

GLOUCESTER COUNTY AMATEUR RADIO CLUB, W2MMD

G.C.A.R.C. OFFICERS

PRESIDENT.....	BETH BARNISH	KB2EAL
VICE PRESIDENT.....	MARLA BOZARTH	N2DWR
TREASURER.....	ROBERT LAYTON	KB2COB
REC. SECRETARY.....	CHRIS CHAMBERLIN	N21VN
COR. SECRETARY.....	JOHN FISHER	K2JF

DIRECTORS

3 YR. CHUCK COLABRESE...WA2TML  
3 YR. FRANK MALINOWSKI...KE2NY  
2 YR. JERRY BARNISH....WB2CAK  
2 YR. MICHAEL LIPNITZ...N2FKS  
1 YR. C. SKETCHLEY.....K2PQD  
1 YR. MIKE LIZZIO.....WA2TOP

TRUSTEES

4 YR. HOWARD MARDER....WA2IBZ  
3 YR. VIRGINIA MACRIE...KA2ZZA  
2 YR. JIM CLARK.....KA2OSV  
1 YR. JIM McDONALD. ...N2AIV

COMMITTEE CHAIRPERSON

ARES/RACES.....WB2LNR  
AWARDS.....K2ZA  
BANQUET.....N2DWR  
CONSTITUTION.....WA2NPD  
CONTESTS.....WB2CAK  
DATA PROCESSING.....K62COB  
FIELD DAY.....KA2DOT  
HAMFEST.....WB2CAK  
HELP/WELFARE.....N2ILB  
HISTORIAN.....K2PQD  
HOSPITALITY.....KB2AB  
CHAPLIN.....WA2BMQ  
CROSSTALK EDITOR (ALL)..N2FJQ

MEMBERSHIP.....WB2GSF  
NETS.....WA2TOP  
PUBLICITY.....K2JF  
LEGISLATION.....? ? ? ?  
REPEATERS.....WA2TML  
SCHOLARSHIP.....N2GSF  
SITE.....K2PQD  
SPECIAL SERVICES.....KA2ZZA  
SUNSHINE.....KB2EUA  
TECHNICAL.....WA2TML  
TRAINING/TESTING.....WA2VQG  
SPECIAL EVENTS.....WB2OYQ  
ADVERTISING.....KA2YKN

CLUB NETS

ARES/RACES...SUNDAY 20:00 HRS. REPEATERS 147.78/18-224.66/223/06  
10 METERS...TUESDAY 21:00 HRS. FREQUENCY 28.350 MHZ.

CLUB REPEATERS

147.78/18 MHZ. 224.66/223.06 MHZ. 442.100/447.100 MHZ. PL20 OR 3B

CLUB MEETING : FIRST WEDNESDAY OF EACH MONTH AT VFW HALL IN WOODBURY, NJ.  
: STARTS 20:00 HRS SHARP

CROSSTALK CONTRIBUTIONS : SEND TO N2FJQ OR VIA KB2COB PACKET 145.070  
DEADLINE IS ONE WEEK BEFORE MEETING.

CLUB SITE MONITORS 147.78/18

\* \* \* \* \* PRESIDENTS MESSAGE \* \* \* \* \*

IT IS HARD TO BELIVE THAT MARCH IS HERE ALREADY AND SOON THE VERNAL EQUINOX WILL BE UPON US.

I AM HAPPY TO REPORT THAT WE HAD 70 MEMBERS AND VISITORS AT THE FEBRUARY MEETING AND A GOOD NUMBER OF CLUB JACKETS WERE ORDERED.

WITH REGRET I ACCEPTED THE RESIGNATION OF WA2ZND AS DIRECTOR. DUE TO A HEAVY WORKLOAD HE IS UNABLE TO SERVE OUT HIS LAST YEAR ON THE BOARD. I WANT TO THANK EMMETT FOR HIS PAST SERVICE ON THE BOARD OF DIRECTORS. I HAVE APPOINTED WA2TOP TO FILL THE UNEXPIRED TERM LEFT AS DIRECTOR. WELCOME ABOARD MIKE!

IT IS ALSO WITH REGRET THAT I ACCEPTED THE RESIGNATION OF K2JF AS CHAIRMAN OF THE LEGISLATION COMMITTEE. JOHN HAS OFFERED TO HELP ANYONE INTERESTED IN TAKING OVER TO GET STARTED. AS THIS IS A VITAL COMMITTEE TO THE CLUB, PLEASE GIVE IT YOUR SERIOUS CONSIDERATION. I WANT TO THANK JOHN FOR HIS DEDICATION OVER THE YEARS IN KEEPING US INFORMED.

FINALLY, FOR THOSE WHO WERE UNABLE TO ATTEND THE FEBRUARY BOWLING PARTY YOU MISSED "MARLA AND THE AMAZING FLYING BOWLING BALL!" ( I WONDER WHAT SHE HAS IN STORE FOR US ON THE CASINO BUS TRIP?) GOOD JOB MARLA....

73'S BETH, KB2EAL

\* \* \* \* \* THINGS TO REMEMBER \* \* \* \* \*

PLEASE CONSIDER YOUR POSSIBLE HELP IN STAFFING CLASSES AT THE BOY SCOUT CAMP ROOSEVELT THIS SUMMER. W2GSN AND WB2OYQ NEED TO KNOW HOW MANY CAN VOLUNTEER TIME TO SEE IF WE CAN SPONSOR THIS AS A CLUB EVENT. PLEASE SEE ED OR WALT FOR ANY DETAILS AND TO VOLUNTEER. TNX...KB2EAL

THERE IS STILL TIME TO CONTINUE YOUR UNINTERRUPTED CLUB MEMBERSHIP BY SENDING IN YOUR DUES FOR 1990 TO THE TREASURER. WE VALUE YOUR MEMBERSHIP AND WE DO NOT WANT TO LOSE YOU.

WHEN YOUR ARRL MEMBERSHIP COMES UP FOR RENEWAL, PLEASE REMEMBER THAT IF YOU RENEW THROUGH THE CLUB WE RETAIN \$2.00 FOR EACH RENEWAL. SEE THE TREASURER FOR DETAILS. WHAT'S THAT!, YOU ARE NOT A MEMBER OF ARRL??? IF NOT PLEASE CONSIDER JOINING THIS VALUABLE ORGANIZATION. PLEASE ALSO REMEMBER TO LET K2JF KNOW IF YOU ARE A MEMBER AS THE CLUB NEEDS A 51% MINIMUM TO CONTINUE OUR CURRENT STATUS. LET US TRY FOR 100%!!!

REMEMBER TO CHECK YOUR CALENDARS FOR UPCOMING CLUB EVENTS;  
JAYCEE-BIKE-HIKE -- APRIL 22  
1990 HAMFEST -- AUGUST 26

THERE WILL BE OTHER CLUB EVENTS AND THEY WILL BE PUBLISHED AS SOON AS DATES ARE RECIEVED. TNX...KB2EAL

\* \* \* \* \* TRAINING CLASSES \* \* \* \* \*

NEW NOVICE AND TECHNICIAN TRAINING CLASSES WILL BEGIN MARCH 27TH FOR MORE INFORMATION CALL BILL WA2VQG . .TNX BILL

\* \* \* \* \* REPEATER NEWS \* \* \* \* \*

SATURDAY FEBRUARY 24, WAS A VERY COLD DAY AT THE 220 SITE AT THE WASHINGTON TWP. WATER TOWER, BUT CHUCK WA2TML AND MIKE N2FKS DID A VERY GOOD JOB REROUTING TO ANTENNA COAX, AND INSTALLING A NEW UPPER COAX THAT WAS GETTING WEATHER BEATEN, THEN GIVING THE 220 REPEATER A GOOD TUNE UP.

TNX...AL N2FJQ

THE PROGRAM AT THE MARCH 7TH MEETING OF THE GLOUCESTER CO. ARC WILL BE PRESENTED BY "WA2VXT". THE SUBJECT IS PACKET RADIO AND WILL OFFER INFO AND HOW TO TIPS FOR EVERYONE FROM BEGINNER TO THE EXPERIENCED USER. SOME OF THE POINTS COVERED WILL INCLUDE BASIC PACKET OPERATION, USE OF NETROMS/THENET/G8BPQ NODES, ROSESWITCHES AND THE ROSESERVER/PRMRS BULLETIN BOARD SOFTWARE USED BY MOST BBS'S IN THE GREATER SOUTH JERSEY AREA AS WELL AS MESSAGE FORWARDING AND FORMAT. AN AMPLE QUESTION AND ANSWER PERIOD WILL BE PROVIDED AS WELL AS NUMEROUS HANDOUTS AND A PORTABLE ROSESERVER BBS RUNNING ON A TOSHIBA LAPTOP FOR SOME REAL HANDS-ON DEMONSTRATING. THE PROGRAM WILL START APPROXIMATELY 9:00 PM FOLLOWING THE 8:00 BUSINESS MEETING. SEE YOU THERE.. TNX WA2VXT BBS

\* \* \* \* \* FCC EXAMS \* \* \* \* \*

FCC EXAMS, THIRD THURSDAY OF EACH MONTH, 7:00 PM SHARP. BELLMAWR, COMMUNITY CENTER, BROWNING ROAD AND LEWIS AVE. NO PRE-REGISTRATION IS NECESSARY. FEE \$4.95. MUST BRING ORIGINAL FCC LICENSE AND A COPY OF SAME PLUS SOME OTHER FORM OF IDENTIFICATION. WE SUPPLY EVERYTHING ELSE INCLUDING 610 FORMS. TNX-WA2VQG

\* \* \* \* \* SIX METER NEWS \* \* \* \* \*  
REPEATER SUBBAND EXTENDED

ON JAN 22, THE FCC VOTED TO EXTEND THE 6 METER REPEATER SUBBAND FROM 52.54 TO 51.54 MHZ. THE EXPANSION WILL PERMIT OPERATION OF ADDITIONAL REPEATERS TO MEET THE INCREASED DEMAND. THE FCC SAID THAT EXPANDING THE 6 METER SUBBAND WOULD ALLOW ADDITIONAL REPEATERS TO OPERATE. THE COMMISSION SAID IT WAS CONFIDENT THAT VOLUNTARY BAND PLANS WILL ASSURE THAT WEEK-SIGNAL COMMUNICATIONS IN THE DX WINDOW AND OTHER AMATEUR SERVICE USES WILL BE ADEQUATELY PROTECTED. IT ALSO NOTED THAT CURRENT AMATEUR EQUIPMENT SHOULD BE ABLE TO BE MODIFIED TO ACCOMMODATE THE EXPANSION. THIS IS FCC DOCKET 88-527. TNX W5YI/K2JF V WA2VXT BBS

\* \* \* \* \* THE DOVE IS FLYING \* \* \* \* \*

DOVE IS A ONE WAY TELEMETRY AND FM SIGNAL USED FOR EDUCATIONAL PURPOSES AND CAN BE HEARD WITH A 2 METER HAND HELD AND ITS NORMAL HAND HELD ANTENNA. DOVE STANDS FOR DIGITAL ORBITING VOICE ENCODER WHOSE FREQUENCY IS 145.825 MHZ. IT NOT ONLY SENDS PACKET INFORMATION BUT AT TIMES ON FM SENDS VOICE COMMUNICATIONS AND CAN BE USED AS AN INDUCEMENT TO STUDENTS TO LEARN MORE ABOUT AMATEUR RADIO. THE VOICES ARE FROM ALL OVER THE UNITED STATES WHO GIVE SMALL SPEECHES OF 40 WORDS OR LESS. IT CAN BE HEARD FROM ABOUT 11:30 TO 12:30 EASTERN SATANDARD TIME TWICE A DAY. THE SIGNAL WHEN PICKED UP WILL LAST FOR ABOUT 10 TO 15 MINUTES. DOVE'S TELEMETRY COMES DOWN AS STANDARD PACKETS. YOU HOOK YOUR TNC TO YOUR 2-METER RADIO AND ANTENNA. YOU DON'T EVEN HAVE TO TRACK THE THING. YOU SEE THE PACKETS ON YOUR SCREEN. THIS IS GOING TO BE LIKE A W1AW FROM SPACE SENDING BULLETINS DOWN THAT WILL NOT BE DEPENDENT UPON PROPAGATION. TUNE IT IN AND ENJOY ANOTHER FACET OF HAM RADIO. TNX K2JF V KB2COB MAIL DROP

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IN REFLECTING BACK OVER THE LAST THREE AND ONE HALF YEARS AS AN AMATEUR RADIO OPERATOR, I REALIZE THE IMPORTANCE OF EACH ~~ASPECT~~ OF RADIO AND EVEN THE IMPORTANCE OF COMBINATIONS OF THOSE ASPECTS OF RADIO NONE CAN OR SHOULD BE ELIMINATED OR SET ASIDE WITHOUT LOSING PART OF THE OVERALL PICTURE. I HAVE BEEN EXPOSED TO MANY FACETS OF RADIO INCLUDING DIRECTION FINDING, CONTESTING, FIELD DAY, EMERGENCY OPERATIONS, CW, SIDEBAND, DXING, QSL CARDS, CLUB ACTIVITIES AND THE EXPERIENCE OF BEING AN EMERGENCY COORDINATOR FOR MY COUNTY. ALL ARE IMPORTANT!!!

WE HAVE RECENTLY BEEN TOLD WE ARE TO LOSE PART OF THE 220 BAND AND MANY PEOPLE FOUGHT A GOOD BATTLE. HOW THAN CAN WE EVER CONSIDER GIVING UP AN EVEN BIGGER PART OF AMATEUR RADIO JUST TO PLEASE A VERY FEW? WHEN WE GIVE UP THE CODE OR MAKE IT OPTIONAL, WE GIVE THE VERY FOUNDATION OF AMATEUR RADIO ITSELF. AMONG OTHER THINGS, IT HAS SAVED MANY LIVES WHEN THE CODE WAS THE ONLY FORM OF COMMUNICATION AVAILABLE. SOMEONE KNEW CODE TO SEND IT. SOMEONE ALSO KNEW CODE TO RECEIVE IT AND UNDERSTAND WHAT WAS BEING CONVEYED. SOMEONE'S LIFE WAS SAVED. IN WARTIME, PRISONERS SENT CODE (THE ONLY FORM OF COMMUNICATION AVAILABLE) BY BLINKING THEIR EYES. AGAIN, THIS WAS THEIR ONLY FORM OF COMMUNICATION. THEY WOULD HAVE BEEN IN TOTAL SILENCE FOR WEEKS AT A TIME WITHOUT THE CODE. MANY WHO CANNOT SPEAK CAN USE CW TO COMMUNICATE TO THE OUTSIDE WORLD AND THRU THIS MEANS THEY ARE NOT SO ISOLATED.

WE ARE NOT CBERS OR CHILDREN WITH EXPENSIVE TOYS. WE ARE COMMUNICATORS AND CODE IS ANOTHER FORM OF COMMUNICATION. IF WE ARE TRULY COMMUNICATORS, WE WILL WANT TO RETAIN, MAINTAIN AND USE ALL AVAILABLE FORMS OF COMMUNICATIONS. IT IS TRUE THAT WE ALL GET INTO THE HOBBY FOR DIFFERENT REASONS BUT THE BOTTOM LINE IS THAT WE KNOW WHEN WE TAKE THAT TEST WE ARE PRIMARILY GETTING INTO COMMUNICATIONS. IT IS EASY TO TALK BUT THE TRICK IS TO BE ABLE TO COMMUNICATE AN IDEA OR MESSAGE WHILE WE ARE TALKING.

IT WASN'T EASY FOR ME TO LEARN THE CODE. I HAD TO PUT IN MANY LONG, HARD HOURS OF SENDING AND RECEIVING CODE TO EVEN PASS THE 5 WPM TEST. BUT DID DO IT AND FOUND A SENSE OF PRIDE AND ACCOMPLISHMENT IN DOING SO. MANY FOUGHT LEARNING CODE ONLY TO TURN AROUND A FEW YEARS LATER TO REALIZE THEY ACTUALLY LIKE IT AFTER IT CEASES TO BE A CHORE.

WE MUST NOT LET CODE FALL BY THE WAYSIDE. DO WE ALSO DO AWAY WITH THE WRITTEN TEST AND HAND OUT LICENSES UPON DEMAND? IT SOUNDS CRAZY BUT THAT COULD BE THE NEXT STEP. LET'S HENCEFORTH RESOLVE TO SUPPORT THE RETAINING OF MORSE CODE AS A VITAL AND HISTORICAL PART OF THE WORLD OF AMATEUR FOR ALL TIMES.  
TNX...KA2YKN

\* \* \* \* \* UPCOMING EVENTS \* \* \* \* \*

MARCH 31ST..3:15 - 10:15 TRUMP CASTLE CASINO BUS TRIP, COST \$10.00, RECEIVE \$15.00 BACK WITH A DEFERRED \$5.00 TICKET, THERE ARE A FEW SEATS LEFT, PLEASE CONTACT ME IF YOU ARE INTERESTED, I MUST HAVE THE MONEY BY MARCH 14TH!!!

MARCH 7TH MEETING..WA2VXI HARRY MAXFIELD WILL BE SPEAKING ABOUT PACKET RADIO ALONG WITH HANDS ON DEMONSTRATIONS AFTER GENERAL MEMBERSHIP MEETING.

APRIL 4TH MEETING..FM CLINIC. WB2CAK AND N2SS WILL BE HOLDING A CLINIC TO CHECK OUT YOUR RIGS. BRING ALL PERTINENT INFO WITH YOU, THERE WILL BE POWER SUPPLIES AND MONITORS TO CHECK YOUR RIGS.

MAY 2ND MEETING..WA2IML WILL BE SPEAKING ABOUT REPEATER PROCEDURES.

MAY 11TH..SKATING PARTY AT SKATERS CHOICE ON DELSEA DRIVE 7:30 - 11:30 \$4.00 A PERSON. INCLUDING SKATES, PLEASE LET ME KNOW IF YOU ARE PLANNING ON ATTENDING.

\* \* \* \* \* ARRL MEMBERSHIP \* \* \* \* \*

THE FOLLOWING LIST IS THE KNOWN LIST OF MEMBERS OF GCARC WHO ARE MEMBERS OF THE ARRL. IF YOU ARE A MEMBER AND YOUR NAME IS NOT ON THE LIST PLEASE GET IN TOUCH WITH THE CORRESPONDING SECRETARY (K2JF) AND GIVE HIM YOUR NAME. THE CLUB MUST HAVE 51% OF ITS MEMBERSHIP BE MEMBERS OF ARRL TO BE AN AFFILIATED CLUB. THIS IS IMPORTANT FOR OUR CONTINUE OPERATION OF OUR CLUB.

AE2L\*, AI2B\*, K2FI, K2HPV, K2JF\*, K2JJC, K2JOL\*, K2OWE, K2PBW, K2PQD, K2QGH, K2QOK, K2UUY, K2ZA\*, K3JGJ, K3UKW, KA2DOT, KA2KMW, KA2OSW, KA2VKY, KA2VTR, KA2YKN, KA2ZRN, KA2ZZA, KB2AB, KB2ALN, KB2AYU, KB2AYW, KB2CIK, KB2COB, KB2DHQ, KB2EAI, KB2EAL, KB2ETV, KB2EUA, KB2EUB, KB2FRN, KB2GH, KB2GTV, KB2GW, KD2AE, KD2CR, KE2CK, KE2ES, KE2IW, KE2NY, KG2G, KN2U, KR1M, N2ASN, N2ASV, N2BK, N2BDL, N2CFW, N2CQ, N2DJZ, N2DNJ, N2DRD, N2DUZ, N2DWK, N2DWR, N2EBB, N2ETJ, N2FJL, N2FJQ, N2FKT, N2FNF, N2FPO, N2GYB, N2HGL, N2HTP, N2HTS, N2HYS, N2HZM, N2ILB, N2IMH, N2IMK, N2IZM, N2IQQ, N2IVN, N2SS\*, ND2P, NJ2B, NJ2C, NT2N, W2CB, W2GSN, W2LVW, W2PAX, W2PLY, W2SPN, W2SPV\*, WA2BMQ, WA2CVV, WA2DNL, WA2FZB, WA2IBZ, WA2JSG\*, WA2KOH, WA2LKF, WA2NPD, WA2SIT, WA2TML, WA2TOP, WA2UDO, WA2USI, WA2VQG, WA2VXT, WB2AOL, WB2CAK, WB2DXB, WB2GES, WB2GSF, WB2LNR\*, WB2OCR, WB2OYQ, WB2OZI, WB2UEY, WD2A\*, WK2G.

THE CALLS THAT HAVE THE \* AFTER IT MEANS THEY ARE LIFE MEMBERS. IF YOU ARE A LIFE MEMBER AND IT IS NOT NOTED PLEASE INFORM K2JF.

TO THOSE MEMBERS OF GCARC WHO DO NOT BELONG TO THE ARRL, IT BEHOOVES YOU PEOPLE TO CONSIDER JOINING THE ARRL. THEY ARE YOUR VOICE IN MANY OF THE ACTIONS THAT KEEP AMATEUR RADIO GOING. THEIR WORK IN GETTING PB1 AND PB3, PLUS THE HELPING HAND IN GETTING THE NEW RFI CLAUSE IN RADIO COMMUNICATIONS ACT PAR. 304 (B), PLUS THE WORK THEY ARE DOING FOR US IN THE DEFENSE OF 220 MHZ; PLUS MUCH MORE THAT YOU MAY NOT BE AWARE OF; ALSO, YOU GET THEIR EXCELLENT MAGAZINE QST, WHICH IS WORTH THE PRICE OF BELONGING TO ARRL. TNX...JOHN,K2JF

\* \* \* \* \* TNX \* \* \* \* \*

I'D LIKE TO THANK EVERYONE THAT CAME OUT TO THE BOWLING PARTY. I FEEL THAT IT WAS A HUGE SUCCESS!! WE ALL GOT TO LEARN A LITTLE ABOUT EACH OTHER, AND I THINK THAT EVERYONE ENJOYED THEMSELVES, KEEP AN EYE OUT FOR MORE INFO ON THE NEXT ONE, YOU'LL SURELY NOT WANT TO MISS IT!!

THERE IS A TRIP PLANNED TO VISIT ARRL HEADQUARTERS ON JUNE 2ND, GO THROUGH THE TOUR, LUNCH AND SITE SEEING, ALSO FLEA MARKET ON JUNE 3RD, LET ME KNOW IF YOU ARE INTERESTED, WE WILL BE CAMPING OUT AND WILL ALSO BE GETTING ROOMS FOR THOSE THAT AREN'T CAMPERS. TNX..MARLA,N2DWR

\* \* \* \* \* FACILITY \* \* \* \* \*

IF YOU WOULD LIKE TO GO DOWN TO THE FACILITY TO WORK THE STATION, OR JUST TO GO DOWN AND VISIT, PLEASE CALL THE SITE MANAGER, CHARLIE..K2PQD TO GET IN TOUCH WITH A KEY HOLDER. HE'LL BE ABLE TO DIRECT YOU TO THE RIGHT PERSON. IF K2PQD ISN'T AVAILABLE, THEN YOU MAY CONTACT JOHN..K2JF, OR ED..W2GSN, OR MARLA..N2DWR, IF YOU INTEND ON OPERATING THE STATION USING YOUR CALL, THEN YOU MUST FURNISH THE SITE WITH A PHOTO COPY OF YOUR LICENSE TO REMAIN AT THE STATION, YOU MAY ONLY WORK THE BANDS IN WHICH YOU ARE LICENSED TO OPERATE, UNLESS THERE IS A HIGHER CLASS LICENSE HOLDER ACCOMPANYING YOU, AND THEY HAVE THEIR LICENSE WITH THEM. THE TRAILER IS THERE FOR YOU TO USE IT, PLEASE COME ON OUT AND TAKE ADVANTAGE OF ALL THE SUPER RIGS AND ANTENNA SYSTEMS THAT WE HAVE.

THE FOLLOWING IS THE LIST OF KEY HOLDERS FOR THE TRAILER. PLEASE, IF YOU ARE INTERESTED IN GOING DOWN TO THE TRAILER, FIRST TRY TO CONTACT THE FIRST PERSON ON THE LIST. IF YOU CAN'T CONTACT THE FIRST PERSON, THEN GO DOWN THE LIST AND TRY THE NEXT PERSON, SO ON AND SO ON...

CHARLIE - K2PQD / JOHN - K2JF / ED - W2GSN / MARLA - N2DWR / RAY - AI2B  
BOB - KB2COB / JIM - N2AIV / JERRY & BETH - WB2CAK & KB2EAL / CHRIS - N2IVN  
AL - N2FJQ (ONLY IN EMERGENCES). TNX...MARLA,N2DWR

THE STATE OF NEW JERSEY HAS ONE OF THE WORST RADIO RECEIVER LAWS IN THE COUNTRY. ADOPTED IN 1977, IT FORBIDS THE CARRYING IN A CAR OF ANY "SHORTWAVE RADIO RECEIVER OPERATIVE ON FREQUENCIES ASSIGNED BY THE FCC FOR GOVERNMENTAL USERS." UNLESS ONE HAS A PERMIT FROM THE LOCAL POLICE. THE BURDENSOME LAW DARES FROM THE TIME WHEN POLICE DEPARTMENTS USED SHORTWAVE CHANNELS FOR DISPATCHING. IT HAS BEEN INTERPRETED TO BAN THE MOBILE USE OF MOST HAM RADIO EQUIPMENT IN NEW JERSEY.

LAST SPRING FRANK TERRANEL N2IGO, AND OTHER NEW JERSEY RESIDENTS, PUT FORWARD A DRAFT BILL TO REPLACE THEIR STATE'S MOBILE RECEIVER LAW. FRANK IS LEGAL COUNSEL FOR THE NORTH AMERICAN ASSOCIATION OF RADIO CLUBS. ANARC IS A SHORT WAVE LISTENING ORGANIZATION. ITS KEY PROVISION WAS:

"ANY PERSON WHO INTERCEPTS ANY MESSAGES OR TRANSMISSIONS MADE ON OR OVER ANY POLICE COMMUNICATIONS SYSTEM, AND USES THE INFORMATION OBTAINED THEREBY TO AID, ABET OR ASSIST IN COMMITTING A CRIME, OR IN VIOLATING ANY LAW OF THIS STATE, OR USES THE SAME IN A MANNER WHICH INTERFERES WITH THE DISCHARGE OF POLICE OPERATIONS, SHALL BE GUILTY OF A CRIME OF THE FOURTH DEGREE."

THE INTENT WAS TO PROTECT THE CONTENT OF MONITORED COMMUNICATIONS AGAINST MISUSE, WITHOUT LIMITING THE POSSESSION OR USE OF RADIO RECEIVERS. UNFORTUNATELY, THE 1989 LEGISLATIVE SESSION ADJOURNED WITH NO ACTION TAKEN ON EITHER THE ASSEMBLY OR THE SENATE VERSIONS OF THE BILL, SO THEY EXPIRED.

HOWEVER, A SIMILAR BILL WAS INTRODUCED AT THE START OF THE STATE SENATE'S 1990 SESSION. ON JANUARY 18TH, FRANK TESTIFIED IN SUPPORT OF THE NEW BILL (S 305) BEFORE THE SENATE COMMITTEE ON LAW, PUBLIC SAFETY AND DEFENSE. THE COMMITTEE PASSED THE BILL UNANIMOUSLY AND SENT IT TO THE STATE SENATE FLOOR FOR CONSIDERATION. IT WILL SOON BE INTRODUCED IN THE STATE ASSEMBLY.

THE BILL NOW LOOKS LIKE IT HAS A GOOD CHANCE OF BEING SIGNED INTO LAW. IF YOU ARE A RESIDENT OF NEW JERSEY, NOW IS THE IDEAL TIME TO SEND A LETTER OF SUPPORT FOR S-305 TO YOUR STATE SENATOR AND/OR THE BILL'S SPONSOR, SENATE MAJORITY LEADER JOHN A. LYNCH (C/O SMITH, DON, ALAMPI, SCALO & D ARGENIO 2200 FLETCHER AVE. FORT LEE, NJ 07024. (NOTE\* OUR STATE LEGISLATOR IS SEN. RAYMOND J. ZANE 39 S. BROAD ST. WOODBURY, NJ 08096, PHONE 848-1102. DROP HIM A LINE OR CALL HIM AND LET HIM KNOW YOU WANT S-305 TO PASS.) W5YI/STATE BULLETINS/K2JF/KB2COB BBS.

\* \* \* \* \* PRINCIPLES OF GROUNDING \* \* \* \* \*  
JD DELANCY, K1ZAT/3

THE MAIN REASON OF EQUIPMENT, FACILITY AND SYSTEM GROUNDING IS, MOTOR AND GENERATOR FRAMES, CABLE ARMOR, CONTROL EQUIPMENT ENCLOSURES, CONDUITS AND ALL PORTABLE EQUIPMENT CABINETS AND HOUSING ARE AT GROUND POTENTIAL THEREBY REDUCING POSSIBILITY OF ELECTRICAL SHOCK OF PERSONAL COMING IN CONTACT WITH METAL PARTS OF THE EQUIPMENT AND TOWERS.

THE SECONDARY FUNCTION OF ALL GROUNDS IS TO IMPROVE THE OPERATION AND CONTINUITY OF SERVICE OF ALL EQUIPMENT CONFIGURATIONS. FAULTY GROUND RETURNS ARE DETRIMENTAL TO THESE FUNCTIONS AND CAN RESULT IN INTERMODULATION EFFECTS AND NOISE VOLTAGE BUILD-UP WITH THEIR ASSOCIATED SERVICE INTERRUPTIONS, FALSE SIGNALS, EQUIPMENT DAMAGE, OR SIGNAL DISTORTION.

CONSIDERING THAT THE CHARACTERISTICS OF THE SOIL (EARTH) AND THE WEATHER VARY GREATLY AT THE LOCATIONS IN WHICH THE INSTALLATION ARE PLANNED, IT IS PRACTICALLY IMPOSSIBLE TO DEVELOP AN EARTH GROUNDING SYSTEM WHICH CAN BE UTILIZED AS A STANDARD FOR ALL LOCATIONS. DURING THE PLANNING STAGES OF AN EXTENSIVE ELECTRODE SYSTEM FOR SUBSTATIONS OR OTHER ELECTRICAL POWER DISTRIBUTION SYSTEM, CONSIDERATION MUST BE GIVEN TO THE POTENTIAL VARIATIONS WHICH CAN OCCUR OVER THE AREA OF GROUND CONNECTIONS.  
(CONTINUED=GROUNDING)

( CONTINUED-GROUNDING )

A GROUND CONNECTION, REGARDLESS OF ITS APPLICATION, MUST MEET CERTAIN SPECIFICATIONS. THE ELECTRODES BURIED IN THE GROUND TO FORM AN ELECTRICAL CONNECTION TO THE EARTH MUST THEMSELVES BE CAPABLE OF WITHSTANDING MECHANICAL ABRASION AND HAVE SUFFICIENT AREA IN CONTACT WITH THE SOIL SO THAT THE GROUND RESISTANCE IS WITHIN THE RATED LIMITS. THE RESISTANCE OF THIS EARTH PATH MUST REMAIN REASONABLE CONSTANT THROUGHOUT THE SEASONS OF THE YEAR AND MUST BE UNEXPECTED CIRCULATING CURRENT RESULTING FROM THE EQUIPMENT CONFIGURATION TO WHICH THE CONNECTION IS MADE. IN SHORT, GROUND CONNECTIONS SHOULD BE DURABLE, HAVE LOW D-C RESISTANCE, LOW A-C IMPEDANCE, HAVE ADEQUATE CURRENT CARRYING CAPACITY, AND BE OF SUCH A DESIGN THAT THEY CAN BE READILY INSTALLED AND MAINTAINED.

DRIVEN GROUND ELECTRODES, MORE COMMONLY REFERRED TO AS GROUND RODS OR PIPES, ARE UTILIZED WHERE BEDROCK IS BEYOND A DEPTH OF 10 FEET. GROUND RODS ARE COMMERCIALY MANUFACTURED IN 1/2", 5/8", 3/4" AND ONE INCH DIAMETERS, AND IN LENGTHS OF 6', 8', 10', 12', AND 16'. THE NATIONAL ELECTRIC CODE (NEC) SPECIFIES THAT GROUND RODS OF STEEL OR IRON SHALL BE AT LEAST 5/8" IN DIAMETER AND THAT RODS OF NON-FERROUS MATERIALS SHALL NOT BE LESS THAN 1/2" DIAMETER. ALTHOUGH GALVANIZED STEEL RODS ARE USED, THE MORE COMMONLY UTILIZED MATERIAL, COPPER CLAD STEEL PROVIDES AN EXCELLENT MEANS OF OBTAINING THE LOWEST POSSIBLE RESISTANCE CONTACT WITH THE EARTH.

THE NEC REQUIRES THAT ANY WATER METERING EQUIPMENT BE BYPASSED BY A JUMPER OF A SIZE NOT LESS THAN THAT REQUIRED FOR THE GROUNDING CONDUCTOR. THE GROUND CONDUCTOR SHALL BYPASS THE METER AND SERVICE UNIONS. THE WATER PIPING SYSTEM MUST BE MADE ELECTRICALLY CONTINUOUS BY BONDING TOGETHER ALL PARTS WHICH MAY BECOME DISCONNECTED. AS WITH OTHER GROUND CONNECTIONS, THE RESISTANCE SHOULD BE MEASURED BEFORE DECIDING ON THIS TYPE OF GROUND INSTALLATION. IT SHOULD BE NOTED THAT WHERE CAST IRON SCREW TYPE JOINTS ARE INSTALLED FOR JOINING TOGETHER LENGTHS OF PIPE, THEY USUALLY PROVIDE METALLIC CONNECTIONS OF LOW RESISTIVITY. HOWEVER, IF JOINTS ARE MADE OF "LEADITE" OR SIMILAR TYPES OF CEMENT, THE RESISTIVITY VALUES OF THESE CONNECTIONS MAY BE SEVERAL HUNDRED OHMS, RENDERING THE WATER SYSTEM USELESS AS A SUITABLE GROUND SYSTEM; THEREFORE, TESTS SHOULD BE CONDUCTED TO INSURE CONTINUITY OF GROUND CIRCUITS.

MULTIPLE DRIVEN ELECTRODES WILL NOT ALWAYS PROVIDE AN ADEQUATE LOW RESISTANCE TO EARTH. IN SUCH INSTANCES, IT IS GENERALLY POSSIBLE TO REDUCE THE RESISTIVITY OF THE SOIL IMMEDIATELY SURROUNDING THE DRIVEN ELECTRODE BY TREATING THE SOIL WITH A SUBSTANCE WHICH, WHEN IN SOLUTION, IS HIGHLY CONDUCTIVE. THERE ARE SEVERAL SUBSTANCES. HOWEVER, THE BETTER KNOWN, IN ORDER OF PREFERENCE ARE:

- A. MAGNESIUM SULPHATE (COMMON NAME: EPSOM SALTS)
- B. COPPER SULPHATE (COMMON NAME: BLUE VITRIOL)
- C. CALCIUM CHLORIDE
- D. SODIUM CHLORIDE (COMMON NAME: COMMON SALT)
- E. POTASSIUM NITRATE (COMMON NAME: SALTPETER)

PREFERENCE IS GIVEN TO USE OF MAGNESIUM SULPHATE, WHICH IS THE MOST COMMON MATERIAL USED. IT COMBINES LOW COST WITH HIGH ELECTRICAL CONDUCTIVITY AND LOW CORROSIVE EFFECT ON A GROUND ELECTRODE OR PLATE. ALL ELECTRODES USED IN THE SOIL TREATMENT SHOULD BE OF COPPERWELD TYPE.

LARGE REDUCTIONS IN THE GROUND CONTACT RESISTANCE OF THE INDIVIDUAL GROUND ELECTRODES MAY BE EXPECTED AFTER CHEMICAL TREATMENT OF THE EARTH WHERE LOW RESISTANCES ARE DIFFICULT TO OBTAIN WITHOUT CHEMICAL TREATMENT. THE INITIAL EFFECTIVENESS OF CHEMICAL TREATMENT IS GREATEST WHERE THE SOIL IS SOMEWHAT POROUS BECAUSE THE SOLUTION PERMEATES A CONSIDERABLE VOLUME OF EARTH, AND EXPANDED GROUND CONTACT THEREBY INCREASES THE EFFECTIVENESS OF THE ELECTRODE. WHEN SOIL OF COMPACT TEXTURE IS ENCOUNTERED, THE CHEMICAL TREATMENT IS NOT AS EFFECTIVE AT FIRST BECAUSE THE SOLUTION TENDS TO REMAIN IN ITS ORIGINAL LOCATION FOR A LONGER PERIOD OF TIME. CHEMICAL TREATMENT LIMITS THE SEASONAL VARIATION OF RESISTANCE AND LOWERS THE FREEZING POINT OF THE SURROUNDING SOIL. CHEMICAL TREATMENT OF THE EARTH AROUND A DRIVEN ELECTRODE UTILIZING THE MAGNESIUM SULPHATE AND WATER SOLUTION IS DESCRIBED AS FOLLOWS:

(CONTUNUED-GROUNDING)

(CONTINUED-GROUNDING)

A. A 4-FOOT LENGTH (APPROX) OF 8 INCH PIPE IS BURIED IN THE GROUND APPROXIMATELY FOUR INCHES FROM THE GROUND ELECTRODE, AND FILLED TO WITHIN ONE FOOT OF THE GROUND LEVEL WITH THE MAGNESIUM SULPHATE AND WATER SOLUTION. THE 8-INCH PIPE SHOULD HAVE A WOODEN COVER WITH HOLES, AND BE LOCATED AT GROUND LEVEL.

B. FORTY TO NINETY POUNDS OF CHEMICAL WILL INITIALLY BE REQUIRED, AND WILL RETAIN ITS EFFECTIVENESS FOR TWO OR THREE YEARS. EACH REPLENISHMENT OF CHEMICAL WILL EXTEND ITS EFFECTIVENESS FOR A LONGER PERIOD, SO FUTURE RETREATMENT OCCURS LESS AND LESS FREQUENTLY.

THE USE OF COMMON SALT OR SALTPETER IS NOT RECOMMENDED AS IT WILL REQUIRE GREATER CARE TO BE GIVEN TO PROTECTION AGAINST CORROSION. ADDITIONALLY, ANY METAL ENCLOSURE NEARBY AND UNRELATED TO GROUNDING, SHOULD ALSO BE TREATED TO PREVENT DAMAGE BY CORROSION. THEREFORE, COMMON SALT OR SALTPETER SHOULD BE UTILIZED ONLY WHEN ABSOLUTELY NECESSARY TO REDUCE THE RESISTIVITY OF THE SOIL.

WHEN COMMON SALT MUST BE UTILIZED, THE AMOUNT NECESSARY TO TREAT THE EARTH AROUND A DRIVEN ELECTRODE DEPENDS UPON THE AVAILABLE WATER SUPPLY. A DECREASE IN RESISTIVITY OF THE EARTH CAN BE ACHIEVED BY ADDING MORE WATER. ADDITIONAL WATER DISSOLVES THE SALT AND ALSO AIDS IN CARRYING THE SALT SOLUTION THROUGHOUT THE CONDUCTING SOIL HEMISPHERE. THEREFORE, A MINIMUM TREATMENT OF EARTH PER POUND ELECTRODE WOULD CONTAIN AT LEAST FIVE POUNDS OF SALT AND AS MUCH WATER AS IS REQUIRED TO INITIALLY FLOOD THE AREA. THE RATE AT WHICH CHEMICAL TREATMENT WILL LOWER THE RESISTIVITY OF THE SOIL DEPENDS UPON THE RATE AT WHICH THE SOLUTION WILL SEEP THROUGH THE SOIL. COMMERCIAL TESTS HAVE SHOWN THAT AN INITIAL CHEMICAL TREATMENT RETAINS ITS EFFECTIVENESS FOR AT LEAST ONE YEAR, HOWEVER, POROUS SOIL AND EXCESSIVE RAINFALL OR DRAINAGE WOULD REDUCE THE PERIOD APPRECIABLE. IN SOME CASES, TREATMENT HAS REMAINED EFFECTIVE FOR THREE TO SIX YEARS. IF THE STATION AND EQUIPMENT IS LOCATED ON A ROCKY MOUNTAIN TOP, THIS SYSTEM COULD NOT BE UTILIZED SINCE SOIL TREATMENT WOULD BE IN-EFFECTIVE.

TNX...KE2M-4/BBS

\* \* \* \* \*

+ + + + + FINAL NOTICE + + + + +

A FRIENDLY REMINDER, IF YOU HAVE NOT PAID YOUR 1990 MEMBERSHIP DUES, YOU MUST DO SO BEFORE 31 MARCH 1990.

AS PER THE CHANGES IN THE BY-LAWS, DUES MUST BE PAID ON OR BEFORE 31 MARCH OR THE MEMBER WILL BE DROPPED FROM THE ROSTER. TO BE REINSTATED A NEW APPLICATION MUST BE FILED. A COPY OF THE BY-LAWS WAS MAILED TO EACH MEMBER VIA CROSSTALK IN DECEMBER 1989. IF YOU HAVE ANY PROBLEMS PLEASE GIVE ME A PHONE CALL, 609-468-1404. FOR YOUR INFORMATION THE FOLLOWING ARE THE DUES RATES:

REGULAR FULL VOTING MEMBER	\$ 15.00
REGULAR FULL FAMILY MEMBER	\$ 7.50
NON VOTING ASSOC. MEMBER	\$ 10.00

DUES MAY BE PAID AT THE GENERAL MEMBERSHIP MEETING, OR MAILED TO THE CLUBS PO BOX, AND WILL BE FORWARDED TO ME OR YOU CAN MAIL IT DIRECT TO MY HOME ADDRESS:

ARS KB2COB  
ROBERT L. LAYTON  
314 DIXON AVENUE  
WENONAH, N.J. 08090

73'S DE BOB/KB2COB.

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THE JEWISH COMMUNITY CENTER OF SOUTHERN NEW JERSEY WITH THE CHAVERIM OF DELAWARE VALLEY. THE AMATEUR GROUP SPONSORING THE AMATEUR RADIO STATION AT THE CENTER, IS OFFERING A COURSE TO PREPARE STUDENTS FOR UPGRADING TO THE ADVANCED CLASSES FCC AMATEUR LICENSES.

THE COURSE WILL RUN EIGHT (8) WEEKS FROM MARCH 22, 1990 UNTIL MAY 10, 1990. MINIMUM PREREQUISITE FOR THE COURSE IS A GENERAL CLASS LICENSE, AND THE FEE WILL LIKEWISE BE \$10.00 FOR MEMBERS AND \$15.00 FOR NON-MEMBERS.

BASIC TEXT BOOKS FOR BOTH COURSES ARE THE FCC RULE BOOK AND THE APPROPRIATE ARRL STUDY GUIDE FOR EACH LICENSE CLASS. IT WILL BE THE RESPONSIBILITY OF THE STUDENT TO ACQUIRE THESE TEXT AND OTHER OPTIONAL MATERIALS.

CLASSES WILL BE HELD THURSDAY EVENINGS FROM 7:30 PM TO 9:30 PM. THE INSTRUCTORS WILL BE BARNEY MILSTEIN, KD2VB, BOB KRUKOWSKI, WA2UDO, RAY SCHNAPP, WB2NBJ, AND ED LUDWIN, K2UK. REGISTER BY WRITING OR GOING TO THE JCC, 2395 W. MARLTON PIKE (RTE 70), CHERRY HILL, NJ 08002. OR CALLING THE CENTER AT 1-609-662-8800.

TNX...KE2M...BBS

\* \* \* \* \* CALLSIGNS \* \* \* \* \*

EXTRA	ADVANCED	TECH/GEN	NOVICE	DISTRICT
W20A	KFOHC	N0LJQ	KB0FPA	0
WB1D	KC1SU	N1HGA	KA1UVU	1
WV2E	KE2RB	N2KER	KB2IZL	2
NX3T	KD3QK	N3HSS	KA3VOL	3
AB4SL	KN4CY	N4XSR	KC4NUW	4
AA5PS	K15BH	N5PUL	KB5LIR	5
AA6SY	KK6EH	N6XLC	KC6HTK	6
AA7CY	KF7ZB	N7OAY	KB7JGU	7
WY8G	KF8DH	N8LQX	KB8IRE	8
WN9I	KE9TZ	N9JEN	KB9DUJ	9
AH0H	AH0AF	KH0AAL	WH0AAL	MARIANA
KH2M	AH2CF	KH2EF	WH2AMK	GUAM
AH3B	AH3AD	KH3AB	WH3AAC	JOHNSTON
	AH4AA	KH4AD	WH4AAG	MIDWAY
	AH6KD	NH6VQ	WH6CGH	HAWAII
		KH7AA		KURE IS
AH8D	AH8AD	KH8AH	WH8AAZ	AM. SAMO.
AH9A	AH9AD	KH9AE	WH9AAH	WAKE
	AL7LS	NL7TD	WL7BWC	ALASKA
NP2F	KP2BR	NP2DO	WP2AGZ	VIRGIN I
	KP4QK	WP4XG	WP4IQZ	PUERTO R

CALL SIGNS ARE ISSUED BASED ON THE FCC FORM 610 MAILING ADDRESS.

TNX...W5YI...K2UK,BBS

# DISCOVER US!

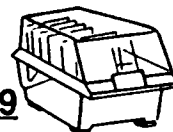
## RIBBONS

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Citizen 120D/180D	\$4.25
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Epson MX,RX,FX-70/80/85	\$2.70
NEC P2/P6	\$4.75
NEC P3/P7	\$5.00
Okidata 293/294	\$8.00
Okidata 182/192/320/321	\$4.25
Okidata 80/82/S. Gemini 10	\$1.00
Okidata 84	\$3.50
Panasonic KXP-1090/1124	\$3.50
Star NX/NP/ND-10/NB24-10	\$4.30
Toshiba 1350/351/341/(HD)	\$3.50

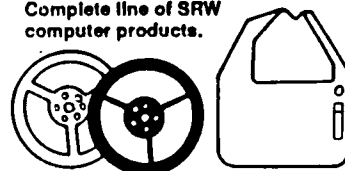
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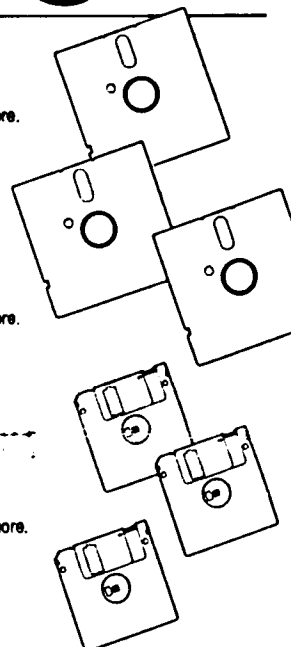
each, 100 or more  
33¢ each, less than 100. 34¢ WHITE BOX available, 100 or more.  
• 5.25 DS/DD, Black • Sleeves • 5 Color Labels w/ Tabs  
IN 17 COLORS ..... 41¢ ea., 100 or more  
(Minimum lot of 20; one color per lot.) 45¢ ea., less than 100  
IN 17 COLORS, WHITE BOX ..... 46¢ ea., 100 or more  
(One color of 10 per box.) 50¢ ea., less than 100

## 59¢ BULK

each, 100 or more  
63¢ each, less than 100. 64¢ WHITE BOX available, 100 or more.  
• 5.25 HD/AT, Black • Sleeves • 5 Color Labels w/ Tabs  
IN 8 COLORS ..... 89¢ ea., 100 or more  
(Minimum lot of 20; one color per lot.) 94¢ ea., less than 100  
IN 8 COLORS WHITE BOX ..... 94¢ ea., 100 or more  
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\$1.11 each, less than 50. \$1.12 WHITE BOX available, 50 or more.  
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IN 5 COLORS ..... \$1.28 ea., 50 or more  
(Minimum lot of 10; one color per lot.) \$1.32 ea., less than 50  
IN 5 COLORS, WHITE BOX ..... \$1.33 ea., 100 or more  
(One color of 10 per box.) \$1.37 ea., less than 100



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2 1/2 x 15/16	3 across	15,000	\$2.30
2 3/4 x 2 3/4	1 across	2,500	\$12.00
2 3/4 x 1 7/16	1 across	5,000	\$3.75
3 x 15/16	4 across	20,000	\$2.10
3.3 x 15/16	4 across	20,000	\$2.15
3 1/2 x 15/16	1 across	5,000	\$2.00
3 1/2 x 15/16	2 across	10,000	\$2.00
3 1/2 x 15/16	3 across	15,000	\$2.00
3 1/2 x 15/16	4 across	20,000	\$2.00
4 x 15/16	1 across	5,000	\$3.50
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\* \* \* \* \* PUBLIC SERVICE \* \* \* \* \*

SEVERAL RECENT TRAGIC EVENTS SUCH AS HUGO, THE SAN FRANCISCO EARTHQUAKE AND THE RECENT AIRPLANE CRASHES HAVE DRIVEN HOME THE NEED FOR DEDICATED AMATEUR RADIO OPERATORS. THE AMATEUR RADIO EMERGENCY SERVICE AND RACES TRAIN AMATEURS IN THE SKILLS NEEDED TO BE AN EFFECTIVE OPERATOR IF AND WHEN THERE MAY BE A REAL EMERGENCY. IT IS NOT ENOUGH TO JUST BE OUT THERE WITH A RADIO. OVER THE LAST FOUR YEARS, I HAVE COME UP AS A REAL GREENHORN AND I REALIZE THAT THERE IS CERTAIN THINGS WE NEED TO KNOW AND A CERTAIN DISCIPLINE WE NEED TO MAINTAIN. THIS COMES IN PART WITH TRAINING AND EXPERIENCE.

THERE ARE MANY LEVELS OF EXPERTISE NEEDED IN AN EMERGENCY AND THERE IS A JOB FOR EVERYONE. WE NEVER KNOW WHAT CONDITIONS WE MAY BE FORCED TO WORK UNDER. WE COULD BE A NET CONTROL OPERATING IN A SMALL STOREROOM OR RUNNING MOBILE WITH AN OFFICIAL CAR. WE COULD BE PASSING INFORMATION ABOUT GETTING DRINKS AND FOOD FOR THE HUNGRY, TIRED WORKERS OR PASSING VITAL FACTS ALONG TO A DOCTOR ABOUT A VICTIM. EACH JOB IS IMPORTANT AND THE WHEEL DOESN'T TURN WITHOUT EACH PERSON DOING HIS OR HER JOB. EACH ONE OUT THERE IS JUST AS IMPORTANT TO THE NEXT PERSON. THRU THE ARES WE CAN STAND UP AND BE COUNTED. WE ARE NOT A DINOSAUR AND WE CAN MAKE A BIG DIFFERENCE. TNX...JEAN,KA2YKN

\* \* \* \* \* CONTESTING \* \* \* \* \*

THE GCARC TRAILER SITE IS AVAILABLE TO INDIVIDUALS AND GROUPS WISHING TO OPERATE THE CLUB STATION(S). TIME FOR THE EVENTS CAN BE RESERVED BY THE PERSONS INTERESTED BY CONTACTING MYSELF, JERRY WB2CAK. PLEASE TELL ME THE NUMBER OF PEOPLE INVOLVED AND THE NAME OF THE CHAIRMAN FOR THE EVENT. THE CHAIRMAN OF THE EVENT WILL HAVE THE RESPONSIBILITY OF ALL LOGS, ETC. TELL ME IF YOU ARE USING THE CLUBS CALL OR AN INDIVIDUAL CALL. THE CLUB SITE WILL BE SECURED BY THE CHAIRPERSON OF THAT PARTICULAR EVENT. ALL PERSONS PARTICIPATING WILL LOG IN AND OUT BY THE BOOK LOCATED AT THE COUNTER BY THE FRONT DOOR AS REQUESTED BY THE BUILDING CHAIRMAN. THERE ARE PROCEDURES POSTED AT DIFFERENT LOCATIONS FOR THE OPERATION OF RADIO EQUIPMENT AND THE ENVIRONMENTAL EQUIPMENT. THE CHAIRPERSON OF THE SCHEDULED EVENT IS EXPECTED TO KNOW THE LOCATIONS OF THE SAFETY EQUIPMENT AND SHUTOFFS AND TO ALERT THE OTHER MEMBERS OF THE CONTESTING TEAM NOT FAMILIAR WITH THE SITE. COMMON SENSE WITH SAFETY PREVAILS!! IF A PERSON RESERVING THE SITE IS NOT FAMILIAR WITH THE OPERATION OF THE SITE EQUIPMENT, CONTACT MYSELF OR CHARLIE K2PQD TO ARRANGE IN ADVANCE OF THE CONTEST FOR INSTRUCTIONS. THE EQUIPMENT IN USE AT EACH STATION ARE NOT COMPLICATED. PROPER KNOWLEDGE OF THE UNITS LENGTHENS THE LIFE EXPECTANCE AND DECREASES THE CHANCE OF TVI, RFI AND RELATED PROBLEMS. THE BOARD PASSED A RESOLUTION OF SAFETY RULES FOR THE SITE. IT IS POSTED NEXT TO THE MAIN BULLETIN BOARD. PLEASE READ THESE A FEW AND SIMPLE RULES. THEY ARE MEANT TO ENHANCE OUR FELLOW MEMBERS SAFETY. IT IS NOT MEANT TO BE DETRACTING. REMEMBER TO LEAVE THE SITE AS YOU FOUND IT. THE NEXT PERSON WOULD APPRECIATE OPERATING A CLEAN STATION AS YOU WOULD. REMEMBER THAT THERE IS NO ALCOHOLIC BEVERAGES ALLOWED AT OR IN THE SITE. SMOKING IS NOT PERMITTED. ON BEHALF OF THE BOARD OF DIRECTORS AND MYSELF, USE THE SITE IN GOOD HEALTH AND FRIENDSHIP. HAPPY CONTESTING!!

TNX...JERRY WB2CAK...CONTESTING CHAIRMAN./EX

\* \* \* \* \* ADVERTISING \* \* \* \* \*

I AM PLEASED TO ANNOUNCE THAT JEAN PRIESTLEY, KA2YKN, HAS AGREED TO BE OUR ADVERTISING CHAIRPERSON.

JEAN WILL BE RESPONSIBLE FOR KEEPING TRACK OF ALL CROSSTALK ADS.

IF ANYONE HAS ANY NEW ADS THAT THEY WANT IN CROSSTALK, PLEASE CONTACT HER.

AD SIZES AND PRICES CAN BE FOUND ON A SEPARATE SHEET ENCLOSED IN CROSSTALK.

TNX...KB2EAL

\* \* \* \* \* IMPORTANT \* \* \* \* \*

THE NEW SCANNER BILL S-305 IS NOW IN COMMITTEE AND NEEDS TO BE RELEASED.

TO GET THE BILL MOVING IT IS NECESSARY TO GET IT ON THE SENATE FLOOR; SO, WRITE TO:

SENATOR FRANK X. GRAVES  
100 HAMILTON PLAZA  
PATTERSON, NJ 07505

AND ASK HIM " PLEASE RELEASE BILL S-305 FROM COMMITTEE TO THE SENATE FLOOR " SIGN YOUR NAME AND CALL. DO IT NOW!!!!!! TNX...JOHN,K2JF

\* \* \* \* \* TRAGIC NOTE \* \* \* \* \*

ROY WEBSTER WAS KILLED ON HIS 38TH BIRTHDAY IN A FALL FROM THE 120FT LEVEL OF KMOJ'S TOWER. ROY WAS A SELF-EMPLOYED TOWER TECHNICIAN, WORKING ON HIS FIRST AMATEUR ANTENNA INSTALLATION.

HE GRABBED AN UNBOLTED SUPPORT WHILE DESCENDING THE TOWER, WHICH BROKE AWAY FROM THE TOWER. ROY WAS NOT ABLE TO OBTAIN INSURANCE BECAUSE OF HIS OCCUPATION. AMATEURS WHO WISH TO CONTRIBUTE TO A FUND TO HELP HIS WIFE RHONDA AND 13 YR OLD DAUGHTER AMY, MAY SEND DONATIONS TO;

BOX 337, WYANDOTTE, OK 74370  
LET'S ALL BE EXTRA CAREFUL WHEN DOING OUR TOWER WORK GUYS!.TNX..WB2YOF,BBS

\* \* \* \* \* CLUB LOGO DECALS \* \* \* \* \*  
\* \* \* \* \* CLUB PATCHES \* \* \* \* \*

THERE ARE A FEW CLUB DECALS AND PATCHES LEFT, ANYONE WANTING THESE ITEMS THEY ARE DECALS .50, PATCHES \$1.25. THEY ARE AVAILABLE AT THE MEETINGS, SEE BOB KB2COB, THE CLUB TREASURER, OR SEND BOB A SASE WITH CHECK AND HE WILL SEND THEM OUT TO YOU. TNX...BOB,KB2COB



AMATEUR AND ADVANCED  
COMMUNICATIONS

BILL RYAN WB3DPJ  
Manager

3208 CONCORD PIKE  
WILMINGTON, DE 19803

\* \* CANADIAN SWL STATIONS \* \*

THERE ARE A NUMBER OF CANADIAN MEDIUM-WAVE (AM) AND FM BROADCASTERS THAT RELAY THEIR PROGRAMMING ON SHORTWAVE, EITHER FOR CANADIAN NORTH, AND/OR FOR CANADIAN FISHERMAN AT SEA. ALTHOUGH THESE STATIONS ARE LOW POWERED, MOST OF THEM AREN'T ALL THAT DIFFICULT TO HEAR; THE BEST TIMES ARE AROUND DAWN AND DUSK AT YOUR QTH.

HERE'S A SYSTEMATIC LISTING OF THESE STATIONS;

<u>SW CALL</u>	<u>RELAYS</u>	<u>FREQ.(khz)</u>
CFCX	CFCF	6005
CFVP	CFCN	6030
CFRX	CFRB	6070
CKFX	CKWX	6080
CHNX	CHNS	6130
CKZN	CBN	6160
CKZU	CBJ	6160

<u>POWER(KW)</u>	<u>QTH</u>	<u>NOTES</u>
0.5	MONTREAL	+1
0.1	CALGARY	+1
1.0	TORONTO	+1
0.01 (!)	VANCOUVER	+1
0.5	HALIFAX	+1
5.0	ST. JOHN'S	+2
0.5	VANCOUVER	+3

NOTES: :

+1 STATIONS BROADCAST 24 HRS PER DAY  
+2 THE 1989 WRTH LISTS CKZN AS RELAYING CBN AND RUNNING 0.3 KW.

HOWEVER, I HEARD AND QSL'ED THIS STATION A YEAR AGO, AND CAN REPORT:

(A) CKZN WAS RELAYING A LOCAL CBC FM STATION IN HAPPY VALLEY/GOOSE BAY, LABRADOR RATHER THAN CBN IN ST. JOHN'S. (THE QTH FOR CKZN, ITSELF, HOWEVER, IS ST. JOHN'S.)

(B) THE VERY DETAILED QSL CARD LISTED THE STATION'S POWER AS 5.0 KW. CKZN IS LISTED AS BEING ON THE AIR 09:30 TO 05:00 UTC.

+3 CKZU IS LISTED AS BEING ON THE AIR 14:00 TO 09:05 UTC.

ALL STATIONS EXCEPT CKZN AND CKZU ARE PRIVATELY OWNED AND OPERATED. CKZN AND CKZU ARE OWNED AND OPERATED BY THE CBC.

FOR MORE INFO; SEND SASE # 10 TO MOONBEAM PRESS= PO BOX 149, DEPT BB BRIARCLIFF MANOR, NY 10510. TNX HAVANA MOON'S "LOS NUMEROS" ON-LINE BBS AND WA2VXT,BBS.

\* \* \* \* \* FCC FORMAT \* \* \* \* \*

IN PREPARATION OF A LETTER TO THE FEDERAL COMMUNICATIONS COMMISSION IN  
REFERENCE TO A REPLY TO PR DOCKET THE FORMAT TO USE IS AS FOLLOWS:

before the  
FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C. 20554

PR DOCKET NO. 90-55

IN THE MATTER OF

AMENDMENT OF PART 97 OF THE  
COMMISSION'S RULES CONCERNING  
THE ESTABLISHMENT OF CODELESS  
CLASS OF AMATEUR OPERATOR LICENSE.

REFERENCE PR DOCKET NO 90-95

IN REGARDS TO THE ABOVE REFERENCE I WISH TO RESPOND AS FOLLOWS:

(NOW GIVE INFORMATION ABOUT YOURSELF AS AN AMATEUR RADIO OPERATOR..SUCH  
INFORMATION AS HOW LONG YOU HAVE BEEN A LICENSED AMATEUR; YOUR CLASS OF  
LICENSE, AND ANY EXTRA INFORMATION OF A TECHNICAL NATURE. AFTER THAT PARAGRAPH;  
THE NEXT PARAGRAPH START YOUR REASONS WHY YOU ARE FOR OR AGAINST THE PR).  
END WITH

SINCERELY,

( NAME AND CALL)

TNX..JOHN,K2JF

\* \* \* \* \* PR 90-55 COMMUNICATOR CLASS \* \* \* \* \*

THIS IS A ROUGH OUTLINE OF THE NEW PROPOSED FCC PR DOCKET NO 90-95  
"ESTABLISHMENT OF A CODELESS CLASS OF AMATEUR OPERATOR LICENSE."

#### INTRODUCTION

IN THE NOTICE OF PROPOSAL RULE MAKING THE FCC PROPOSES TO ESTABLISH A NEW CLASS  
OF AMATEUR OPERATOR LICENSE THAT WOULD NOT REQUIRE THE APPLICANT TO PROVE THAT  
HE OR SHE CAN SEND AND RECEIVE MORSE CODE TELEGRAPHY MESSAGES.

#### PROPOSAL

THE FCC PROPOSES TO ESTABLISH A CODELESS CLASS OF AMATEUR OPERATOR LICENSE. THE  
COMMUNICATOR CLASS. WITH RESPECT TO THIS PROPOSAL OPERATOR CLASS, THE FCC HAS  
ESTABLISHED THREE OBJECTIVES. THEIR FIRST OBJECTIVE IS TO OFFER AN ENTRY LEVEL  
LICENSE OPPORTUNITY TO ALL PERSONS WHO FIND THE TELEGRAPHY REQUIREMENTS A  
BARRIER TO PURSUING THE PURPOSES OF THE AMATEUR SERVICE. THEIR SECOND OBJECTIVE  
IS TO PROPOSE A TYPE OF LICENSE THAT CAN BE IMPLEMENTED QUICKLY. THEIR THIRD  
OBJECTIVE IS TO AVOID ANY NEGATIVE EFFECT UPON CURRENT LICENSEES, UPON THE WORK  
OF VOLUNTEER EXAMINERS, OR UPON THE COMMISSION'S WORKLOAD OR RESOURCES.

IN PROPOSE SECTIONS 97-501 AND 97.503(B)(1) THE FCC WOULD REQUIRE THAT THE  
APPLICANT FOR COMMUNICATOR CLASS LICENSE PASS A 60 QUESTION WRITTEN  
EXAMINATION. THE NEW QUESTION POOL WOULD BE COMPRISED OF THE QUESTIONS FROM THE  
TWO POOLS CURRENTLY USED IN THE NOVICE AND TECHNICIAN LICENSE EXAMINATIONS, AND  
NEW QUESTIONS.

OPERATOR LICENSE STRUCTURE... IN PROPOSED SECTION 97.9 THE FCC WOULD INCORPORATE  
THE COMMUNICATOR CLASS IN A SIMPLIFIED LICENSE STRUCTURE CONTAINING FOUR  
ASCENDING STEPS: COMMUNICATOR, GENERAL, ADVANCED, AND AMATEUR EXTRA CLASSES.  
CURRENTLY TECHNICIAN AND NOVICE CLASS OPERATOR LICENSES WOULD BE GRANDFATHERED  
INDEFINITELY. THERE WOULD BE NO NEW LICENSE ISSUED FOR THOSE LICENSE CLASSES,  
BUT EXISTING LICENSES COULD BE MODIFIED OR RENEWED. (CONTINUED FCC)

FOR FUTURE LICENSES THE COMMUNICATOR CLASS LICENSE WOULD BE THE FIRST STEP IN THE LICENSE STRUCTURE INSTEAD OF THE NOVICE CLASS. THERE WOULD, THEREFORE, NO LONGER BE A NEED FOR THE NOVICE CLASS LICENSE. BECAUSE THE WRITTEN EXAMINATION FOR THE COMMUNICATOR CLASS LICENSE WOULD BE MORE COMPREHENSIVE THAN OF THE TECHNICIAN CLASS LICENSE, THE COMMUNICATOR CLASS WOULD ALSO SERVE IN STEAD OF THE TECHNICIAN CLASS FOR FUTURE LICENSEES.;

OPERATOR PRIVILEGES... THE PROPOSED CONTROL OPERATOR PRIVILEGES OF THE COMMUNICATOR CLASS WOULD INCLUDE ALL AUTHORIZED EMISSION TYPES. THE PROPOSED TRANSMITTER POWER STANDARD WOULD BE 200 WATTS PEAK ENVELOPE POWER. THE LICENSEE'S STATION WOULD BE ELIGIBLE FOR A GROUP D CALL SIGN ( A 2X3 CALL ). STATIONS WITH COMMUNICATOR CLASS CONTROL OPERATORS WOULD NOT BE PERMITTED TO TRANSMIT ON THE 2 M AND 6 M BANDS. THE FCC PARTICULARLY INVITE COMMENT ON THE EFFECT OF EXCLUDING COMMUNICATOR CLASS LICENSES FROM THESE TWO POPULAR BANDS. UNDER PROPOSED SECTION 97.301(9), A COMMUNICATOR CLASS LICENSEE WHO PASSES OR OTHERWISE RECEIVES CREDIT FOR A TELEGRAPHY EXAMINATION, WOULD BE AUTHORIZED THE ADDITIONAL PRIVILEGES OF THE TECHNICIAN CLASS. TO AVOID A LICENSE PROCESSING BURDEN, HOWEVER THE DOCUMENTATION OF THE PASSING OF, OR CREDIT FOR, A TELEGRAPHY EXAMINATION WOULD BE EVIDENCED BY THE CERTIFICATE OF SUCCESSFUL COMPLETION OF EXAMINATION (CSCE) ISSUED BY THE ADMINISTERING VES, RATHER THAN BY THE ISSUANCE OF A TECHNICIAN OPERATOR LICENSE. THE INDICATOR USED BY THE COMMUNICATOR CLASS FOR IDENTIFICATION PROPOSES WOULD BE AC. VES WOULD BE AUTHORIZED TO GRANT EXAMINATION CREDIT, EVIDENCED BY A CSCE TO A COMMUNICATOR CLASS EXAMINEE FOR THE SLOW SPEED TELEGRAPHY EXAMINATION WHEN THE EXAMINEE HOLDS A NOVICE OPERATOR LICENSE. THAT COMBINATION, COMMUNICATOR LICENSE AND CSCE, WOULD PERMIT THE COMMUNICATOR CLASS LICENSEE THE SAME RIGHTS AND PRIVILEGES OF THE TECHNICIAN CLASS OPERATOR.

VOLUNTEER EXAMINERS... ALL OPERATOR LICENSE EXAMINATIONS WOULD BE ADMINISTERED UNDER THE VEC SYSTEM. THE ADDITIONAL TASK OF ADMINISTERING THE COMMUNICATOR CLASS LICENSE WOULD BE OFFSET BY THE ELIMINATION OF OTHER TASKS, INCLUDING THE DISCONTINUANCE OF THE TWO EXAMINER SYSTEM FOR THE NOVICE CLASS LICENSE. THE NOVICE AND TECHNICIAN WRITTEN EXAMINATIONS WOULD NO LONGER BE PREPARED AND ADMINISTERED AS SEPARATE EXAMINATIONS.

### CONCLUSION

THE FCC BELIEVES THAT THIS PROPOSAL WOULD ACHIEVE OBJECTIVES AS SET FORTH IN THE SECTION CALLED PROPOSAL. THE FCC SEEKS COMMENTS, THEREFORE, ON THE PROPOSED REVISIONS TO PART 97 TO ESTABLISH A COMMUNICATOR CLASS OPERATOR LICENSE FOR THE AMATEUR SERVICE. INTERESTED PARTIES MAY FILE COMMENTS ON OR BEFORE AUGUST 6, 1990, AND REPLY COMMENTS ON OR BEFORE SEPTEMBER 7, 1990. TO FILE FORMALLY IN THIS PROCEEDING, PARTICIPANTS MUST FILE AN ORIGINAL AND FOUR (4) COPIES OF ALL COMMENTS. IF PARTICIPANTS WANT EACH COMMISSIONER TO RECEIVE A PERSONAL COPY OF THEIR COMMENTS, AN ORIGINAL AND NINE (9) COPIES MUST BE FILED. THEY SHOULD BE SENT TO THE:

SECRETARY,  
FEDERAL COMMUNICATION COMMISSION  
WASHINGTON, D.C. 20554

NOTE\* THANKS TO KR1M STEVE FOR OBTAINING A COPY OF PR DOCKET NO 90-95 FROM THE FCC FOR ME...IF THERE IS FURTHER INTEREST IN THE PR'S FULL WRITE UP I WILL HAVE ONE (1) COPY THAT MAY BE USED. TNX...JOHN,K2JF.& KB2COB BBS

\* \* \* \* \* FOR SALE \* \* \* \* \*

- 1- COMPUTER PRINTER=SILVER REED MODEL EXT-770 MAY NEED WORK, DAISEY WHEEL WIDE CARRIAGE. \$5.00 OR BEST OFFER.
- 2- ICOM IC-30A 440 FM MOBILE WITH 14 SETS OF CRYSTALS AND VARIABLE TONE BOARD INSIDE. \$100.00 OR BEST OFFER.
- 3- SEMCOR TRANSISTOR CHECKER=BEST OFFER
- 4- SONY CAM CORDER MODEL CCD-V8 AF, \$500.00  
IF INTERESTED CALL ED WA2PFC

# SIX METER DX BEACON LIST (CONTINUED)

52.440	VK4RIL	QH30	TOWNSVILLE		
52.450	VK5VF	PF94	MOUNT LOFTY	20	TURNSTILE
52.460	VK6RFH	OF78	PERTH		
52.465	VK6RTW	OF84	ALBANY		
52.470	VK7RNT	OE38	LAUNCESTON		
52.485	VK8RAS	PG66	ALICE SPRINGS		

## NOTES:::

- 0 - OPERATIONAL 24 HOURS/DAY      N - NOT CURRENTLY OPERATIONAL      P - PROPOSED
- 1 - CALLSIGN DUE TO CHANGE TO JA6YBR
- 3 - AWAITING OFFICIAL LICENSE, CALLSIGN WILL BE GB3IOJ
- 5 - COMPUTER CONTROLLED. QRV FROM 1800 TO 0300 UTC.
- 6 - BEAM HEADING CHOSEN ON A SEASONAL BASIS. (UK FROM MAY-AUGUST)
- 7 - OPERATES ON 50.100 WHEN NOT ATTENDED, 50.110 WHEN OPERATOR IN SHACK.

THIS DATA WAS COMPILED BY G4UPS AND G4DGM WITH MINOR CHANGES AND ADDITIONS BY G4IJE AND VE3IMT. FURTHER CORRECTIONS AND ADDITIONS WERE PROVIDED BY W2CAP/1. EDITORIAL CORRECTIONS WERE BY W1GXT. THIS LIST WAS LAST UPDATED ON MAY 20, 1989 AT THE 15TH EASTERN VHF/UHF CONFERENCE, NASHUA, NH. PLEASE SEND ANY CHANGES OR CORRECTIONS TO VE3IMT, W2CAP/1, AND W1GXT.

TNX THE HETERODYNE

## \*\*\*\*\* 10 METER BEACONS \*\*\*\*\*

THE FOLLOWING 10 METER BEACON LIST HAS BEEN COMPILED AND MAINTAINED BY JOE GUMINO K2OLG. IF YOU HAVE ANY CORRECTIONS, ADDITIONS OR DELETIONS PLEASE DIRECT THEM TO ME (WA2ZYU - KB1BD-4) AND I WILL FORWARD THEM TO JOE. THANK YOU FOR YOUR INTEREST AND RESPONSE TO THIS LIST IN THE PAST. JOE AND I SHALL WORK TO KEEP IT CURRENT.....AGN TNX & 73.

### 10 METER BEACON'S DE K2OLG

1/24/90

FREQ.	CALL	OPERATION	LOCATION	NOTES
28.175	VE3IEN	C	OTTAWA, CANADA	10W, GP
28.191	VE6YF		EDMONTON, ALBERTA	10W
28.195	IY4M	ROBOT	BOLOGNA, ITALY	20W, 5/8 GP
28.200	GB3SX	C	CROWBOROUGH, ENGLAND	8W, DIPOLE
28.201	LU8FD		ARGENTINA	5W
28.2025	ZS5VHF		NATAL, RSA	5W, GP
28.204	DL0IGI	C	W. GERMANY	100W, VERT. DIPOLE
28.205	KA3OEM		MEADVILLE, PA.	27W, YAGI/WEST
28.206	KJ4X		PICKENS, SC	2W, VERTICAL
28.2075	W8FKL	C	VENICE, FLA	10W, VERTICAL
28.208	WA1IOB	C	MARLBORO, MASS	75W, VERTICAL
28.209	NX20	C	STATEN ISLAND, NY	10W, GP
28.210	3R8MS	C	MAURITIUS	GP
28.210	K4KMZ	I	ELIZABETHTOWN, KY	20W, VERTICAL
28.210	KC4DPC	C	WILMINGTON, NC	4W, DIPOLE
28.212	EA6RCM		PALMA DE MAJORCA	4W, 5 FL NNE
28.2125	ZD9GI	C	GOUGH IS.	GP
28.215	GB3RAL	C	STOUGH, BERKSHIRE	20W, GP
28.2175	WBUR		MACKINAW ISLAND, MI	.5W, GP
28.2175	WB9VMY	C	CALUMET, OK	2W, DIPOLE
28.2195	LU4XS		CAPE HORN	
28.220	5B4CY	C	CYPRUS	26W, GP
28.221	PY2GOB		SAN PAULO, BRAZIL	15W, VERTICAL

\* \* \* \* \* SIX METER DX BEACON LIST \* \* \* \* \*

AS THE F2 6 METER DX SEASON WARMS UP, MOBILE 6ERS WILL FIND THE FOLLOWING BEACON LIST HANDY FOR OPERATING THE BAND:

<u>FREQ.</u>	<u>CALL</u>	<u>GRID</u>	<u>LOCATION</u>	<u>ERP(W)</u>	<u>ANTENNA</u>	<u>MODE</u>	<u>NOTES</u>
50.005	H44HIR	RI00	SOLOMON IS.	25			
50.005	ZS1SIX	KF25	S. AFRICA	25	DIPOLE		
50.009	ZS6PW	KG44	S. AFRICA	15			
50.011	JA2IGY	PM84	MIE, JAPAN	10	GND PLANE	A1A	0
50.013	P29BPL	QI30	PT. MORESBY	30	DIPOLE		0
50.015	SZ2DH	KM18	ATHENS, GRCE	10	YAGI	A1A	
50.020	GB3SIX	IO73	N. WALES	100	YAGI	F1A	0
50.020	JA6ZIH	PM51	KYUSHU	10	2 X SQUALO	A1A	0,1
50.023	ZS6LW	KG44	ROSSLYN	50	YAGI		
50.025	OH9...	KP..	FINLAND				
50.025	ZS6LN	KG46	PIETERSBURG	150	YAGI		
50.028	JA7JMA	QM07		10	YAGI		
50.029	CT0WW	IN61	JOAO PESDUEIRA	40	DIPOLE	F1A	0
50.033	ZD8VHF	IT22	ASCENSTON IS.	50	VERTICAL	F1A	0
50.035	ZB2VHF	IM76	GIBRALTAR	200	YAGI	F1A	N
50.038	FY7THF	GJ34	KOUROU	100	GND PLANE	F1A	0
50.040	CX8BE	GF15	MONTEVIDEO	10	YAGI		
50.045	OX3VHF	GP60	SIMIUTAQ	20	GND PLANE	F1A	0
50.055	ZS6DN	KG44	IRENE				
50.057	KH6HI	BL01	OAHU, HI				
50.060	GB3RMK	IO77	ROSEMEKIE	40	DIPOLE	F1A	0
50.062	PY2AA	GG66	SAO PAULO	25	GND PLANE		0
50.063	GB3NGI	IO65	N. IRELAND	18	DIPOLE	F1A	0
50.066	GJ4HXJ	IN89	JERSEY, C.I.	10	HALO	F1A	0,3
50.075	PY2AMI	GG66	SAO PAULO	5	GND PLANE		0
50.075	VS6SIX	OOL72	HONG KONG	30	GND PLANE		0
50.075	VS5SIX	KG50	S. AFRICA	10	HALO		
50.078	TI2NA	EJ79	SAN JOSE	20	DIPOLE		0
50.080	HC8SIX	EI59	GALAPAQOS	4	VERTICAL		0
50.083	LU1DMA	GF06	BUENOS AIRES	20	YAGI		5
50.085	9H1SIX	JM75	MALTA	50	YAGI	F1A	0,6
50.086	VP9MO	FK86	PLYMOUTH	10	YAGI		0
50.091	ZF2KZ	EK99	GRAND CAYMAN	100			
50.099	TI2CF	EJ79	SAN JOSE				
50.100	LU2FMO	FF96		4	YAGI		
50.100	HC2FG	FI07	GUAYAQUIL	8	J-POLE		0
50.100	KG6DX	QK23	GUAM	40	YAGI	A1A	7
50.105	ZS3E	JG89	NAMIBIA				
50.110	A61XL	LL74	UNITED ARAB EM.	50	YAGI		
50.120	4S7EA	MJ97	SRI LANKA	50	YAGI		
50.321	ZS5SIX	KG50	S. AFRICA	6	HALO		0
50.490	JG1ZGW	PM95	TOKYO	10	DIPOLE	A1A	0
50.499	5B4CY	KM54	CYPRUS	15	GND PLANE	F1A	0
50.904	ZS1SIB	KF05	STILBAAI	25	DIPOLE		
51.020	ZL1VHF	RF73	W. AUCKLAND	25	VERT.DIPOLE		0
52.100	ZK2SIX	AH50	NIUE				
52.200	VK8VF	PH57	DARWIN				
52.320	VK6RTT	OG89	WICKHAM	25	J-POLE		0
52.325	VK2RHV	QF57	NEWCASTLE				0
52.345	VK4ABP	QG26	LONGREACH	10	VERTICAL		0
52.350	VK6RTU	PF09	KALGOORIE				
52.370	VK7RST	QE37	HOBART				
52.410	VK0MA	MC12	MAWSON				
52.420	VK2RSY	QF56	DURAL	25	TURNSTILE		0
52.425	VK3RGB		GUNNEDAH				
52.435	VK3RMV	QF12	HAMILTON				

## ( 10 METER BEACON LIST CONTINUED )

28.222	W9UXO	C	NR CHICAGO, ILL	10W, GP
28.2225	HG2BHA	C	TAPOLCA, HUNGARY	10W, GP
218.2275	EA6AU	C	MALLORCA, BALEARIC IS	10W, 5/8 GP
28.230	ZL2MHF	C	MT. CLIMIE, NZ	50W, VERT. DIPOLE
28.232	W7JPI/AZ	C	SONOITA, ARIZ	5W, 3EL YAGI NE
28.233	KD4EC	C	JUPITER, FLA	7W, GP
28.235	VP9BA	C	HAMILTON, BERMUDA	10W, GP
28.2375	LA5TEN	C	OSLO, NORWAY	10W, 5/8 GP
28.2405	5Z4ERR	C	KIAMBU, KENYA	
28.245	A92C		BAHRAIN	NW/SE DIPOLE
28.2455	ZS1CTB	C	CAPETOWN, RSA	20W, 1/4 VERT.
28.247	EA3JA		BARCELONA, SPAIN	20W, 1/4 VERT.
28.2475	EA2HB	I	SPAIN	6W, GP
28.248	K1BZ	C	BELFAST, MAINE	5W, VERT. DIPOLE
28.250	W3SV	C	ELVERSON, PA	10W, VERT.
28.250	KOHTF	C	DES MOINES, IA	2W, GP
28.250	Z21ANB	C	BULAWAYO, ZIMBABWE	15W, GP
28.2505	4N3ZHK	C	MT. KUM YUGOSLAVIA	1W, VERTICAL
28.252	WJ7X	C	SEATTLE, WA	5W, RINGO
28.252	WB4JHS	I	FLORISSANT, MO	7W, VERTICAL
28.2525	OH2TEN		FINLAND	
28.255	LU1UG		GRAL PICO, ARGENTINA	5W, GP
28.2575	DK0TEN	C	ARBEITSGEN, W.GERMANY	40W, GP
28.259	WB9FVR	C	PEMBROKE PINES, FLA	1W, DIPOLE
28.26550	VK5WI	C	ADELAIDE, SA, AUSTRALIA	10W, GP
28.262	VK2RSY	C	SYDNEY, NSW, AUSTRALIA	25W, GP
28.264	VK6RWA	C	PERTH, WA, AUSTRALIA	
28.266	VK6RTV	C	ALBANY, WA, AUSTRALIA	
28.266	KB4UPI	C	BIRMINGTON, ALA	20W, 1/4 VERT
28.2685	W9KFO	I	EATON, ILL	750MW, VERTICAL
28.270	ZS6PW	C	PRETORIA, RSA	10W, 3EL YAGI
28.270	VK4RTL	C	TOWNSVILLE, OLD, AUSTRALIA	
28.2725	9L1FTN	I	FREETOWN, SIERRA LEONE	10W, VERT. DIPOLE
28.275	AL7GQ	C	DENVER, CO	1W, LOOP
28.2755	N6RDX	I	STOCKTON, CA	20W, 3EL YAGI
28.2755	DF0AAB	C	KIEL, W. GERMANY	10W, GP
28.280	LU8EB		ARGENTINA	5W
28.282	VE1MUF	C	FREDRICKTON, NB, CAN.	500MW, DIPOLE
28.282	VE2HOT	C	BEACONSFIELD, QUE	5W, VERT DIPOLE
28.2825	OK0EG	C	HRADEC KRALOVE	10W, DIPOLE
28.284	VP8ADE	C	ADELAIDE IS, NR ANTARCTICA	8W, V BEAM TO G LAND
28.286	KA1YE		NR ROCHESTER, NY	2W, VERT. DIPOLE
28.286	KK4M	C	LAS VEGAS, NEV	5W, VERTICAL
28.287	W8OMV		NR ASHVILLE, NC	5W, GP
28.287	H44SI	C	SOLOMON IS.	15W
28.288	W2NZH	I	MORRESTOWN, NJ	3W, GP
28.290	SK5TEN		SWEDEN	
28.290	VS6TEN	C	HONG KONG	10W, VERTICAL
28.292	ZD8HF		ASCENSION IS.	
28.2925	IJ2FFV		SAN JORGE, ARGENTINA	5W, GP
28.295	WC8E	I	CINCINNATI, OHIO	10W, RINGO
28.2965	W3VD	C	LAUREL, MD	1.5W, VERT. DIPOLE
28.297	WA4JJS	I	FT. LAUDERDALE, FLA	30W, GP
28.300	PY2AMI	C	SAN PAULO, BRAZIL	10W, VERT. DIPOLE
28.301	KF4MS	C	ST. PETERSBURG, FLA	5W
28.301	ZS1LA	C	STILLBAY, RSA	20W, 3EL YAGI NW
28.3025	PT7AAC		FORTALEZA, BRAZIL	5W, GP
28.306	PT8AA		RIO BRANCO, BRAZIL	5W, GP
28.315	ZS6DN	C	IRENE, RSA	100W, VERTICAL

( 10 METER BEACON'S CONTINUED )



( 10 METER BEACON'S CONTINUED )

28.888 W6IRT

HOLLYWOOD, CA

5W, GP CODE PRACTICE

28.992 DFOANN

MOTITZBERG, W. GERMANY 20MW, 1EL DELTA LOG

TNX / K2OLG, DE - WA2VXT BBS

\*\*\*\*\* G C A R C HAMFEST 1990 \*\*\*\*\*

THIS YEAR WE LOOK FORWARD TO SEVERAL ADDITIONS TO THE HAMFEST. THESE ADDITIONS SHOULD PROVE TO ENHANCE EVERYONE'S ENJOYMENT. WE ARE STILL IN THE DEVELOPMENTAL STAGES. IF ANYONE HAS ANY SUGGESTIONS PLEASE CONTACT MYSELF OR THE ASSISTANT CHAIRMAN. INCLUDE ANY ITEM OR ACTIVITY THAT YOU WOULD LIKE TO BE INCLUDED FOR FUTURE, OR IF YOU CAN CONTRIBUTE REAL TIME TO THE HAMFEST. THERE ARE A COUPLE OF CHAIRS TO FILL. IF YOU FEEL YOU CAN TAKE THIS RESPONSIBILITY, CALL ME, SEE ME AT THE MARCH MEETING OR LEAVE A MESSAGE ON KB2COB-10 PACKET. FOR THOSE OF YOU THAT DID NOT ATTEND THE FEBRUARY MEETING, I INTRODUCED THE STAFF OF THE HAMFEST. I WILL PUBLISH THE MEMBERS NAMES. BETH KB2EAL-PRESIDENT G.C.A.R.C. JOE KB2ETQ-ASST. HAMFEST CHAIRMAN BOB KB2COB-CLUB TREASURER AND FRANK KE2NY-ARRL LIAISON AND GENERAL INFORMATION. THE FOLLOWING ARE THE CHAIRPERSON: BILL WA2VQG-VEC CHAIRMAN, JIM N2AIV-CLUB TABLE, MARLA N2DWR-FLYERS AND MAILING, WALT WB2OYQ-TALK IN, HERB K2HPV-TICKETS, CHUCK WA2TML-PARKING, BETH KB2EAL-BREAKFAST, SONNY WB2DXB-PUBLIC ADDRESS, KEN KN2U-GROUNDS SECURITY, JOHN KB2IQP-FLEA MARKET. REMEMBER: THERE ARE STILL OPENINGS. IF YOU WISH TO SIGN ON CALL! I WANT TO IMPRESS ON ALL MEMBERS THAT CONTRIBUTING AN HOUR OR TWO TO THE HAMFEST WILL ALLOW THOSE INDIVIDUALS TO ENJOY THE HAMFEST. THE ADAGE " MANY HANDS MAKE LIGHT WORK" HAS MUCH VALIDITY HERE. WITH ENOUGH SIGNED ON EACH TEAM THE CHAIR PERSON CAN SCHEDULE MEMBERS THROUGH THE ENTIRE DAY. WHEN YOUR TOUR IS COMPLETE, HAVE FUN AT THE HAMFEST! I HEARD SEVERAL OUT OF STATE TAILGATERS LAST YEAR SAY THAT OUR HAMFEST IS STILL FUN AND ENJOYABLE. HELP US TO KEEP IT THAT WAY. 73 AND GOOD HEALTH-JERRY, WB2CAK. TNX/KB2COB MAIL DROP

HELP HELP HELP HELP HELP HELP HELP  
HELP

SOMETIME AGO I LOANED MY BOOK == AIR DISK == TO SOMEONE AND I CAN'T REMEMBER WHO HAS IT==WOULD YOU PLEASE LOOK THROUGH YOUR BOOKS OR IF YOU ARE THE ONE WHO BORROWED IT "I WOULD LIKE TO HAVE THE BOOK RETURNED" TNX - AI2B -



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CALL BOOK INFORMATION de N2FJQ

IF YOU NEED QSL ADDRESSES, I CAN HELP YOU IF YOU WILL CALL AFTER 6PM OR CONTACT ME ON 144.290 SIMPLEX. IF YOU HAVE SEVERAL CALL TO BE LOOKED UP, IT WOULD BE EASIER IF YOU WOULD USE LINED PAPER, PUTTING THE CALL YOU WANT LOOKED UP ON EVERY OTHER LINE, FAR LEFT, SEND TO ME WITH A SASE, I WILL LOOK UP YOUR ADDRESSES AND RETURN TO YOU. I ALSO HAVE THE CALL BOOKS AVAILABLE AT CLUB MEETINGS. MY ADDRESS AND PHONE # IS LISTED IN CLUB ROSTER.

WORKED ALL STATES AWARD de N2FJQ

I AM WAS AWARD MANAGER UNDER THE SPECIAL SERVICE OF OUR CLUB, IF YOU WANT TO GET WAS WITHOUT HAVING TO MAIL YOUR QSL CARDS TO ARRL, YOU CAN PICK UP THE NECESSARY FORMS AT THE CLUB MEETING ON SEND #10 SASE AND ILL SEND THEM TO YOU, YOU FILL OUT THE FORM AND BRING TO MEETING ALONG WITH THE CARDS, ILL CHECK THEM FOR YOU AND MOST TIMES YOU CAN TAKE YOUR CARDS BACK HOME WITH YOU ILL TAKE CARE OF SENDING THE FORM TO ARRL, AND YOU WILL RECIEVE YOUR WAS CERTIFICATE OR ENDORSEMENT IN ABOUT 2 WEEKS, BE SURE THAT CARDS ARE IN ORDER AS PER THE FORM AND CHECK CAREFULLY NOT TO MAKE ANY MISTAKES.

DX QSL ROUTING de N2FJQ

WHEN WORKING DX STATIONS, ITS IMPORTANT TO GET THE QSL ROUTING, EITHER VIA A MANAGER OR BURO OR CALL BOOK ADDRESS. THE ARRL HAS A OUTGOING QSL BURO, SEE ARTICLES IN QST. IF YOU ARE LOOKING FOR A FASTER ROUTING, YOU CAN USE THE N7RO OUTGOING SERVICE, HE CHARGES \$1.00 FOR 8 CARDS, THE CARDS MUST BE NO OLDER THAN 1 YEAR AND IN ALPHABETICAL ORDER. IF YOU ARE IN SUPER HURRY YOU CAN QSL DIRECT WITH A SAE ALONG WITH!! \$1.00 OR SUFFICIENT IRC'S, NOTE THAT ALL COUNTRIES WONT ACCEPT \$1.00.

IF YOU EXPECT TO RECIEVE INCOMING QSL'S, YOU MUST SEND YOUR NAME AND ADDRESS AND \$5.00 TO YOUR LOCAL INCOMING BURO, THEY WILL KEEP TRACK OF YOUR POSTAGE CREDITS, IT WILL BE WROTE IN TOP LEFT CORNER OF ENVELOPE. ALSO IF YOU CHANGE YOUR CALL YOU SHOULD SEND THE NEW INFO. + \$ TO BURO, NEVER REMOVE YOUR OLD CALL OR CREDITS, SOMETIMES IT TAKES YEARS TO GET CARDS VIA BURO.

CLUB QSL CARDS de N2FJQ

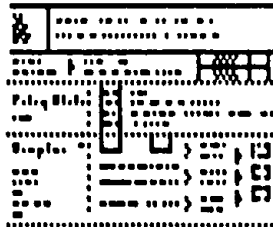
CLUB CARDS ARE AVAILABLE AT ALL MEETINGS, 100 CARDS FOR \$3.00

MEMBERSHIP BOOKS de N2FJQ

IF YOU WANT A EXTRA MEMBERSHIP BOOK FOR CAR OR HOME THEY ARE \$1.00 EACH AND I HAVE THEM AVAILABLE AT CLUB MEETINGS.

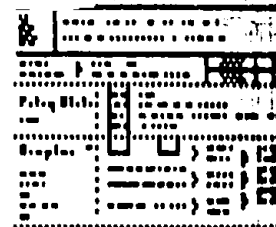
MEMBERSHIP de KB2COB

PLEASE INFORM ME BY MAIL ON ANY CHANGE OF CALL OR ADDRESS 73.



# March, 1990

## G.C.A.R.C.



Sunday      Monday      Tuesday      Wednesday      Thursday      Friday      Saturday

				1	2 LUNCH 5 POINTS DINER	3
4 GCARC ARES/RACES NET 147.78/18 RPT 224.66 RPT 20:00 HRS	5	6 GCARC 10 METER NET 21:00 HRS 28.350 MHZ USB  PSE CHECK IN	7 GCARC GENERAL MEMBERSHIP MEETING 20:00 HRS WOODBURY VFW HALL PSE ATTEND	8	9 LUNCH 5 POINTS DINER JAPAN INT. DX	10 COUNTY HUNTERS 10 METER QSO PARTY CW
11 GCARC ARES/RACES NET 147.78/18 RPY 224.66 RPT 20:00 HRS	12	13 GCARC 10 METER NET 21:00 HRS 28.350 MHZ USB	14	15 FCC EXAMS BELLMAUR COMMUNITY CENTER BELLMAUR, NJ. 19:00 HRS SHARP	16 LUNCH 5 POINTS DINER	17 COUNTY HUNTERS 10 METER QSO PARTY PHONE
18 GCARC ARES/RACES NET 147.78/18 RPT 224.66 RPT 20:00 HRS BERMUDA CONTEST	19	20 GCARC 10 METER NET 21:00 HRS 28.350 MHZ USB	21 GCARC BOARD OF DIRECTORS MEETING 20:00 HRS CLUB SITE ALL ARE WELCOME	22	23 LUNCH 5 POINTS DINER	24 CO WORLD WIDE WPX CONTEST
25 GCARC ARES/RACES NET 147.78/18 RPT 224.66 RPT 20:00 HRS CO WORLD WIDE WPX	26	27 GCARC 10 METER NET 21:00 HRS 28.350 MHZ USB	28 DEADLINE FOR CROSSTALK	29	30 LUNCH 5 POINTS DINER	31

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