

GLOUCESTER COUNTY AMATEUR RADIO CLUB, W2MMD

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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 * * * * *

AT THE READING OF THIS MESSAGE FIELD DAY WILL BE HISTORY. TO ALL WHO WORKED IN PREPARATION, IN OPERATION AND CLEAN-UP, I OFFER MY THANKS. A SPECIAL THANKS TO KA2DOT FOR ANOTHER FINE JOB IN ORGANIZING THIS EVENT FOR THE CLUB.

AS I REPORTED AT THE JUNE MEETING, K2PQD HAD TO RESIGN HIS POSITION AS SITE CHAIRMAN. THANKS CHARLIE FOR ALL YOUR EFFORTS IN THAT POSITION. CHARLIE'S LAST JOB WAS TO HOOK UP A NEW WATER LINE TO THE BATHROOM IN THE TRAILER WITH THE HELP OF KD2CR AND KB2AB. THANKS GUYS! I WOULD ALSO LIKE TO THANK WA2TOP WITH THE HELP OF HARMONIC JOHNATHAN LIZZO WHO RAN THE WATER LINE TO THE KITCHEN IN TIME FOR FIELD DAY. A BIG THANKS ALSO TO N2IVN WHO CLEARED THE GROUNDS BETWEEN RAINDROPS. THERE ARE STILL PROJECTS TO DO AT THE SITE, THE FIRST PRIORITY JOB BEING THE LEAK IN THE TOILET AND THEN THE BATHROOM FLOOR WHICH IS SOFT.

I AM STILL WAITING FOR THE FINAL WORD FROM THE 4H CLUB TO FIND OUT IF THEY WANT US TO DO THE PARKING FOR THEM AT THIS YEAR'S 4H FAIR. THEIR MEETING IS ON 6/27/90 AND WE SHOULD HEAR FROM THEM AFTER THE MEETING. THE DARES OF THE FAIR ARE JULY 26, 27 AND 28.

FINALLY, REMEMBER THAT THE *** J U L Y *** GENERAL MEMBERSHIP MEETING WILL BE HELD ON JULY 11TH AT THE VFW POST DUE TO THE HOLIDAY ON THE FIRST WEDNESDAY. HAVE A SAFE 4TH OF JULY AND SEE YOU AT THE MEETING. 73...

BETH KB2EAL

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* * * * * INTERESTING RADIO FACTS * * * * *

ON JULY 2, MARCONI FAILED TO AROUSE INTEREST IN HIS NATIVE ITALY, TOOK HIS GRAPHIC COHERER AND SPARK WIRELESS SYSTEM TO ENGLAND, WHERE HE APPLIED FOR A BRITISH PATENT. HE ESTABLISHED THE MARCONI WIRELESS TELEGRAPH CO IN ENGLAND THE SAME YEAR.

ON JULY 30TH, MAHLON LOOMIS OF OHIO APPEARS TO HAVE BEEN THE FIRST TO CONCEIVE OF THE "ANTENNA" AS A ESSENTIAL PART OF A WIRELESS TELEGRAPHY SYSTEM. HE CONDUCTED EXPERIMENTS IN 1806, USING KITE-SUPPORTED ANTENNAS, BETWEEN MOUNTAINTOPS 14 MILES APART. (BOY WHAT A 160 JOB THAT WAS).

TNX, K2JF...VIA KB2COB BBS

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* * * * * HAPPY BIRTHDAY * * * * *

JULY 4TH N2FJQ AL TRUEBLOOD

JULY 16TH WA2EVK HAYWOOD PELLEY

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* * * * * EDITORS NOTES * * * * *

I WANT TO THANK ALL WHO SENT IN THEIR REPORTS, I KNOW THE MEMBERS WILL ENJOY READING THEM, WE WILL LOOK FORWARD TO MORE NEW ARTICLES NEXT MONTH.

N2FJQ...EDITOR

IF RESPONSE TO SEVERAL PEOPLE WHO HAVE ASKED HOW THE SNJ PACKET NETWORK IS ORGANIZED, WE HAVE SET UP A MEETING TO DISCUSS HOW TO USE THE SNJ PACKET RESOURCES. THIS WILL COVER THE BBSs IN THE AREA (EXCLUDING THE DX CLUSTER BBSs), THE NET/ROMs, AND THE TCP/IP STATIONS. IT WILL NOT BE AN INTRO TO PACKET RADIO (IT WILL ASSUME THAT YOU KNOW SOMETHING ABOUT PACKET) ALTHOUGH BEGINNERS ARE CERTAINLY WELCOME. THE MAIN TARGET AUDIENCE WILL BE PACKET USERS WHO SEE ALL OF THESE BBSs, NETROMs, FUNNY-LOOKING PACKETS, AND WANT TO USE THIS STUFF TO SEND MESSAGES AND EXPLORE THE REST OF THE NETWORK.

THE MEETING WILL BE HELD AT THE JEWISH COMMUNITY CENTER ON JULY 31 AT 7:30 PM IN ROOM 108 (THANKS TO K2UK FOR SETTING UP THE ROOM). THE JCC IS ON ROUTE 70 ALMOST INTO PENNSAUKEN. TALK-IN WILL BE ON 146.865 REPEATER.

THIS GIVES YOU A GOOD BIT OF WARNING. IF YOU HAVE SPECIFIC TOPICS THAT YOU'D LIKE US (US AT THIS POINT MEANS WB2MNF, WA2VXT AND K2UK) TO COVER, PLEASE LET US KNOW SO THAT WE CAN INCLUDE IT IN THE MATERIAL.

HOPE TO SEE YOU THERE

73 DE JON WB2MNF

TNX...WA2VXT BBS

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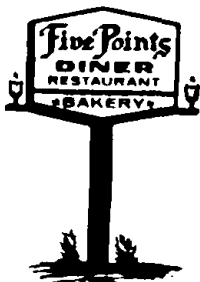
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GETTING ON PACKET

Ed Ludin, K2UK

A GUIDE FOR THE NEWCOMER - PART 4

Let's further explore the use of the 'L' command. It does give you many options - is a very powerful command. Firstly, remember that there can literally be a hundred bulletins on the BBS for you to read that were posted since the last time you checked in. That means that if you just send 'L' after you check in, the BBS will list ALL of them - they will fly by faster than you can read them. Of course, you can open a buffer, save the list, read them off-line, and then reconnect and read the one's you want. Or, you can send 'LL 20' - 'list last 20' - which will fill your screen with the last 20 bulletins you haven't read. You can then 'LL 40' to get 20 more, and so on. You can then jot down the message numbers of those that interest you and read them (as previously explained).

If you remember the number of the last message you've read, you can send 'L nnnn'. This will list the messages back to and including nnnn. Or, you can specify a range by sending 'L nnnn-mmmm' - which will list all those from nnnn to mmmm. So you have considerable control over how you manage your message listing. You can even specify the type of message you wish to list. For example, if you wish to list only the private messages to or from you, send 'LP' with or without a range. Some BBSs support the 'LM' command which means 'list mine'. The PRMBS BBS (like mine) uses the 'mail' command - which then lists all the mail, read or unread, to the user and gives you a list of options on how to handle each message (read, kill, view all headers, file, etc.). Other useful commands are: L) call, L(call, L@ call - which, respectively, list messages to, from, or at the callsign. That can come in handy if you are trying to find some old messages - for example, one you left for someone and wonder if he picked it up. There are other functions possible with the 'L' command, such as listing accidentally killed messages (L -K nnnn), with variations using (,),@,call,title, but they are only available on certain BBSs such as PRMBS - you can find what's available with the 'HELP' information you originally saved.

Now let's examine an area which is very much underused. Most PBBSs have an extensive set of files available for the asking. The SYSOPs have set aside space on their hard drives to make available files on a variety of subjects. For example, there may be electronic issues of the ARRL Letter, WSYI report - there may be files of public domain programs for various computers, lists of swl frequencies, DX QSL managers, 'how to' files, modifications for various rigs, etc. - you can never tell what you'll find that will be of interest to you, unless you look. On most BBSs you send 'W' or 'DIR'. That will get you a listing of what's available in the file system. The list names will be in the familiar MSDOS format - xxxxxxxx.yyy - an abbreviated name followed by the type of file, for example: FREQUENCY.LST - which is likely a list of frequencies!!! There will also be subdirectories listed, for example: GATEWAY (DIR) - which is a directory of issues of the GATEWAY newsletter, a packet radio newsletter published by ARRL. To find out what is in an individual subdirectory, send 'W GATEWAY' or 'DIR GATEWAY' - you will then get a list of the files in that directory. For example, on my BBS the issues of GATEWAY are listed as GW0215.90 which

means the issue of 02/15/90. So, if you wish to download that particular issue, you would send 'D GATEWAY\GW0215.90' - and it will come flying back to you. Note the MSDOS syntax with the space after the command and the '\ ' between the directory and a file within the directory. If you wish to get a file that is not in a subdirectory, just send 'D FILENAME' - such as 'D FREQUENCY.LST'.

I encourage you to look at the files on the PBBSs. It is amazing what you'll find there. This is one of the interesting areas of packet radio. Often SYSOPs will take messages that have been sent around in parts because of their length and combine them into one file for easy downloading and reading. A user can then also hardcopy them on his printer. Don't forget that you can UPLOAD files on to your local PBBS. You do that with the 'U' command. Say you have a nice list of emergency frequencies that you found on your scanner that you'd like to share. You put it in your transmit buffer, or be prepared to send it whatever way is appropriate in your communication program. You send to the BBS 'U EMERGENCY.FRQ' (the title of the file). The BBS will then prompt you to send it, which you do just like any message and end it with a ctrl-z or \ex. Some BBSs may ask for a short description of the file content so the SYSOP will know what's going on to his BBS. If you are adding to an existing subdirectory, send the file 'U DIRNAME\FILENAME' - just the same as if you were downloading it.

Another very useful command available on some BBS programs is the 'GET' command. If you would like to know what files are available on another BBS, let's say W1ABC, that you know about, but can't or don't want to access, you can send 'GETDIR *.* W1ABC'. Your BBS will then automatically generate a message to the W1ABC BBS requesting the directory list and W1ABC will send it back to you at your BBS, all automatically!!! Then, if you see a file you'd like to have, you can send 'GET FILENAME W1ABC' - and lo! and behold! you'll have the file sent back to you. You can request a subdirectory listing with the 'GETDIR dirname W1ABC' and then get the file from it with 'GET DIRNAME\FILENAME W1ABC'!!!! If you happen to be monitoring a frequency and see a message listed from a BBS you can't access, you can get it by sending 'GETMSG xxxxxx W1ABC' (or xxxxxx yyyyy zzzzz for 3 messages) and your BBS will send messages to W1ABC BBS who will automatically send those messages (if they are not private) back to you. Another nice 'GET' is to get the QTH of a station - you don't need a Callbook anymore - send 'GETQTH call1 call2 call3 WA4ONG' - a message will be sent off to WA4ONG (that's the actual BBS in VA. here on the east coast that does it) requesting the QTHs of the stations you requested and he will send them back to you automatically. For Canadian stations, send to VE3JF.ON.CAN.

Some PBBSs do not have the 'GET' capability. For those, you have to create your own 'REQ' messages. To get a QTH, send the following: S REQQTH @ WA4ONG ; When asked for title or subject, send: call1 call2 call3 @ W1ABC (which is the call of your home BBS); when asked for the text of the message, send nothing, just a CTRL-Z or /ex. You can do the same thing to get files and directories, as above outlined. Obviously it is a lot easier and faster to do it on those BBSs (like mine, a PRMBS board) that have the 'GET' capability.

3.

Another useful service of the packet radio system is the "White Pages". This has nothing to do with the phone company but is a service that allows you to find the 'home BBS', zip, and QTH of another station. Because the information in this database is procured sort of semi-automatically when stations use a particular PBBS, it is important that you specify the same 'home BBS' whenever you check in to different PBBSs. The database is kept at ADBI. Therefore, when you want to know the home BBS of stations, send: sp WP @ ADBI; for the title, put anything or leave blank; for the text: call1 ? then on the next line call2 ?, etc. It is necessary to put the callsign and ? on separate lines. You can also add a line containing your info, as: Call @ HOMEBBS ZIP NAME QTH (just city and state). Then finish with the usual ctrl-z or /ex. The ADBI BBS will automatically send you the info you requested, if he has it.

Please note that all the commands are case insensitive - I've used upper case just for emphasis. Also, do NOT use the single (or any) quote mark)) ' ((that I used also for emphasis in the above explanations.

There are many other things you can do as a user of a full service modern packet radio bulletin board (PBBS). However, I have touched on most of the commands you will use most often. As I've said, they are not really mysterious - just seem to look that way!! All generally are MSDOS type, a command followed by a relevant argument. There are variations with different PBBS programs. There are about 5 or 6 in active use around the country. However, if you get comfortable with any one of them, you will be able to use them all.

One command I haven't mentioned yet is the 'T(alk) or CHAT' command. That one rings the bell at the SYSOP's computer and tells him you'd like to talk to him. If you are in a position to connect to K2UK, please use the CHAT command and let's have a digital handshake! I would very much like to get to know you better. Besides, if you have any questions about anything at all regarding packet (especially PBBS), that would be a good time to ask. Or, send me a message @ K2UK.NJ.USA.

* * * * * ASTRONOMY HAPPENINGS * * * * *

ON JULY THE 4TH THE EARTH WILL BE THE FARTHEREST FROM THE SUN. FOR THOSE WHO WANT TO LOOK AT THE MOON AND THE NIGHT IS CLEAR WE WILL HAVE A FULL MOON ON JULY 7TH AT 2130 HRS. ON JULY 17 THE FIRST PHOTOGRAPH OF STAR (VEGA IN 1850). TO LET YOU REALIZE HOW TIME FLIES; IT WAS ON JULY 20 1976; OVER 14 YEARS AGO; THAT VIKING 1 LANDED ON MARS. ON JULY 28TH THE FIRST PHOTOGRAPH OF A TOTAL SOLAR ECLIPSE IN 1851 WAS MADE.

* * * * * THE PLANETS THIS MONTH * * * * *

MERCURY IS VISIBLE IN EVENING TWILIGHT MID AND LATE MONTH, VENUS RISES AT 0400...MARS RISES AT 0100...JUPITER IS NOT VISIBLE THIS MONTH..SATURN IS VISIBLE ALL NIGHT.

* * * * * THE (VARY) DISTANT STARS * * * * *

HOW FAR AWAY ARE THE STARS? ALTHOUGH THE SIZES OF THE ORBITS OF THE PLANETS IN OUR SOLAR SYSTEM WERE ESTABLISHED IN THE SEVENTEENTH CENTURY, TWO HUNDRED MORE YEARS PASSED BEFORE ANYONE ACCURATELY MEASURED THE DISTANCE TO A STAR.

THE FIRST TO DO SO WAS FREDRICK WILHEIM BESSEL, WHO WAS BORN ON JULY 22, 1784. BESSEL HAD A PASSIONATE INTEREST IN MAKING PRECISE ASTRONOMICAL CALCULATIONS, AN INTEREST THAT HELPED HIM ACHIEVE THIS HISTORIC FIRST IN 1817 HE BEGAN OBSERVING WHAT HE HOPED WAS A RELATIVELY NEARBY STAR, CATALOGED AS THE 61ST STAR IN THE CONSTELLATION CYGNUS THE SWAN AND KNOWN AS 61 CYGNI.

THIS STAR HAD BECOME FAMOUS BECAUSE OF ITS LARGE PROPER MOTION ON THE DOME OF THE SKY. EVEN THOUGH MOST, STARS ARE SO FAR AWAY THAT THEY APPEAR "FIXED" RELATIVE TO ONE ANOTHER, 61 CYGNI WAS OBSERVED TO MOVE WITH RESPECT TO OTHER STARS. I WAS ALSO SUSPECTED OF BEING RELATIVELY NEARBY. YET NO ONE KNEW WHETHER THE MOVEMENT OF SUCH A STAR WAS A TRUE INDICATION OF ITS CLOSENESS. IT WAS THOUGHT, AND INDEED IT IS THE CASE, THAT SOME STARS MIGHT APPEAR TO MOVE FOR REASONS OTHER THAN DISTANCE.

BESSEL FOUND THE DISTANCE TO 61 CYGNI BY MEASURING THE STAR'S PARALLAX. THIS IS A CHANGE IN THE APPARENT POSITION OF SOME NEARBY STARS, AS WE SEE THEM FROM DIFFERENT POINTS IN EARTH'S ORBIT. IF YOU HOLD A FINGER AT ARM'S LENGTH AND FIRST CLOSE ONE EYE AND THEN THE OTHER, YOU WILL SEE YOUR FINGER SHIFT RELATIVE TO OBJECT IN THE BACKGROUND. LIKEWISE, BESSEL OBSERVED A TINY SHIFT IN THE POSITION OF 61 CYGNI WHEN HE OBSERVED THE STAR AT DIFFERENT TIMES OF THE YEAR, WHILE EARTH WAS ON OPPOSITE SIDES OF ITS ORBIT.

KNOWING THE DISTANCE EARTH TRAVELED IN ITS ORBIT, BESSEL WAS ABLE TO DETERMINE THE STAR'S DISTANCE WITH SIMPLE GEOMETRY. IT TURNED OUT TO BE FARTHER AWAY THAN ANYONE HAD SUSPECTED, 600,000 TIMES FARTHER THAN EARTH IS FROM THE SUN, OR ABOUT 11 LIGHT-YEARS AWAY. TNX..JOHN..K2JF

* * * * * 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

* * * * * FOR SALE * * * * *

KENWOOD 2 METER TRANSVERTER, MOD TV 502, \$225.00 NEGOTIABLE, MARK N2HZM

* * * * * FIELD DAY "90" * * * * *

THIS YEAR WE WERE VERY FORTUNATE AND HAD VERY PLEASANT WEATHER. WITH THE EXCEPTION OF FRIDAY NIGHT AND SATURDAY MORNING, OF WHICH THERE WAS RAIN. BUT FROM SATURDAY NOON UNTIL WE ALL LEFT ON SUNDAY, THE WEATHER WAS BEAUTIFUL. EVEN TAKING THE TOWER DOWN ON SUNDAY AFTERNOON WAS NOT UNCOMFORTABLE WARM WHICH IS A REAL SWITCH. BAND CONDITIONS LEFT A BIT TO BE DESIRED AT FIRST. THEY WERE SO BAD AT THE BEGINNING OF THE CONTEST ON 75 PHONE, THAT I THOUGHT MY RIG HAD DIED. BUT THE PROPAGATION PICKED UP AND EVENTUALLY THE BANDS CAME TO LIFE. IRMA AND ROSLYN DID THEIR STANDARD SUPERB JOB OF MAKING SURE WE WERE WELL FED AND HAD LOTS OF SODA TO DRINK. LAST BUT NOT LEAST, THE GENERATOR REALLY DID RUN FLAWLESSLY AFTER A FEW MINOR PROBLEMS WERE TAKEN CARE OF. SO WHAT AM I LEADING UP TO? WELL, I HAVE SEEN MURPHY'S LAW STRIKE MANY TIMES, IN MANY WAYS, AND IN MANY PLACES; BUT NOT MANY TIMES AND MANY WAYS IN ONE PLACE. MIKE WA2TOP WAS USING A BORROWED 2 METER ALL-MODE THAT DIED ON THE SSB SIDE. HIS COMPUTER WAS RUNNING, THEN IT DIED AND HE COULDN'T GET IT RESTARTED. SHORTLY AFTER MIDNIGHT THE GAS FEED FOR THE GENERATOR WORKED ITS WAY ABOVE THE FUEL LEVEL AND THE GENERATOR QUIT. THAT NORMALLY ISN'T TOO BAD A SITUATION BUT THE COMPUTERS USING MY LOGGING / DUPECHECKING PROGRAM DIDN'T EFFECTIVELY SAVE WHAT THEY HAD BEEN COLLECTING. 20 PHONE LOST ALL OF THEIR CONTACTS AND 75 PHONE LOST EVERYTHING THAT WAS COLLECTED AFTER 5 PM SATURDAY NIGHT. AT LEAST WE NOW KNOW WHY THE PROBLEM FAILED AND HOW IT CAN BE FIXED SO THAT DISASTER DOESN'T HAPPEN AGAIN. EVEN THOUGH WE HAD A FEW PROBLEMS THIS YEAR, I THINK WE DID QUITE WELL, OVERALL.

HERE ARE THE RESULTS:

BAND	CONTACTS	MULTIPLIERS	TOTAL POINTS
80 CW	103	X2	206
75 PH	207	X1	207
40 CW	617	X2	1334
40 PH	314	X1	314
20 CW	393	X2	786
15 CW	75	X2	150
15 PH	50	X1	50
10 PH	326	X1	326
2085		TOTAL	3373
		UNDER 150 WATTS OUTPUT	X2
			6746
BONUS POINTS FOR EMERGENCY POWER, PUBLICITY AND W1AW FIELD DAY MESSAGE.			900
			7646 PTS.

THIS IS NOT THE BEST SCORE I HAVE SEEN THE CLUB DO, BUT CONSIDERING THE PROBLEMS THAT WE ENCOUNTERED AND LOSSES WE TOOK IN CONTACTS, WE DID WELL.

THIS BRINGS ME TO MY CLOSING COMMENTS WHICH IS TO SAY THAT THIS TRULY WAS MY LAST YEAR AS THE CLUB'S FIELD DAY CHAIRMAN. WE HAVE GAINED QUITE A FEW NEW MEMBERS SINCE I TOOK ON THIS JOB AND IT'S TIME TO TURN IT OVER TO SOMEONE ELSE AND UTILIZE THEIR IDEAS AND INNOVATIONS. I HAVE HAD A LOT OF FUN DOING IT, HAVE ALWAYS HAD A LOT OF COOPERATION, AND HAVE ALWAYS RECEIVED COMPLIMENTS ON HOW I DID THINGS. THE COMPLIMENTS REALLY BELONG TO ALL OF YOU WHO HAVE COME OUT AND PARTICIPATED, FOR WITHOUT YOU, THERE WOULDN'T BE A FIELD DAY. MY MANY THANKS TO RAY, MIKE, IRMA, ROSLYN, JIM AND BETH FOR THEIR INPUT TO THE PAST EVENTS AS THEY ALL HAD A DIRECT INFLUENCE ON THE SUCCESS OF FIELD DAY'S 87, 88, 89, 90. FD 91 WILL SEE ME AS JUST AN OPERATOR - LOGGER - DUPER. 73'S TO ALL AND AGAIN THANKS FOR YOUR HELP. SEE YOU AT THE MEETING.

ART...KA2DOT - CHAIRMAN FIELD DAY 90
 'INX...KB2COB-A BBS



August, 1990

G.C.A.R.C



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 GCARC GENERAL MEMBERSHIP MEETING 20:00 HRS WOODBURY VFW HALL PSE ATTEND	2	3 LUNCH 5 POINTS DINER	4
5 GCARC ARES/RACES NET 147.78/18 RPT 224.66 RPT 20:00 HRS	6	7 GCARC 10 METER NET 21:00 HRS 28.350 MHZ USB PSE CHECK IN	8	9	10 LUNCH 5 POINTS DINER	11
12 GCARC ARES/RACES NET 147.78/18 RPT 224.66 RPT 20:00 HRS	13	14 GCARC 10 METER NET 21:00 HRS 28.350 MHZ USB	15 GCARC BOARD OF DIRECTORS MEETING 20:00 HRS CLUB SITE ALL ARE WELCOME	16 FCC EXAMS BELL MAUR COMMUNITY CENTER BELL MAUR, N.J. 19:00 HRS SHARP	17 LUNCH 5 POINTS DINER	18
19 GCARC ARES/RACES NET 147.78/18 RPT 224.66 RPT 20:00 HRS	20	21 GCARC 10 METER NET 21:00 HRS 28.350 MHZ USB	22	23	24 LUNCH 5 POINTS DINER	25
26 GCARC ARES/RACES NET 147.78/18 RPT 224.66 RPT 20:00 HRS	27	28 GCARC 10 METER NET 21:00 HRS 28.350 MHZ USB	29 DEADLINE FOR CROSSTALK	30	31 LUNCH 5 POINTS DINER	



VISIT YOUR CLUB SITE
ALL WELCOME

