

May 2001

The HARC Spark

The Official Newsletter of the
Holmesburg Amateur Radio Club

P.O. Box 6253 Philadelphia, PA 19136

146.685 Mhz Repeater -Packet BBS KB3BTF 145.030 Mhz

Web Site <http://www.harcnet.org>



Editor: WA3PZO

PREZ SAYS.....

HARC is on the move!...

Last month I mentioned that I would be attending a conference with the ARRL Section Managers, Director, and Vice Director of the Atlantic Division and the ARRL Vice President. Part of the day long session was devoted to new technology in amateur radio. I was really looking forward to learning something. The panelists and speakers were lined up. Gene, W3ZXV, Repeater Coordination; Carter, N3AO, QRP; Digital Modes, Dennis, K3DS; and the ARRL Educational Program, Kay, WT3P. Each of these speakers has been at a HARC meeting in recent months. In other words HARC is getting the best of the best regional speakers on topics of interest to the amateur community. If you haven't been to a HARC meeting recently, you should come on out. Also talk it up. HARC is simply getting the best. This month is no different. Vic, N3IO, will be speaking about the Internet Radio Linking Protocol. If you haven't had a chance to listen to 443.100 +5MHz PL 131.8 recently take a listen, particularly on weekends when it's possible to work DX from your HT. N3IO hosts one of the links and he'll explain how it's done and how you can enjoy it. Field Day is coming up next month. HARC will be at Alverthorpe Park in Abington again. Look forward to seeing you at a HARC event or on the air. Finally I want to thank WB3BDC and N3ZZN for making a trip to the main repeater site. Everything was reported in good shape.

Until next month. 73s de WA3PZO

FIELD DAY - JUNE 23 & 24

Here's some early info on Field Day, including some info just in case you haven't heard of it before.

Field Day is an annual operating event, designed to test operating capabilities of radio amateurs under simulated emergency conditions. The event has a number of objectives, particularly for our club. In addition to making as many contacts during the Field Day period as possible, it will provide an opportunity for members to experience HF operating conditions, and to publicize the value of amateur radio to local government officials and media. This year, it takes place on the weekend of June 22-24, 2001. If done right, it should also be FUN!

LOCATION will be the same as last year. Alverthorpe Park, Jenkintown Rd., Abington

EARNING POINTS - Stations operating in Field Day earn points for contacting other amateur stations, and for achieving other specified criteria.

- A. One point is earned for each station contacted on SSB.
- B. Two points are earned for each station worked on CW.
- C. The same station may be contacted for point credit on each band and on each mode.
- D. Points accumulated from operating are multiplied by a factor determined by the transmitter power used. Our group plans to use less than 150 watts, which has a multiplier of 2.
- E. Additional bonus points: In addition to points achieved for contacts and the power multiplier, the group believes that we can attain bonus points for meeting criteria in the following categories:
 1. 100 points for use of emergency power for the radios
 2. 100 points for attempting to obtain publicity from the local media.
 3. 100 points for having the operation at a public location.
 4. 100 points for having a "public information table".
 5. 100 points for originating a message to the Section Manager, WB3FPL.
 6. 100 points for copying W1AW's Field Day bulletin.
 7. 100 points for demonstrating APRS operation.
 8. 100 points for being visited by an elected government official.

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INSIDE THIS ISSUE

- 1 DX with your HT - See Prez says
- 1 Field Day
- 3 Gathering the News
- 5 Membership list
- 7 Contacting the Space Station

MAY-JUNE-JULY ACTIVITIES

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27 10 Meter Net 9a	28	29 Chaverim 9pm	30 CW Practice: 7:30 Members net: 8:00	31 HARC MEETING 8pm	1 JUNE	2 QRP TAC
3 10 Meter Net 9a	4	5 Chaverim 9pm	6 CW Practice: 7:30 Members net: 8:00	7	8	9
10	11	12 Chaverim 9pm	13 CW Practice: 7:30 Members net: 8:00	14	15	16 Kid's Day 1800-2400Z
17	18	19 Chaverim 9pm	20 CW Practice: 7:30 Members net: 8:00	21	22	23 FIELD DAY
24 FIELD DAY 10 Meter Net 9a	25	26 Chaverim 9pm	27 CW Practice: 7:30 Members net: 8:00	28 HARC MEETING 8pm	29	30
1 JULY 10 Meter Net 9a	2	3	4 CW Practice: 7:30 Members net: 8:00	5	6	7

*Dates to Note: May 31 HARC Meeting - Internet Radio
June 28 HARC Meeting - Crystal Radios*

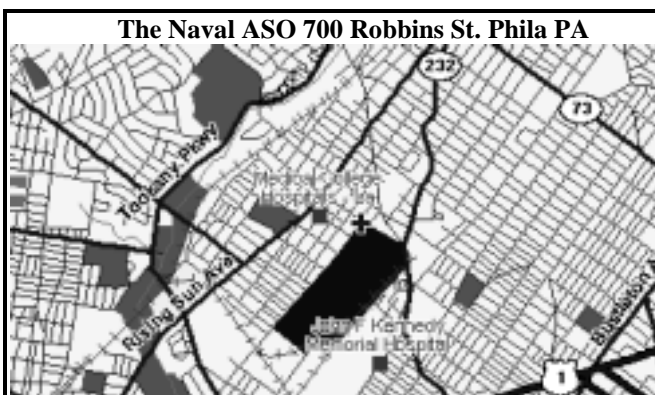
H.A.R.C. Board Of Directors 2001
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Tech Committee : WB3BDC : Ron Cardullo
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H.A.R.C. Maintains a Web Page @ www.harcnet.org
 All members Online can be emailed via theircallsign @harcnet.org. Articles, pictures etc. submitted for the newsletter should be in standard ASCII or MS Word, .jpg or .gif formats and E-mailed to the Editor no later than the 2nd Saturday to be included in the next edition!
 WA3PZO@Harcnet.org.

H.A.R.C. Nets meet on 146.685 weekly
 The Chaverim Net: Tuesday @ 9:00 PM
 CW Practice: Wednesday @ 7:30 PM
 Members net: Wednesday @ 8:00 PM you can listen to the Amateur Newline & ARRL audio reports.
 SSB Net on 28.450 +- mhz Sundays @ 9:00 AM

H.A.R.C. Monthly Meetings - The board of directors meets on the 2nd Tues. @ 8:00 PM. General meetings are held the last Thurs. @ 8:00 PM.

+ Marks the boundary of the buildings, the actual entrance is located where Rt. 232 Intersects. Stop at the guardhouse and ask if you're not sure where to go...



H.A.R.C maintains the 146.685 repeater located @ Univ. of PA., Phila PA with inputs in Abington, N.E. Phila, and Cherry Hill, NJ; More Club Information & Member Applications can be had by contacting any of the Directors via E-mail. Info@harcnet.org, the web page <http://www.harcnet.org> or writing to HARC PO Box 6253, Philadelphia, PA 19136.



HARC is an
ARRL Special Service Club.

Field Day (Cont.)

POWER We'll have a generator supplied by WB3DBC. It will be located away from operating sites, to minimize noise.

STATIONS We anticipate having two or three HF stations available for simultaneous transmitting.

SETUP TIME AND OPERATING TIME

Field Day operation actually starts at 2 pm local time on Saturday, June 23. We anticipate setting up before that time.

Once the operating activity starts on Saturday, it's a 24-hour operating marathon until 2 pm on Sunday!

FIELD DAY CALLSIGN We'll be using K3CJ.



Amateur and Advance Communications Closing

After serving the amateur community for 25 years, Amateur and Advance Communications will be leaving its current location at the end of the month.

In an email sent out on May 18th A&A owner Gisele, K3WAJ, writes "Just a short note to let you know were vacating the premises on May 31st. Building has been sold (landlord died) and I think a medical group coming in. 25% sale on all stock items. Haven't found a suitable place yet--- but will have stock at home.

Keep in touch.

73,

Gisele"

QRP TAC Contest. The EPA QRP Club, 1800-2359Z June 2. CW, QRP. 80 40 20 15 10, Exchange Call, RST, Name and TAC (Telephone Area Code) or DX area code. DX Countries may use their Prefix. Pennsylvania stations will send an X after the prefix. There are 5 categories: QRP--5 W or less; QRPp--less than 1 W; Tactical--portable using temporary antennas; Homebrew--using a kit built from scratch; Newbie--if this is the first contest you have ever entered. You may enter up to 4 possible combination of categories. Score 5pts/per QSO 10pts/ per QSO with Pennsylvania stations. 500 points with each contact with N3EPA. Work stations on each band. Score equals QSO points x TACs plus 1000 pts for every category entered. Awards. Send logs by July 8 to PA QRP Club c/o Ron Polityka, 1155 Robeson St, 2nd Floor, Reading, PA 19604-2151; n3epa@fast.net; www.n3epa.org/Pages/TAC-Contest.htm.

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But the Big Story Tonight is.....

How many times have you heard that phrase on TV? Probably several times a week. What does it take to bring a ham radio story to the world of amateur radio. This month CQ's Public Service Editor Bob Josuweit, WA3PZO tells the story and then a little of the story behind the story.

Ham dies when plane is downed in Peru (April 24)

A missionary aircraft was shot down in Peru. On board were the pilot, Kevin Donaldson, and the Bowers family, Veronica, "Roni" Bowers, her husband Jim, their son Cory, and infant daughter Charity. Veronica and their daughter were killed in the incident. Roni Bowers was KD4CKM. Her husband Jim is KD4CKN. The Bowers, from Muskegon, Michigan have been serving in Peru since July 1993.

Larry Hultquist, a fellow member of the Association of Baptists for World Evangelism, was with Bowers as he made his six-hour sworn statement to Peruvian investigators. According to reports in the *Washington Post*, Hultquist, who is a ham radio operator, monitored the plane on a standard VHF radio communicating with the Iquitos tower as well as his ham equipment. Hultquist, OA8ADM/KC7HRT, who was in Iquitos, says that both radios were standard on all missionary flights. He has been in Peru for about 14 years.

Gathering the facts...

The story of a missionary aircraft being shot down made almost immediate news. However it took a few days for the ham radio connection to be known. One of Josuweit's first tips was a search of various news sights. This is a daily occurrence. Most of the searches turn up a license class being given or a note in an obituary. However there are those days that pay off. In this case there was a mention in the *Washington Post* that a person was a ham radio operator. Since he was a U.S. missionary, a quick search on QRZ.com found Larry Hultquist's U.S. and Peru callsign. In addition there were comments posted on QRZ from Jim Bower's cousin. Good reporter follow up resulted in an interview with Hultquist and Bower's cousin. Contact was made prior to Bower's funeral so there was a great deal of

family privacy that had to be accommodated. Following the funeral contact was reestablished. Interviews were conducted and the story was ready to go to press.

Next we had to clear the use of pictures. In most cases you just can't copy a picture off of the web without getting permission. So we started with the PR Department. The answer was sure if you want to pay for them. Why some of the larger news media do pay for photos, most sources will let you use the picture on a one time, one use basis. We contacted the main office. They were more than willing to let us use a couple of their photos.

Most of the information was gathered in a few short days. Not easy when you are trying to work your main job during the day.

At the end of all of the news gathering, article writing, picture gathering, etc, you come away knowing that you are presenting a total story to the amateur community that hasn't been told anywhere else. You hope that your story will be the first in a major ham radio publication. (Watch for *July CQ*)

You have the pleasure of meeting people that share the same hobby you do. It's unfortunate that you meet many of these people in times of tragedy. In this case it was a plane being shot down, in another a ham finding the first victim of a tornado. Yet in other cases you meet them because they did something really interesting or served the public in an interesting way. Sometimes we meet them on the air or in person. It's amazing how many stories there are of hams serving in the public interest day in and day out. It's a privilege to tell the story of a few- disappointing that we can't tell them all.

What was the first electricity-generating station?

The world's first central electric generating station was Thomas Edison's coal-powered Pearl Street station, which opened in Manhattan in 1882. It supplied direct current (DC) to 59 customers, starting a revolution that would change the world.

One of the biggest problems with early electricity was that it was difficult to transmit the power farther than a few city blocks because of losses in the lines. Even so, by the end of the 1880s there were electric plants in many cities.

With the invention of alternating current (AC) by George Westinghouse, the transmission problem was solved. Because AC can easily be "stepped up" to much higher voltages, it could be sent across long distances. In 1896, the first long-distance AC lines were established between Niagara Falls and Buffalo, New York, marking the beginning of today's continent-wide electric grid.

2001 Freedom Valley Bike Ride

Building Paths, Linking Communities
Bike for Better Biking

HARC received a last minute phone call for help on this bike event. If you are interested in helping out contact WA3PZO.

DATE: Sunday, June 3, 2001

TIME: CHECK – IN FROM 7:30 am TO 10:30am

LOCATION: Start from one of 3 locations:

The Waterworks, behind the Philadelphia Art Museum, 26th & the Ben Franklin Parkway

Austin Park, Rosemont, Lancaster Ave & Airdale Rd

Reeves Park, Phoenixville, Starr & Second Streets

HAMFEST CALENDAR

Jun 1 - 3 Rochester Hamfest/Atlantic Division Convention, RARA, Rochester, NY

Jun 9 Columbia-Montour ARC, Bloomsburg, PA (EPA Section Convention)

July 15 - Mid-Atlantic ARC, Kimberton, PA

HARC GOES TO THE HAMFEST

HARC will have a table at the Mid-Atlantic ARC Hamfest on July 15 this year. We'll be promoting the Club as well as having some space for Club members goodies. Interested in helping out contact N3LXN or WA3PZO. The more people helping out, the less time anyone will have to spend at the table.

QSL POSTAGE GOING UP!

QSL card postage in the U.S. will cost another penny to mail after July 1st. The U.S. Postal Service has announced that it's raising the postcard rate by \$0.01. First-class domestic postage increased to 34 cents on January 7th.

One of the greatest bargains of ARRL membership is being able to use the ARRL Outgoing QSL Service to conveniently send your DX QSL cards overseas to foreign QSL Bureaus. Your ticket for using this service is proof of ARRL Membership and just \$6.00 per pound. For further info: <http://www.arrl.org/qs/qsout.html>

Here's a few other ARRL benefits!

<http://www.arrl.org/members-only/extra/>

The ARRL Web Extra Web'zine: Read news and feature articles that you won't find anywhere else!

<http://www.arrl.org/members-only/prodrev/>

Product Review archive: Get copies of any QST Product Review column from 1980 to the present in an Adobe Portable Document Format (PDF) file.

<http://www.arrl.org/members-only/qqnsearch.html>

QST/QEX Search: Search an index of all issues of QST and QEX

ARRL Executive Committee Reviews Preliminary 5 MHz Band Petition

Meeting May 5 in Dallas, Texas, the ARRL Executive Committee reviewed a preliminary draft Petition for Rule Making seeking a new US ham band in the vicinity of 5 MHz. Experimental operation in that part of the spectrum under a license issued to the ARRL has been going on since 1999.

The Executive Committee agreed that the petition should seek a domestic secondary allocation around 5 MHz for the Amateur Service with a bandwidth of 150 kHz. Executive Committee members will review the completed draft petition before it's filed with the FCC, possibly before the next ARRL Board meeting in July.

Participants in the ARRL WA2XSY experimental operation on 5 MHz have established that an allocation at 5 MHz could improve emergency communication capabilities by filling the gap between 80 and 40 meters. An amateur allocation in the vicinity of 5 MHz long has been an objective of the International Amateur Radio Union.

Winning an allocation at 5 MHz--even on a domestic basis--could take several years. Securing an international allocation will be more difficult and take even longer. Consideration of an allocation at 5 MHz is not on the agenda for WRC-03 nor on the preliminary agenda for WRC-05/06.

In other matters, the Executive Committee was told that an FCC Notice of Proposed Rule Making still is expected soon in response to the ARRL's petition, RM-9404, seeking Amateur Radio access to the low-frequency spectrum. Filed in late 1998, the ARRL petition asks the FCC to establish LF allocations in the vicinity of 136 kHz and between 160 and 190 kHz.

ARRL General Counsel Chris Imlay, W3KD, also told the Committee that the ARRL's Application for Review that seeks to clarify the FCC's PRB-1 limited preemption policy with respect to amateur antennas is pending before the full Commission. The ARRL wants the full Commission to review--and reverse--an FCC staff decision declining to extend PRB-1 coverage to include CC&Rs--covenants, conditions and restrictions. The EC agreed to request an en banc presentation to the full FCC this fall, after new Commission appointees have been seated.

The Committee also was told that favorable FCC action is anticipated on a petition seeking to upgrade Amateur Radio's status from secondary to primary at 2400 to 2402 MHz. The ARRL recently asked the FCC to elevate Amateur Radio from secondary to primary at 2300 to 2305 MHz.

The minutes of the ARRL Executive Committee meeting in Dallas are available on the ARRL Web site, http://www.arrl.org/announce/ec_minutes_466.html.

ARLD020 DX news

This week's bulletin was made possible with information provided by Tedd, KB8NW, the OPDX Bulletin, QRZ DX, K7BV, 425DXnews and The Daily DX. Thanks to all.

RODRIGUES ISLAND, 3B6. Robert, 3B9FR, has been QRV around 24900 kHz at 1200z. He has also been active around 21295 kHz just prior to 1300z.

NIGER, 5U. Jim, 5U7JK, has been active on 28495 kHz around 1630z. QSL via I2YSB.

EAST MALAYSIA, 9M6. ON4ON and ON5SY will be QRV as 9M6ONT from Sabah from May 21 to 30. This includes an entry in the CQ WPX Contest. QSL via ON4ON.

CHINA, BY. BA4DW/2 is QRV from the Changshan Islands in the Liaoning Province East Group until May 22.

MOZAMBIQUE, C9. Joe, G3MRC, is now active as C91MR/3 from Beira. He is usually QRV on 24901 kHz between 1600 and 1830z. QSL to home call.

CEUTA AND MELLILA, EA9. Toni, EA9AK, has been QRV using RTTY on 14091 kHz around 2000z.

FRANCE, F. Special event station TM0AR is QRV on 40 to 10 meters, including the newer bands, until May 27 during the International Festival of Art and Technologies. QSL via F5TJC.

GALAPAGOS ISLANDS, HC8. Kay, K6KO, and Ken, K6TA, will be QRV as homecalls/HC8 for one week beginning May 19. They will use CW, SSB and RTTY. QSL both calls via WM6A.

ITALY, I. Special event station IQ8MFC is active through July 31 to celebrate the centenary of Marconi's First Transatlantic Contact between Great Britain and Newfoundland. QSL via IZ8AJQ.

PAPUA NEW GUINEA, P2. Look for Ron, VK3IO, to be active as P29IO from May 18 to August 22. QSL to home call.

FERNANDO DE NORONHA, PY0F. Dennis, K7BV, will be QRV as PV0F beginning May 24. He will be active on 160 to 6 meters, primarily using CW, until June 1. He will also be QRV in the CQ WPX CW Contest. QSL via KU9C.

BANGLADESH, S2. Rashid, S21AR, is active almost daily on 15 meters. Check around 21260 and 21290 kHz, from 1100 and 1530z or after 0430z. QSL via JA1UT.

CHAD, TT. Chris, TT8DX, has been very active on 10 meters. Check 28495 kHz starting around 1330z. QSL via F5OGL.

MACAO, XX9. Arto, OH2KW, is QRV as XX9TKW until May 20. He will also be QRV during the CQ WPX Contest. QSL to home call.

SOUTH COOK ISLANDS, ZK1. Carsten, DL1EFD, is QRV as ZK1EFD from Rarotonga, IOTA OC-013, until May 29. He is active on 80 to 10 meters using mostly CW. This includes an entry in the CQ WPX Contest. QSL to home call.

National Hurricane Center Announces On-The-Air Test Event

According to the National Hurricane Center's amateur radio Web site (<http://www.fiu.edu/~w4ehw/>), the W4EHW Hurricane Season 2001 On-The-Air Test Event will take place on Saturday, June 2, 2001, from 0900 to 1800 hours EST, on 7.268 MHz, 14.325 MHz, 21.325 MHz, 28.525 MHz, local VHF and UHF repeaters, and 146.52 MHz simplex.

Give your call sign, signal report, location, and short weather report ("Sunny", or "Rain", etc.). Non-hams are invited to submit actual weather on the on-line hurricane report form:

<http://www.fiu.edu/orgs/w4ehw/WX-form1.html>

QSL cards are available by sending an SASE to Layton Ruse, W4VBQ.

Additional QSL information is posted at:

<http://www.fiu.edu/orgs/w4ehw/w4ehw-qsl.html>

ALINCO SHIFTS NORTH AMERICAN DISTRIBUTION, SERVICE TO OHIO FIRM

Amateur Radio manufacturer Alinco has closed its US branch in Torrance, California, and shifted its North American distribution to an Ohio firm.

Alinco product distribution and customer service now are being handled by Atoc Amateur Distributing LLC in Covington, Ohio. The change was effective May 1.

A news release posted on the Alinco Web site says that Alinco will continue to be "a very committed, viable player in the Amateur Radio marketplace" and that all Alinco warranties "will remain in force and continue to be honored through their term." In addition to dealer distribution, the Atoc facility in Ohio is taking over customer support and out-of-warranty service of Alinco products and sales of Alinco parts. Parts sales have been temporarily suspended during the changeover, and service could be disrupted for a time as well.

The announcement said Alinco will concentrate on designing and manufacturing products from its Japan headquarters in Osaka and factory in Toyama. For more information, visit the Alinco Web site, <http://www.alinco.com>, or contact Atoc Distributing LLC, 23 S High St, Covington, OH 45318; 937-473-2840. (via ARRL)

Electric bike-mobile nets DX for New Jersey ham:

Operating bicycle mobile in New Jersey, ARRL member Vincent Diak, WB2PDW, made his first SSB DX contact, working G2BKZ on 20 meters. Diak's station, a Yaesu FT-817 running 5 W to an Outbacker Perth antenna, was installed on his Lafree electric bike (<http://www.Lafree.com>). The bicycle has a battery-driven motor to assist the rider on grades and a computer that determines when you need help. Signals were Q5 in both directions. Diak said he supplemented the Yaesu's internal battery with a "water bottle" battery--a battery pack made to fit into the water-bottle holder on the bike's frame. For a closer look at bicycle mobiling, see the Bicycle Mobile Hams of America Web site, <http://www.lafetra.com/bmha/>. (via ARRL)

If you are reading this page then you are getting two more pages of news than those receiving the newsletter via the U.S. Mail.

This month we included the membership list which took up two pages. The membership list will be sent separately via email.

Philadelphia Sports Will the streak continue?

The Raptors-76ers NBA series has had a strange twist with the Phillies schedule. When the Phillies and 76ers played the same day, the results were the opposite:

May 6 Phillies won 76ers lost

May 9 Phillies lost 76ers won

May 11 Phillies won 76ers lost

May 13 Phillies lost 76ers won

May 16 Phillies lost 76ers won

May 18 Phillies won 76ers lost

May 20 Phillies lost 76ers won

The same pattern almost existed during the 76ers-Pacers series:

April 21 Phillies won 76ers lost

April 24 Phillies won 76ers won

April 28 Phillies lost 76ers won

May 2 Phillies lost 76ers won

**Ok the last story wasn't about ham radio,
but it's about the city.**

**Hope to see you all at the HARC Meeting,
May 31.**

HARC SPONSORS NEW HAM CLASSES

HARC will be sponsoring new ham classes starting October 17. Classes will cover the Technician Class license. Coordinating efforts and teaching will be Frank, N3ZZN. Classes will be at the Oxford Circle Jewish Community Center. If you would like to help contact Frank at N3ZZN@aol.com.

FCC EXAM QUESTIONS OF THE MONTH (from the General and Extra exams)

1. Up to what height above the ground may you install an antenna structure without needing FCC approval unless your station is in close proximity to an airport as defined in the FCC Rules?

- A. 50 feet
- B. 100 feet
- C. 200 feet
- D. 300 feet

2. What is the maximum mean power permitted for any spurious emission from a transmitter or external RF power amplifier transmitting on a frequency below 30 MHz?

- A. 50 mW
- B. 100 mW
- C. 10 mW
- D. 10 W

Check answers at the bottom of the page.

CONTACTING THE INTERNATIONAL SPACE STATION (Thanks Reading Radio Club)

Thanks to Eric Wolfe, WB3IHQ, for calling our attention to this great NASA Web page. This is the type of tasks that computers do best.

Are you interested in trying to contact the International Space Station (ISS) on 2 meter FM ?

Well, the following address is where you should head to find out where the ISS is in relation to your Earth location.

http://science.nasa.gov/newhome/headlines/ast06may99_1.htm

This Web site, by typing in your ZIP code, will tell you when you can possibly contact or visually see the ISS (also known as the "Station") crossing overhead.

When you get to the above site you must scroll to the bottom of the page and single click "J-Pass 2.0"

Single click "Find by US Zip"

Type in your five digit ZIP code in the small window, and then click "Okay"

Then click the "Control" tab on the open window.

Under "Search Criteria" select "All passes" (pull down menu). Then click " >>> Start <<<"

You will now get a new date/time window that will have "STATION" listed on the left. The black color is nighttime

and the blue color is daylight at your location. Single click one of the small green bars near the top of the date/time graph. Yet, another window will pop up showing you the path of the ISS. In that window keep clicking "Next Pass" to check out future passes that you might want to see if you can visually spot or possibly try and contact the ISS on 2 meters. Remember, you can usually only visually see the ISS crossing when it is nighttime at your observation point. The date/time graph window has a "Next Day" box at the bottom that you can keep clicking to see when the ISS will be in darkness at your location.

Do not lose your way with all of the open windows on your screen, you may have to click and drag and resize the windows to keep the satellite track and date/time chart windows in view.

This site has a lot to offer and you will need some time to explore all of the options and new features that are always being added.

The following information may be of help if you are trying to contact the ISS:

Worldwide downlink for voice and packet is: 145.800 MHz FM

Uplink voice for Region 1 is: 145.200 MHz FM

Uplink voice for Regions 2 and 3 is: 144.490 MHz FM

USA Callsign: NA1SS

Russian Callsign: RS0ISS or RZ3DZR

German Callsign: DL0ISS

Have fun, and let us know how you do in spotting the International Space Station or working the ISS on 2 meters.

Kid's Day

Kid's Day is just around the corner. On June 16, 1800 to 2400 UTC, kids of all ages are invited to experience ham radio.

Amateurs are encouraged to invite youngsters into their shack to enjoy the fun. Kid's Day began in 1994 with a one-hour program created by the Boring Amateur Radio Club in Boring, Oregon. The youngsters exchanged names and their favorite color. Forty kids participated. Last year, more than 1000 took part in the event, now sponsored by ARRL. All participants can download a personalized certificate. There's no limit on operating time. The suggested exchange is name, age, location and favorite color. You are encouraged to work the same station again if an operator has changed. Call "CQ Kid's Day." Kid's Day rules, frequencies and other information are on the ARRL Web site, <http://www.arrl.org/FandES/ead/kd-rules.html> and in the June issue of QST, p 48.

FCC EXAM ANSWERS:

- 1. (C) [97.15a] (General)
- 2. (A) [97.307d] (Extra)



HOLMESBURG AMATEUR RADIO CLUB

P.O. Box 6253 Philadelphia, PA 19136

"Serving the Community Through Ham Radio"

***SEE YOU AT THE MAY 31 MEETING!
INTERNET LINKING RADIO PROTOCAL***

NEXT MEETING:

DATE: May 31, 2001

TIME: 8:00 PM

LOCATION: NAVAL ASO (OXFORD AND MARTIN MILLS ROAD)

TOPIC: INTERNET RADIO LINKING with N3IO