked down the infamous Sears Clock-Radio which plagued our repeater for so many months. Perhaps a DF antenna is just what you need to complete your VHF-FM set-up. If so, come on out to the meeting, enjoy a donut and coffee courtesy of N2AKI, and learn all about it. Lets get 1985 off to a good start for our 26 year old Gloucester County Amateur Radio Club.

HIGHLIGHTS -- Board of Directors Meeting

The monthly meeting of the Board was held at the home of our new President, Tom Gordon, KB2GI, on December 19, 1984. All officers attended. There were no guest members present.

Chick, WA2USI, raised the idea of the club obtaining a trailer to use for food service at Hamfests and Field Day, possibly doing double duty as a communications trailer. The membership will be asked to keep their eyes open for a two-axle trailer which could be converted for this type of service.

Camden County RACES has informed us that their portable generator will no longer be available to us for use on Field Day. This serious matter may be resolved if we can get our own generator from New Jersey Civil Defense. Chick, WA2USI, will investigate this possibility.

Harry, WB2GSF, proposed buying some gear to be used as loaner rigs for the membership. This idea will be presented at an upcoming meeting.

The Monroe Township MUA has approved the use of their Williamstown water tower as a GCARC repeater site. In other repeater business, it was announced that the autopatch access will be disabled until further notice.

If the patch is needed, the user should call for a control operator.

Finally, it was revealed that Harry Jackson, WB2GSF, has accepted the position of 1985 Hamfest Chairman!

Choo Choo!

VEC TESTING

VEC TESTING for Radio Amateur License, by the Gloucester County Amateur Radio Club's V.E. Team will be held on:

DATE January 26th, 1985

TIME: 0930 to 1300

PLACE: Glassboro State College, "WESTBY HALL ** Rt. 322, Glassboro NJ

COST: \$4.00

EXAMS NOVICE THRU AMATEUR EXTRA

No preregistration required -- Maps available upon request
Talk-In 147 18/78 For further information please call K2JF
(609) 589-2318.

S.J. VHF MULTI-OP STATION TO ATTEMPT No. 1

A small group of southern New Jersey hams, who claimed second-place nationally last year, will attempt to win first-place in this years January VHF Sweepstakes. The group, operating under the call N2SB, will be on the air from Burlington County for the entire duration of the contest, which is scheduled for the weekend of January 12 and 13. A first-place win from South Jersey would be truly impressive considering the area's low elevations. Most VHF big guns prefer mountaintops.

An interesting new twist this year is the use of geographic grid squares, rather than ARRL sections, for the multipliers. The squares measure 2 degrees meridian by 1 degree parallel. South Jersey is almost entirely in the FM 29 grid square. N2SB will operate on FM simplex from 8-9 PM EST Jan 12 and 12 - 2 PM EST JAN 13. Frequencies will be 145.08, 223.50, and 446.00 MHZ. Newcomers to VHF/UHF might want to give this contest a try; it's fun!

VEC TESTING AVAILABILITY OF TESTING AND /OR LICENSE PREPARATION MATERIAL

At present, only two publishers have amateur radio operator license preparation and/or testing material available. The two are:

AMECO PUBLISHING CORPORATION

Marty Schwartz KB2LO, 220 East Jericho Turnpike, Minelola NY 11501
 TEL: 516-741-5030 and Radio School, Inc. Gordon West WB6NOA 2414
 College Drive, Costa Mesa, CA 926. TEL: 714-557-6202

AMECO already has published an New General Class Test Manual (cost \$3.50) which has the actual questions and a discussion of the answers (But not multiple choice questions). They will re-publish the general answers (But not multiple choice questions). They will re-publish the general manual in January 1985 that will include the multiple choice questions.

The advanced class manual will have an explanation of the answers to each of the 500 questions, and multiple choice questions as well.

The advanced class manual is now available as of November 30th.

The extra class manual will be about December 31 of this year.

A complete set of the books can be obtained from Ameco or Radio School Inc. through your V.E. Team if authorized by the Board of Directors of the club.

K2JF/W5YI NEWS VEC.

HISTORICAL CRAFTS LOOK FOR CONTACTS

The U.S.S. Becuna, a World War II submarine and the U.S.S. Olympia, the flagship of Adm. Dewey 1898, will be on the air to celebrate National Submarine day the weekend of April 13th and 14th. Transmissions from the sub and the cruiser can be heard from 1300Z Saturday to 2000Z Sunday on the following frequencies depending on conditions.

Frequencies for CW 3590-7050-14050-21090-28150

Frequencies for Phone 3890-7240-14285-21360-28600

All frequencies within 10KHZ. Two Meter operation is planned as well as Novice band. A beautiful certificate has been prepared for the contacts and stateside mailings are S.A.S.E. Business size envelope please. Foreign contacts remit 1 "IRC". Callsign to be used will be the operator that is on duty as the Club does not have a collective callsign. Additional inquiries about the ship's history or its operations and QSL information please send to: ---- OLYMPIA RADIO AMATEUR CLUB

P.O. Box 928

Philadelphia, PA 19105 U.S.A.

TNX to WB2LNR

CONGRATULATIONS TO:

Your EDITOR, Tony Starr, WA2FZB, and his wife Marianne, on the birth of their son Dennis J. Starr, December 7, 1984.

Both mother and future-ham harmonic are in good health, and father still has time left to do Crosstalk between chores.

TNX to KA2OSV

LES BELLES

As we begin a new year with G.C.A.R.C. no doubt the first thing we all have to do is get rid of all the extra pounds we acquired over the recent holidays.

It is not too soon to begin thinking about our Annual Hamfest in August if we are going to make any type of prizes to be given away. Please let me know what you are planning so it can be logged in for that big day. Fortunately, in the past years we have been able to send each and every y1/xyl in attendance home with a prize. Let's keep up this record.

The ONTARIO TRILLIUMS - normally called THE TOTS will be celebrating their 25th anniversary this year. Some may be interested in their Award:

THE ONTARIO TRILLIUMS YL AMATEUR RADIO CLUB
TRILLIUM AWARD

REQUIREMENTS: Work Club members; 1 point for each member
2 points for Club Station
VE3TOT

W/VW - 6 points, DX - 3 points; Members - 12 points.

BAND/MODE ENDORSEMENTS

Seal endorsements for each additional: --

6 (W/VW); 3 (DX) and 12 (MEMBERS) points

FEE - \$1.00 or (for DX only) 10 IRC's

APPLICATION - Send list of calls, TOT # and full log data with fee to:

CUSTODIAN

MRS. MARION COURSE VE3CLP
OXFORD RANCH, R.R. #1
WELLAND, ONTARIO
CANADA

GRC rules apply, QSL's must be in your possession.

SAYLARC

The SAYLARC - Second Area YL ARC will be holding a meeting during February in the Catskill Mts. Anyone interested, please see me.

73 de N2RE

Rose Ellen

CONTEST CORNER

Field Day results were published in December's QST, GCARC placed sixth in category 7A, finishing close to the London (Ontario) ARC - VE3LON who also had the distinction of logging the most participants (99) in that class. Our club had 38 participants which was 5th highest (not too bad!).

1984 CQ World Wide 160 meter contest results were in December's CQ. This band is beginning to draw renewed interest as solar cycle 21 winds down, witnessed by the fact that the top CW QSO leader had over 200 more QSO's than 1983. Browse thru the results and note the many nice DX calls including T32AF, 9M2AX, 9HICG and P29PR. Congratulations to NC2V who's 200 plus QSO's and 33,489 points was number two in New Jersey.

January Contests are noted below:

Jan.	12 - 13	ARRL UHF Sweepstakes
		"73" 40/75 meter SSB Contest
	25 - 27	CQ World-Wide 160 Meter Contest
	26 - 27	73 10/15 meter SSB Contest

The VHF Sweepstakes traditionally has been a very popular club event. Many of you grabbed logs, rules and "grid" sheets during the last meeting. Follow through and participate as those contest stations sure can use your points. There is club competition in this event, remember to identify GCARC on the Logs! Also submit your log, every point helps. See you there!

The "73" contests are sponsored by 73 Magazine and have a number of award categories.

CQ also recently announced the re-activation of their VHF WPX contest, scheduled for 0000 GMT 20 July 1985 thru 0000 GMT 22 July 1985. Using prefixes as multipliers certainly applies up the scoring and should make an interesting contest. We will watch CQ for details regarding rules, awards, etc., hopefully there will be club competition.

This Crosstalk will probably reach you in between holidays. Hopefully, your holiday season was a joyous one. The New Year is a time off for both reflection and anticipation. Looking back over 1983 + 1984 it personally seemed as if those years were nothing but one major problem after another; but, we truly must be thankful for all of our blessings and move into the coming year with a renewed sense of vigor which I for one also intend to carry into our club activities. I hope you'll join me as I consider my association with GCARC and my friends in the club as one of many blessings.

Happy New Year to All!

73 de WB2GES

DA'S & DIT'S

W2MMD RPT - again every day in every way. I'm getting better and better. Now 220 and 440. Thanks, Gentlemen.

VEC Test - January 26th - For full details - check with K2JF.

KD2AE a member of the Philadelphia Engineers' Club attends Monday luncheons and enjoys reminiscing with the "boys".

KR1M must belong to Jacque Costeau's Explorers since he identifies himself as a Subterranean Portable.

WB2MSH if you didn't get that car winterized - better hurry it's just around the corner.

Wonder if the electric refrigerator, so generously donated by WA2PPN to our Bellmawr cousins, is still working.

K3WIL - busy, busy busy. Now he's into volunteer security duty around his area.

KA2SZA did very well in his first C.W. Contest - over two hundred contacts.

KA2OSV is invited to join the "night owls" on our repeater at 2:00 A.M. KA2OSW will be listening.

WA2GFK claims he has two rows of teeth - thus being capable of talking out of both sides of his mouth.

A Question for WB2CAK. Did KA2DOT get rid of all his give-away radio equipment?

SWAP & SHOP

FOR SALE:

Drake TR-4 Transceiver
 RV-4 VFO/Speaker
 AC-4 Power Supply
 DC-3 Power Supply

Asking \$550.00; will negotiate. Contact George Munns, KB2GW,

CLUB TRIVIA

Who was chairman of our First Annual Hamfest, held in August, 1979?

ANSWER TO LAST MONTH'S QUESTION: D - 40% - Surprised?

AMATEUR RADIO LICENSING COURSE

Registration is now open for the popular licensing course given annually at the Jewish Community Center of Southern New Jersey. This year's course consisting of electronic theory, practice, and telegraphy sufficient to prepare the student to take the Federal Communications Commission examinations leading to General and Advanced Amateur Licensure will start Thursday evening January 10, 1985.

The course will be eighteen weeks 7:30-9:30 P.M., Thursday evenings. Minimum prerequisite for the course is the Novice amateur license. Basic text books required for all students are the ARRL License Manual and ARRL Handbook for Radio Amateurs. It will be the responsibility of the student to acquire these texts and other optional study material. Fee for the course will be \$10.00 for members and \$18.00 for non-members.

The course is sponsored by the Chaverim of Delaware Valley, the Amateur Radio Association which co-sponsors with the Community Center, the Abraham Z. Cutler Memorial Amateur Radio Station located at the Center. The instructors will be Frank Widmann, WA2VYA, Steve Sosson, KR1M, Harry Wolf, ND2P, and Edward Ludin K2UK, all certified as instructors by the American Radio Relay League. Register by writing or going to the JCC, 2395 W. Marlton Pike (Route 70) Cherry Hill, N.J. 08002, or calling the Center at 609-662-8800.

WHERE DID "73" and "30" ORIGINATE (WALSPM)

Columist Charles Brown, writing in the Daily News of Feb. 1961 in his column, "On the Town," said that a few of the boys discussed this problem during lunch. None of them knew the answer. Associated press was credited with the use of "30" back in the early days of telegraph and the operators used to designate end of message. XXX quickly translated to now familiar thirty.

Regarding 73, Dick Williams wire room boss at the Daily news told how 73 ~~came into use.~~ Back in 1909 the Order of Telegraphers was making great inroads among telegraphers. The railroads wanted no part of the union and they were quick to fire anyone suspected of belonging. Naturally union men kept their activities secret, but a union man's message to another telegrapher usually stopped with a 73. If the telegrapher on the other end was a union man, he messaged back with a 73. But how did the ORT members come to pick 73 as their sign-off? In frontier days Dick explained, there was a saying that a man needed three things to survive in the West; a good horse a good wife and a Winchester 73 this last item being a lever-action highly accurate rifle. If you wish a man 73 you wished him the best.

Or, WALSPM adds there's a version orginated in the Western days of lumbering - a top lumberjack could chop down 70 trees a day --- oh, no! Spare me!

-o-o-o-o-o-o-o-o-o-o-o-o-o-o-

Dr. Brown and Lawyer Jones had adjoining country homes. One day the doctor entered the lawyer's city office and inquired, "Say Mr. Jones - could a man make a fellow pay for damages done by his goat?" "Most Certainly," replied the lawyer. "Well your goat chewd up \$10 worth of clothes on our line suppose you settle. Fair enough said the lawyer and handed over \$10.00. Week later Dr. Brown received a bill for \$10.00 for legal advice.

LXXIII

TNX SPARK GAP TIMES/K2JF

THE FCC MET ON NOVEMBER 21 and allocated 41 MHz of the 900 MHz "spectrum reserve." its decisions appear to have ushered in a new era in which "service providers" rather than individual spectrum users are to be the direct beneficiaries (other than those who operate in the Amateur Radio Service) of channel assignments. At the Washington meeting described as "more jam-packed than a Michael Jackson concert," the main thrust behind the allocations and proposed assignments seemed to be that of giving various spectral parcels to major special interests who, in turn, can provide specific services to the private sector.

Services that were granted new spectrum include the Land Mobile Service (including Public Safety, Business Radio and Specialized Mobile Radio services) - given 12 MHz, Land Mobile Satellite (a new concept Westlink

will cover in an upcoming issue) - 8MHz, the US government's Department of the Interior (for monitoring water levels in dams) - 6 MHz, and the Broadcast industry (for Studio-Transmitter Links (STLs) and inter-city relays) - 3 MHz.

Not one kilohertz was provided for the establishment of any form of personal radio service, with both the General Electric-proposed "PRCS" and the Mura Corporation petition for a new personal radio service being denied. Also turned down was a request for additional spectrum for cordless telephones and similar consumer related products. The biggest surprise loser was the new "Airphone" service which was designed to allow airline passengers to make in-flight telephone calls. While Airphone may request to share the Land Mobile Satellite Service channel assignments, the lack of totally dedicated spectrum makes the future of the concept somewhat gloomy.

The FCC's decisions on actual and proposed allocation of the 900 MHz reserve spectrum pool is a mixed blessing for the US Amateur Radio Service. Regarding how their decision will be applied to the Land Mobile services, the Commissioners directed the adoption of 12.5 kHz channel separation. This dictates the use of ACSB or equivalent technologies and the probable increase in the cost of equipment in order to make the maximum utilization of the new channels possible. The FCC has before it a petition filed by the Personal Radio Users Steering Group that seeks to institute a similar channel splitting plan across all of the existing land mobile spectrum. If the mandated narrow band technologies prove cost effective in the newly assigned band, it is reasonable to expect that the PSRG petition might be approved in some form at a later date. While this might remove some of the heat now directed toward the amateur 220-225 MHz allocation from the Land Mobile interests, it could encourage a move by various individual personal radio user groups to try for the reallocation of some amateur bands to their use.

Various business interests would like to get possession of any spectrum possible. Included are those who want a new form of CB, computer hobbyists (as outlined by FCC's Robert Foosner last summer when No Code was killed) private point-to-point voice and data users and others. There is strong interest by some manufacturers to create a nontechnical radio play toy "service" somewhat akin to the current CB, but with far greater privileges, including repeater stations and telephone interconnects. As previously reported in Westlink, various groups have shown interest in grabbing both the 50 MHz (6meter) and 220MHz (1 ¼ meter) bands for personal radio use. Several of these organizations were waiting to see what action the FCC would take when it divided up the reserve pool. With that action now ~~history,~~ there is good reason to expect direct assaults on various VHF and UHF amateur allocations unless the hobby can begin to show a lot of growth in a very short time. Every kilohertz we hold, especially in the spectrum above 50 MHz, is viewed by many for its value in potential user numbers if assigned elsewhere, and for the hundreds of millions of dollars it could generate in terms of equipment or service sales. With the FCC now using demographic surveys of user numbers on any given service as a primary criterion for spectral allocation, all VHF and UHF amateur bands are far from secure.

No direct action was taken in regard to the petition from the Land Mobile Communications Council in RM-4829. That request, which asked for a portion or all of the 220-225 MHz amateur band to be reassigned to Land Mobile, still hangs over our heads. The date when a decision on this matter will be reached by FCC is still unknown.

TOWER TROUBLES

Noted VHF / UHF pioneer Dick Knadle, K2RIW, will have to continue his fight with the city of Huntington, New York, if he wants to keep his 100 foot plus tower and 432 MHz antenna array. The Huntington Zoning Board of Appeals has denied him the right to keep the massive structure even though scientists and engineers have testified under oath that the antenna and support are structurally sound and pose no threat to the public welfare.

Having already spent more than \$2,000 in legal fees, Knadle can only continue his fight with the help of the rest of the Amateur Radio community. In order to aid him, several friends, including former ARRL President Harry Dannals, W2HD, have formed a support organization called Defend Amateur Radio Towers. DART is acting as a clearing house for all contributions, and checks made payable to the Huntington Tower Fund may be sent to DART, P.O. Box 2851, Huntington Station, New York, 11746.

(Ed. note: Don't rely on passage of PRB-1 to protect hams already in this type of conflict with municipalities. Even if the League proposal is adopted by the Commission, Dick Knadle's structure could be ordered removed before the decision is reached. Besides, there is no guarantee the Commissioners will have the courage to decide favorably for the Amateur Service.)

(Pub. Comments: This is just one more example of the need for continued pressure on the FCC for passage of PRB-1. Local government seems to have little, if any understanding, of the service ham radio provides.)

WHY NOT FOR HAM RADIO?

Aircraft communications will receive special protection from cable television interference. At its open agenda meeting on October 26, the FCC adopted a second Report & Order in Docket 21006 aimed at protecting the Aeronautical Service from CATVI.

Under the new rules, cablecasters will be required to maintain an offset of 12.5 kHz when using frequencies in the 118-136 MHz, 225 - 328.6 MHz and 328.1-335.4 MHz bands. In addition, CATV systems using channels that fall with these band edges will be required to make leakage measurements every 3 months and correct any excesses.

It should be noted that last June, the FCC denied a League petition for similar standards aimed at protecting amateur radio communications from this type of leakage interference. At the time it dismissed the ARRL's request, the FCC termed the petition for relief "excessive." It is interesting to observe that ARRL Petition RM-4040 was not asking for anything in the way of restrictions so severe as those just imposed to protect the Aeronautical Service. Perhaps the Commission should reconsider its dismissal

in light of the fact that the equipment necessary for measuring leakage will now be required to be on hand at the cablecasters' facilities (plus the knowledge in how to use it).

It should also be pointed out to the Commission that, while communications between aircraft and controllers is very important (as is radio directional beacons), radio amateurs very frequently find themselves in emergency communications as well.

TURBULENT TIMES - A GUEST EDITORIAL

by Bob McKay, N8ADA

Never in the history of amateur radio have there been so many proposed changes to amateur frequencies and proposals that would impact on amateurs as are being considered at the present time. New editors are having a time keeping up and sorting it out. It would be well for everyone to read the magazines and newsletters carefully, as what is happening today well affect our future as amateurs.

Historically, amateur radio operators have been one of the most complacent special interest groups around. We have believed somewhere, somehow, there was a great good father in Washington to look out for our interests. We assumed our frequencies were established there for us by the grace of God and were untouchable.

Well, if you still believe that, you sure haven't been reading the news. The present proposals to turn over the 220 MHz band and half of the 160 meter band to commercial interests is indicative of the continuing press for our frequencies. The present climate in Washington that "big business must be served" is not going to make things easier for us.

You can be sure that the ARRL will be in there fighting for our interests. However, it is hampered by the fact that less than half of us support it financially.

We have shown we can get riled as we did on the code-no code issue and take action on an individual basis. There is going to have to be a lot more of this in the future if we want to maintain what we have. If the commercial interests find they can get one band from us they will increase pressure for more.

Many of you feel you cannot write letters but that is rarely the case. If you get concerned enough you can. From now on, our continued use of the bands will depend on how we as a group are able to defend our interests. Better get out that pen and paper.

(Reprint from the Dayton R.F. Carrier of the Dayton Amateur Radio Association. Our readers are encouraged to mail their opinions to our editorial office - Pub.)

PRCS APPEARS TO BE DEAD. The long awaited and highly touted General Electric proposal to create a new 900 MHz "Personal Radio Communications Service" has been withdrawn by the company. On November 1, GE informed the FCC that it would not be available to manufacture or market

PRCS hardware during the 1985 business year because of the long delays in getting approval for the proposed service. While General Electric did leave the door open for their re-entry into the PRCS marketplace if the new service is established at a November 21 meeting of the Commissioners, the decision to pull out at this crucial moment is viewed as a death blow to the concept. PRCS has been openly and strongly opposed by most of the Land Mobile industry because of fears that a low cost consumer service would cause a loss of too much income now derived by various segments of the Land Mobile trade.

N2EDW WILL REMAIN OFF THE AIR. FCC Review Board Chairman Joseph Marino has upheld a license Revocation and Suspension Order issued last spring to Vincent J. Beard of White Plains, New York. On May 7, the FCC issued a news release stating that Beard had been found in wilful violation of Section 97.129 of the Commission's Rules by attempting to obtain an upgraded amateur license by fraudulent means. The release reported that on March 23 of 1983, an FCC engineer administering the 13 wpm code test found Beard in possession of a small piece of paper containing the answers to all 11 versions of the test. Beard claimed that a stranger he met at the FCC office, identified only as "Bruce," had given him the cheat sheet. Beard subsequently passed the upgrade test a month later only to find that the Commission had already begun punitive action against him that eventually culminated in the Suspension/Revocation for Term Orders being issued with an effective date of June 17, 1984. Beard appealed the initial decision made by ALJ Thomas B. Fitzpatrick, but now has had it upheld by Marino. Tnx KBLN.

TNX TO WESTLINK REPORT AND K3WIL

QSL INFORMATION

WORLD RADIO, December 1984

A4XJW	--N4WVF	TT8RP	--F6KGU
A22BW	--OK3KD	TZ6FC	--F6CRS
A22DP	--W7GVC	UR1RWW	--W7PHO
A22WZ	--OE3NH	UZ9SWY	--N7RO
A24DM	--AK1E	V3KK	--KE5KK
A92DQ	--K2JL	V85MS	--N2OO
AH8A	--K6EDV	VE8YQ	--WA9AEA
A15P/TF	--W3HMK	VE9MAR	--VE2FOU
BV6AB	--JH6SOR	VP2MDG	--W6FDG
BV6W	--W4WJ	VP2MIX	--W6IJN
C6ANU	--VE1ZL	VP2VIX	--WP2ABX
C38LA1	--EA3BKZ	VP8A0B	--K6JW
C38LBM	--EA6AQX	VP8AXJ	--G4NFT
C38ZA	--WP2ABZ	VQ9AC	--KA3EDN
CO2KK	--KE6KK	VQ9SK	--WB6SKS
CS3RTP	--CT3BD	W3TB/TF	--W3IVG
CT2CB	--N2DUR	W6PU/SV9	--WB4TDB
CT4NH	--W3HMK	WA2HZRV9	--WA2HZR
DJ6SB/C6A	--DJ6SB	WA2HZR/ZS	--WA2HZR
DK9KX/6A	--DK9KD	WA2PWL/DU2	
DL3RCLX	--DL8YR		--WB9TEC
DL4AOJ/LX	--DL8YR	WB9IHH/V2A	
DL4FU/LX	--DL8YR		--WB9IHH
DL4K1/LX	--DL8YR	WP4ATF/KP5	--WP4ATF
DL8KAW/LX	--DL8YR	XJ7R	--VE7RG
DL8YR/LX	--DL8YR	XU1SS	--JA1HQG
DP4KA/LX	--DL8YR	XX9DX	--VS6DX
ED1ISI	--EA1ANE	XX9WW	--JH1AGU
ED2EEE	--EA2AMU	YB3DC	--K02A
ED3RCD	--EA3CUO	YB5ASO	--W4BBP
ED7SVA	--EA7GI	YB9AFA	--WA7OGU
EI2VSV/EJ6	--DK7JR	YN1FI	--VE3JDO
EK1AB	--U23DD	YN1QG	--VE3JDO
EL2EF	--KM8E	ZC4CZ	--G4MGQ
ET3PS	--DJ9ZB	ZD8LA	--G4OFY
F0AMY/FC	--DL4FF	ZD9CA	--KA1DE
F0ICR/PO8	--I3EJ	ZF2GE	--WA4WTG
F0IRK/TK	--DJ2EY	ZF2IB	--4Z4DX
FB9WJ	--W4FRU	ZK2IK	--ZK2NU
FG0UQ/FS	--W3HMK	ZL7OY	--VK3DWJ
FM7CD	--F5VU	ZL8A1X	--N5GGL
FM7WD	--W3HMK	ZP5JAL	--K02A
F08JP	--FIBBD	ZS3HL	--KE1A
F08KP	--F6GKB	ZS3TL	--W7PHO
FT8XA	--F6FYD	ZS6BUX/A22	--ZS6BUX

FW6BX	--ZLIAMO	ZS6JR	--KA3DBN
HH2Q	--I2YAE	ZZ2CW	--PY2 Bur
H13EMS	--N2BJX	3A2EE	--F9RM
HK0BKX	--WB4QFX	3A2GB	--W2GBX
HK0HEU	--HK0FBF	3A2RI	--WP2ABZ
HL9XX	--AF3R	3A4E	--F9RM
HP1XEK	--DL1HH	3A4F	--F9RM
HP1XJC	--NR4V	3C0A	--I8ACR
I1YXN/IA1	--I1YXN	3D2BD	--ZL1BD
IM0IGV	--IS0MVE	3D2FR	--NE4S
IM0LYN	--IS0LYN	3D2LJ	--ZL1AXU
J5WAD	--UA4PW	3D2MO	--ZL1AXU
J37AH	--W2GHK	3D6AJ	--WB3CQN
J73D	--W2OB	3V8A1	--IN3RZX
J88AQ	--W2MIG	3V8ZV	--IN3RZY
JW6EQ	--LA5NM	4K0B	--UA1MU
K1EFI/VP9	--K1EFI	4N2KO	--YU2BOP
K8SSJ/OH0	--K6SSL	4S7EF	--J2RDO
KA2DIV/V2A	--WB4OSN	4S7NMR	--K28Y
KC2CS/J6L	--KC2CS	4S7VK	--DJ9ZB
KC2JM/J6L	--KC2JM		
KC6JA	--K6EDV	6H3BH	--SM0EA1
KD4HE/OA4	--WB2MOQ	6N3RTF	--DK2JF
KG4AW	--KA4TAY	6T6RD	--F61JA
KG4DX	--WB2CPV	6T6RY	--F6FNU
LZ40KDP	--LZ1KDP	6W1EX	--W6ZH
ND6K/DU3	--ND6K	6X6GK	--JA1BK
OD5NT	--WA3HUP	6Z4DE	--W4PKM
OX3CX	--SM8HCX	6Z4JD	--KB6AIT
OX3GH	--WA2TTI		
OX3KP	--OZ1HDF	6W1HF	--W0ZUZ
PA3CPG/LX	--PA3CPG	6W1NQ	--DL1HH
PP2ZD	--W4BAA	6W2EX	--F6HRI
PY4WAS/PUB	--PY4WAS	6Y6IC	--KE3A
R18CA	--RA3AR	6Y5MC	--WA4WTG
RJ6K	--UJFJMM	7P8C1	--KA2CDE
RT11	--UB4IXZ	6Q7RM	--JE3MXQ
S8HZR	--WA2HZR	8R1AW	--W7AW
SV9AC/SV9	--WB5GCP	9G1CI	--LA4O
T32AB	--N7YL	9J1NO	--DL5FX
TA2CN	--N8CQ	9M2HB	--N4FFN
TG9HH	--N61IH	9Q6JE	--DL8HT
TG9VT	--W3HMK	9X6SP	--DL80A
T12WI	--T12J	9X6VL	--ON4AR
T14BGA	--T15BGA	9Y4NP	--W3HMK
T16EWL	--AG1K		

K20WE/K2JF