

CROSSTALK

Published By And For The

GLOUCESTER COUNTY AMATEUR RADIO CLUB, W2MMD*

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License: Rose Ellen Bills, N2RE
VHF: Ray Martin, WB2LNR

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Crosstalk Staff

Doug Gehring, WA2NPD, Editor
Doris Bachman, Typist

Bill Bachman, WA2VEE, Printer
Roslyn Marder, N2AKL, Circulation

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Club Nets

2 Meter RTTY Net: Monday, 8:00 P.M. 147.54
ARES Net: Sunday, 8:00 P.M. 147.78/18

The Gloucester County Amateur Radio Club meets the first Wednesday of each month at the VFW Hall in Woodbury Heights. Meetings begin promptly at 8:00 P.M.

Please send any contributions for CROSSTALK to Doug Gehring, WA2NPD,

PRESIDENT'S MESSAGE

Since the president is under the weather and asked me to write this for him, this probably should be called the vice-president's message. I'm actually delighted to do it because it gives me a chance to thank Harry for his work and efforts on behalf of GCARC this year. We have reached new levels of success on the Hamfest and have come to grips with several other thorny problems as well. The new president will have a hard act to follow.

This month's meeting is our annual "White Elephant Sale". Please bring your boat anchors - and anything else you wish to donate to the club. This is a good chance to clean out your shack. Ray, WB2LNR will be our auctioneer - so things will be lively and entertaining.

There are a couple of things on the horizon. We have an election coming up in December. Please give some thoughts to your new slate of officers. Now is the time to consider your nominees. Let's have a real contest this year. In November we must make a decision whether to continue to hold our monthly meetings in Woodbury. Please consider this as well - and be prepared to speak up in November!

Finally, a personal observation: There are a number of informal GCARC meetings which go on in between official meetings. At those meetings a number of healthy discussions and even some complaints have been raised. I've noted, however, many of these concerns and ideas are not raised at the official monthly meetings. Why? Frequently, indeed, all too frequently, the originators are not at the monthly meetings or at the Board of Directors meeting. Come on out - make your views known when and where it counts. We need those ideas - but in a timely and constructive way!

See you in October!

73's de Peter, N2CME

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DON'T FORGET!!!

Bring your "White Elephant" to the meeting this month! Here is a good chance to unload that gathering-dust item and make a buck for the Club as well. C'mon and join the fun!

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Hamfest, 1982

Now that the smoke-has-cleared and all has been put-to-bed for another year, we can sit back and survey what has transpired this time. By any stretch of the imagination this year's Hamfest was a tremendous success! The WX was simply perfect, there were no reported calamities, many vendors reported how well we were organized, the coffee was hot early-on, the FCC Examiner and ARRL speakers were punctual and professional, and some GCARC members actually won some prizes! AND we made \$ -- about 4K!

Plaudits and kudos must be tossed out to very many members for a great job! Specifically, some must be singled out for exceptional duty. First of all the overall chairman Harry, WB2GSF, must receive the lions share of the credit. Harry was totally on-top of the entire Hamfest seeing that all jobs were carried through. He did a splendid job. Then, of course, perennial worker Milt, K3WIL, was everywhere at once - tickets, vendors, prizes, etc. Where would we be without Milt? John, K2JF, was

close behind Milt handling the FCC exams, speakers, etc. Rose Ellen, N2RE, did another super job handling the hospitality table and YL contests -- in addition to the special X-TALK Edition. Chick, WA2USI, handled the food concession and, with the help of many hams and YL's, the food was just about the best ever. Chuck, WA2TML, did another masterful job with ticket collecting and vendor parking. Bill, WA2VEE, tall-hat and all, ran the best 50:50 we have ever had. Norm, K2NH, handled the PA and did a masterful job with the code and other Ham contests, Bill, WA2VQG, made much \$ running the Club Table and Ed, WA2PFC, handled the clean-up and grounds committee. Doug, WA2NPD, ably assisted by Mary Jo and John -- together with Atlantic Division Director Hugh, W3ABC, ran the ARRL booth.

Many thanks to Mark, AA2Z, who conducted the contest forum and to Hugh, W3ABC, for answering many questions concerning the League. Tom, KE2M, handled the finances and VP Peter, N2CME, and Herb, K2HPV, a myriad of details. Finally, Shorty, W2SUA, Steve, WB1AOF, Fred, KB2BF, Walt, WB2OYQ, and Tom, WA2OOS, were talk-in stalwarts and did a magnificent job.

One of the problems with this sort of recognition trumpet is that invariably some deserving soul is inadvertently overlooked. I'm sure, as was done last time, your unworthy scribe has again missed someone who worked his tail off. For this oversight, we can only apologize and say again thank you. Nevertheless, all appeared to enjoy themselves and all are looking forward to next year's even bigger blast! Incidentally, about 1400 was the estimated total attendance.

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Congratulations to-

All of the following upgrades at the GCARC Annual Hamfest:

Russ, N2ASV, (our own Director Russ) to Advanced!
Walter, WB2OYQ (after much perseverance) to General!
and Chris, K2ZA's daughter (?) - her Tech!

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Hear Ye-Hear Ye!!

By now its probably not news! Nevertheless, President Reagan, on Sept. 12, signed into law HR-3237, the so-called Goldwater RFI Bill!! This has to be a great victory for the amateur fraternity across the country! More information on the contents of this bill appears further inside this issue.

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ARRL Foundation Announces
Scholarships for 1982

Foundation Chairman Hugh, W3ABC, sent us a list of those younger hams who were recently awarded Foundation scholarships. Inadvertently, your humble editor has misplaced the list and therefore cannot recognize the awardees individually. Oh well, no one's perfect! (pse forgive us Hugh!).

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4-SALE

Complete Heath Station: SB-303, SB-401, SB-650 Freq. Display, Mike, manuals, cables, all mint condition: Orig. cost: \$931.46 but will sell complete for \$375.00. Contact W3GVR,

Wanted: Pwr supply, 35 amp, 12V. Contact Milt, K3WIL (days)

NC300 National Rcvr, Hambands only. Gud cond with I.B.

Swan TV-2, 2M RX/TX Transverter. Allows 144.0-148.0 CW & SSB (20W output) via your 28.0-29.0 Xcvr. With I.B. + homebrew pwr supply. For above 2 items contact Mort, K3DG after 6 P.M.

AD3V - Tom Del Pesco -

will demonstrate all of

below on air.

SANTEC HT 1200 with leather case, external battery charger, extra battery, 5/8 Ant, speaker mic, adapter for direct 12 volt operation without battery \$250.00.

KLM, 11 element - 6 meter beam \$100.00 - used 3 months.

KLM - 6 meter amp 4-10 in 80-100 out, 12 volt, \$110.

YAESU FTR-901 - 6 meter, 2 meter transverter for 901 or 101. Will work with most rigs with modification. 10 watts output \$325.00

YAESU - YO 901 DM moniter scope with band scanning - see 200 KHz at one time \$350.00

YAESU FT 901 DM with FV 901 DM scanning VFO. FT901DM has 250 Hz CW filter, cascading Mod and all Fox Tango Mods. Ask W2SUA, WA2NPD, WA2VEE how it works. \$1100.00.

ICOM 22S with new extra diode programming board. 12-15 Watts output. Modified to work 144-148 MHz. Will demonstrate. \$150.00

YAESU SP 901P speaker with phone patch \$60.00.

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X-TALK DEADLINE CHANGE

The editor wishes to apologize to some and to inform others that the monthly deadline for materials submission has been moved up to the Thursday before the Thursday before the Club meeting (got it?). This was necessary because of the new printing (temporary, we trust) situation. We will keep you posted on any future changes.

Tnx, de WA2NPD

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Board Meeting, Condensed Minutes

Board met Sept. 15, 1982. Eleven in attendance.

President Jackson presided.

Rose Ellen read minutes of previous meeting.

Jose gave Treasurer's report reminding us about CD's maturing in Oct.

Three new members approved making total membership 157.

Correspondence received to be read at general meeting by K2JF.

Discussion of new meeting place revealed parking and room very small and carpooling to be suggested by Harry at general meeting.

Crosstalk typing, printing and mailing costs discussed at length and a break down of money spent to be given at next general meeting.

QSL cards for club still pending.

Doug and Dave deliberating on financial report to be submitted to IBM for a copy machine.

Replica will be used for Crosstalk printing next month.

Jose wants all requests for checks prior to start of meeting.

Extras in Club are now committed for FCC use.

K1LDF is being defended by K2RCH in the K-55 Radar case.
Letters from Ennis Coleman to be read at general meeting.
By motion of Sonny the meeting adjourned at 10:05 p.m.

Respectfully submitted,
Rose Ellen Bills - N2RE
Recording Secretary - 1982

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LES BELLES

YL ANNIVERSARY PARTY

CW: Starts: Wednesday, October 20, 1982, at 1800 UTC
Ends: Thursday, October 21, 1982, at 1800 UTC

PHONE: Starts: Wednesday, November 3, 1982, at 1800 UTC
Ends: Thursday, November 4, 1982, at 1800 UTC

ELIGIBILITY: All licensed women operators throughout the world are invited to participate. YLRL members only are eligible for the cup awards. Only YLRL members are eligible for the Corcoran and Hager awards.

PROCEDURE: Call "CQ YL".

OPERATION: All bands may be used. No cross band operation. Net contacts, repeater contacts, and contacts with OM's do not count. A station may be counted only once in each contest for credit.

EXCHANGE: Station worked, QSO number, RS or RST, ARRL section or country. Entries in log must also show time, band, date, and transmitter power. (Please know your ARRL Section. A section list is available with a SASE to Sandi Heyn-WA6WZN)

SCORING:

- A. CW and Phone will be scored as separate contests. Submit separate logs for each contest.
- B. All YL's within an ARRL Section score one (1) point for each QSO with another station located within an ARRL Section. Score two (2) points for each contact with a station not located within an ARRL Section (i.e., DX). Definition of DX: All stations not located within an ARRL Section. DX YL's shall score two (2) points for each contact with a station located in an ARRL Section and score one (1) point for each contact with another DX station. Multiply the number of contact points by the total number of different ARRL Sections and vounytird eotkrf.
- C. Contestants running 150 watts or less on CW and 300 watts PEP or less on SSB, at all times, may multiply the results of (B) by 1.25 (low power multiplier).

LOGS: All logs must show ARRL Section or country to qualify for awards. Do not send carbon copies of logs. Please print or type. Logs must be signed by the operator, and no logs will be returned. Remember to file separate logs for each contest. Logs must show claimed score, be

postmarked by November 14, 1982, and received no later than December 15, 1982. or they will be disqualified. Send logs to: Sandi Heyn, WayWZN,

DUPLICATES: For each duplicate contact that is removed from the log by the Vice President, a penalty of three (3) additional and equal contacts will be exacted.

AWARDS: A. Highest CW score--Gold Cup YLRL member. Highest Phone score--Gold Cup YLRL member. First, second, and third place CW and Phone score (not combined) will receive a certificate. Highest CW log and highest Phone log in each U.S. and VE call districts and country will receive a certificate.

73 de Rose Ellen-N2RE

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DX DOPE - Tnx to QRZ DX and KE2M

China: Tom, VE7BC, says he will be in BY land during the 1st week in Oct. for a 5 week stay. Tom will wrk SSB on 15 and 20 M using 14.195 and 21.295. During this time he will set up BY7 and may be there by CQ WW time. QSL to VE7BC.

Suitland Is: 1000 mi. N. of Johnston Is. will be reactivated agn in Oct. Opr. will be on 15 and 20 abt 50:50 SSB/CW. Call is KJ6DO/KH7S. New country status has been applied for and looks promising. QSL to KJ6DO.

Belize: Tom, V3TV is there until Nov. of 1983. Look on 21.310 at 1800Z, 7.085 at 2400Z and 3.795 at 0100Z. Also the 21.345 Family Hour and CHC net on 21.370. QSL to G3ATK.

Central Kiribati: Erik, SMØAGD has the call T31AE for use on Canton Is. Exact date of arrival is unknown.

Nepal: JA8BMK plans operation from the middle of October as 9N1WW. Also WB4NFO, VU2YOU, and KP2A will be going to 9N1 for operations from Dec. 15 to Jan. 2. A special call, 9N3B, will be issued for 3 of the days to commemorate the King's birthday.

Chad: Michael, TL8GE, will operate from TT8LM starting during the 1st week of October. He will operate only 1 hour each day and requests that all operations be done from a list.

San Marino: M1J has been on the past several Saturdays (evenings) on 14.285 and 14.315.

Alond Is.: A massive multi-multi operation is planned by 30 OH ops during the CQ WW upcoming contest. The call will be OHØW. They will operate all bands and are presently busy installing 1000 Kg. of KLM antennas on 7-100 ft. towers!

Campbell Is.: ZL4OY/A has been operating on 80 and 160 lately. Also check Saturdays on 7.080 at 0830Z.

Turks and Caicos: The North Fla DX Ass'n. will operate from Providenciales soon. The most likely call will be VP5WW.

Guinea: Jacques, W4LZZ, plans operation as 2X1Z starting in mid Sept. He will follow up with trips to TU, TZ, and possibly J28.

St. Helena: ZD7BW has moved to a new QTH on the island. A new 40 M 2 element Quad. has been installed. Look for split operation on 7071 Kc at 2300Z.

Tristan de Cunha: ZD9BV and ZD9YL are now vry active on 21.335, 1800Z.

Provisions of HR-3239 (Tnx to K2JF)

Here, in abbreviation form, are the provisions of the subject bill recently signed into law which affect or apply to amateurs the most. It should be noted the Bill is quite extensive-containing many other related provisions..

1. Minimum performance standards are established for home electronic gear and systems to reduce their susceptibility to interference from ham transmitters, etc. (the bill is not retroactive). Hence, TVI problems, for example, will gradually diminish with time.
2. The FCC will be allowed to approve 10 yr (rather than 5 yr) license terms.
3. The FCC will be permitted to retract the licenses of accomplices in wrong doing activities.
4. The FCC may utilize (uncompensated) amateurs for preparing and administering license exams - both written and code. A license holder may prepare and administer the exam for a license class below the class for which he holds. Extras can handle any class.
5. Citizens band and Radio Control Service licenses are no longer mandatory.
6. The terms "willful" or "repeated" with respect to violations have been liberalized. You no longer have to be aware of an FCC violation for it to be "willful". "Repeated" now means simply more than once.
7. Electronic gear that is to be obviously used in violation of FCC rules may be seized and forfeited to the Government of the USA.
8. The FCC, for purposes of monitoring violations, may recruit and train (no compensation) any licensed ham or amateur organization. The duties will be limited to detection, reporting, and issuing violation notices.
9. The so-called secrecy of communications measure has been reworded to exempt CB transmissions (hams already covered). This simply means that all transmissions are not considered in any way secret from public disclosure.

In conclusion, it must be obvious that these provisions overall are a real boom to the amateur. Mny tr" obviously must be extended to Barry, K7UGA. Onward and upward!

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Visual Display Units (VDUs) - Are They Hazardous?

(FM Dragnet) (and tnx to Hyman, KB2GH)

From time to time operators of VDUs are concerned to know if these units pose any hazards to them. Some operators have been known to wonder whether they are at risk from X-radiation (or even microwaves!) emanating from the VDU screen.

Since a VDU is basically a cathode ray tube (similar in principle to the CRT in a television set or a cathode ray oscilloscope) there is of course no way by which it can generate microwaves. Any X-rays which may be generated when the electron beam in a VDU impinges on its screen will necessarily be of low energy because the EHT on a VDU is typically between 7 and 16 kilovolts. The X-radiation emitted by electrons in this energy range is not very penetrating and is easily shielded. The thick glass face plate of the screen does this effectively so the operator is not at risk from any X-radiation emitted by the VDU.

The Australian National Health and Medical Research Council (1) and the Standards Association of Australia (2) recommend that exposure rates to ionising radiation (e.g. X-rays) produced by television type equipment shall not exceed 0.5 milliroentgen per hour averaged over an area of 20 cm² at a distance of 5 cm from any point on the external surface under all operating conditions.

The Australian Radiation Laboratory, of the Commonwealth Department of Health, together with some State Departments of Health, have surveyed (3) over fifty different types of VDU on the Australian market and evaluated them against the above standard. No VDU was found which produces a detectable amount of X-radiation (even though the lower limit of detection was as low as 0.01 to 0.05 milliroentgen per hour). The Australian Radiation Laboratory concludes that in the light of these results VDUs do not produce a public radiation hazard.

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FCC Cracks Down On California Jammers
(Tnx to W5YI Report)

In a continuing campaign to rid the west coast of intentional and malicious interference to other amateur operations, the FCC has...
o(1.) Revoked the Advanced Class amateur license of Henry C. Armstrong, III, WA6CGI, Sylmar, California, for deliberately causing interference, conducting one way transmissions and broadcasting...
o(2.) Affirmed the decision to deny the license renewal of Gary Kerr, WA6JIY; Stockton, California, for 'intentionally and repeatedly interfering with a repeater station's operation'...and
o(3.) Affirmed the decision to revoke the station license and suspend the Extra Class operator's license of Donald E. Gilbeau, N6OZ, also of Stockton, California, for jamming signals on the 146.22/.82 "Grizzly Peak" 2-meter repeater.

Armstrong, WA6CGI, (who has a degree in electrical engineering) said that he was participating in a number of computer experiments in conjunction with amateur radio on a frequency close to the output of the Southern California DX Club 145,48 repeater. He admitted transmitting for 7 or 8 hours at a time. The FCC engineers who inspected his station, however, did not believe that he had been conducting tests. He was cited for a number of violations including one-way transmissions, failure to keep a log, broadcasting and intentional interference.

A member of the California DX Club offered to buy new transmitting crystals for Armstrong's radio when he said he couldn't afford the \$160. Armstrong rejected that stating (according to the testimony of Richard Reimer, W6ET) that "he was going to drive the repeater off-make it useless." Don Jones, N6ZV, also testified that he believed Armstrong's transmissions "were a carrying out of threat which he had heard Armstrong announce on the air four or five months prior to December 9, 1980, that Armstrong was going to 'shut down the Southern California DX Club Repeater.'" Armstrong denied this.

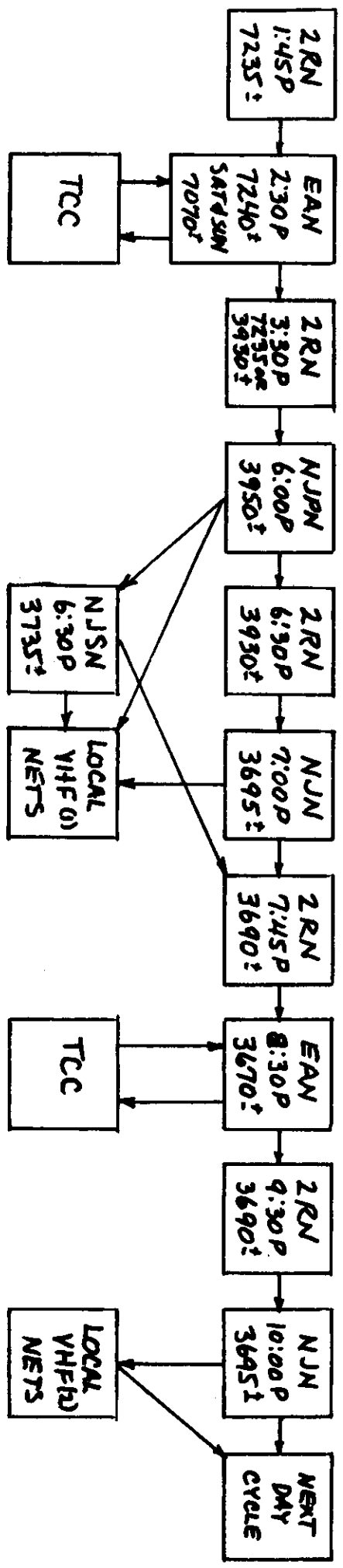
The Presiding Judge ruled that Armstrong "is found to have specifically threatened to put his station on computer control, as part of his campaign to drive the Club's repeater off the frequency 144,88 Mhz. The record establishes that Armstrong's 1980 'tests' were merely a cover for his campaign to deliberately and maliciously interfere with the DX Club Repeater." License revocation becomes

effective October 10th. (Edited from 15 page FCC Initial Decision released August 23, 1982.)

Both Gary Kerr (WA6JIY) and Donald Gilbeau (N6OZ) were cited for interfering with legitimate amateur communications on the Grizzly Peak 146.22/.82 repeater during August 1980. In response to Bay Area amateur complaints of jamming, FCC engineers began monitoring the Grizzly Peak repeater. Kerr was heard to transmit continuous messages for periods ranging from 29 minutes to 3 hours (even though the repeater has a 3 minute timer on it) effectively shutting down the repeater. Kerr was overheard to say on one of the monitored transmissions the "...if you want to jam, the thing to do is say this is a ... test," and on another occasion stated that his purpose in transmitting on the repeater was to "(r)eally raise Hell for a while." In rejecting Kerr's contention that "his right to free expression is at jeopardy because he was actually objecting 'to the Grizzly Peak Corporation's exclusive use of and de facto ownership of a supposedly public and free amateur channel", the FCC Review Board ruled his activity to be "calculated and deliberate" interference. His application to renew his General Class ticket is being denied. (Edited from FCC Decision released August 17, 1982).

Donald E. Gilbeau (N6OZ) had his Extra Class Amateur license revoked on March 31, 1982, for his May 1980 jamming of the Grizzly Peak repeater. Commission engineers had monitored the 146.22 frequency and traced unidentified "random words, letters, and dots of Morse Code and some unintelligible sounds" to the Gilbeau residence. He admitted the jamming and said it was a foolish thing for him to do..."to get back at some of the jammers"...to give them a dose of their own medicine." He said failure to identify his station was an "ill conceived oversight." Up until this time, Gilbeau's amateur radio record had been spotless. He said the penalty was too harsh for a single incident. The FCC Review Board said they were impressed by his candor, contrition and record of good service but that the revocation would stand. He will be allowed to refile for another license after a mandatory one year waiting period. The Commission also emphasized that a single instance of intentional interference is considered serious enough to warrant removal of a license. (Edited from FCC Review Board Decision dated 8/17/82.)

NATIONAL TRAFFIC SYSTEM



2RN - SECOND REGION NET (NJ & NY)

EAN - EASTERN AREA NET (STATES IN EASTERN TIME ZONE + EASTERN CANADA, P.R. & V.I.)

TCC - TRANSCONTINENTAL CORPS (ONE-ON-ONE BETWEEN AREAS - SCHEDULES & PREFERRED VARY)

NJPN - NEW JERSEY PHONE NET

NJSN - NEW JERSEY SLOW SPEED NET

LOCAL VHF NETS FOR SOUTHERN NEW JERSEY

- (1) 7:30 P - JERSEY SHORE AMATEUR RADIO SOCIETY (JSARS) Toms River Rpt 691/091
- (1) 9:00 P - SOUTHERN OCEAN COUNTY TRAFFIC NET (SOCTN) MANAHAWIKIN RPT 835/235
- (2) 10:30 P - MERER COUNTY / SOUTH JERSEY VHF NET (MCN/SVN) ROBINSVILLE RPT 7075/7675

LURKED TO
WBZLCC RPT 5:29/4:69