

FEEDBACK



JANUARY 2000

VOLUME 45 NUMBER 1



WELCOME TO THE NEW MILLENNIUM

JANUARY MEETING SPECIAL NOTICE !!!

- SHORT SKIP -

The meeting for the month of January will **NOT** be held at the Senior Center, instead we are to meet for our Annual Awards Banquet Dinner at **Abby Road Restaurant** at 1008 Ninth Street SW in Massillon, Ohio, on **January 8, 2000** at 6:30 PM, with dinner to start at 7:00 PM.

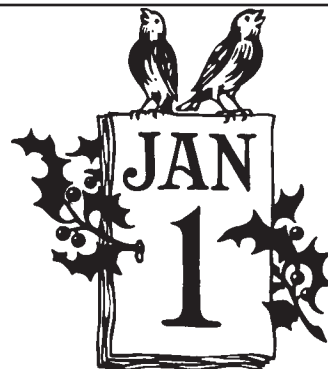
You should have been contacted by one of the Trustee's or Officer's by the time you read this, however, if you haven't, please contact Dennis, N8UDL, to make reservations ASAP. You can contact him by leaving a message on his answering machine at 484-5536, or by E-Mail at dhamilton@neo.rr.com. You must make your reservation no later than January 5, 2000. Please refer to last month's issue of Feedback for menu selection and price.

A good time is in store for everyone. Some good food, some entertainment, and some serious Awards will be given out and some not so serious awards will be given out. Our guest speaker for the event will be Joe Quaranta, Director of Disaster Services, American Red Cross, Central Stark County Chapter, Canton, Ohio. Also on hand will be Mr. Bruce Robinson who is the Disaster Services Director, Western Stark County Chapter, American Red Cross. Speaking of who's who, we will also have Nancy Johnson (Director of The Massillon Senior Center) and her husband as guests.

So plan on attending this year's Awards Banquet. It will be a great night out for you and the XYL, fantastic food and a whole lot of fun for the entire family. What more could you ask for? See you there!!

Well we made it past the "end of the world," (Y2K) unless of course it actually happened and we are simply living a non - physical existence in some parallel universe. Rumor has it our next hurdle is I believe in May when the planets are in alignment. This is supposed to cause the Earth to reverse its magnetic poles and plunge us all into a pre - historic world of volcanic eruptions, floods and etc. In any event, as hams we must be prepared. Remember, it wasn't raining when Noah built the ark !

73 DE WB80WM



LATE BREAKING NEWS SEE PAGE 4!

HAPPY NEW YEAR 2000

M.A.R.C. MINUTES

DEC.3,1999

The meeting of the M.A.R.C. was called to order at 8:08 P.M. by the President Don,W8DEA with the Pledge of Allegiance and a round of introductions. There was 32 members and guests present.

A motion to accept last months secretaries report as printed in the Feedback was made by Jeff KC8KIX and seconded by Byron KF8UN. A vote in favor was accepted.

Dennis N8UDL gave the treasures report. A motion to accept was made by Gene W8KXR and seconded by Dennis K1FFA.

Correspondence was read by Perry W8AU.

OLD BUSINESS

Gary Kline WC8W reported that the January club meeting would be held at Abby Road Restaurant. and would be January 8, 2000. Open bar at 6:30 P.M. and the dinner at 7:00 P.M.. Price will be \$12.00 which includes tax and tip.

Byron KF8UN gave a report on the 10 meter contest, and other contests coming up which the Club will host in the Club Shack on the third floor of the Senior Center.

NEW BUSINESS

Election of Officers was held with following people running and the final results.

Treasure - Ann Ballinger N8GAF unoposed.

Secretary - Dan Anastis N8DZM, Juanita Roush KC8CQC, and new secretary Linda Finley K8MOO.

V.P. - Gene Beckwith N8KXR, and new V.P. DonFinley W8DEF

Trustee - Don Lebo K8DON, Juanita Roush KC8CQC, and new trustee Jim Farriss WA8GXM

The club is going to have classes this coming year for No Code Tech right up thru Extra and will be held all on same night. More on this latter.

The club needs volunteers for New Years Eve to help the Perry Township Police Dept. to get thru Y2K for communications backup. They will in turn give the club a police radio so we can communicate with them in the future.

Once again we would like to thank AT &T for yet another most generous donation to our club. We have recently received about 150 feet of Andrews 7/8's inch hard-line from AT & T. As I have said in the past, as far as I know, all members of our radio club has AT & T's unlimited 7 cent a minute long distance service. (hi) Most seriously, THANKS !

Minutes by Bob Kiplinger K8KIP

.... PUBLIC SERVICE REPORT !

FROM THE PREZ

As you read this Y2K has passed us and we are moving ahead into the New Millennium. For MARC I am looking forward to the Leadership for next year. My Congratulations to all the elected officers for next year. My thanks goes out to my fellow officers and all members for a great year in 1999 and a successful volunteer effort put forth for all events. Our annual dinner will have some awards on behalf of some of these events. Technology is the backbone of our hobby. It has evolved our lifestyles of today from handwritten paper to the digital lightwaves for communications into the future and beyond. I am sure our hobby will ride this wave well into the future where ever it may lead us. I hope that we can continue to get the young people involved not only to carry on but show leadership onto the next frontier in space and more down to earth Massillon Amateur Radio Club. That current members can inspire more Teens like Jason, KC8LIN and Heather KC8IUU to carry the knowledge of Ham Radio.

Somewhere in time back in grade school I was asked what I thought life would be like in the year 2000. Like many I believe we thought we would be flying around in a shuttle type from point A to point B. Future technology will bring us to that point and the computer will be the mobile rig of tomorrow.

Being a Ham Radio volunteer helping others will never go out of style. So in the year 2000 use the knowledge gained from your license and put it to use when the club asks you to volunteer. I know we can not all help everytime but if a member volunteers for at least one event yearly this helps our status as a special services club and saves time and possibly someones life.

Myself I can't begin to tell you how Ham Radio has helped me. From messages to my family from when I was overseas in the Navy for years at a time or for me to repay that honor for someone else. To call for help when I was hurt in an auto accident about 8 years ago or the many events to protect & also get help for injured folks in these events. I chose to serve and take hundreds of hours of training to be there ready in time of need. Waiting until a storm or accident happens then you step up and say I have a radio where can I help. People in Command will have you wait in the corner until last effort needed. Don't wait, make an effort to get some basic training with the American Red Cross or other agencies to help in time of need. Use Ham Radio Take Charge; Train and VOLUNTEER in the future.

Weclome to the New Millennium. Don ,W8DEA

Greetings and welcome to the new Millennium ! As we gear up for an exciting new year lets take a look at last years public service record. It was another busy year for the club in this area. Bicycle rides, drills, parades and others kept us busy last year. Lets look at some of the statistics from last years events. Throughout the year members of the MARC participated in 10 major events that totaled 265 hours of volunteer service. While this represents a tremendous effort I would like to point out it was handled by only 27 club members. Our roster is over 100 members strong, what were the rest of you doing ? Please consider volunteering some of your time this year to the many events we are asked to assist in. This represents a direct benefit to our community and one of the main reasons we continue to enjoy the many frequencies that are constantly in jeopardy from commercial interests. Aside from the Military, no other entity has as large a segment of the radio spectrum as does Amateur Radio Service. Did you note that last word, "Service". The many benefits we enjoy every day are a direct result of our tremendous record of public service to our fellow citizens, both here and around the world. We continue to exist as a hobby thanks to these efforts, not to how many countries we are able to work in a contest. All we would ask is you remember this the next time the call goes out at a club meeting to help in a public service event. Hey, you may even find out you like it !.

..... ECOMM 1 UPDATE

Finally finished !, at least the major construction phase anyway. The office area and secondary operations console was completed recently with the installation of the overhead storage cabinets, 12 square feet of bulletin board area, lighting, a 2 foot by 3 foot white board and along the back wall a 3 foot by 5 foot full color Stark County map under Plexiglas. The Citizens Band, Red Cross and a 100 watt six meter FM Midland Radio are fully installed and operational. A super job thanks to the Ecomm Crew !. What's next ? It may be time to enter the Equipment Phase of the project. Some of the equipment is currently only "on loan". While we appreciate this gesture on the part of some club members we should consider either purchasing this equipment or returning it. In the coming months I intend to meet with the Trailer Committee and come up with an equipment plan. More on this will be detailed in later columns. We are considering updating the packet station perhaps with a full size monitor for the laptop, the old Yeasu Memorizer is not fully compatible for packet operation. What about a new 2 meter radio just for packet ? Perry and Don are working to finish the ATV equipment and installing it in the trailer. Jim has been installing the many roof mounted antennas needed for the many radios installed.

Lots of little things to complete also. A display of the club's radio license, Red Cross and Commercial licenses that we are authorized to operate under should be displayed. What else ? Remember it was originally designed to be an emergency communications trailer and still serve our needs for

Field Day. I think we have done a pretty good job achieving both goals. When the weather breaks in the spring I think we will probably show it off at a club meeting. Perhaps an official dedication with a guest dignitary would be in order. I also hope to have some new pictures on the club web site soon.... and speaking of www.qsl.net/w8np.

..... MARC WEB SITE UPDATE

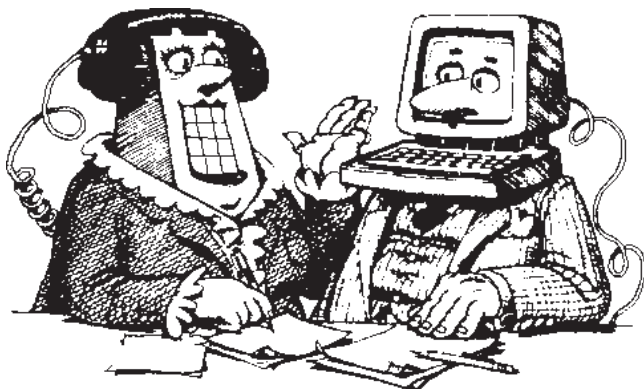
The counter has finally clicked over 100 web site "hits" so far the last time I checked so the site is being looked at occasionally. We haven't really made the site well known as yet since it was still undergoing construction, but I think we will soon begin listing the site on a number of search engines, other club web sites and with the ARRL. This should increase awareness and generate more interest. What has the webmaster been up to lately ?

New and revised material has been added to the "public service" and the "what's new" pages. Election results, the Award Banquet info are detailed. Some new information was also added to the Home Page, 2000 VEC information, new links to other interesting amateur radio club's web sites were also added as well as a comprehensive 2000 Hamfest listing. Ideas currently under development are a membership information page complete with a downloadable membership application, a complete copy of our Code of Regulations and a special new area that will describe our yearly Awards Program with a detailed list of all previous award recipients. A format is being decided upon that will allow previous issues of the club newsletter to be view or printed.

More links, more pictures and who knows what else is in store this year for the site. Let me know your ideas and feedback on the work we've done so far. Is there anything that we should remove ? What about an expanded Roster Page including address and phone numbers ? Let us know what you think !

That's it for now, see you next month !

Terry



EXTREMELY IMPORTANT LATE BREAKING AMATEUR NEWS !!!!

Amateur Restructuring is Here: Three License Classes, One Code Speed

NEWINGTON, CT, Dec 30, 1999—Amateur Radio will get a new look in the new millennium. The FCC today issued its long-awaited Report and Order in the 1998 Biennial Regulatory Review of Part 97—more commonly known as "license restructuring." The bottom line is that starting April 15, 2000, there will be three license classes—Technician, General, and Amateur Extra—and a single Morse code requirement—5 WPM.

"We believe that an individual's ability to demonstrate increased Morse code proficiency is not necessarily indicative of that individual's ability to contribute to the advancement of the radio art," the FCC said.

Besides drastically streamlining the Amateur Radio licensing process, the FCC said its actions would "eliminate unnecessary requirements that may discourage or limit individuals from becoming trained operators, technicians, and electronic experts."

Although no new Novice and Advanced licenses will be issued after the effective date of the Report and Order, the FCC does not plan to automatically upgrade any existing license privileges. The ARRL had proposed a one-time across-the-board upgrading of current Novice and Tech Plus licensees to General class, but the FCC declined to adopt the idea. This means that current licensees will retain their current operating privileges, including access to various modes and subbands, and will be able to renew their licenses indefinitely.

Starting April 15, 2000, individuals who qualified for the Technician class license prior to March 21, 1987, will be able to upgrade to General class by providing documentary proof to a Volunteer Examiner Coordinator, paying an application fee, and completing FCC Form 605.

The FCC's decision not to automatically upgrade Novice and Tech Plus licensees means the current Novice/Tech Plus HF subbands will remain and not be "refarmed" to higher class licensees as the ARRL had proposed. The FCC said it did not refarm these subbands because there was "no consensus"

within the amateur community as to what to do with them.

As it had proposed earlier, the FCC decided to lump

Technician and Tech Plus licensees into a single licensee database, all designated as "Technician" licensees. Those who can document having passed the 5 WPM Morse code examination will continue to have the current Tech Plus HF privileges. "If documentation is needed to verify whether a licensee has passed a telegraphy examination, we may request the documentation from that licensee or the VECs," the FCC said.

In addition to reducing the number of license classes from six to three and eliminating the 20 and 13 WPM code tests, the FCC also will reduce the number of written examination elements from five to three, authorize Advanced Class hams to prepare and administer General class examinations, and eliminate Radio Amateur Civil Emergency Service (RACES) station licenses. RACES will remain, however. "After review of the record, we conclude that we should eliminate RACES station licenses because RACES station licenses are unnecessary for amateur stations and amateur service licenses to provide emergency communications," the FCC said.

Under the new licensing scheme, there will be four examination elements. Element 1 will be the 5 WPM Morse code exam. Element 2 will be a 35-question written test to obtain a Technician license; Element 3 will be a 35-question written test to obtain a General license, and Element 4 will be a 50-question written test for the Amateur Extra license. The FCC has left it in the hands of the National Conference of VECs Question Pool Committee to determine the specific mix and makeup of written examination questions. Current Amateur Radio study materials remain valid at least until the new rules become effective in April.

The FCC's new licensing plan means someone will be able to become a ham by passing a single 35-question written examination. The plan also simplifies and shortens the upgrade path from the ground floor through Amateur Extra—especially since amateurs will only have to pass one Morse code test.

Elimination of the 13 and 20 WPM Morse requirements also means an end to physician certification waivers for applicants claiming an inability to pass the Morse code examination due to physical handicap.

The effective date provides a window of upgrade opportunity for current Advanced licensees. Between now and April 15, current Advanced holders may take the existing Element 4B, a 40-question test, giving them credit for having passed the current Extra written examination. Likewise, holders of a Certificate of Successful Completion of Examination (CSCE) for Elements 3B or 4B dated on or after April 17, 1999, will be able to qualify for General or Amateur Extra respectively when the new rules go into effect on April 15, 2000.

The FCC disagreed with the League's suggestion that it undertake a restructuring of operating privileges along with licensing restructuring. "We believe that in light of ongoing discussions concerning implementation of new and more modern communications technologies within the amateur service community, we should accord the ama-

teur service community an opportunity to complete such discussions and possibly reach a consensus regarding implementation of new technologies before we undertake a comprehensive restructuring of the amateur service operating privileges and frequencies," the FCC said in its Report and Order.

In its amendments to Part 97, the FCC's Report and Order refers to a "Club Station Call Sign Administrator," something that does not exist under the current rules and which was not explained in the R&O itself. An FCC spokesperson said the Commission plans to issue a Public Notice soon to explain the program and to solicit qualified entities to serve as call sign administrators for club station applications.

A copy of the entire Report and Order (FCC 99-412) is available at <http://www.arrl.org/announce/regulatory/wf98-143ro.pdf> or at http://www.fcc.gov/Daily_Releases/Daily_Business/1999/db991230/fcc99412.txt

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MARC TAKES ON EXPANED ROLE AT ANNUAL CHRISTMAS PARADE

Due to the demise (second time) of the Jaycees, the Downtown Massillon Merchants Ass'n asked us to do all the parade assembly and additionally to provide Parade Marshalls along the route.

Don Harwig, head of the Downtown Massillon group, apparently forgot to include us in the last meeting and when the Gutcher Family REACT showed up (AKA: Stark County REACT), he thought they were us and asked them to provide Parade Marshalls "in addition to your usual parade assembly." Ma and Pa Gutcher said, "who, us?" We've never done that. You must be thinking of the Massillon Amateur Radio Club." So, since the REACT group was NOW included for parade marshalling, we had to include them in our planning.

We scheduled a meeting with Ma and Pa Gutcher and laid out alternating parade assignments. They had only three people available and we used four of our own. It was an interesting experience, and we learned a few things.

The parade assembly went well, as usual. As Parade Marshalls we found we need some additional things from the Downtown Massillon Merchant group.... Since it isn't summer, Parade Marshall T-shirts would not work. Vests to wear over jackets would be the answer. Also needed are traffic cones along the WHOLE parade route, not just the first half. Don, W8DEA, had some difficulty controlling the unruly masses between McDonalds and 3rd. Street NW, where the parade ends. We also need MORE Parade Marshalls.

Thanks to the following for contributing their time and footwork to make this another successful parade:

Dan Anastis	N8DZM	3 hours	Parade assembly and Parade Marshall
John Edel	K8LBZ	3 hours	Parade assembly and Parade Marshall
Saundy Becker	N8TZB	2.5 hours	Parade assembly
Jerry LaRocca	KF8EB	3.5 hours	Parade assembly and Parade Marshall
Terry Russ	N8ATZ	3.5 hours	Parade assembly and MARC float Elf
Jim Farriss	WA8GXM	3.5 hours	Parade assembly and MARC float driver
Don Wade	W8DEA	3.5 hours	Parade assembly and Parade Marshall
Bill	KC8FLT	2.5 hours	Parade assembly
Don Finley	W8DEF	3.5 hours	Parade assembly and tear down
Linda Finley	K8MOO	3 hours	Parade assembly
Heather Finley	KC8IIU	3.5 hours	Parade assembly and MARC float Elf
Dennis Finley	K1FFA	3 hours	Parade assembly
Anne Ballinger	N8GAF	3 hours	Parade assembly

Perry Ballinger W8AU 8.5 hours Parade meetings, assignments, assembly and tear down

Jason Stroll KC8LIN 3.5 hours WHS-TV Ch 50 lineup changes and tear down

Parade assembly was done on 145.62 MHz and Parade Marshalls used the MARC 442.85 repeater.

As you can see, most of our volunteers did double-duty. For those who could stay around a short while, a refreshment gathering was held at noon at Carol K's Restaurant near 8th and Lincoln Way E.

Another year, another Parade.....C U again next year.....

Y2K BACK UP TOOL

This memo is to advise you of the general availability of a "Y2K Backup System" device designed to meet short-time emergency needs in case of a computer failure, or operational delay. This device is [the] Primary Emergency Network Computer Interface Liaison device (P.E.N.C.I.L.).

This device has been field tested extensively, including certification testing, as well as volume and stress testing. Properly maintained, the device meets all the requirements for coding and data input. Prior to use, the (P.E.N.C.I.L.) will require preparation and testing. Tools and supplies required will be: A sharpened knife or grinding device; and a supply of computer paper (with or without holes).

Gripping the device firmly in your hand, proceed to scrape or grind the wooded end until it has a cone-like appearance. The dark core area must be exposed to properly function.

Place a single sheet of computer paper on a smooth, hard surface. Take the backup device, place the sharpened point against the paper, and pull it across the paper. If properly done, this will input a single line.

CAUTION: Excessive force may damage components of the device or damage the data reception device. If either the P.E.N.C.I.L. or the paper are damaged, go back to the preparation instructions above.

Proper use of the device will require data simulation input by the operator. Placing the device against the computer page forming symbols as closely resembling the computer lettering system you normally use. At the completion of each of the simulated letters, lift the device off the page, move it slightly to the right, replace it against the page, and form the next symbol. This may appear tedious, and somewhat redundant, but, with practice, you should be able to increase your speed and accuracy. The P.E.N.C.I.L. is equipped with a manual deletion device. The device is located on the reverse end of the P.E.N.C.I.L. Error deletions operate similarly to the "backspace" key on your computer. Simply place the device against the erroneous data, and pull it backwards over the letters. This should remove the error, and enable you to resume data entries.

CAUTION: Excessive force may damage the data reception device.

Insufficient force, however, may result in less than acceptable deletion, and may require re-initialization of action as above. This device is designed with user maintenance in mind. However, if technical support is required, you can still call your local computer desk supervisor at (800)-YOU-DUMMY.

IN MEMORIAM

LOREN WILLIAM BECK W8LB

It is with deep regret that we report the passing of one of our dear members, Loren Beck W8LB age 61 years. Loren passed away on Tuesday December 14, 1999. in his residence. He was born in nearby Greentown, Ohio. He was a retired detective with the Akron Police Department, having served for over 30 years.

He is survived by his wife, Annabelle (Sullivan) Beck, his daughter, Mrs. Kimball (Anita) Morison of Akron; his brother Paul J. Beck of North Canton; nephew Keven Beck and niece Laurie D. Shaub, both of North Canton. Funeral services were held on Thursday December 16, 1999 with internment in the Brookfield Cemetery on Friday December 17, 1999.

Those of us who knew Loren will surely miss him. Our sincere condolences goes to Annabell and his entire family.



PROPAGATION FORECAST

ZCZC AP53
QST de W1AW
Propagation Forecast Bulletin 53 ARLP053
From Tad Cook, K7VVV
Seattle, WA December 30, 1999
To all radio amateurs

Solar flux and sunspot numbers declined over the past week. Average solar flux for the past seven days was nearly 35 points lower than the previous seven. The decline is expected to continue through the weekend, with predicted solar flux for Thursday through Saturday of 140, 135 and 130. Solar flux should rise again around next Wednesday, and hit 150 around January 8, rising about 10 points per day and then peaking around 210 on January 14 or 15.

Planetary A index for Thursday through Saturday is predicted at 10, 15 and 25, so the New Year should yield some geomagnetic disturbances. The geomagnetic field is expected to be at unsettled to minor storm levels through Monday due to recurrent coronal hole effects. This should quiet down again around January 5.

WN6K wrote last week about his web site devoted to graphs of solar and geomagnetic indices at <http://idt.net/~wngk19/index.html>.

Also check an MSNBC story about geomagnetic storms in the new year at <http://www.msnbc.com/news/251370.asp>. NASA has an article at http://www.space-science.com/newhome/headlines/ast29dec99_1.htm which talks about energy from solar wind squeezing the earth's magnetosphere.

N0ZOD, who is Section Emergency Coordinator for Minnesota ARES wrote this week to ask about propagation to the Far East on Friday night, when some US hams will be trying to contact hams in the area which first experiences the year 2000. Path projections for this week will concentrate on reaching the Far East from the United States on Friday.

Sunspot numbers for December 23 through 29 were 112, 149, 141, 125, 109, 77 and 123 with a mean of 119.4. 10.7 cm flux was 198.4, 182.4, 178.4, 177, 161.7, 150.4 and 143.7, with a mean of 170.3, and estimated planetary A indices were 5, 10, 10, 2, 6, 7 and 7, with a mean of 6.7.

Path projections for this Friday will be from the West Coast, East Coast, and center of the continental United States to New Zealand, Australia and Japan on 80, 40, 20, 17 and 15 meters.

From the West Coast to New Zealand, 80 meters 0700-1500z, 40 meters 0700-1530z, 20 meters 0500-1130z and 1500-1730z, 17 meters 1600-1830z and 0230-0330z, 15 meters 1900-2000z and 0130-0300z.

From the West Coast to Australia, 80 meters 0930-1600z, 40 meters 0830-1600z, 20 meters 0730-1230z and 1530-1830z, 17 meters 1630-2100z and around 1130z, 15 meters 1700-0400z.

From the West Coast to Japan, 80 meters around 0630z and then 0730-1630z, 40 meters 0530-1730z, 20 meters around 1630z and 2000-0430z and 0930-1130z, 17 meters 2130-0300z, 15 meters 2130-0200z.

From the Midwest to New Zealand, 80 meters 0700-1400z, 40 meters 0630-1430z, 20 meters 0500-1030z and 1400-1600z, 17 meters 1430-1800z, 15 meters 1530-0200z.

From the Midwest to Australia, 80 meters 0930-1430z, 40 meters 0900-1500z, 20 meters 0730-1030z and 1430-1700z, 17 meters 1530-1830z, 15 meters 1600-1930z.

From the Midwest to Japan, 80 meters 0630-1530z, 40 meters 0530-1630z, 20 meters 1530-1700z and 2100-0100z, 17 meters 2130-0030z, 15 meters 2130-2330z.

From the East Coast to New Zealand, 80 meters 0700-1300z, 40 meters 0630-1330z, 20 meters 0430-0930z and 1230-1500z, 17 meters 1330-1630z, 15 meters 1400-1800z and 2300-0030z.

From the East Coast to Australia, 80 meters 0930-1330z, 40 meters 0900-1400z, 20 meters 1400-1630z, 17 meters 1500-1900z, 15 meters 1500-2000z.

From the East Coast to Japan, 80 meters 0700-1330z, 40 meters 0600-1430z, 20 meters 1400-1730z.

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DX NEWS

ZCZC AE53

QST de W1AW

DX Bulletin 53 ARLD053

From ARRL Headquarters

Newington CT December 30, 1999

To all radio amateurs

This week's bulletin was made possible with information provided by Tedd, KB8NW, the OPDX Bulletin, 425DXnews, The Daily DX, DXNL and QRZ DX and Contest Corral from QST. Thanks to all.

CROATIA, 9A. Look for special Millennium station 9AY2K to be active from January 1 until December 31, 2000. QSL via 9A1A.

CHINA, BY. A group of Chinese amateurs are operating special Millennium station BT2000 until January 2. Activity will be on CW, SSB, RTTY, SSTV and PSK31 from Qushan Island, IOTA AS-137. QSL via BA4EG.

MOLDOVA, ER. Lysy, ER1LW, is active as ER2000L until January 20. QSL to his regular call. Meanwhile, ER2000D, is QRV on 80 to 10 meters using SSB. QSL via UT7ND.

GUADELOUPE, FG. Look for TO2000 to be QRV until January 3. QSL via ON4LCE.

ENGLAND, G. Look for M2000A to be QRV from the Greenwich Meridian. QSL via G4DFI.

ITALY, I. Special event station IR0MFP, the suffix short for Millennium For Peace, will be active until January 2. QSL via IK0AZG.

PAPUA NEW GUINEA, P2. Look for P2000K to be QRV until January 31. QSL via P29PB.

BRAZIL, PY. Ari, PT2BW, is QRV as special event station ZW2000 until January 3, 2000. Look for him using CW, SSB, RTTY, SSTV, PSK31 and Feld-Hell modes. QSL to his regular call.

AUSTRALIA, VK. The New South Wales Division of the Wireless Institute of Australia will be running special event station VK2000 from January 1 until December 31 to celebrate the Olympic Games held in Sydney.

ROMANIA, YO. The Romanian Amateur Radio Federation will activate special Millennium station YR2000 until January 2. QSL via bureau.

NEW ZEALAND, ZL. Ed, K8VIR will be active January 1 as ZM4IR from a mountain top location to celebrate the New Year. QSL this operation via W8WC. Meanwhile, the Hastings Branch Radio Club of the New Zealand Association of Radio Transmitters will be active as ZMY2K. QSL via bureau.

THIS WEEKEND ON THE RADIO. The ARRL Straight Key Night, 14th Internet CW Sprint, PSK31 Millennium Contest, SARTG New Year RTTY Contest and the Y2K QRP Contest will certainly keep operators busy as we enter into the New Year. Please see December QST, page 99, and January QST, page 100, respectively, for details.

NNNN

Introducing a Hamfest for the New Millennium ...

Mansfield, Ohio Mid*Winter Hamfest & Computer Show...

Sunday - February 13, 2000. 7:00am - 3:00pm. Flea Market with over 400 tables in four (4) modern heated buildings.

Richland County Fairgrounds Parking \$1.00

Sponsored by the IARC & MASER, Inc.

East Coast Radio scheduled to appear.

Talk-in: W8WE 146.94 (-) repeater.

Tickets: \$5.00 at the door.

Tables available, contact n8joz@aol.com write "Advanced Table Sales" in the subject line.

Tables \$10.00 in advance, table sales deadline February 1, 2000.

We invite you to visit our web site: www.maser.org

