

Sierra Foothills Amateur Radio Club

Newsletter

http://www.sf-arc.org
July 2003
P.O. Box 1005, Newcastle, CA 95658




2003 Calendar of Events

(Operating Events in Italics)

PRESIDENT
 Richard Kuepper, WA6RWS
 530.878.6220
 rkuepper@juno.com

VICE PRESIDENT
 Rob Carpenter, WW6G
 916.984.1892
 ww6g@arrl.net

SECRETARY
 Joe Sylvia, KF6OQY
 916-797-3149
 jsylvia@vfr.net

TREASURER
 Mike Hudson, KG6EFK
 916.624.4714
 mihudson@firstam.com

DIRECTORS
 Debbie Cunningham, KF6LXN
 916.663.4143
 dmc@midtown.net
 Bob Boeckman, WA6ULL
 916.987.9910
 wa6ull@aol.com
 Casey McPartland, W7IB
 916.660.9680
 w7ib@arrl.net

REPORTERS
Satellites: Greg, KO6TH
History: Gary, KQ6RT
Digital: Rob, WW6G

REPEATERS
 145.430 (-0.6 MHz/PL 162.2)
 440.575 (+5.0 MHz/PL 94.8)
 223.860 (-1.6 MHz/PL 100.0)

CLUB NET
 All welcome to check in
 Thursdays, 7:30PM, K6ARR/R
 145.430

CLUB MEETINGS
 Second Friday of the month,
 7:30PM at the Auburn
 Library, 350 Nevada St,
 Auburn

CLUB BREAKFAST
 Last Sat of the month at
 Susie's Café, Cirby at
 Riverside, Roseville - 8:00 AM

NET CONTROL OPS
 Dave Jenkins, WB6RBE
 Gary Cunningham, KQ6RT
 Joe Sylvia, KF6OQY
 Casey McPartland, W7IB

WEBMASTER
 Justin Carpenter, KG6NYD
 rancourt@houserancourt.org

NEWSLETTER EDITOR
 Fred Jensen, K6DGW
 VOX: 530.885.8251
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 k6dgw@arrl.net

- | | |
|------------------|---------------------------------|
| Jul 11 | Regular Meeting |
| <i>Jul 12-13</i> | <i>Tevis Endurance Ride</i> |
| <i>Jul 12-13</i> | <i>IARU World Championships</i> |
| Jul 26 | Club Breakfast |
| <i>Aug 2-3</i> | <i>ARRL UHF Contest</i> |
| Aug 8 | Regular Meeting |
| Aug 30 | Club Breakfast |
| Sep 12 | Regular Meeting |

IN THIS ISSUE

Officers' Reports

Field Day Report

Sac Valley Section News

"What is DX?"

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From the President's Shack

**Richard
WA6RWS**



Greetings everyone,

By the time you read this, Field Day will be over and for those who did not come up to Nyack, you missed a great time. I can say this now because each year that I have attended, I think everyone had a great time.

It is very exciting to see a year later that Field Day made a difference for some new members of the club who were not licensed last year and now are operating and we have become friends.

What a fantastic hobby we have and what fun it is to see the progress they have made.

I was out of town for the last two club breakfasts. I sure miss going and getting to know more about members from the club. If you can, drop by the last Saturday of the month and tell us about your ham radio experiences. We all can learn from each other and enjoy a great meal.

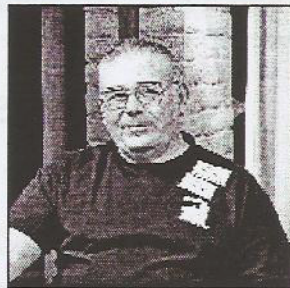
I hope to see all of you at the next club meeting on July 11th.

73,

Richard, WA6RWS

Secretary's Report

**Joe
KF6OQY**



Board Meeting June 7, 2003

The day began with a visit to the K6ARR repeater in Auburn with Jim Carman, K6ARR, conducting the tour. The tour group consisted of myself, KF6OQY; George, KG6LSB; Greg, KO6TH; Bob, WA6ULL; Gene, KG6NYH; and Mike, KG6EFK. A lengthy discussion as well as many questions followed that were answered by Jim. It was an enjoyable and informative tour and enjoyed by all who attended. Thank you Jim. Our Board meeting was scheduled for 3pm on the same day as the repeater tour. The meeting was held at the

home of Dottie and Joe, KF6OQY in Granite Bay followed by a barbecue. President Richard, WA6RWS, opened the meeting at 1540 hours. Officers present: Vice President Rob, WW6G; Secretary Joe, KF6OQY; and Treasurer Mike, KG6EFK. Board Members Debbie, KF6LXN; Bob, WA6ULL; and Casey, W7IB were also present. President Richard reported on the Enduro race of which 5 radio operators participated in communications. Tom Guice head of the Enduro donated \$200 to SFARC.

Old Business

President Richard, WA6RWS, will remind the membership at the general meeting on June 13 about the "Name Our Newsletter" contest. The winning prize will be a one year free membership. The winner will be selected at the Board meeting on August 1st. Details will be explained at our general meeting on June 13.

The club picnic will possibly be rescheduled for September or October. Bob, WA6ULL, will look in to this and report back.

Nothing positive as yet on the club patches. Rob, WW6G will report on this at a later date.

Casey, W7IB has reported that there will not be a class F station set up on field day due to lack of clarification of operating rules.

Rob, WW6G made a motion to authorize the sum of \$16.00 for set-ups needed for field day. Seconded by Bob, WA6ULL. George, KG6LSB has volunteered to get them. A discussion on the possibility of any PR for field day from local TV or newspapers occurred but nothing definite.

Raffle prizes for the club Christmas party will be determined at the July board meeting.

Debbie, KF6LXN made a motion to adjourn and it was seconded by Rob, WW6G. Motion carried and meeting adjourned at 1703 hours. At this time we all headed for the display of ribs and chicken plus all of the great side dishes to fill our plates. We had a total of 17 people attend.

SFARC General Meeting June 13, 2003

President Richard, WA6RWS, opened the meeting at 1939 hours. Officers present: Vice President Rob, WW6G; and Secretary Joe, KF6OQY. Also present were Board Members Casey, W7IB; and Bob, WA6ULL. President Richard, WA6RWS, led the Pledge of Allegiance followed by introduction of officers and members/guests who introduced themselves. Vice President Rob, WW6G, announced that the VE test of June 7 produced seven new Techs and one upgrade to General. Secretary Joe, KF6OQY, read the minutes of the June 7 board meeting and commented on the barbecue which followed. Vice President Rob, WW6G, also reported on the upcoming Field Day event saying that those who plan to attend should bring a side dish or dessert. Rob also asked the membership to notify him if they have any

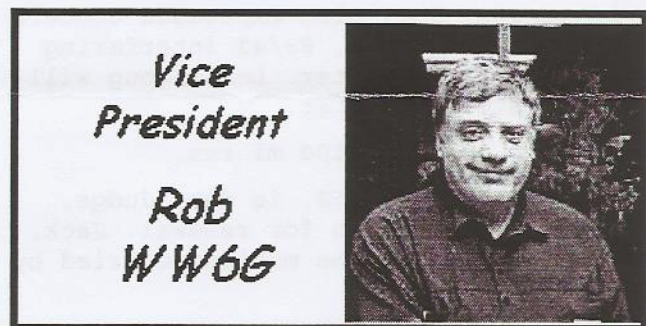
problem in accessing the SFARC web site. He would like to know the date and time of any difficulties.

Jim Carman, K6ARR, reported that the power module on the 440 repeater needs to be replaced. Casey, W7IB, made a motion to allocate \$80 from the club treasury to purchase a new module. The motion was seconded by Bob, WA6ULL. The motion was carried by the membership. President Richard, WA6RWS, also encouraged the membership to submit names for our "Name The Newsletter" contest.

Jettie W6RFF asked that he be notified of the winning name for our newsletter to be sure that it is not the same as another now in existence. He did a presentation on DX explaining how the cycles affect communications along with comparing distances reached for vhf/uhf verses HF. He also touched on techniques of getting rare contacts without using lots of power. He also spoke on the use of various antennas and of the ARRL bureau for QSL cards. Lots of information was available for all. Thank you Jettie for a great evening. Meeting was adjourned at 2122 hours.

Respectfully submitted,

Joe Sylvia, KF6OQY
Secretary



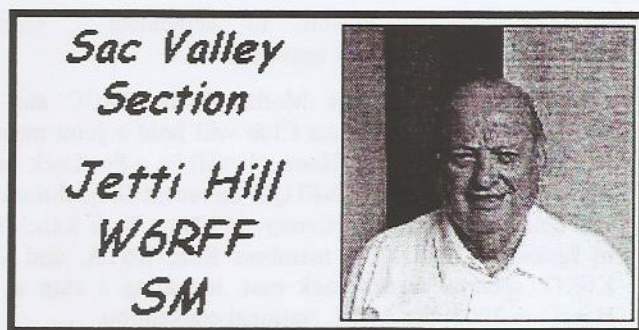
Well, June was a very busy month. A Board meeting, a fun club meeting with a really great talk by Jettie, W6RFF, on DX, a really nice breakfast and finally Field Day. please check out the pictures of Field Day. They will be up on the web site this week.

Field Day went really well and everybody had a great time. We had five stations operational, and even with relatively poor propagation, everyone made a few contacts, ate some food and enjoyed the company and conversation.

This month, we have Don from Batteries Plus as our speaker and he will be talking about batteries for amateur use and is just the right person to answer your battery questions. I hope to see you all at the meeting.

73,

Rob, WW6G
Vice President



FIRE SEASON: This summer could be an active one for our ARES and VIP members. With very dry vegetation, the chances of having grass and forest fires is great, and we should all be prepared to help the city, county and state in providing communications when needed. Contact your local Emergency Coordinator or check with Dave, K6SOJ, at k6soj@arrl.net, for more information, before an emergency exists!

SILENT KEY: Bill Anderson, WG6N, became a silent key in June. Bill was a member of the Amador County ARC and was their Legal Advisor. He is survived by his wife Aloha, KB6LUX.

FIELD DAY: I hope all the clubs did well at FD, although the band conditions were not the best. I hope all groups sent me a message for extra credit. I only received 3 messages. None of the messages were in the correct NTS/FD form. Next year be sure you have the correct format. I was only able to visit the River City ARCS, Yuba-Sutter ARC, Nevada County ARC, and Sierra Foothills ARC field day sites on a 105 degree day.

OFFICIAL OBSERVER COORDINATOR: John Canaris, WY6O, has resigned as the section OOC. John has put in many years in the OO program, and I as well as the Section members thank him for his years of service. I will be appointing a new OOC in the near future.

NEW BAND: The FCC opens up 5 channels in the 60 meter band. These are narrow channels and much care must be used when operating in them. Check out the information on the ARRL web pages before trying to operate on these frequencies.

VE EXAMS: Len Umina, K1LU, is looking for Extra Class VE examiners, for weekly exams, on Thursdays at 6:30 PM in El Dorado Hills. Contact him at 916-941-6993 or umina@theuminas.com or see www.k1lu.com for info on exams. Yuba Sutter ARC VE exam session is July 12 at Evangelical Free Church in Yuba City, 9AM. Please pre-register with Clara, KC6JPP, or info at <http://users.cwnet.com/ysarc/>. Their club picnic is July 26 in Dobbins at home of W6HKB.

River City ARCS VE exams July 21 at 8:45 AM at Carmichael Elks Lodge, corner Cypress & Hackberry. Info at 916-492-6115 -- leave message. RCARCS will man a booth at the California State Fair in August. More info later.

Sierra Foothills ARC VE exam at Auburn Public Library, 350 Nevada St. at 8 AM, on the 1st Saturday of July and

August, back to Folsom in September. Contact larry.r.hodge@intel.com for information.

MLDXCC/NCCC: The Mother Lode DXCC and the Northern California Contest Club will hold a joint meeting in Jackson on July 19 at Noon. It will be a Pot Luck lunch and a program by Doug, N6TQS, on recent DXpeditions. It will be held at the Senior Center, 229 New York Ranch Rd., in Jackson. MLDXCC members Ken, K6TA, and Kay, K6KO, spent 4 weeks back east, including a stop at the HamCom 2003, the ARRL National convention.

SIERRA CENTURY BIKE RIDE: The Amador County ARC and El Dorado County ARC worked the 100 mile bike ride, by the Sacramento Wheelmen, using the two clubs' repeaters for communication. They help out each year for this ride.

EC-001/2/3 COURSES: Several more section members have completed one or more Emergency Communication Courses this past month. The ARRL is pushing to get as many hams trained while the grant money holds out. ARRL has signed an agreement with the Office of Homeland Security -- more info on ARRL web at www.arrl.org.

SACRAMENTO VALLEY WEB PAGE: Besides this summary, there is a Section web page that I can make changes to as events happen. Go to www.arrl.org then click on Sacramento Valley Section -- upper right hand side -- for latest information

I gave a talk on DX to the Sierra Foothills ARC at their June meeting.

Keep those fires under control!

73,

Jettie, W6RFF
Sacramento Valley SM

Sacramento Valley Section Nets

The Sacramento Valley Section Nets are held on the 2nd Wednesday of each month at 1900 on 146.085 [+600/127.3] (Yuba Sutter ARC repeater), and at 1930 on 3.987 MHz. NCS is usually Jettie, W6RFF, our Section Manager.

The Section ARES net meets on the 1st, 3rd, and 4th Wednesday of each month at 1930 on 3.987 MHz. Dave, K6SOJ, is the Section Emergency Manager, and he and others will be NCS.

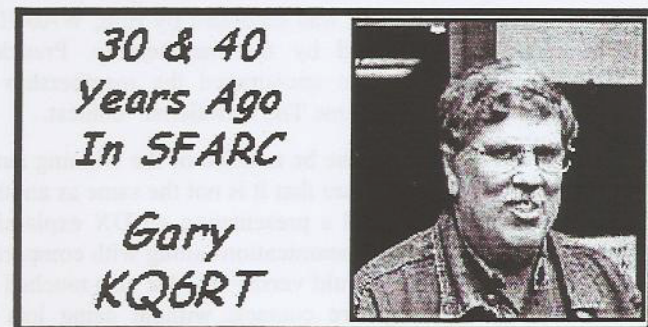
For Sale

Yaesu FT-50R 2m/440 5 watt handheld with speaker mike and DC power cord, plus all the parts that came with the radio when new. Orig. battery is in new condition. \$150.

Contact Patrick, N6PBM at n6pbm@arrl.net

Free!

Two racks on casters, one is 5' tall and the other is 6' tall. Contact Lee, K6LQT, at k6lqt@jps.net to arrange pickup.



Twenty Years Ago at SFARC

July 1983

N6HLA, Mary Ann brought the meeting to order at 7:39.

WA6SDA and WB6MFV from Livermore explained the Amateur Radio service plan during emergency in the city of Livermore. They also expressed concern about AD6D/R, 144. 83/43 interfering with Auburn repeater. Len & Doug will look into the matter.

Tnxs to John for 100 mi run.

World Radio sub. 52. is due, Judge, K6SKQ, made motion for renewal. Jack, W6YHI, seconded the motion. Carried by majority.

N6EJA inquired about Azden 4000 for Xmas.

August picnic, to be held at Iowa Hill, will be on the 28th. A-H desert, I-Q hot dish, R-Z salad.

Raffle winners were KA6PTL, WA6KCS, and WA6FS0

Meeting closed at 9:30

Bob Rett W6MEI, Sect.

Swap Meets

Foothill Flea Market - 2nd Saturday of each month from March through October at Foothill College, Los Altos.

Livermore Swap Meet - 1st Sunday of each month at Las Positas College in Livermore, 7:00 AM to noon, all year. Talk in 147.045 from the west, 145.35 from the east. Contact Cliff Chiba, KF6EII, larkswap@usa.com

Field Day 2003

Well, on June 28th and June 29th the Club held its regular Field Day event at Nyack and it was a great time. First, the electrical power was delivered the 319th Signal Battalion who came and set up on Saturday and provided generator power throughout the 2 day event. Our sincerest thanks to them for their help.

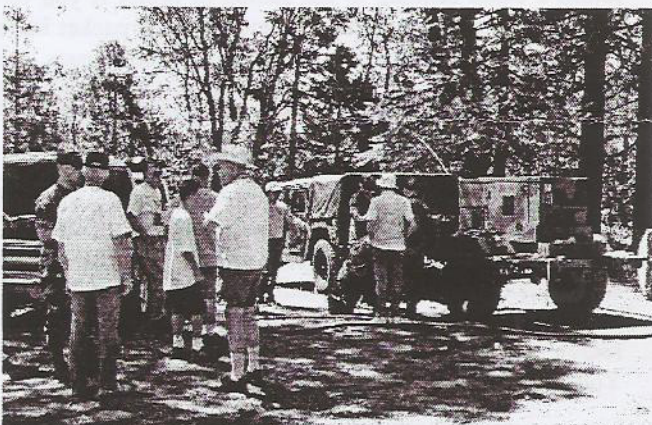
There were a total of five operating positions during the event and quite a few contacts were made. On Saturday, there were barbecues for lunch and dinner. Everyone brought sides and there was lots of food and



lots of fun. Sunday, Casey and George prepared breakfast. No one went home hungry.

On the left, "Tonto," (aka Bob, WA6ULL) prepares to shoot a line for an antenna over one of the very tall pine trees at the Nyack site. The site is

just beyond the Blue Canyon exit on I-80 at an elevation of about 5,200'



Field Day power can often be a problem, but not this year. Here, members of the 319th Signal Battalion set up enough reliable power to run a dozen Field Day sites.

Field Day is an operating event after all, and here we see Jeff, KG6MEH hard at work on phone using a Yaesu FT-897.

Not everyone slugged it out with the FD crowds on the radio, however. Some chose to relax and solve as many of the world's problems as they



could using the least energy possible

The pictures of Field Day are also available on line at www.sf-arc.org/html/modules.php?set_albumName=album08&op=modload&name=Gallery&file=index&include=view_album.php

Our thanks to Grant Wells for the use of his site and our thanks to the 319th Signal Battalion and especially to Captain Michael Lewis, SPC Raymond, PFC Ryan Aday and PFC Ronald Naastad for all their hard work and participation.

Join us next year.

What is DX?

Jettie Hill, W6RFF

SV Section Manager

What is DX? DX is Distance. For Hams it means Long Distance Communications. But what Distance? Distance depends on Frequency and Mode, atmospheric etc. A Boy Scout may only communicate for several hundred feet using a flashlight. If it is a foggy night, maybe only a few feet.

For amateur radio, frequency has a very large effect upon distance. For UHF and VHF DX could be 50 miles with a handheld on simplex. On Microwave several hundred feet may be DX. On HF the ground wave may be 10 to 200 miles, depending on frequency.

Time of day and time of year can affect HF signals. On the HF frequencies some of the signal is reflected off the ionosphere and back to earth at some distant point. In some cases it may take 2 or more bounces up and down. Sunrise and sunset are particular good times for DX, especially if the station on the other end is at the antipode.

80 and 40 meters are poor in the daytime, and best in the winter nights. 15 and 10 meters generally good during daylight but poor or dead at night. 20 meters can be relatively good during night and day, depending on time of the year. There is also the 11 year sunspot cycle that affects DX distance.

Antenna type, height above ground, frequency of operation and angle of radiation, all affect the distance the signal will travel. Beam antennas- Yagi and Quad – increase the signal gain, both in receive and transmit.

How do you work DX. Tune the bands and listen, listen, listen, listening for that elusive rare DX station. There are several books published on working DX, and would be worthwhile reading for the newcomer to DX.

Learn what bands are good at what times. Use DX packet spotting nets or internet reports for what stations and their frequency are being reported on the air.

Now that you hear a station that you would like to work, how do you go about making contact. Is he working stations on his frequency – simplex – or is he working "Split"? If it is a rare station or DXpedition he may be working split.

Transmitting on one frequency and listening on another. He may say Up 5 to 10. That means he will be listening between 5 and 10 KHz above his transmitting frequency. Tune your receiver above and see if you hear who he is working. If you do, then set your transmitter on that frequency and the receiver on the DX station.

Many DX stations will move their listening frequency after each contact. If he is moving up, then set your transmitter frequency a KHz above the station he is now working. – so again Listen.

DXpeditions are usually a group of several operators, with 1 or more transmitters that are on the air up to 24 hours a day and may be on several bands at the same time. They may make several thousand contacts a day, so no rag chewing – just signal reports and 73.

What is the big deal of wanting to work all these DX stations. Well most DX operators are making contacts with as many countries as they are able to work, and exchange a QSL card, so that they can apply for one of the several awards. The ARRL issues the DX Century Club award for working 100 countries on one or more bands and modes. CQ magazine issues the Worked All Zones (WAZ) for contact for all 40 zones on the earth.

The QSL is confirmation that you have made contact with that station. Both DXCC and WAZ require cards for awards. You can send card direct to the DX station with a self addressed envelope (SAE) and return postage in the form of International Reply Coupon (IRC) from the U.S. Post Office, or many stations will take a “Green Stamp” – a dollar bill.

Also, if you are an ARRL member you can send cards through the outgoing QSL Bureau. The cost is \$8 per pound or up to 10 cards for a dollar. Cards sent through the bureaus on both end can take a year or more to return. Incoming QSL. Cards sent from foreign countries, by the bureau, go to ARRL, where they are sorted by districts, the 6th district bureau is in Weed, CA and they have 26 sorters, one for each letter in the alphabet, such as the R sorter for W6RFF. The 6th bureau sells envelopes and Postage as they can file only one size envelope and it is hard to find locally. Most of the sorters send out cards to you when they have a few for you. You do not have to belong to the ARRL for this service.

The DX Packet Cluster

As Jettie points out in his article, chasing DX can be a lot of fun. Often, you can just tune around the band and look for a giant pile-up. It is fairly well guaranteed that there's a DX station somewhere under or near all that bedlam. When you have limited time, it can be a lot more fun if you know in advance what DX station is where. Enter the “DX Packet Cluster.”

The packet cluster is a network of interconnected packet stations running special software. Users connect to the

nearest cluster node, and once connected, can remain connected essentially forever. When someone finds a DX station, they post the station's call, frequency, and an optional comment which, along with the posting time, gets sent out to every user in the network. These are called “DX spots.” (Note that it is common practice to post a DX spot to the cluster after you've worked the DX station!)

It's probably obvious that a packet cluster station will fill a channel with packets since it sends the same DX spot to each of it's connected users, making the channel unusable for other packet activities. By convention and agreement, a couple of 2m frequencies are designated for cluster use.

Here in the lower Sacramento Valley area, the local cluster station is K6NP in Rio Linda (at the W6GO QTH). It is on 144.950 and all you need to do is connect to K6NP with your packet station. The first time, you will be asked for your name, and some other information.

The cluster software is specialized, and has a vast array of capabilities in addition to what is described above. It's command structure is somewhat unique, however. For example, if you send the command “SH./DX” it will reply with the last 5 DX spots that have been posted. Most people do this when they first connect. “SH/HEADING <call>” will return a beam heading to the station or prefix if you've set your own coordinates into the cluster. Like packet bulletin boards, it also allows you to send mail to other users, and it has a number of databases you can query for DXCC, WAZ, and other DX information. The best way to explore all of these is through the extensive HELP capability.

Don't have a packet station? Not to worry ... the packet cluster is available on the Internet (what isn't available on the Internet these days?). There are a number of sites and access modes available, including your browser, TELNET, and others. Best bet is to go to www.google.com, and enter the search string “dx packet cluster” (including the quotes). You'll be surprised at what you get back.

One caveat: You need to pay attention to who posted a DX spot. Since it is a worldwide network, spots can be posted by stations that report the DX as “10 over S9.” Unfortunately, they might be located in Australia, where the sun is still up and 15 meters is still open. You, however look outside the window of your shack, see that the dark spell has set in, and you know you're not going to hear diddly on 15 until tomorrow morning.

For you 6 meter enthusiasts, you'll see many spots during 6 meter openings, usually accompanied by a grid designator. These will have US or Canadian calls, however, as Jettie points out, “DX” depends on a lot of factors, and frequency is one of them. Spots of DX on satellites are also common, so it doesn't just apply to HF.

Give it a try, either on 2 meters, or on the Internet ... It's a good way to get your feet wet in one of our hobby's oldest and most challenging activities.

National Amateur Radio News

(Courtesy ARRL Bulletins and the ARRL Letter)

60 Meter Band Opens

The new five-channel 60-meter domestic secondary amateur allocation becomes available to US Amateur Radio operators at midnight local time on July 3. The FCC Report and Order granting the allocation was published June 3 in the Federal Register. Federal government users are primary in the 5 MHz band.

The FCC has granted amateurs use of five 2.8 kHz-wide channels with center frequencies of 5332, 5348, 5368, 5373 and 5405 kHz. The channels will be available to General and higher class licensees.

The only permitted mode will be upper-sideband USB phone, and 50 W ERP is the maximum power allowed.

Users of the 60-meter channels should set their carrier frequency 1.5 kHz lower than the channel center frequency. ARRL suggests restricting transmitted audio bandwidth to 200 Hz on the low end and 2800 Hz on the high end for a total bandwidth of 2.6 kHz. ARRL recommends that amateurs considering modifying existing amateur equipment for operation on 60 meters contact the equipment's manufacturer for advice.

And, yet more on 5 MHz

When the five new 60-meter channels become available to US Amateur Radio operators at midnight (12 AM) local time on July 3, the rules will impose a new record-keeping requirement for hams. The requirement applies only to those using something other than a simple half-wave dipole on the 5 MHz allocation.

According to Part 97.303(s), a half-wave dipole on the 5 MHz allocation will be presumed to have a gain of 0 dBd. "Licensees using other antennas must maintain in their station records either manufacturer data on the antenna gain or calculations of the antenna gain," states the newest addition to the FCC's Amateur Service rules.

Because the new rules also require hams to run no more than 50 W effective radiated power (ERP) on the new channels, the choice of antenna becomes an important compliance factor. The FCC rules stipulate, "For the purpose of computing ERP, the transmitter PEP will be multiplied (by) the antenna gain relative to a dipole or the equivalent calculation in decibels."

ARRL has posted a list of frequently asked questions (FAQ) concerning 5 MHz operation on the ARRL Web site, www.arrl.org/fandes/field/regulations/faq.html#sixty.

(Ed Note: We urge our members to be extremely careful in the use of these five discrete HF channels. They are essentially the same as a VHF or UHF repeater channel, and the Part 97 rules regarding sharing, usage, and intentional interference do still apply. If we can demonstrate that our use of this frequency range does not damage other nearby users, we stand a good chance of

expanding this into a "real band." And for some good news, read on)

Forty Meters

There's good news from World Radiocommunication Conference 2003 (WRC-03) for 40-meter enthusiasts. In an 11th-hour compromise, delegates to WRC-03, which wrapped up officially July 4, agreed to move broadcasters out of 7100 to 7200 KHz in Regions 1 and 3 to make room for the Amateur Service.

The agreement eventually will mean a 200-kHz worldwide allocation at 40 meters. Although the change does not go into effect until 2009, that's considered speedy in International Telecommunication Union (ITU) terms. Some of the timelines proposed during discussions on the 7 MHz agenda item would have held off the changes until 2033! The WRC-03 action on 7 MHz makes no change in the exclusive US 40-meter allocation. US amateurs will continue to enjoy the full 7000 to 7300 KHz band they now have.

"History was made today," said International Amateur Radio Union Secretary (and ARRL CEO) David Sumner, K1ZZ, who called the agreement a big change over the status quo. "Never before in the history of Radiocommunication has an HF broadcasting band been shifted to accommodate the needs of another service. But that's what happened at WRC-03 this morning."

And, an Editor's Apology

It has been a long standing policy of the SFARC to get the newsletter into the members' hands before the meeting of the issue month. Alas, I may have failed this month. Wanting to wait until after Field Day to include a report of the Nyack Conflagration, and given the Western States Endurance Run which consumed the time of a few SFARC members as well, I put off the MS Word "adventure" until after the weekend.

Well, a small family crisis intervened, and so we are now late. E-mail recipients will get this prior to the meeting, but I'm not sure about the USPS recipients. My apologies to all of you.



Randy & Pamela Ubry
RPU, Incorporated
Owner - Operators

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2003 MEMBERSHIP APPLICATION**

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Phone Number: _____ Application: (Circle One) New Renewal

Member Dues: Circle Amounts That Apply. Applications received in the middle of the year will be pro rated. Contact the President or Treasurer for exact rate.

Membership:	\$22.00	Name Badge:	\$6.50
Associate:	\$ 7.00	Repeater Donation:	\$ _____
Auto Patch Donation:	\$ _____	Newsletter Booster:	\$ _____
Miscellaneous Donation:	\$ _____	Christmas Donation:	\$ _____
Worldradio Renewal:	\$ _____	TOTAL:	\$ _____

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