

The COMMUNICATOR

The Tamiami Amateur Radio Club • Venice, Florida

COMMUNICATOR

APRIL 2004

– PRESIDENT’S MESSAGE –

After writing last month’s “President’s Message” for *The Communicator*, I started thinking about emergency communications for our members as a whole. We probably all know what to do, but become lax in our preparations. Here are a few things to do to prepare for the inevitable, such as getting stuck in your car where and when it is least appropriate.

I assume that all of you have a 2-meter transceiver mounted in your vehicle, or you own a 2-meter HT that you can take with you. If your 2-meter HT is not with you when you need it, what good is it??? Stop reading this message right now, get your 2-meter HT, take it out to your vehicle, and put it in the glove box! (OK, we’ll give you a chance to charge the battery first.)

OK, now that you’re back with us, consider a better antenna for that HT rather than the rubber ducky. Unless you have a mag mount 2-meter antenna for your vehicle, consider building a small, roll-up 2-meter J-Pole to increase the range of your HT. These are made very simply from a piece of 300-ohm twin lead, a piece of RG-8X or RG-58 coaxial cable, the appropriate connector for the antenna jack on your HT, and about a half-hour of your time. Hey, we can all use a little soldering practice. The July 2003 issue of *The Communicator* gave complete instructions for building this versatile antenna. What! You don’t keep your back issues of our newsletter? Well, then send me an e-mail at ve6aiv@rac.ca and I will forward a copy to you. If you prefer, however, just call me at 474-2087 here in Englewood, and I’ll catch up with you “wherever” and hand you a copy. This is important because, when you get stuck, you will be at the bitter edge of the repeater’s range (Murphy’s 18th Law).

Another thing you can do....er, apologies, as this is not Ham Radio related....is to carry a cell phone to augment your 2-meter coverage. Many of you have proper cell service, so just make sure you take that cell phone with you in your vehicle or boat. For those who do not have cellular service, here is a little known fact that may save your life. Any cell phone can be used to call “911.” This applies whether or not your phone is activated with a subscriber service. For instance, our daughter gets a new cell phone every so often, due to her job, and she donates her old phones to us. Even though that phone is not activated, we keep it with us in our car just for emergencies. All Cellular service subscribers pay a small part of their subscription fee, which allows all of us

to use the 911 service. Don’t get stuck. Pay attention to the details before you may have need for them
73 de John-VE6AIV

– APRIL MEETING –

The April TARC meeting will be at 6:00 PM on Thursday 08 April 2004 in the “Community Room” of The Gulf Coast Community Foundation of Venice, 601 South Tamiami Trail (Business US 41), across from the Bon Secours Hospital. Following the business meeting, a guest speaker from the Mote Marine Laboratory will present a program of interest to all. So, slip on you flippers, blow out your snorkel, and be prepared for an informative evening.

– FINAL DUES REMINDER –

We’re starting into the second quarter of 2004, such that this is the final reminder for payment of the current year’s dues. Annual dues are \$15.00 for individual membership and \$18.50 for family membership. If you are still delinquent with payment of your 2004 dues, your name is underlined in red on your newsletter. Please see Treasurer Bob Officer-WA6WAY at our 08 April meeting. If you are unable to attend that meeting, you can mail your dues payment to:

Bob Officer-WA6WAY
1241 South Venice Blvd.
Venice, FL 34293

Those who have not paid their current dues by the end of April will be dropped from our rolls, as the 2004 TARC Roster will be published in May 2004.

– GIVING SOMETHING BACK –

Membership on the TARC VE Team is getting a bit sparse. Pete Pesa-N4RD has joined the team, such that we have four permanent residents available year-round. However, if one gets sick or takes leave of the area, we are down to the bare minimum of three examiners during the summer months. It is rather simple to get ARRL VE Certification. If you are interested, contact Jack Sproat-W4JS (475-1929) and find out how you can help others get licensed in our hobby.

“It is better to die on your feet than to live on your knees.” - Emiliano Zapata (1911)

TAMIAMI AMATEUR RADIO CLUB

Minutes of the Meeting

11 March 2004

This was the date of our Annual Auction, such that there was no business meeting. However, Treasurer Bob Officer-WA6WAY did provide a Financial Report to your secretary.

Following a deposit of \$674.50, from dues payments and hamfest sales, on 10 March 2004, the bank balance was \$4,352.24. Outstanding checks for PO box rental, newsletter printing and postage, and crystals and microphones for the repeater total \$311.33, bringing the current treasury balance to \$4,040.91.

There were 33 members and visitors attending our auction. There was quite a variety of items donated for bidding and, for once, all were identifiable. While the bidding was infrequently hot and furious, outlandish bids were often accompanied with appropriate sound effects from Bob-WA6WAY and Don Daggett-WC2E.

Bill Rockwood-KE4ZAK got so involved with his auctioneer activities that he forgot he had some sporting event tickets to be auctioned off. Bill sold these at the Friday breakfast and donated the receipts to TARC. As such, the auction and ticket sales fattened the TARC treasury by \$396. Thanks to all who helped make this auction another success for our club!

Jack Sproat-W4JS
Secretary

- REGIONAL HAMFESTS -

17 April Tampa ARC Hamfest, at TARC Operations Center, 7801 North 22nd Street, Tampa. TI: 147.105 (PL 145.2); Info: Biff-K4LAW, 813-265-4812

24 April Gainesville ARS Hamfest at Alachua County Fairgrounds, SR 222, 1/2 mile E of SR 24. TI: 146.820; Info: Pat-K4HFJ, 352-378-0512

02 May FREE! at Lake Maggorie Park, 39th Ave. S. and M. L. King St., St. Petersburg. TI: 146.060; Info: Dee-N4GD, <n4gd@arrl.net>

08 May At Chester's Electronic Supply, 311 Missouri Ave. N., Largo. Info: Len-K4BDP, <len@ij.net>

(From April 2004 QST and Web site of Bill Britton-KB4VOL, <<http://bellsouthpwp.net/k/b/kb4vol>>.

- CALL SIGN STATUS -

As of 15 February 2004, call signs issued sequentially in the Fourth District were up to :

| Extra | General/Technician |
|-------|--------------------|
| AI4EA | KI4EHE |

(From April 2004 Worldradio)

"Sometimes I think scientists should quit searching for intelligent life in outer space and see if they can find any on this planet." - Charley Reese

- ARRL ON-LINE SURVEYS -

Every week or so the ARRL posts questions with a series of multiple-choice answers on its Web site. Usually, from 2500-4000 hams participate. Following are some queries of interest and their responses.

"Do you use the paging feature in your VHF or UHF FM transceiver?" Only 10 of the 878 respondents replied "Yes, frequently" and 30 replied "Yes, occasionally." Fully 604, or 68.8% of the respondents never use that feature. (*Wonder why it's even offered?*)

"Do you keep a station log?" Only 14.4% of the 2980 respondents do not keep a log of any sort. Paper logging remains most popular, with 40.4% keeping only a paper log and 23.2% keeping both paper and computer logs. 22.0% of the respondents log exclusively on computer.

Back on 03 October 2003 the ARRL asked, "Have you uploaded your logs to the ARRL's Logbook of the World?" Only 13.1% (259) of the 1971 respondents replied that they had done so, while 30.2% (595) claimed they intended to do so. The remaining 1,117 respondents are either not interested or knew nothing of LoTW. On 20 February 2004, the ARRL again asked, "Do you upload your station logs to ARRL's Logbook of the World?" Only 174 of the 1032 respondents stated that they do so, while 179 claimed they planned to do so. However, 257 don't use LoTW, 369 don't keep an electronic log, and 53 still haven't heard of LoTW. (*Looks like most folks still prefer conventional QSLing.*)

"Can you carry on a phone conversation in a language other than English?" While 71.1% of the 2159 respondents can only speak English, 17.9% can speak one other language, and 7.7% can converse in several languages.

- SCHEDULED "BIG STICK" NETS -

The following nets (local time shown) will be found on the ARRL West Central Florida Section's K4WCF "Big Stick" repeater system on 145.430, 145.290 (St. Pete), 146.760 (Holiday) and 442.950 MHZ, all with a 100 Hz tone requirement. If you're unable to get on HF for whatever reason, you can still keep in touch with Ham Radio via these nets.

| Weekday | Time | Net Name/Purpose |
|-----------|-------|-------------------------|
| Daily | 20:30 | Eagle Net -Traffic Net |
| Sunday | 19:30 | Weekly VHF/UHF Net |
| Monday | 19:00 | CW Practice Net |
| | 21:00 | WCF Section ARES Net |
| Tuesday | 19:00 | Public Information Net |
| | 21:00 | Skywarn Information Net |
| Wednesday | 21:00 | WCF Section Net |
| Thursday | 21:00 | WCF Technical Net |
| Friday | | Open |
| Saturday | 11:00 | Youth Net |

A complete listing of all the HF/VHF/UHF nets being conducted in the WCF Section is available on the Internet at: <<http://www.wcfarrl.org/netlist.html>>.

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CURRENT/PENDING DX ACTIVITY AND PROPAGATION FORECASTS

| CURRENT and/or SCHEDULED DX ACTIVITY | | | | | | | | | |
|--------------------------------------|-------------------|---------|---------------------------------------|--------------|--------------|--------------|--------------|-------|-------|
| COUNTRY - CALL SIGN | ACTIVITY PERIOD | BEARING | HF BANDS and BEST OPENING TIMES (GMT) | | | | | | |
| | | | 80 | 40 | 30 | 20 | 17 | 15 | 12 |
| Senegal - 6W/LX1DA | Now to 08 April | 87 | 23-07 | 22-08 | 20-05 | 13-02 | 16-22 | 14-01 | NO |
| Lord Howe Is - VK9LU | 31 Mar - 09 April | 249 | 07-12 | 06-12 | 05-13 | 02-14 | 03-05 | 01-04 | NO |
| Rodriguez - 3B9C | Now to 13 April | 64 | 23-02 | 23-03 | 22-03 | 19-22 | 20-23 | 17-18 | NO |
| Svalbard Is - JW/F6DVD | 04 to 10 April | 13 | 00-08 | 23-09 | 21-00 | 12-22 | 13-22 | 20-21 | NO |
| Banaba Is - T33C | 04 to 15 April | 278 | 07-12 | 05-13 | 01-05 | 01-05 | 00-02 | 19-22 | 00-03 |
| " " | " " | | | | | 12-15 | 12-15 | | |
| Tanzania - 5H3/SM1TDE | 04 to 18 April | 83 | 00-04 | 23-05 | 18-05 | 18-01 | 18-22 | 17-20 | 17-20 |
| Prince Edward & Marion Is - ZS8MI | 07 to 30 April | 130 | 00-04 | 23-06 | - | 06-10 | - | NO | NO |
| Cameroon - TJ??? | 09 to 11 April | 83 | 23-05 | 22-07 | 21-03 | 17-02 | 17-21 | 17-21 | NO |
| Micronesia - V63ZF | 09 to 17 April | 293 | 08-11 | 07-12 | 06-14 | 12-16 | 13-14 | 20-21 | NO |
| Nepal - 9N7PRO | 10 to 13 April | 13 | NO | 0000 | 23-01 | 01-04 | 15-17 | 15-17 | NO |
| " " | " " | | | | | 12-18 | | | |
| Maldives - 8Q7QQ | 13 to 27 April | 41 | 00-01 | 23-01 | 22-02 | 19-03 | 19-22 | 18-20 | NO |
| Malawi - 7Q7??? | 18 Apr to 01 May | 90 | 00-04 | 23-05 | 22-06 | 18-01 | 18-21 | 15-18 | 17-18 |
| Guinea - 3XDQZ | 18 Apr to 02 May | 90 | 23-07 | 22-08 | 20-10 | 11-04 | 13-00 | 15-21 | 17-20 |
| Faroe Is - OY??? | 03 to 13 May | 32 | 00-06 | 22-09 | 20-02 | 09-00 | NO | NO | NO |

Updated 26 March 2004, based on 24 March 2004 *QRZ DX*, and 22 March 2004 *The Weekly DX*.

Notes: ??? = Call sign not yet known, ++ = Phone Only, ** = CW Only, NO = No opening forecast, **Time in bold** = Best Band(s) for opening

Long path bearings and opening times (if any) are underlined. All forecasts calculated via *W6ELProp V.1.03* propagation software,

<<http://www/qs1.net/w6elprop/>> by Sheldon C. Shallon-W6EL, with Solar Flux and K-index varied in accordance with NOAA 27-day forecast.

- SOLAR ACTIVITY DURING MARCH -

During the first 28 days of March, the Solar Flux ranged from 90 up to 129, with a mean value of 110.1 (vs. 132.3 for March 2003 and 179.4 for March 2002). The A-index was ≤ 10 on only 9 days during the month.

- APRIL PROPAGATION -

During April, solar activity is expected to range from low to moderate levels. Through 11 April, activity should be at mostly very low to low levels, increasing to low to moderate levels after old regions return. Geomagnetic activity is expected to range from quiet to minor storm levels. A large recurrent coronal hole high-speed stream is due on 05-09 April and is expected to produce active to minor storm conditions. A weak high-speed stream is expected to produce unsettled to active conditions on 17 to 18 April. (From *NOAA Weekly Highlights and Forecasts*, 23 March 2004)

Summertime Maximum Usable Frequencies (MUFs) begin dropping in April and throughout the summer due to solar heating which expands the ionosphere. As such, the most favorable propagation will be via both daytime and nighttime paths on the "middle" HF bands. Both 17 and 20 meters may offer occasional 24-hour DX to various parts of the world. If you hear a lot of echo on a signal, try beaming the long path.

Low band propagation is still hot, however, increased static levels may degrade the openings.

Conditions should be *Above Normal* 3-5, 20 and 30 April; and *High Normal* 6, 8-12, 15, 17-19, 21-23, 25-27 and 29 April. (From "Propagation", Tomas Hood-NW7US, April 2004 *CQ*)

"What this country needs are more unemployed politicians." - Edward Langley, Artist (1928 - 1995)

- CLIPPERTON POSTPONED -

The Clipperton Island Dxpedition that had been scheduled for April has been postponed until 2005. Apparently the weather becomes a factor after April; the next window of opportunity will be next year. Consequently, there is time to expand the number of members on the team. If you're interested in going to Clipperton in 2005, contact Dave-K4SV at <K4SV1@charter.net> for information.

(From *The Weekly DX*, 22 March 2004)

- PRINCE EDWARD & MARION ISLANDS -

Two astronomers are going to activate ZS8MI from Prince Edward and Marion Islands (see table above), which is ranked No. 12 Worldwide in the 2003 Most Wanted Countries Survey of *The DX Magazine*. They will be using a venerable Collins KWM-2A and, possibly, a Collins 30L-1 Linear, such that there will be no WARC bands activity.

Planned Phone frequencies are 3.750, 7.080, 14.195, 21.295 and 28.495, listening up 50-10 kc. On CW, look on 3.505, 7.010, 14.020, 21.025, and 28.060, simplex. QSL via ZS6M. (*The Weekly DX, ibid*)

- OBSOLETE IRCs -

There has been a change to the US Postal Service Manual, concerning exchange of foreign IRCs for US postage.

Paragraph 437.33 defines IRCs as a "coupon that is sold in a foreign country and exchanged at a U.S. Post Office for postage." It also notes that "Foreign issued IRCs dated before January 1, 1975 are not exchangeable in U.S. Post Offices.

Paragraph 426.91 states "Foreign issued IRCs dated prior to January 1, 1975 are obsolete and cannot be exchanged at domestic Post Offices."

(From *QRZ DX*, 24 March 2004)

CONTESTS & ACTIVITIES

| Contest/Special Event | Times/Dates | Bands/Modes | QSO With | Exchange |
|--------------------------------|--|-------------------------------------|--|--|
| QCWA QSO Party | 1900 GMT 03 April 1900 GMT 04 April | 160 - 10 Meters Phone & CW | Members of QCWA | Year 1 st Licensed, Chapter #, QTH |
| Spanish RTTY Contest | 1600 GMT 03 April 1600 GMT 04 April | 80 - 10 Meters RTTY Only | Anyone, Anywhere | R/S/T + Serial Number |
| Polish DX Contest | 1500 GMT 03 April 1500 GMT 04 April | 160 - 10 Meters Phone & CW | Polish Stations Only | R/S/(T) + Serial Number |
| European Spring Sprint | 1500 GMT 10 April 1859 GMT 10 April | 80 - 20 Meters Phone Only | European Stations Only | Both Call Signs, Serial #, Name |
| Japan International DX Contest | 0700 GMT 10 April 1300 GMT 11 April | 80 - 10 Meters CW Only | Japanese Stations Only | R/S/T + CQ Zone |
| Yugoslav DX Contest | 1200 GMT 17 April 1200 GMT 18 April | 160 - 10 Meters Phone & CW | Anyone, Anywhere | R/S/(T) + ITU Zone |
| Grupo Argentino DX Contest | 1200 GMT 17 April 1200 GMT 18 April | 80 - 10 Meters CW Only | Anyone, Anywhere | R/S/T + CQ Zone |
| Estonian Open HF Championship | 0500 GMT 17 April 0859 GMT 17 April | 80 & 40 Meters Only Phone & CW | Estonian Stations Only | R/S/(T) + Serial Number |
| European Spring Sprint | 1500 GMT 17 April 1859 GMT 17 April | 80 - 20 Meters CW Only | European Stations Only | Both Call Signs, Serial #, Name |
| Spanish QRP Contest | 1700 GMT 17 April 1300 GMT 18 April | 80 - 10 Meters CW Only | Anyone, Anywhere in QRP (< 5 W) and/or QRPP (< 1 W) | R/S/T + Serial Number |
| Helvetia (Swiss) Contest | 1300 GMT 24 April 1300 GMT 25 April | 160 - 10 Meters Phone/CW/Digital | Swiss Stations Only | R/S/(T) + Serial Number |

From April 2004 *Worldradio* and April 2004 *QST*.

- THE PACIFIC VOYAGE OF N1RA -

At our May 2003 meeting, Bob Avrutik-N1AR discussed the steps he had been taking in preparation to operating HF Ham Radio from a cruise ship. Bob and Marie took that cruise in July 2003, and Bob offered a very informative slide program of his experiences at our November 2003 meeting. Not yet satisfied with cruise ship operating, Bob continued to make inquiries for licensing and permission to operate on a planned cruise in the South Pacific.

On 24 February, Bob and Marie flew out to Hawaii, whence they departed on a cruise that would take them to Christmas Island (Republic of Kiribati), French Polynesia, the South Cook Islands, Samoa, Fiji; and finally arriving in New Zealand 13 March.

Propagation conditions were much more favorable on this cruise than what Bob had experienced last July. Even though Bob's local ham friends had been advised of the best times and bands to look for him, and much of his schedule was shown in the March issue of *The Communicator*, none of the locals managed to be on the air when Bob was active. However, Bob did enjoy 330 QSOs with stations in 57 DXCC entities in all continents. Most of Bob's QSOs were with USA stations, followed by the Japanese, but he also worked a good number of Brazilian, Argentinian and Russian stations. The most "exotic" entities were undoubtedly Cambodia and Namibia.

Bob is quite proud of a QSL he received in person from Victor Rivera-ZK1CG/ZK1USA. Victor is one of the two permanent hams in Rorotonga in the South Cook Islands, but the only one with a 2-meter HT. So, Bob switched his Yaesu to 2-meter FM, gave Victor a QSO, and now possesses the only ZK1USA QSL in existence for a 2-meter QSO. In addition, Victor gave Bob and Marie a first class tour of Rorotonga, in exchange for lunch at "Trader Jack's."

Another positive example of how Ham Radio can shrink the world while building friendships!!

- FRN PASSWORD UPDATE -

Did you file via paper with the old ULS, such that you don't have a password? Or, have you have forgotten your password, need to change it to another password or were you automatically registered for CORES through a Volunteer Examiner Coordinator and don't know your password? If so, then you can go to the secure "Forgot your Password" Web site <<https://esupport.fcc.gov/password.htm>> and complete all the required fields. You will need to supply your FCC Registration Number (available via ULS or through many on-line call sign servers, such as ARRL's) as well as your Taxpayer Identification Number (TIN), typically your Social Security number. Applicants also will need to supply name, e-mail address and telephone number.

(From *The ARRL Letter Vol. 23, No. 13*)

- FCC SEEKS COMMENTS ON BPL -

(We noted in the 27 March newspaper where Bush is beating the BPL drum, so this is appropriate.)

Comments on the FCC Broadband over Power Line (BPL) Notice of Proposed Rule Making (NPRM) are due by Monday, May 3. The deadline for reply comments, i.e., comments on comments filed by others is 01 June. ARRL CEO David Sumner-K1ZZ recommends that members read the NPRM and develop their own thoughtful comments that specifically address the FCC's BPL proposals to provide broadband access via electric utility power lines. , reflect positively on the amateur community and, if possible, offer alternative recommendations. He asked amateurs to keep four things in mind, however.

1) This is not a proceeding to 'permit' or 'authorize' BPL, BPL is already permitted under the existing Part 15 rules.

2) The NPRM reaffirms that licensed services must be protected from harmful interference and are not required to protect BPL systems. This is good, but it be taken for granted that the principle will be honored in practice.

3) The NPRM proposes additional, new constraints on BPL to protect licensed services.

4) Amateurs must document beyond any doubt the levels of protection that must be given to over-the-air services, then leave it for others to decide whether BPL is feasible within those limits. The ARRL was in the process of determining scientifically what the limit must be.

He also asserted that the FCC's proposed "interference mitigation" requirements fall far short of providing real protection from harmful interference, and that the Commission is ignoring the practical problems that will arise when Amateur Radio transmissions disrupt BPL systems.

Carrier current systems like BPL are subject to the FCC's Part 15 rules governing unlicensed devices, and the FCC has acknowledged that "amateur operations are likely to present a difficult challenge" to BPL deployment, especially in the case of hams--an estimated 150,000 of them--who use high-gain antennas sited near power lines. The proposed rules remain silent on the issue of mitigating BPL interference to the estimated 70,000 Amateur Radio HF mobile stations.

The ARRL encourages anyone, particularly radio amateurs, who has actually experienced BPL interference, to file detailed comments documenting the interference. "BPL proponents claim they are not getting interference complaints," Sumner noted. "If we let them claim their systems are 'clean' when we know they aren't, shame on us."

(From The ARRL Letter, Vol. 23, No. 12)

- POSITION DEFINITION -

"If you want government to intervene domestically, you're a liberal. If you want government to intervene overseas, you're a conservative. If you want government to intervene everywhere, you're a moderate. If you don't want government to intervene anywhere, you're an extremist." - Joseph Sobran, former Editor of National Review (1995)

- FCC SEEKS RESTRUCTURING COMMENTS -

The FCC is seeking comment on three plans that would reshape the Amateur Service licensing structure. Each Petition for Rule Making responds to World Radiocommunication Conference 2003 actions last summer that deleted the requirement for Morse Code exams for HF access.

The ARRL petition, designated RM-10867, asks the FCC to create a new entry-level license class. It would offer limited HF CW/data and phone/image privileges on 80, 40, 15 and 10 meters plus certain VHF and UHF privileges. The plan also would consolidate Technician, Tech Plus (Tech with CW credit) and General licensees into a new General license that would not require a Morse examination. Tech and Tech Plus licensees automatically would gain General privileges, and Advanced license holders automatically would be upgraded to Extra without further testing. Applicants for Amateur Extra would still have to pass a 5 WPM Morse exam.

In a petition designated as RM-10868, an "unincorporated grassroots organization" calling itself the Radio Amateur Foundation (RAF) asks the FCC to modify the Technician ticket to allow limited HF phone, image, data and CW privileges. The RAF also proposes keeping 5 WPM Morse tests for General and Amateur Extra applicants, upgrading Advanced class holders to Extra and Novices to Technician.

The RAF also wants to scrap existing Amateur Radio question pools and start over from scratch, keeping the question pools out of the public domain and requiring a 10-day waiting period before retesting. In addition, it would permit only Generals and Amateur Extras--or Technicians licensed more than two years--to request vanity call signs.

The National Conference of Volunteer Examiner Coordinators (NCVEC) reiterates the NCVEC's call to eliminate the Morse code testing requirement entirely.

The NCVEC petition would upgrade all current Novices to a new Communicator class, all current Technician and Tech Plus (Tech with CW credit) licensees to General and all Advanced class licensees to Amateur Extra without further testing. Once the Morse requirement goes away, the NCVEC said, "there will be no effective difference between the Technician and General class licenses."

The new Communicator ticket would permit a power limit of 100 Watts on bands below 24 MHz and 50 Watts on all frequencies above 24 MHz. Communicator licensees would have to use commercially manufactured equipment (or gear built from a commercial kit). Communicator licensees could operate both voice and digital modes on 80, 40, 15 and 10 meters plus VHF and UHF up to 70 cm.

All three license restructuring plans call for changes to the present HF subbands.

Interested parties may view and comment on these petitions via the FCC Electronic Comment Filing System (ECFS) at <http://www.fcc.gov/cgb/ecfs/> >. When entering the RM number in the ECFS "Proceeding" field, RM must be in capital letters and the hyphen must be included.

(From The ARRL Letter, Vol. 23, No. 13)

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