



PORTAGE AMATEUR RADIO CLUB



"Public Service Through Amateur Radio"

May/June 2000

Summer is On The Way

Editor - KB8UUZ

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- 2-Roger Steiner-KB8JHS
- 3-Steve Georges-N8XIB

P.A.R.C. Nets & Repeaters

ARES Net - Sunday - 8:30pm
145.390 MHz

Simplex Net - Tuesday - 9pm
145.680 MHz

Club Repeaters

145.390 MHz

442.875 MHz

Located in Ravenna, Ohio

The PARC newsletter is issued 6 times per year.

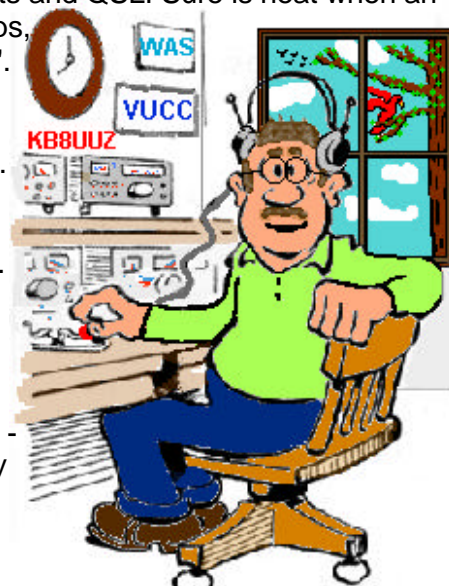
Contact Tom - KB8UUZ to submit your inputs for the newsletter.

April 15th came and went. Along with taxes being due, many Amateur Radio Operators took advantage of the new restructuring. Congratulations to all of you that upgraded to General and Extra Class. Now the fun begins, GET ON THE AIR - USE THE NEW PRIVILEGES!!! We need more Amateurs on the bands - All the bands. Get involved with community activities that use the amateur bands so more people know just how important it is that Amateur Radio is there for public service (as well as a heck of a lot of fun). Probably the most overwhelming thing a new General notices is there a lot more spectrum to transmit on. It really sinks in the first few times you scan your new frequency allocations. But - don't stop there UPGRADE! Go for Extra Class and you'll have all of the Amateur Radio bands for your use. You don't need a KW of power and a super beam on a 100 ft tower to work the world. 100 watts and less on a dipole strung up will do wonders! Go For It!! Don't forget the VHF and UHF areas and the newer digital modes like PSK31. That looks like it could be a lot of fun on low power, and the information I've been reading says you can make contacts - good contacts - when you can barely hear the signals! While your making all these new contacts, don't forget to QSL. For those of you interested, there is much pleasure to be had while you're 'paper chasing'. Get that WAS (Worked all states), VUCC (VHF Century Club), DXCC (DX Century Club), WAZ (Worked all Zones), USA-CA (Worked All US Counties), AND MORE!!! There are also plenty of foreign awards available. You gotta make contacts and QSL! Sure is neat when an envelope arrives with those foreign stamps, or a thick envelope arrives from the 'Buro'.

Enough of this talk, get that wire up there in the trees, and use those new bands your allowed to be on and make contacts.

THE WORLD IS WAITING FOR YOU!

Keep the hobby going, get a new person interested and involved in Amateur Radio. Some like contests, some like digital, some like rag chewing, some like DX'ing, some like local repeater use, some like community service, and yes - some like using CW! What ever you like is out there - go for it! Above all, enjoy this great hobby of ours. Until next time - Take Care & 73



Tom - KB8UUZ

SECRETARY'S CORNER

The Portage Amateur Radio Club has experienced a wonderful Spring, SO FAR!! Guys and Gals have been busy getting their calendars marked with up-coming events. The Club will definitely be involved with this year's FIELD DAY June 24th and 25th. This year, as in the last few years, the club (and national) event will be held at Dave (N8IIQ) and Barb's QTH on Bartlett Road in Mantua, Ohio. This year the Club bus will feature the new ATV SYSTEM under the direction of Roger, KB8JHS and his committee. We will discuss more about Field Day at the upcoming Club meeting , May 24th. As usual, if you missed the last monthly meeting of the Portage Amateur Radio Club, YOU missed a good meeting. We welcomed Douglas Suhre, KC8OHQ, from S.R.88, Ravenna, Ohio. Doug is a retired Park Officer for the Punderson State Park. Having paid the proper amount dues and having been properly recommended , Doug, was voted unanimously a member of our CLUB! For those of you going to DAYTON this year enjoy the Hamvention, and don't forget to pass out those PORTAGE HAMFAIR fliers! We have been informed that early in June there will be an LEPC drill and our Club will be involved, we especially would like to have our ATV system in this drill. May 7th will be completion workday and test run for the system under the direction of committee chairman, Roger, KB8JHS. We discussed up-coming hamfests, events, and how our members will be involved. , AND, how the last event Children's Love Walk went in Kent this past month. We discussed how many of our members have up-graded since the license restructuring and hopefully, if we receive all the information, we will have an updated ROSTER in the next Newsletter. Some information to share was passed on by Roger, KB8JHS..to look at your property on the computer web , just put in the following: www.topozone.com or www.terraserver.com Well, that's it for this time. See you at the next club meeting! CU

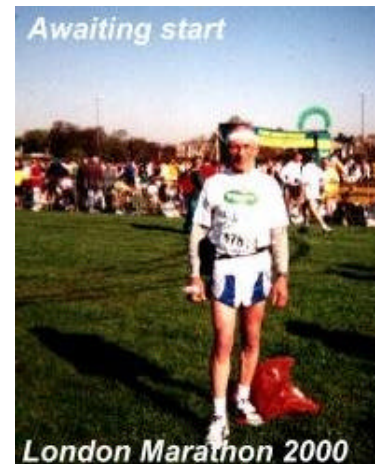
Joanne - KJ3O Secretary – Treasurer

FROM OUR U.K. CORRESPONDENT

London Marathon 2000 A runners view

Well some of you may have read my last article in the club magazine, where I wrote about my entry into the prestigious World famed "London Marathon". It is staged each year in the City of London, the race route being twenty-six miles, two hundred and fifty meters, taking in most of the historical sights of the Capital. This year saw a record applied entry of a estimated number of ninety thousand people all wanting to take part in this the 20th Anniversary of the race, my daughter and I ,were proud to be among the 31,000 competitors who finally started the race. It was a beautiful sunny Sunday morning little chilly with the chill factor at around 6c (42f) as we all took up positions for the start at 9.30 am. As there so many people taking part, three start points were allocated, myself

starting on the green line, and my daughter starting on the blue line, there was also a red start with a further few thousand runners lined up, the elite runners lining up way out in front. At 9.30 sharp all runners were away, the time had started for each and every one of us, there were many runners already away in front of me before I actually got to the start line so I was already losing valuable race time, but I was not altogether worried about fast time, after all I had a very long race in front of me. All the way around the race route, thousands of spectators lined the roads, cheering us all on ,the atmosphere was something to behold, every mile there were water stations each side of the road, where we were handed plastic bottles of spring water, and at every five mile point were the official stamina drinks of "Liquid Power" the official drink of the "London Marathon." And how we all needed those refreshers the further we got into the race. At the 10km point (6miles) my time was clocked at 64mins 30secs. The first famous place we ran past was Greenwich, this where the World clocks take there time from (GMT all you hams have heard of this one I am sure?) Moored alongside the Greenwich dock is moored the famous old sailing ship "The Cutty Sark". all at the 7 mile mark of the race. Running on through all the roads closed to traffic, we came to our next interesting point at 12 .4 miles, Tower Bridge spanning the River Thames, the crowds were thicker at this point, TV cameras transmitting



pictures all over the Country and the World as we ran on past the walls of the famous Tower of London, to the 13miles point. My time here was clocked at 2hrs 22mins 13secs. at experienced a slight pain in my left knee cartilage, but was still running. The area of the race we were now in, was the original London docks area which since the decline in shipping is being transformed into modern office blocks, and luxurious apartments, used by people such as Cher, and other such multi millionaire residents. As we approached the 35km point (22miles) the roads were littered with runners all sitting and laying by the side of the road, whose fatigue had finally caught up with them, dashing off too early at the race start being the cause I and several thousand



At Tower Bridge 12 miles

others carried on past them. It was at about the 23.5 miles mark, my knee began to get steadily worse, so I had to start walking and occasionally jogging, as we passed the Tower of London, I knew there was only around 4 miles to go, no way was I giving up at this stage of the race, on I went overtaking with my fast walk pace, runners who were struggling to stay on their feet, and then as we came up out of a underpass in the distance along the River Thames Embankment we saw the "Big Ben" clock tower on the "Houses of Parliament" we were nearly home, turning at the Houses of Parliament we headed the last 1 mile to "Buckingham Palace" turning in front of the palace, there was the finish line, oh what looked good, my time recorded at 5hrs 21mins 19 secs, I had completed the race of a lifetime, every long distance runners dream had been completed, I was elated as the officials placed the coveted London Marathon 2000 medal around my neck. I sat cooling off with my space blanket wrapped around my



body, watching for my daughter to arrive at the finish, had she beat me home I pondered, I could not see her and said a silent prayer that she would complete the race with no injuries. I dressed and made my way to our pre-arranged meeting

place in St James Park, there sitting at the base of the tree she sat, her medal draped around her neck, we embraced, I was surprised that I had beaten her to the finish by 10 minutes, that did not matter, after only starting into long distance road running in September 1999, we had progressed to our goal our first ever marathon. WE WERE NOW MARATHON RUNNERS. I can hear possibly, the young members of P.A.R.C. asking what took so long to run 26.2 miles? Well may I add, never underestimate the will power, or the determination of the older generation, after all I am only 69 years young, and there were two 98 year olds also competing hi hi.

Best 73 es 88

Don Bristow – G0EOH

Don't Forget – The regular meetings of the Portage Amateur Radio Club are on the 4th Wednesday of the month. Meetings start at 7:00 pm. Place: Portage County Justice Center - 8240 Infirmary Road, Shalersville, Ohio.

QSL to WHERE?

Now you have your upgrade, you get on the new bands, you make some nifty contacts... okay - where do I send the QSL card to? Direct, Buro, QSL Manager? Here are some web sites I have found that can really help you out:

QRZ www.qrz.com/

BUCKMASTER www.buck.com/cgi-bin/do_hamcall

WM7D Dadabase www.wm7d.net/fcc_uls/ulsquery.html

Finland <http://hes.iki.fi/oh/>

QSL Look Up Links www.ac6v.com/page2.html

ARRL Web Look Up www.arrl.org/fcc/fcclook.php3

QSL Info www.qsl.net/kt4or/links/qslinfo.html

Italy & others <http://qsl.425dxn.org/>

Russia www.stack.net/~victor/hamradio/qsl_buro.html

Germany www.pc.mdlink.de/70223102/RR_CALL.HTM

Multiple QSL Search www.ampr.spb.ru/multi/

SM5ARL Info For Hams www.algonet.se/~sm5arl/

Luxembourg www.qsl.net/lx1no/rl_callb.html

Lithuania www.qsl.net/lrmd/index.htm

QSL Net Home Page www.qsl.net/

Cuba www.infocom.etecsa.cu/www/frc/portada3.htm

Island Chaser's Page www.micronet.fr/~smorice/

Pathfinder QSL Search www.qsl.net/pathfinder/

Tom - KB8UUZ

KEITH BECK - N8VVE - Community Service

PARC member and long time American Red Cross volunteer was recently highlighted in the Record Courier newspaper from Ravenna. The article outlines Keith's almost 39 years of disaster volunteer work and his devotion to helping those in need. He volunteers to be on call 100 hours a month and can be called out anytime day and night. He's been to fire, tornado, hurricane, and flood disaster sights all over the United States during his years of service. For all of his dedication and service, the American Red Cross



has honored Keith with several awards, including a special citation for exceptional volunteer service in 1998 and the Margaret Brigham Award for Distiguated Volunteer Service in 1999. Most recently he received the JC Penny Golden Rule Award for outstanding service to the local community. When Keith misses a PARC meeting - you can bet he's on the road volunteering for the American Red Cross and helping those in need. Congratulations to Keith for his most recent award! Next time you see him - just tell him 'thanks' - he'll understand and appreciate it.

VECs Struggle with Paperwork Mountain

Despite an infusion of temporary help, Volunteer Examiner Coordinators continue struggling to process the huge influx of exam session paperwork resulting from Amateur Radio restructuring. ARRL-VEC and W5YI-VEC continue to estimate that it is taking from three to four weeks from exam session to license grant. ARRL-VEC Manager Bart Jahnke, W9JJ, and his staff have been putting in a lot of overtime and weekend hours. Fred Maia, W5YI, cites a similar situation at his W5YI-VEC. "We've got mail buckets everywhere," he said. Jahnke and Maia say processing is proceeding as fast as possible. They urge amateur applicants to refrain from contacting either their respective VECs or the FCC to inquire as to the progress of individual applications. Applicants wishing to file a vanity call sign application or to upgrade their Volunteer Examiner status cannot do so without a license grant from the FCC reflecting the applicant's upgraded class. In a few cases, applicants are awaiting first-time amateur licenses and do not even have interim operating authority. Jahnke says the ARRL-VEC has caught up with the paperwork backlog from pre-April 15 test sessions. The ARRL-VEC served nearly 35,800 applicants between January 1 and April 14. It continues to deal with the nearly 16,000 applications logged in from April 15 through April 25. Jahnke points out that while VE teams have 10 days to ship session paperwork, transit times can be as long as a week. Once keyed in and sent on electronically to the FCC, most applications are granted overnight. Jahnke says the care ARRL-VEC takes in checking VE session paperwork and applications for "completeness, accuracy and integrity" pays off in avoiding problems down the road. Statistics to date suggest a total of more than 13,000 new Generals and more than 10,000 new Extra class hams as a result of restructuring.

From the ARRL

KB8VJL/AG

Alan KB8VJL made General and we celebrated his new license class in a pretty nifty way. We had talked about it, and on May 6th between 0106 and 0223 UTC, Alan using his /AG call sign and I made contact on all of the SSB HF Bands! Yes - we worked on: 160M, 80M, 40M, 20M, 17M, 15M, 12M and 10M. We even got on 10M FM. We were fortunate that the propagation and ground wave conditions were such that we could make contact on all of these bands even though we are pretty close to each other. A couple of days later we tried 30M CW, but just could not pull each other out well enough to make a confirmed contact. We'll keep trying. But at least we made All SSB!!! So get out there and see who you can contact with your new privileges just like Alan did!

Tom – KB8UUZ

SEASONED WITH LOVE

THAI CHICKEN

8 chicken thighs (about 2 pounds) skin removed
¾ hot salsa
¼ cup peanut butter
2 tpsp lime juice
1 tbsp soy sauce
t tsp grated gingerroot
¼ cup chopped peanuts
2 tablespoons chopped fresh cilantro

1. Place chicken in 3 ½ to six quart slow cooker. Mix remaining ingredients except peanuts and cilantro . Pour over chicken.
2. Cover and cook on low heat setting 8 to 9 hours or until juice of chicken is no longer pink when centers of thickest pieces are cut. Remove chicken from cooker, using slotted spoon; place on serving platter.
3. Remove sauce from slow cooker; skim fat from sauce. Pour sauce over chicken. Sprinkle with peanuts and cilantro. Servings 4

Vivian – KB8CLH

SWAP-N-SHOP

Tom Rees has some pretty nice gear that is looking for a new ham shack. Tom recently upgraded his radio equipment and needs to make some room:
ICOM - 706 MK II, All Bands - 160 - 2 meters.
Yaesu - FT-890-AT - 10-160 Meters all Bands, all Mode WITH an automatic tuner built in.
Alinco - 35 AMP Power Supply with meters.
Cushcraft R7 Vertical antenna - 10 through 40 meters.
Cushcraft A4S Triband beam - 10/15/20 meters.

Call Tom Rees at 330-626-3933 to work out a deal.

PLEASE PAY YOUR YEAR 2000 DUES

Please support YOUR club, help pay for the repeater and many other worth while club activities. While your thinking about it – fill out the membership form now, and send to:

Portage Amateur Radio Club
c/o: Joanne Solak - KJ30/8
9971 Diagonal Rd.
Mantua, OH 44255

BAND PLANS

Since there are many people upgrading, and new hams are coming on the air, I thought it would be good to publish the HF band plans so everyone remembers what you can do in certain areas of our spectrum.

Reprinted from "The Considerate Operator's Frequency Guide", January 1995 QST and the ARRL Repeater Directory. Copyright 1994 by the American Radio Relay League, Inc. All rights reserved. This information is for quick reference only - refer to the band plan listings in the Operating Manual, The FCC Rule Book or the ARRL Repeater Directory for full details.

160 Meters (1.8-2.0 MHz):

1.800-1.830 CW, RTTY and other narrowband modes
1.830-1.840 CW, RTTY and other narrowband modes, intercontinental QSOs only
1.840-1.850 CW, SSB, SSTV, other wideband modes, Intercontinental QSOs only
1.850-2.000 CW, phone, SSTV and other wideband modes

80 Meters (3.5-4.0 MHz):

3.590 RTTY DX
3.580-3.620 RTTY
3.620-3.635 Packet
3.790-3.800 DX window
3.845 SSTV
3.885 AM calling frequency

40 Meters (7.0-7.3 MHz):

7.040 RTTY DX
7.080-7.100 RTTY
7.171 SSTV
7.290 AM calling frequency

30 Meters (10.1-10.15 MHz):

10.130-10.140 RTTY
10.140-10.150 Packet

20 Meters (14.0-14.35 MHz):

14.070-14.095 RTTY
14.095-14.0995 Packet
14.100 NCDXF Beacons
14.1005-14.112 Packet
14.230 SSTV
14.286 AM calling frequency

17 Meters (18.068-18.168 MHz):

18.100-18.105 RTTY
18.105-18.110 Packet

15 Meters (21.0-21.45 MHz):

21.070-21.100 RTTY
21.100-21.110 Packet
21.340 SSTV

12 Meters (24.89-24.99 MHz):

24.920-24.925 RTTY
24.925-24.930 Packet

10 Meters (28-29.7 MHz):

28.000-28.070 CW
28.070-28.150 RTTY
28.150-28.190 CW
28.200-28.300 Beacons
28.300-29.300 Phone
28.680 SSTV

29.000-29.200 AM
29.300-29.510 Satellite Downlinks
29.520-29.590 Repeater Inputs
29.600 FM Simplex
29.610-29.700 Repeater Outputs

From the ARRL

UPCOMING HAMFESTS

4 Jun 2000- Breezeshooters ARC -
<http://www.breezeshooters.net> - Contact: H. Rey Whanger, W3BIS - 120 Cove Run Road - Cheswick, PA 15024 - Phone: 412-826-8006

11 Jun 2000 - Twenty Over Nine ARC - Contact:- Don Stoddard, N8LNE-55 South Whitney-Youngstown, OH 44509 - Phone: 330-793-7072 - Email: n8lnel@juno.com - Canfield, OH

11 Jun 2000 - Goodyear ARC - Contact: Fred Mealy, KC8BQX-PO Box 1264 - Bath, OH 44210 - Phone: 330-665-4563 - Email: fmealy@earthlink.net

9 Jul 2000 - North Hills ARC -
<http://www.nharc.pgh.pa.us> - Contact: Keith Ostrom, KB3ANK - 205 Poplar Drive - Pittsburgh, PA 15209 - Phone: 412-821-4135

GPS JUST GOT BETTER

STATEMENT BY THE PRESIDENT REGARDING THE UNITED STATES' DECISION TO STOP DEGRADING GLOBAL POSITIONING SYSTEM ACCURACY THE WHITE HOUSE. Office of the Press Secretary For Immediate Release May 1, 2000 - Today, I am pleased to announce that the United States will stop the intentional degradation of the Global Positioning System (GPS) signals available to the public beginning at midnight tonight. We call this degradation feature Selective Availability (SA). This will mean that civilian users of GPS will be able to pinpoint locations up to ten times more accurately than they do now. GPS is a dual-use, satellite-based system that provides accurate location and timing data to users worldwide. Originally developed by the Department of Defense as a military system, GPS has become a global utility. It benefits users around the world in many different applications, including air, road, marine, and rail navigation, telecommunications, emergency response, oil exploration, mining, and many more. Civilian users will realize a dramatic improvement in GPS accuracy with the discontinuation of SA. For example, emergency teams responding to a cry for help can now determine what side of the highway they must respond to, thereby saving precious minutes. This increase in accuracy will allow new GPS applications to emerge and continue to enhance the lives of people around the world.

Thanks to AMSAT BB

FCC OPENS ULS TO WEB APPLICATIONS



ARRL Bulletin 24 - From ARRL - May 9, 2000 - To all radio amateurs: Amateurs now can file ULS applications via the Web. The FCC opened ULS to Internet filers on April 29 and formally announced the system this week. ULS users now can file

applications and notifications via the Internet for all services previously only available by dial-up connection to the Commission's Wide Area Network. To access the new capability, visit the ULS home page at <http://www.fcc.gov/wtb/uls> and click on "Online Filing." The ULS--the FCC's interactive on-line licensing application, modification and renewal system for wireless telecommunications services--was deployed for the Amateur Service last August 16. Many ULS users had requested the ability to access ULS through the Internet in order to utilize their high speed Internet connectivity. The system now has the technology in place that assures the integrity and security of data transmitted over the Internet along with high speed connectivity. The FCC says that to make online payments requires that users be running the 128-bit encryption version of Netscape, Ver 4.73. The FCC currently supports only recent versions of Netscape for online filing tasks but says that support for other browsers and platforms is in the works and should be available shortly. Dial-up access continues to be available.

From the ARRL

SKYWARN UPDATE - OVERPASSES

A very popular video clip has many people seeking shelter from severe weather under highway overpasses. BAD MOVE! The video clip in question shows a camera crew trying to outrun an oncoming tornado. Then, when it got too close, they ducked under the girders of a nearby overpass, with camera rolling. They emerged with hardly a scratch. The resulting spectacular footage had many believing these bridges were the ultimate storm shelter. Unfortunately, others who have tried this since have not been so lucky, in fact, some people have died when this practice failed to protect them. As unbelievable as it may sound, there have been reports of people leaving buildings seeking shelter under bridges, when tornadoes approached. There were several factors that may have caused the original event to give a false sense of security. The tornado was relatively weak. It may not have been a



direct hit. The overpass was of a design that provided "extra" shelter in a pocket between girders. Not all bridges are designed this way. They got LUCKY! Now, weather researchers and others who know the nature of the beast are trying to discourage the use of overpasses as shelter in a tornado. Their recommendation is that a ditch may actually provide better shelter. Some feel that the opening under a bridge may actually serve to increase wind speed and create a suction that may pull victims out. The bottom line is that it seems the age old recommendations still apply. It's best to find a sturdy building for shelter. If you don't have time to find a building for shelter, lie flat in a ditch and cover your head. Of course, it's best to think about taking shelter well before you get into this kind of dire situation.

Mike Nie

March 5, 2000 - Southern Ohio Skywarn Web Site

HAMS IN OHIO

Here is the breakdown of current FCC amateur licenses held by individuals in the State of Ohio. This includes FCC actions through Monday, 08-May-2000

Novice	Tech	Tech-Plus	General	Advanced	Extra	Total
2120	8808	6810	4695	4358	3335	30126

I'll keep tabs on this and update you in a few months. We'll see how many new hams come in to the hobby, and how many upgrade.

Tom - KB8UUZ

HELP - SEND YOUR INPUTS

I can always use your inputs for the newsletter. Contact me by mail or at kb8uuz@arrl.net Can't always guarantee your info will make it in right away - but I will sure try.

FIELD DAY - 2000

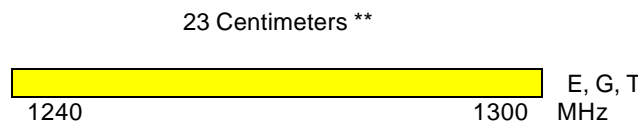
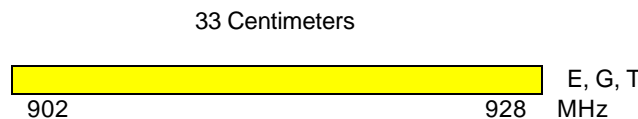
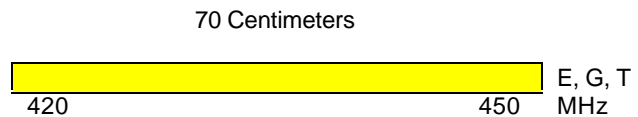
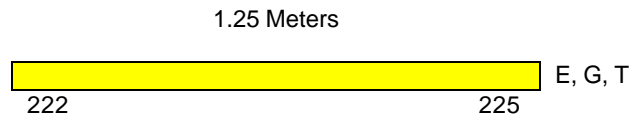
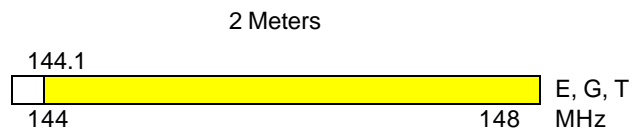
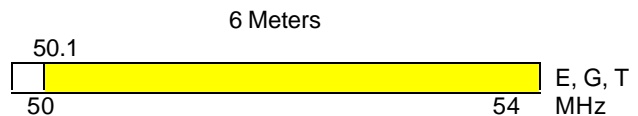
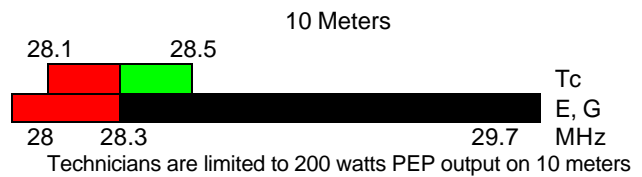
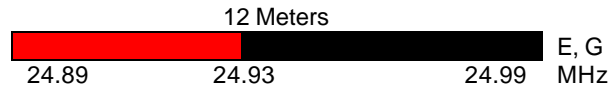
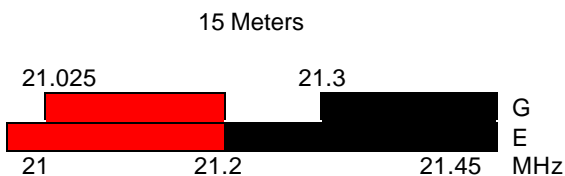
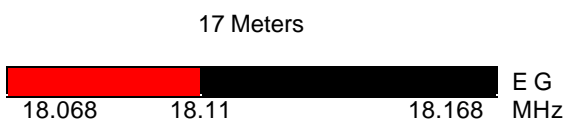
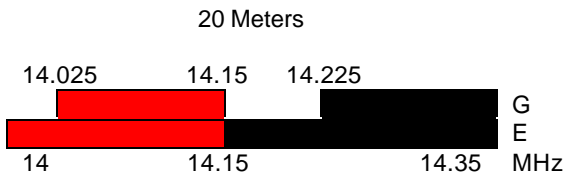
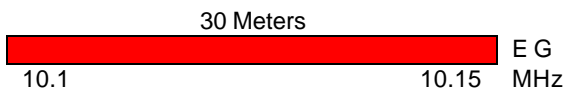
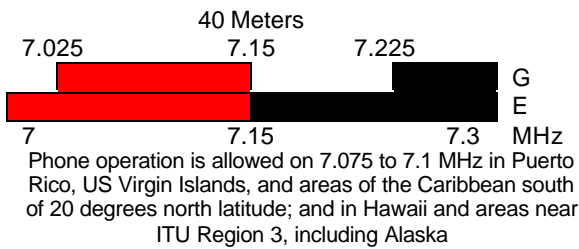
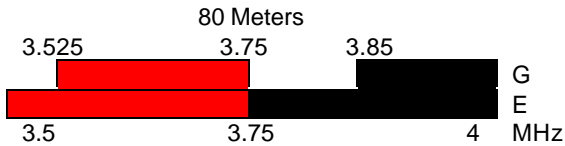
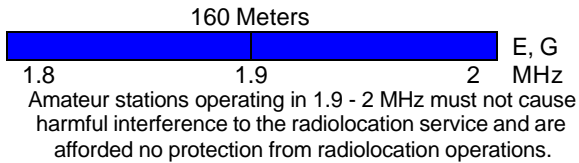
Don't forget Field Day 2000. The PARC members will be out in force on the weekend of June 24 & 25th. Our field day site will be at Dave's - N8IIQ backyard QTH. Please stop out and say hello. Even if you don't get on the air, you can sit, relax, and shoot the breeze with other PARC members. As always, it will be fun for all. More details will be talked about at the next PARC meeting (May 24th).



PARC Newsletter
May/June 2000
Page 6

U.S. AMATEUR RADIO BANDS

April 15, 2000



T	Technician
Tc	Technician with 5 wpm Code
G	General
E	Extra Class

KEY

	CW, RTTY, data
	CW, RTTY, data, MCW, test, phone, image
	CW, phone, image
	CW, phone
	CW, RTTY, data, phone, image
	CW Only

NOTE: This does not show Novice & Advanced bands which are still in effect (no new Novice or Advanced licenses will be granted, however, current holders of Novice or Advanced may re-new and stay at their same privileges).

Technician with 5 wpm license will only show class as Technician (pending suggested change to FCC to have Tech Plus be shown in FCC database).

Portage Amateur Radio Club Membership Application



Name: _____ Call Sign: _____ Class: _____

Address: _____ City: _____ State: _____

Zip Code: _____ Home Phone: _____ Age: _____

Packet Address: _____ E-Mail Address: _____

ARRL Member? Yes No ARRL Membership Expires: _____

Additional family members living at home who are -or- want to be, club members:

	Name	Call	License Class	ARRL Member?
1	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
2	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
3	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No



Employer: _____ Location: _____

Occupation: _____ Work Phone: _____

Married: _____ Number of Children: _____ Year First Licensed: _____

List your interests in Amateur Radio: _____

Are you a member of Amateur Radio Emergency Services (ARES)? Yes No

If not a member of ARES – would you like to join? Yes No



Please check the Bands and Modes you have the equipment to operate on:

Band	160	80	40	30	20	17	15	12	10	6	2	1.25	70cm	33cm	23cm
Freq	1800-2000 kHz	3500-4000 kHz	7000-7300 kHz	10.100-10150 kHz	14000-14350 kHz	18068-18168 kHz	21000-21450 kHz	24890-24990 kHz	28-29.7 mHz	50-54 mHz	144-148 mHz	222-225 mHz	420-450 mHz	902-928 mHz	1240-1300 mHz
AM															
FM															
SSB															
CW															
Mobile															

Do you operate (circle): RTTY Packet ATV EME Other (list): _____

What do you like about PARC?: _____

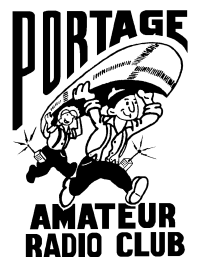
What changes or improvements would you like to see made?: _____

Single Membership - \$12.00 Family Membership - \$15.00 Annual Dues are due January 1st

Signed: _____ Date: _____

Mail to: Portage Amateur Radio Club
c/o: Joanne Solak – KJ3O/8
9971 Diagonal Road
Manuta, OH 44255

Any Questions – Call Joanne at: 330-274-8240



The Portage Amateur Radio Club meets the 4th Wednesday of each month at 7:00 PM
PORTAGE COUNTY JUSTICE CENTER, 8240 Infirmary Road, Shalersville, Oh.

Guests are always welcome!

For more information contact Joanne or Larry Solak at: 330-274-8240.

P.A.R.C. Repeaters: 145.39MHz. 442.875MHz. Located in Ravenna, Ohio



HAMFAIR® '00 is JULY 30, 2000

Never too early to mark your calendar!

P.A.R.C. Website: <http://www.parc.portage.oh.us/>

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Portage Amateur Radio Club
Joanne Solak - KJ3O/8 - Secretary
9971 Diagonal Road
Mantua, OH 44255



This is the electronic version of the PARC Newsletter. The advantage to getting the newsletter is you get all the COLOR pictures, and the club saves on postage and copy fees. We encourage anyone to get the newsletter by e-mail. If you know of another person that would like to get on the e-mail list – please drop me a line and I'll add them to the list – FREE. What a deal – FREE!!!

Take Care & 73 – Tom – KB8UUZ

e-mail me at: kb8uuz@arrl.net

**"Public Service"
Through Amateur Radio**