CROSSTALK

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

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AREA NETS

GCARC RTTY NET Tuesday, 8:00 PM 147.78/18 Rptr Sunday, Sunday, 8:00 PM 147.78/18 Rptr ARES NET: Del. Valley Regional Emer. Net 8:30 PM 224.66 Rptr Club Repeaters: 147.78/.18, 223.06/224.66, 447.10/442.10

The Gloucester County Amateur Radio Club Meets the first Wednesday, of each month at the V.F.W. Hall in Woodbury Heights. Meetings begin promptly at 8:00 PM.

Please send contributions for CROSSTALK to Tony Starr, WS2FZB,

Deadline for submissions is ten (10) days before Club Meetings.

Hello everyone, summer is in full swing now! I hope that all of you on vacation are enjoying the nice weather. I hope to see everyone at the picnic on Sunday, August 4th. We all appreciate Joe for his efforts in putting this affair together. As of now the A.C. Bike Hike is history. I think everything went smoothly, even though the route was new to us! My hat is off to all fellow club members who supported Chic and I. It was not an easy job to coordinate everything for this event. I apologize for not being able to place some of you on location of your choice, but I appreciate the fact that you made the best of it.

I cannot say enough about the support we got from the members who are interested in having this club work! I hope we will get even more backing in the future!

I apologize for not having programming, as I know some of you are disappointed. We have had a lot of unfinished business to resolve which was quite time consumming. I hope now finally we can get to the business of "Ham radio!" So please hang in there.

One of the things I would like to start is contesting. Would someone please volunteer to organize this?

I also would like to know how membership feels about changing the meeting place. If so, can you help us find a new location?

There are some awards this club offers to any of you who wish to work for them, such as the mega point. Any of you who work "D.X.", how about encouraging more of the club members to join you!

I don't think I am asking too much to request that each of you volunteer a little of your time to your club!!! I have put in many hours myself for the club and many more trying to hear your complaints and suggestions. We all complain, but no one wants to say I will help to change things. I would like to see some new faces helping to do the things that need to be done. Please don't just sit back! Get involved and volunteer! It is always the same few people who do all the work. They're tired and need help!

Thank you, Pres. Tom Gordon KB2GI

P.S. August 7th meeting I will not be able to conduct because I have another committment to my family on that day. See everyone at the September Meeting.

PROGRAM FOR AUGUST

There will be no program this month. The Annual Beer Night program, normally held in August, has been combined with the Club Picnic, to be held only three days before the August meeting. Thirsts may still be quenched, however, for the regular fee of only 25¢ a glass.

WE MOURN . . .

It is with deep regret that we inform you of the passing-on of Ernie Garside, WA2TDI. A GCARC member for many years, Ernie was a friend both on the air and at most of our meetings. He will certainly be missed by us all. The club has expressed sympathy to his family.

FIELD DAY, 1985 - Unofficial Results

This year's event went well in most respects, although most members know by now that participation was inexcusably low. Those of us on the Field Day committee are at a loss as to why less of you club members have been coming out every year in the recent past. We feel that the event is better than ever; we have better antenna systems, better equipment, better planning and coordination, and our food has been great. This editor can recall his first GCARC Field Day, when the entire menu was just donuts on Sunday morning. Could it be that some of you don't like to eat free food? I seriously doubt it. Why then, the low participation? If you have any criticism for us, just drop us a note, or talk to us at the meeting. We want to make Field Day the best event of the year. Now let's move on to the scores.

Our number one station this year racked up more than 500 contacts. Not surprisingly, it was the 40 meter CW station, chaired by N2CQ, and it's claim was 541 contacts. Running a distant second place, with 316 contacts, was the 80 meter phone station, chairman WA2FZB. Maybe next year we can come up with a station that will give Ken and his group some competition. Here is how the overall score is broken down:

CW (2 pts. ea.)	PHONE (1 pt. ea.)
80 meters - 241	80 meters - 316
40 meters - 541	40 meters - 278
20 meters - 3	20 meters - 148
Novice - 6	6 meters - <u>42</u>

CW TOTAL - 791 X 2 + Phone TOTAL - 782

GRAND TOTAL - 4728 + Bonus Points:

Publicity - 100 Emer. Power - 100

CLAIMED SCORE 4928;

ENTRY CLASS - - - - - 6A

So there it is, gang. With the number of members in our club, if we wanted to make a serious effort next year, we could double our score. Think about it, and also think about entering some of the other club - competitive contests, such as the November Sweepstakes. Thanks to all of you who came out and worked so hard, and shame on all of you who didn't. See you next year.

P.S. SJRA had as many QSO's as we had points :::

LES BELLES

DX anyone? There are several YL operators in New Zealand. The Women Amateur Radio Operators Club of New Zealand has several awards:

General: Contacts may be in any mode, any band, with applicant's contacts all from the same QTH (except as in VHF section), but contacts via repeaters, in WARO nets or contests are ineligible for WARO Awards. No QSLs are required. Send list certified by one other licensed radio amateur to Custodian. Vicki Shaw ZL10C, with sufficient postage for return of Award.

WARO Main Award: ZL and VK stations work 12 WARO members resident in New Zealand. DX stations work six. Contacts to date from June 1, 1969. Endorsement seals available to ZL and VK stations for each additional 12 contacts. DX stations six. Contacts with DX members of WARO qualify for endorsements but applications must contain at least three ZL contacts.

VHF Section: Ten VHF contacts with WARO members dating from January 1, 1979. WARO members and/or applicants may be home station, mobile or portable. Endorsements for each additional five.

SWL Section: ZL and VK stations list 20 contacts heard with WARO members. DX list (10 dating from January 1, 1979). List full log details with call signs of both stations concerned. Endorsements for each additional 10 (5 for DX stations).

W.A.R.O. Contest: Thelma Souper Memorial Contest - ZL2JO-SK Object: To create YL activity on 80 meters. This contest is held in April and details of dates and rules are published in March each year.

Thelma visited my QTH on her round the world tour a short while before joining the silent keys.



PANIA OF THE REEF

An old Maori legend tells how Pania, lured by the siren voices of the sea people, swam out to meet them. When she endeavoured to return to her lover, she was transformed into a reef which now lies beyond the breakwater at Napier, New Zealand

Used on WARO Certificates

WOMEN ANATEUR RADIO OPERATORS' CLUB

73 de N2RE

Rose Ellen Bills

on Ellen

HAM GROUP VISITS WPVI, WA2MKI

The AWARE club of Wilmington recently visited WPVI, TV6 studios for a tour and to watch the taping of Larry Ferrari's program. Two members of GCARC, Rose Ellen, N2RE, and Ed, WA2PFC, were present. Larry Ferrari, WA2MKI, is a former member of GCARC and the station's organist and music director. During the show, Larry gave a short plug for Amateur Radio. His show is normally aired on Sundays, with this particular taping scheduled for August 11.

CW NET STARTING

Larry Scarpa, WA2CVV, would like to hear from anyone interested in joining a new CW net. The net could be used by club members wishing to increase their CW proficiency as a regular form of on-the-air code practice. Larry says he would be happy to help in this area. Times and frequencies need to be chosen, so call Larry and express your preference. The club used to have a successful CW net, which would start off at a slow speed and increase until someone hollered uncle. Sounds like fun.

DA'S & DIT'S

The call letters of the Club - W2MMD are in remembrance of a deceased club member.

WA2DYO sure deserves a big thank you for the loan of his generator to the Club on Field Day.

Congrats to two young ladies - KA2VHR and KA2VIV who are now Hams.

WA2GFK is looking for a magic lake in New Jersey where you can catch fifteen fish in ten minutes. Can anyone help him?

Anyone interested in a camping trip before the summer ends - contact N2CME.

A favorite recreation of KG2G and his spouse is square dancing.

Understand that WA2USI could do some pretty high jumps while water skiing - in his better days, of course.

What turns N2FNF and WA2TML on - seems to be sailing.

Here's another husband and wife team - N2VPN and KA2YPN - Nice going.

Recently N2VV went cruising down the river with a bevy of redheads.

It still goes on and on. N2AKL's radio was ripped from her car.

WA2ZND and Sherlock Holmes have a common interest - sleuthing.

N2FJQ - our sharp shooter keeps in practive at the rifle range.

Silent key - WA2TDI - God bless.

SWAP & SHOP

FOR SALE:

Complete SSTV Station:

Robot 400 RCA TC 1000 Camera w/zoom lens GE Monitor w/RF Modulator

Perfect Condition - All manuals and cables \$550.00 - A Bargain. Call Ed Ludin, K2UK

AMATEUR RADIO CLASSES

The Jewish Community Center of Southern New Jersey, in collaboration with the Chaverim of Delaware Valley, the amateur group sponsoring the amateur radio station at the Center, will once again offer its popular classes at the Center leading to amateur radio licensure.

The class, leading to the Novice License, will include electronic theory and Morse Code instructions and culminate in the taking of the examination at the end of sessions. The instructors, Steve Sosson KRlM, Harry Wolf ND2P, Edward Ludin K2UK, are certified by the American Radio Relay League.

The classes start Thursday, September 19, 1985, and extend for ten weeks 7:30 to 9:00 P.M. The fee is \$10.00 for members and \$18.00 for non-members and includes study materials.

To register go to the Jewish Community Center, 2395 West Marlton Pike, (Route 70) Cherry Hill or call 609-662-8800.

Following the completion of the novice course, the same instructors will be offering continued upgrading to the general and advanced class licenses during the winter and spring sessions.

			160-METER DX OPERATING PRACTICES				
REGION 1				REGION 2			
		ALLOCATION	NOTES	COUNTRY		ALLOCATION	NOTES
Andorra	(03)	1810-1875	Phone permitted only in 1825-1875 SSB only allowed I832-1835 Phone permitted only in 1900-2000 CW up to 10 watts only Up to 10 watts, phone only allowed 1900-1950 SSB only allowed 1832-1835 CW only Up to 10 watts Up to 10 watts Up to 10 watts Up to 10 watts CW up to 10 watts CW up to 15 watts CW up to 15 watts CW up to 10 watts only Up to 10 watts except 1830-1850 CW and RTIY up to 60 watts only Low power, phone only allowed	Antigua	(VP)	1800-2000	1000 1010 CH male
Austria	(OE)	1810-1850	558 only allowed 1832-1835	Argentina	(LU)	1800-1830	1800-1810 C# Gull
Bahrain	(AY)	1800-2000	Dhann annithed anto in 1900-2000	banamas	(00)	1075-2000	
Lyprus	(07)	1800-2000	Phone permitted only in 1700-2000	Docardo	/(ID)	1900-1925	CM and Phone
Denmark Diskanki	(112)	1010-1050	CW up to 10 watts only	ORI MAGE	1417	1875-1900	CW and Phone
Dibouti	(92)	1810-1850	Un to 10 watte shope only	Ralivia	(CP)	1800-1850	CW BING THOME
East on bank	(12)	1610-1730	allowed 1900-1950	Reatil	(PY)	1800~1850	
Hort Coresny	7.03.5	1915-1975	GCR note allowed 1877-1875	Canada	(VF)	1800-2000	
MEST DEL MEILÀ	1771	1850-1890	CH univ	Colombia	(HK)	1800-2000	
Finland	(OH)	1920~1845	Un to 10 watts	Costa Rica	(11)	1800-2000	
7 1171 8110		1915-1955	Up to 10 watts	El Salvador	(YS)	1B00-2000	
France	(F)	1830-1850	op 12 11 House	Grenada	(J3)	1800-2000	
Bibraltar	(ZB)	1800-2000		Guatemala	(76)	1800-2000	
Lesatho	(7P)	1800-2000	Un to 10 watts	Honduras	(HR)	1800-2000	•
Luxembourg	(LX)	1830-1850	-r	Mexico '	(XE)	1800-2000	
Malta	(9H)	1810-2000	Up to 10 watts	Montserrat	(VP)	1 <u>B</u> 00-2 0 00	CW and SSB only
Netherlands	(PA)	1825-1835	Up to 10 watts CW and SSB	Curacao	(PJ)	1800-2000	
Nigeria	(5N)	1B00-2000	Up to 10 watts	Nicaragua	(YN)	1B00-2000	
Norway	(LA)	1802-1850	CW up to 15 watts	Panama	(HP)	1B00-2000	
Dean	(A4)	1800-2000	CN up to 10 watts only	Peru	(OA)	1B00-2000	
Poland	(SP)	1750-1800	Up to 10 watts input	Surinam	(PZ)	1800-2000	
		1810-1930	Up to 10 watts except 1830-1850	Trinidad	(94)	1900-2000	
Portugal	(CT)	1830-1850	Cw and RTTY up to 60 watts	United States	(10)	1800-2000	
				REGION 3			
San Marino	(T7)	1830-1850					
Senegal	(6N)	1810-1850		COUNTRY		ALLOCATION	NBTES
South Africa	(25)	1 B10-18 50					
Spain	(EA)	1830-1850		Australia	(AK)	1800-1866	Phore 1825-1866
Sweden	(SM)	1B30-1B45	10 watts CW only			1874-1875	
Switzerland	(HB)	1BIQ-1850		French Polynesia	(FU)	1800-2000	PH1
Syria	(YK)	1830-1850		Hong Kong	(42)	1800-2000	ra outa
United Kingdom	(6)	1810-2000	10 watts CW only	indonesia	(15)	1800-1900	רא רא
				1	/141	1900~2000	Add 1/2 ble to limits
				Japan . Malaysia	(94)	1707~1712	HOU 1/2 KHZ CO LIBICS
				' Nau 7azîzad	(76)	1000-2000	
Acces to this	hand i	ie ekill dan	ind in Ralaina Hunnary Italy	i new resigna	ILLI	1944-1921	
Inhanen liber	is Mes	is stili UEN	n Romania Sinera Loone Turkeu	! Pakistan	(AP)	1800-2000	
Rolizo Chili	Rangl:	doch Fiii	and Philinnings In Renion 2	! Panua New Guinea	(P21	1800-1844	
the concept !	800-125	sucon, raji SO is on ovr	lusive allocation where 1850-2000	i sabod usa cosusa	11 47	1874-2000	
is shared. In	Region	3. 1800-20	00 is a shared allocation.	Singapore	(9V)	1800-2000	Up to 10 watts
ag gright EMF 111		. 5, .007 20	ied in Belgium, Hungary, Italy, o, Romania, Sierra Leone, Turkey, and Philippines. In Region 2, lusive allocation where 1850-2000 00 is a shared allocation.	Solomon Islands	(H4)	1B00-2000	
				Western Samoa	(5W)	1800-2000	Phone 1850-2000

BO-METER DX OPERATING PRACTICES AREA CM SECTION PHONE SECTION PHONE DX 3.500-3.600 3.500-3.750 3.600-4.000 3.790-3.810 Africa (most countries) 3.740-3.750 3.600-3.750 Argentina, Chile Asia (most countries) 3,600-4.000 3.790-3.810 3.500-3.600 3.500-3.600 3.500-3.725 3.500-3.600 3.500-3.600 3.650-3.700 3.500-3.550 3.500-3.600 3.400-3.700 3.690-3.700 Australia 3.725-3.999 3.750-3.800 Canada 3.600-3.800 3.790-3.800 Europe (except USSR) 3.500-3.600 3.650-3.700 3.550-3.575 Greece 3.590-3.600 3.675-3.700 3.793-3.803 India Japan 3.775-3.925 3.600-4.000 New Zealand 3.600-3.999 3.775-3.999 3.775-3.B00 South America (most countries) 3.500-3.600 3.500-3.775 3.775-3.825 USA and territories 3.800-3.999 Marshall Islands 3.500-3.900 3.800-3.825 3.500-3.600 3.600-3.650 3.640-3.650 USSR

SOME FCC STATISTICS

Amateur Call Signs issured as of first of June

2nd Call District EXTRA--NK2E, ADVAN--KD2NG, TECH/GEN.--N2FOP, NOVICE--KA2YNC

FCC ALLOWS WAIVERS OF 30 DAY RULE

The FCC's Gettysburg Licensing facility has advised that VEC's can now approve waivers of the so called "30 Day Rule." Previous FCC policy held that test applicants failing examination elements could not be examined for the same or higher elements within 30 days of the date the exam element was failed. The question was asked Larry Weikert, Chief of the Gettysburg's General Radio Branch, if a suitable reason might be that amateur radio operator tests were available in an area in less then the required 30 days . . . for example 25 days. He said that this was acceptable.

FURTHER VEC DEREGULATION PROPOSED

The Commission has proposed that VEC's assume maintenance of Amateur operator examination question pools, a function currently performed by the FCC.

The FCC now maintains question pools for each of the four written Amateur operator examinations elements. Under the Notice of Proposed Rulemaking (NPRM) issued June 12th by the FCC Commissioners, VEC's would maintain and update these question pools instead.

Assumably the new VEC program would be further deregulated to allow VEC's to profide the questions that make up the examination pools and VEC's the "test design". The test design is defined as the question selection process from various topics within the pool. (FCC Docket 85-196). (Boy I'm glad I got my ticket the FCC way.) TNX W5YI Report/K2JF

N4WF DX BULLETIN BOARD

Bill, N4WF, describes his new RBBS which is active on 7098.0 KHz (1215-0100 UTC) and 36.0.5 KHz (130-1200 UTC). Bill says he has put the system on the air for the primary purpose to be an RBBS where DXers can share and swap DX information with other DXers, whether their interests are in DXCC, 5BDXCC, WAZ, 5BWAZ, etc. However the RBBS is open for any legitmate amateur radio use. Contact N4WF for more info.

The RBBS default speed is 60 WPM Baudot and the access is:

C/R //N4WF C/R -or-

C/R //N4WF// your callsign C/R

If you have had trouble accessing the RBBS try:

C/R RY //N4WF C/R -or-

C/R RY //N4WF your callsign C/R

If the RBBS logs your callsign incorrectly you should relog with: //LOG your callsign C/R

Tnx QRZ DX/K2JF

THE FIRST TRANSCONTINENTAL TELEPHONE

Telephone communication across the United States was inaugurated in 1915, made possible solely by Dr. DeForest's amplifier. The rights to this amplifier were acquired by the American Telephone and Telegraph Company in 1912, after which a number of innovations and imporvements were made by the Bell Telephone Laboratories.

From the Native Son's Hall in San Francisco the evening before the service was officially opened a call was placed from the Main floor of the building to a man in the basement of the building VIA NEW YORK CITY a conversation of over 7000 miles.

Tnx Sparks Journal/K2JF

A QUARTER CENTURY IN SPACE

The decline in the sunspot cycle, with the worst yet to come for the HF DXer, is moving many operators to begin inquiring about the use of AMSAT-OSCAR 10 satellite. With the semi-geostationary capabilities of AMSAT-OSCAR 10 combined with those of the forthcoming AMSAT phase 3C project (launch presently scheduled for mid-1986), the U.S. Amateur community should have virtually 24-hours/day worldwide DX coverage via Amateur communications satellites. The Amateur Radio Space Age is truly just beginning!

In regards to the type of antennas to use for detailed answers the following sources are suggested:

The ARRL 1985 Handbook for the Radio Amateur (62nd Ed.) Chapter 23, titled "Space Communications."

The AMSAT Satellite Journal, the bi-monthly publication available with AMSAT membership (\$24/year).

WHAT ANTENNA DO YOU USE FOR WORKING THE SATELLITE?

On the receive (i.e. downlink) a recommended one is the 2-meter KLM-22C. This is a cross-polarized yagi antenna with a 19 foot boom. Other popular antennas are the 2-meter KLM-14C and the Cushcraft Al14-20T. This is not an endorsement. You should select an antenna that your budget and roof space will allow. Note: The Cushcraft 144-10T is generally considered somewhat small for working a semi-geostationary satellite such as AMSAT-OSCAR 10, however, it has been used successfully for portable satellite operation.

On the transmit (i.e. uplink) side the KLM 435-18C cross-polarized yagi antenna, yet a better one is the new KLM 4354CX. The longer boom on this antenna (14 feet vs 7 feet for the KLM-18C) will give a higher gain necessary to work QRP CW on the bird. Cushcraft also makes a 435 MHz cross-polarized yagi which is popular. The two antennasshould be connected using a short, non-conducting (e.g. fiberglass) boom. These are also available from KLM.

ARE CROSS-POLARIZED YAGI ANTENNAS REQUIRED FOR SATELLITE COMMUNICATIONS?

Although circular polarization is recommended for space communications, it also performs well in regular use, especially for working mobile stations. It is not, however, required. Any beam antenna, either horizontal or vertical, will work providing it has at least 10-13 dB of forward gain.

CAN TECHNICIAN CLASS AMATEURS WORK INTERNATIONAL DX ON VOICE VIA SATELLITE?

They certainly can, and you will hear a number of them who are very active and obviously having a great time! It is suggested that if you are a technician working ssb DX for the first time and you encounter a DX station with limited capabilities in the English language, that you remember to speak slowly and distinctly.

DO YOU HAVE TO BE AN AMSAT MEMBER TO OPERATE THROUGH THE SATELLITE?

AMSAT membership is not a requirement, but the support is certainly appreciated! Your tax-deductible contributions keep the Amateur Space Program moving and growing. In addition, AMSAT membership brings you bi-monthly issues of the excellent new publication, AMSAT Satellite Journal.

CAN SSTV BE USED ON THE SATELLITE?

SSB-generated SSTV is authorized for use on AMSAT-OSCAR 10. Because of the high-duty cycle of this mode, users are asked to utilize the calling frequency approach similar to the found on 14.230 MHz (when the band is open). The calling frequency for SSTV on AO-10 is 145.888 MHz on the down-link.

WHAT ABOUT RTTY?

Most RTTY activity on the satellite can be found in the vicinity of 145.880 MHz on the downlink.

If you have any questions and for further explanation drop a line to John Champa, K8OCL/7800 Hartwell Street/Dearborn, MI 48126.

DXpedition! To "normal" people and to the more mundane Radio Hams, this word has no meaning whatsoever. What does it mean to the rest of us? To the DXer it means: possibly a new country, a new zone, or a new band country; an opportunity for flexing the muscles, testing the new antenna, and just making sure "WE" are still performing at our olympiad level. (Amateurs often use the term "WE" where others might use the singular pronoun "I". Doesn't this indicate a station team: the antenna; the receiver; the transmitter; and, lastly, the operator; in that order?)

To another group, this contraction, of DX and EXpedition, has an entirely different meaning. To these people, DXpedition brings adventure, excitement, pleasure, disappointment, and frustration. Just like athletes competing in another sport, they too experience the thrill of victory and the agony of defeat. The DXpeditioner's arena and competition are, however, quite different. Most often, each DXpedition brings a new arena; there is no "home field" advantage, ever!

THE ARENA is itself the largest protion of the competition which the DXpeditioner faces. Often disinterested and anything but helpful, the arena can in fact be hostile and un-cooperative with the DXpedition. Whether it be the elements or an irrational bureaucracy, the sweetness of the victory seems to be directly proportional to the effort exerted. After the initial "victory", of getting there and getting licensed, comes the secondary effort: the long hours of operating, punctuated with endless requests and demands. Yes, demands. Why weren't you here, or there? Why are you operating THAT way? You should do it this way, or that way! When are you going to operate; transceive; in the general band; on 80 m; CW (or SSB); by call districts; on such and such net? Each of these is a volley which our athlete must return. (Score points when returned smoothly with no disruption of the game. Lose points when the game requires a time-out, or the DXpeditioner caves in to requests which detracts from the DXpeditioner's primary goal).

The nice part of this game is that you never really completely lose. Even if you don't reach the actual operating stage, the hurdles are satisfying to cross and the anticipation of success will spur you on to put forth greater effort than you had believed possible. While trophies are the best, the stories about "the one that got away" aren't too bad!