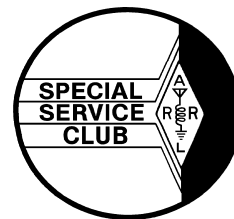


FEEDBACK



AUGUST 2000

VOLUME 45 NUMBER 8



AUGUST MEETING

The meeting for the month of August will be held at the Massillon Senior Center on August 4, 2000 at 8:00 PM.

We will discuss the VERY good results from this year's Field Day. As promised the score for The Massillon Amateur Radio Club's Field Day effort are as follows;

CW STATION

BAND	QSO's
80	266
40	132
20	165
15	122
10	15
<hr/>	
TOTAL	705

PHONE STATION (including 2 & 6 meters)

BAND	QSO's
80	67
40	287
20	472
15	57
10	13
6	101
2	7
<hr/>	
TOTAL	1004

Total QSO's; 1,709. Figuring Points: Total QSO points 2414 x Power Multiplier = Claimed Score 4828. Bonus Points : (to be added by the League; estimated ; 800)

ESTIMATED TOTAL SCORE = 5628

- SHORT SKIP -

Summertime and the living is easy. Should do some antenna work, but it can wait until later (December or January HI) . In the meantime a less burdensome task would be to check the expiration dates on our drivers and FCC licenses. Oh my, the dog days of summer
....

73 DE WB80WM



Field Day 2000 MARC E-Com trailer extended to it's full glory !

July 7, 2000 MARC MINUTES

The July meeting was held at the Senior Center with 23 members and guests present. The meeting was called to order by Perry W8AU at 8:05 P.M.

The Pledge of Allegiance was given and a round of introductions was made.

Perry W8AU asked for the reading of last months minutes be suspended. Motion was made by Dennis N8UDL and second by Kip K8KIP.

Treasurer Anne N8GAF gave the financial report. Motion was made to accept it by Bill W8HOU and second by Dennis N8UDL.

Don W8DEF read some of the ARRL report. He told where the upcoming Hamfests will be held., also when and where test sites will be for new licenses or for those who want to upgrade. He received an e-mail from The Mad River Radio Club, they will be sponsoring the 2000 running of the Ohio QSO Party, which will be held on Saturday August 26th, 2000 from 1200 EDT-2400 EDT.(1600-0400 Z) This is your one chance during the year where you can work all 88 counties in one day. The rules can be found at the OQP web site at <http://www.qsl.net/mrrc/oqp.html> . There will be a number of plaques awarded to the winners.

Don read some of the Bloopers from the movie Frequency.

A reminder was made that new members or renewals to ARRL can be paid through the club.

Perry read a note from Igor WB8KEO ,we too was glad to see him on Field Day.

OLD BUSINESS

Gary WC8W will be installing a Call Book in the new computer up in the shack.

The tuner used for Field Day wanted to fail on us at times. It is in need of repair or replaced. It is under warranty ,Perry will check into it.

NEW BUSINESS

Terry N8ATZ needs help in getting flyers out to other Hamfests. If anyone can help see Terry. Ordered tables for MARC Hamfest , getting things ready for October 29th. Need helpers setting up tables on October 28th.

Perry W8AU heard from ODOT . The next Safety Break will be Sept.15th. 16th. and 17th. We will be in the north bound lane again. If there are any changes Perry will let us know.

The meeting ended at 8:55 P.M. Everyone had refreshments and the 50-50 for \$10.50 was won by Rick K8RLW.

Minutes by Linda K8MOO Secretary MARC

SECRETARY'S NOTE: A BIG THANK YOU is in store for Charles Scherger KB8STV, who donated a Fluke Digital Multimeter for the Club's E-Com Trailer.

Also a BIG THANK YOU to Skip Westrich WB8OWM for his donation of the ARRL book Antenna Compendium No's 1 and 2 for the Club's Shack.

THANK YOU CHARLES AND SKIP !!

.... MARC Hamfest 2000

Hamfest 2000 is slowly taking shape with lots of work going on behind the scenes. As of July 13 flyer distribution is going well with nearly 1000 distributed so far at about 10 hamfests. Prizes have been decided and the ARRL has accepted our application to be an ARRL sanctioned event again this year. We hope to have a league representative with us again as well. Publicity always plays an important part of any successful hamfest and we have always excelled in this area by continually distributing flyers throughout the year, listing in nearly all ham related magazines, numerous websites and packet bulletin boards. New this year we will be sending a supply of flyers to both Amateur Electronic Supply in Cleveland and the Ham Radio Store in Columbus.

Very soon we will also send out a mass mailing to the various dealers and vendors who have attended over the past several years to remind them of our event and to give them an early opportunity to reserve their favorite spot. Two hundred tables and chairs have been reserved with an option to get a few more should table sales increase this year. Don't forget we will be setting up and arranging tables as usual on the Saturday before the hamfest. The date will be October 28th. Keep this open, we need the help !.

There is still lots to do before hamfest time and its never too early to begin preparations. The last several years we have been fortunate to have pretty good attendance but this doesn't happen without lots of work by a few dedicated club members who can always use your help. Please consider stepping forward to volunteer your time to help with this major club fundraiser.

.... IT'S AN ANNIVERSARY !

Did you notice the Sunday, June 25th announcement in the Massillon Evening Independent ? Congratulations go out to club member Don Lebo - K8DON and his XYL Betty Jean Lebo who celebrated their golden wedding anniversary July 2 with an open house at the McDonalville United Methodist Church where both are active members. Don has been an active member of the MARC for many years assisting in many club events. Congratulations go out to Don and Betty Jean on their 50th wedding anniversary.

.... CHECK OUT THESE NEW WEBSITES

Just a few days ago two new messages popped up on the clubs Email. The first was from Steve Kurtzman - W7SJK. Steve created "The Virtual Hamfest" (www.vhamfest.com), a web site chock full of classified ads, in an auction format similar to Ebay but totally dedicated to amateur radio. If you're looking for ham radio gear this might be a good place to start. The purpose of Steve's email was to announce a new addition to his site, hamfest listings. As soon as I complete the registration form, our hamfest will be added to his extensive listings.

The second email was from John Woodstock - K1DWU who maintains a general information website dedicated mostly to amateur radio. Known as the Ham Radio Newscenter, this site is full of interesting items, Ham Radio Trader items, Ham Radio News, Reference Material and something new to this site, a comprehensive calendar of Ham Radio Events. John has invited us to post our hamfest on his new section. I am in the process of doing this also. You are encouraged to check out John site at www.k1dwu.net. Both sites offer a number of interesting items and will give us a great way to advertise and promote our hamfest this year.

.... KONTEST KUDOS

Club member John Schaffner, K8LN has been active on the air again and scores honorable mention for the ARRL 160 meter contest. John racked up 8,466 points on 123 contacts and 34 multipliers. Congratulations John on a nice effort.

.... COMPUTER SHOW UPDATE

The Peter Trapp Computer Shows will make their August appearance on Saturday, August 19th at the Cuyahoga County Fairgrounds in Berea, Ohio. On Sunday, August 20th they will be at the Tadmor Shrine Temple in Akron, Ohio. Admission is \$ 6.00 and times are 10:00 AM till 3 PM. Full details and directions are available on their website at <http://www.petertrapp.com>.

Thats it for this month, till next time 73's

Terry, N8ATZ

TEN-TEC HOMECOMING HAMFEST

Saturday October 7, 2000 9 a.m. - 4 p.m. at the Ten-Tec factory, 1185 Dolly Parton Parkway, Sevierville, TN 37862.

To celebrate the beginning of our 32nd year in the amateur radio business, we're going to have a few hundred friends and neighbors over for a visit at the Ten-Tec factory this October and we'd like to invite you to come, too.

We're having a hamfest!

We'll be having an all day sale on new and used Ten-Tec equipment. Come tour the Ten-Tec factory. Meet all of the factory representatives. Door prizes! Get on the air with the latest rigs. Free admission and free tailgating. 15 acres of tailgating space available for all brands of used equipment. Bring your used ham gear and related electronics goodies! Tailgating setup begins at 7 a.m. on Saturday, October 7. There is no charge for admission to the hamfest or to tailgate - bring your vehicle and/or your own table for tailgating.

Plan a holiday weekend in the Sevierville/Pigeon Forge/Gatlinburg area. Ten-Tec is located 6 miles from Dollywood in Pigeon Forge, TN and 13 miles north of the main entrance to the Great Smoky Mountains National Park at Gatlinburg, TN. There are many tourist attractions in the immediate vicinity. For more information on local happenings, visit <http://thesmokies.com>

Directions from I-75 or I-40 west of Knoxville: Take exit 407 off I-40 approximately 17 miles east of Knoxville, TN. Go southbound on TN. route 66 for 9 miles into Sevierville. At the main intersection in town, make a left on highway 411 north. We are 2 ½ miles east of Sevierville on highway 411 north (Dolly Parton Parkway) on the right side, across the street from Sevier County High School. From I-40 east of Knoxville (NC, SC): From I-40 west, take the exit for Highway 411 to Sevierville just past Newport, TN. This exit is marked "U.S. 411 Sevierville". Follow 411 south (the road actually runs west) from Newport towards Sevierville. We are 19 miles from the point you exit I-40, on the left side of Highway 411 across the street from Sevier County High School.

The Ohio Section Journal, Ron Griffin, N8AEH, Findlay, editor

SECTION MGRS COLUMN

Traditions; Oh, What To Do With Them?

By Joe Phillips, K8QOE
Ohio Section Manager

In the musical "Fiddler On the Roof" Rev Tevea loves "Tradition." He sings so right at the beginning. Then for the rest of the musical, he must deal with a new world breaking traditions faster than rebel teenagers.

Like what we in amateur radio are doing right now.

While in the 90s, we were seeking new membership (no code licenses; restructured tests for the new digital modes); the FCC simply rewrote the rules (three not six license classes; only one easy code test).

And the early polls (lines at VE sessions) say, as a recruitment tool, it'll work. But what happens when these new hams arrive (and the old Techs have new General privileges)? Right now we have almost a century of amateur radio traditions. Now which get lost for the 21st century and which continue? Which traditions are broken as the new world spins on.

I wondered about all of this during ARRL National Convention at Dayton while we conducted the Royal Order of the Wouff Hong society initiation. Will the Wouff Hong's new members pass this experience to newly licensed hams like since the Society first meeting in 1921?

Do we remember that "Elmers" continue to be Ham Radio's most effective recruiting tool? Does anyone Elmer anymore - one on one recruiting?

Will proper traffic handling procedures - which take time to learn and require some discipline to appreciate - continue to be taught?

Who will remember color coding on resistors, when 807s weren't tubes, metallic capacitors, soldering guns, tiny 300 ohm twin lede, diodes, or tube sockets?

Then there is a language barrier being developed in simple HF operation. Those pre-70s hams from pioneer days of ham radio remember one set and the post-70s hams, recruited mainly from citizens band membership, have a slightly different lingo. These differences are especially noted on VHF repeaters.

As always the answers lie in how the new members are treated by the old. The experienced ham confronting a new, inexperienced member has TWO VERY BIG CHOICES. He or she can either instruct the inexperienced ham with the intent of getting a point across or instruct in a manner which demonstrates how intelligent the experienced ham is? The problem is how THE INEXPERIENCED HAM PERCEIVES the lesson is what determines effectiveness.

In simpler terms, what was the intent of correcting the new ham? To get the point across or to show how smart the old ham is? And the new ham is the one who gets to make this call.

DATES TO REMEMBER

For ECs and DECs, put Saturday August 26 down as your annual meeting with the SEC Larry Rain, WD8IHP. It begins at 10 a.m. at the Red Cross Center in Columbus - Pizza party and all.

Then the ECs and DECs can join the rest of us at the annual Ohio Section Conference, Saturday, September 16 beginning at 9 a.m. at the Ohio Emergency Management Agency in Columbus, just like last year with some new twists (although the pizza party will be the same).

Details in the next issue of the Ohio Section Journal

ACTIVE OHIO SECTION

Ever think there isn't much to do in this Section?

Check out the Ohio Section Cabinet listing.. Emergency operations, volunteer monitors of the bands, newsletter work, checking government laws, traffic (message) handling or technical specialists. Plenty of field appointments with the type of variety ham operators love. Members of the Cabinet who control these functions need you. Contact them. Get involved. Ham Radio has plenty for you.

ANOTHER OHIO NATIONAL CONVENTION

In case you like to plan, there will be another Amateur Radio National Convention in Ohio being planned. In August 2002, we will welcome the Young Ladies Radio League (YLRL) to Downtown Cleveland. Their local state affiliate is the Buckeye Belles.

A QST COLUMN JUST FOR US

Ohio's best kept secret. There is a column for Ohio Section News in each and every issue of QST, ham radio's national magazine. If you are an ARRL member, you get QST. Read and enjoy each issue, especially the Ohio Section news column.

PROPAGATION NEWS

ZCZC AP30
QST de W1AW
Propagation Forecast Bulletin 30 ARLP030
From Tad Cook, K7VVV
Seattle, WA July 28, 2000
To all radio amateurs

SB PROP ARL ARLP030
ARLP030 Propagation de K7VVV

Solar flux and sunspot numbers were down only slightly this week from last. Last week's average sunspot numbers were up over 40 points from the previous week, and this week's are down less than 7. But the big news this week should be the big peak in sunspot numbers on Thursday, July 20, when it reached 401. This is a rare, high number in any solar cycle, and the biggest so far in cycle 23.

A cursory examination of the data shows that the sunspot number has not been this high since August 23, 1991, when it was 478. Sunspot numbers over 400 suggest that we may be nearing the cycle peak.

The latest projection the author has seen for cycle peak is from the July 4 Preliminary Report and Forecast of Solar Geophysical Data from the NOAA Space Environment Center (on the web at <http://www.sec.noaa.gov/weekly/index.html>). It shows smoothed monthly solar flux peaking in August or September, but smoothed sunspot numbers peaking around next January or February.

The latest short term projections show some rough weather ahead for the weekend, with the planetary A index for Friday through Tuesday at 30, 25, 12, 12 and 10. Projected solar flux for those same five days is 160, 155, 155, 150 and 145. Solar flux should rise above 200 by August 4, then reach 230 on August 8-14, and peak around 235 on August 15-16.

WF7M wrote to ask about geomagnetic indices for Alaska. This is identified as the College index at gopher://solar.sec.noaa.gov/00/latest/DGD. These values are generally higher than the mid-latitude or planetary indices.

The author of this bulletin is off on a short vacation via train, and next week K9LA has graciously agreed to write the bulletin.

Sunspot numbers for July 20 through 26 were 401, 325, 290, 276, 215, 232 and 214 with a mean of 279. 10.7 cm flux was 252.9, 250.9, 251, 217.3, 224.8, 201.8 and 174.6, with a mean of 224.8, and estimated planetary A indices were 43, 9, 18, 20, 8, 7 and 20, with a mean of 17.9.

NNNN
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DX NEWS

ZCZC AE31
 QST de W1AW
 DX Bulletin 31 ARLD031
 From ARRL Headquarters
 Newington CT July 27, 2000
 To all radio amateurs

SB DX ARL ARLD031
 ARLD031 DX news

This week's bulletin was made possible with information provided by Tedd, KB8NW, the OPDX Bulletin, The 599Rpt, The Daily DX, 425DXnews and Contest Corral from QST. Thanks to all.

MAURITIUS, 3B8. Piero, F4AUT, has a new callsign of 3B8CO.

ZAMBIA, 9J. Bob, W6RJ, and his son Robert, W6KR, are QRV as 9J2RA using CW and SSB on 20 and 15 meters until August 3. QSL via K6SLO.

PAKISTAN, AP. Hasnat, AP2HA, has been QRV using RTTY on 21085 kHz around 1330z. Look for him from 1300 to 1500z.

PHILIPPINES, DU. Joe, DU1/K7JOE, is now active for the next two years from Manila. He is a high speed CW operator who tends to favor the newer bands. QSL to home call.

FRENCH POLYNESIA, FO. Phil, KH7FQ, is very active signing FO0MCC from Huahine, IOTA OC-067, until September. QSL to home call.

SCOTLAND, GM. Bill, M0BNN, will be active from Skye, IOTA EU-008, signing MM0BNN/p until August 2. QSL to home call.

ST. LUCIA, J6. Juha, OH1HX, will be active from August 1 to 6 as J6/OH1HX on 20, 15 and 10 meters, using CW and SSB. QSL to home call.

MIDWAY ISLAND, KH4. W8MV will be QRV as W8MV/KH4 from July 30 to August 5. Activity will be primarily on CW on the newer bands. QSL to home call.

BRAZIL, PY. Look for ZV7I to be QRV on July 29 and 30 from Itamaraca Island, IOTA SA-046. Activity will be on 40, 20, 15 and 10 meters using CW and SSB. QSL via PR7SD. Meanwhile, ZV2S and PW2S are QRV until July 30 from Comprida Island, IOTA SA-024, using CW and SSB on 80 to 10 meters, including the newer bands. QSL via PY2ZY.

GREECE, SV. Roberto, SV8/IK7XIV, is QRV from Zante, IOTA EU-052, using CW with some activity on 6 meters until August 28. QSL to home call.

DODECANESE, SV5. J45W is active from IOTA EU-001 until August 2. QSL via I2WIJ.

UKRAINE, UR. Special event call EM500E will be QRV from August 1 to 31 on all bands and modes to celebrate the 500th anniversary of the Cossack's Glory in Ukraine. QSL via UR4EYN.

CAYMAN ISLANDS, ZF. Jim, KD3YK, will be QRV as ZF2JM from August 1 to 11. QRP activity can be found on 40 and 20 meters, using CW and SSB. QSL to home call.

THIS WEEKEND ON THE RADIO. The RSGB Islands-On-The-Air Contest and the Flight of the Bumblebees QRP Contest are all on tap for this weekend. Please see July QST, page 100 for details.

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ZCZC AG34
 QST de W1AW
 ARRL Bulletin 34 ARLB034
 >From ARRL Headquarters
 Newington CT July 27, 2000
 To all radio amateurs

ARLB034 NCVCEC advances revised Morse testing standards

The National Conference of Volunteer Examiner Coordinators has voted to set up revised standards for the administration of Morse code examinations in the US.

Under the revised standards, examinees would have to show 25 character-count solid copy on test sheets or successfully answer seven out of ten questions of a fill-in-the-blank quiz on the sent text. The plan would bar multiple choice tests for Morse code testing.

Morse examinations would specify use of a Farnsworth "character speed" in the range of 13 to 15 WPM. Morse code audio pitch would have to be between 700 and 1000 Hz. Standard 5 WPM tests with 5 WPM character speed could be administered only as a special accommodation.

The new Morse testing standards are to be in effect by next July 1, but VECs may implement them sooner.

The NCVEC vote came July 21 during a meeting of VECs in Gettysburg, Pennsylvania.

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EXCERPTS FROM THE ARRL LETTER

The ARRL Letter

Vol. 19, No. 29

July 28, 2000

ARRL BOARD APPROVES MORE COLORFUL QST, TECHNOLOGY UPGRADE, "BIG PROJECT"

A more colorful QST will be showing up in members' mailboxes within a few months. The ARRL Board of Directors unanimously approved a resolution directing that the League's monthly membership journal be printed in full-color at a minimum size of 176 pages per issue.

"QST is the most visible ARRL membership benefit," said ARRL Publications Manager Mark Wilson, K1RO. "This will give it greater impact." He explained that advances in printing technology have narrowed the gap between full-color and monochrome reproduction to the point that it makes the most sense to go forward with color. "Color communicates better than monochrome," he said, adding that the additional cost would work out to "pennies per issue."

The Board's July 21-22 session in Hartford marked the first held under the leadership of ARRL President Jim Haynie, W5JBP, who took office following the January Board meeting. Board members said the session was the smoothest in recent memory.

In other action, the ARRL Board put its stamp of approval on "The Big Project," Haynie's ambitious initiative to provide a turnkey Amateur Radio curriculum in American classrooms. Now officially dubbed "The ARRL Amateur Radio Education Project," the program will offer a curriculum and equipment that schools can incorporate into existing curricula. The project will be funded by corporate and foundation donations.

The Board also okayed spending up to \$1,025,000 to develop a new information technology platform for ARRL Headquarters. The new computer software and hardware not only will enhance the ARRL's e-commerce capabilities but update membership information and accounting systems. It also eventually will enable such services as electronic QSLing, member Web access to DXCC records, nearly real-time updates of DXCC listings, and expanded, detailed contest results. The Board also agreed to provide additional financial support for the popular ARRL E-Mail Forwarding Service.

The Board accepted the report of the Ad Hoc Antenna Case Assistance Committee, which recommended creation of an expert panel to evaluate requests for supplemental funding of antenna cases. The program unanimously

approved by the Board puts a \$10,000 cap on the funding of federal appeals in "those rare and infrequent cases in which there was a significant issue of law of benefit to the wider amateur community."

The Board also agreed to put the League's muscle behind an international effort to secure a 300-kHz exclusive assignment for Amateur Radio in the vicinity of 7 MHz. The 40-meter realignment issue now is on the agenda for World Radiocommunication Conference 2003.

In other action, the ARRL Board of Directors

* voted to proceed with the development of digital voice for the Amateur Service. President Haynie will appoint a committee of knowledgeable individuals to report at the 2001 annual meeting.

* heard a report from the RFI Task Group that detailed the threat to Amateur Radio from the increased use of Part 15 devices as well as efforts to resolve power line noise complaints on the West Coast and HF interference from wireless modem jacks.

* expressed its thanks and appreciation for "the effort, enthusiasm and dedication of ARRL VEs and the ARRL-VEC" for efforts above and beyond the call of duty in handling the flood of applications in the wake of Amateur Radio restructuring.

The minutes of the ARRL Board of Directors July meeting are available on the ARRL Web site at <http://www.arrl.org/announce/board-0007/>.

IN BRIEF:

* Lew McCoy seriously ill: Former ARRL Headquarters staff member and well-known Amateur Radio personality Lew "Mac" McCoy, W1ICP, is reported to be seriously ill. McCoy, an ARRL Life Member, is 84. His daughter Marsha Ashurst, W1HAQ, says that McCoy would enjoy hearing from friends and acquaintances. Greetings may be sent in care of Armann, 2215 East Siesta Dr, Phoenix AZ 85040 or via e-mail to lewmccoy@uswest.net. "I know it would help his spirits to hear from his ham buddies," his daughter said this week. First licensed as W0ICP in 1946 in Missouri, McCoy was an ARRL HQ fixture from 1949 until 1978 and was the first QST Novice editor. He has written hundreds of articles for QST and has been a major contributor to other Amateur Radio publications, including CQ.

The ARRL Letter is published Fridays, 50 times each year, by the American Radio Relay League—The National Association For Amateur Radio—225 Main St, Newington, CT 06111; tel 860-594-0200; fax 860-594-0259; <http://www.arrl.org>. Jim Haynie, W5JBP, President; David Sumner, K1ZZ,

PICTURE PAGE



Yeah, I'll take that one..... says Kip, K8KIP to Chief cook Dan N8DZM and helper Dennis K1FFA



THE THREE HAMS : Two with code and one "no code" Igor WB8KEO, logs another one for Perry W8AU while "Porkey" watches intently!



MMMM..... MMMMM Nearly done! "Ole No Code Porkey" sure looks good !



Hey ! We're on TV ! MARC'S venture into SSTV for Field Day. The demo was a success thanks to Don W8DEF and Bruce AA8FB

August 2000

Monthly Planner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2 Astronomy Club Net 147.180	3 7:30 PM QCWA (Chapter 21) Net, 147.180	4 Massillon ARC Meeting	5
6 Stark County Mutual Aid Net 146.520 11:30 AM	7 Sloppy Fist Net every Monday thru Friday at 9PM on 28.138	8	9	10 7:30 PM QCWA (Chapter 21) Net, 147.180 BD KB8UMO	11 West Stark Info Net 147.180 at 8:00 PM	12
13 Stark County Mutual Aid Net 146.520 11:30 AM	14	15	16 Astronomy Club Net 147.180 Canton ARC Meeting 7:30 PM	17 7:30 PM QCWA (Chapter 21) Net, 147.180	18 BD K8EJN	19
20 BD KF8EB HAMFEST Warren,OH 146.970 Stark County Mutual Aid Net 146.520 11:30 AM	21 BD KC8LIN	22	23	24 7:30 PM QCWA (Chapter 21) Net, 147.180	25 West Stark Info Net 147.180 at 8:00 PM	26
27 BD W8JT Stark County Mutual Aid Net 146.520 11:30 AM	28 BD WA8DRT Sloppy Fist Net every Monday thru Friday at 9PM on 28.138	29	30	31 7:30 PM QCWA (Chapter 21) Net, 147.180		

July

S	M	T	W	T	F	S
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

