

Feed Line

GARA - We're putting the "Spark" back in Amateur Radio®



Volume 15, No 4

Editor: Tom Forrest, N4GVK

Web Site: www.w4gso.org

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Tape Measure Yagi Used For EME Contact

A Feed Line Special Feature

by Paul Whatton, G4DCV
Aldershot, Englnad UK

In a moment of madness during the EME contest on 12 and 13 November 2005 I decided to have a listen on EME using my WB2HOL 2m DF yagi. This little antenna is made from a steel measuring tape which makes it excellent for fox-hunting. The elements just bend when you take it out of the car or run crashing through undergrowth looking for the fox.

I stuck the handle of the yagi into some plastic pipe, hooked up a length of LDF4-50 to run back to the rig, propped it up using a garden deckchair and pointed it at the moon.

The first station I copied with this antenna on Saturday was Dmitry RA3AQ calling CQ using WSJT JT65b. Having heard him I couldn't of course resist giving him a call and much to my suprise he heard me too. Unfortunately we didn't manage to complete the QSO.

I wasn't able to be QRV again until Sunday evening. Soon after his moonrise I heard Dave W5UN calling CQ and almost fell off my chair when he came back straight away to my call.

It was a textbook random JT65b EME QSO with no missed periods and we exchanged O reports and Rs. Easy!

I then went onto ON4KST Chat and Dmitry RA3AQ asked me to have another try with him. This took a little longer than the QSO with Dave, for two periods I couldn't copy him, but by EME standards it was still easy.

The WB2HOL yagi was built to the dimensions given by Dave G3ZOI on the

Basingstoke ARC web site.

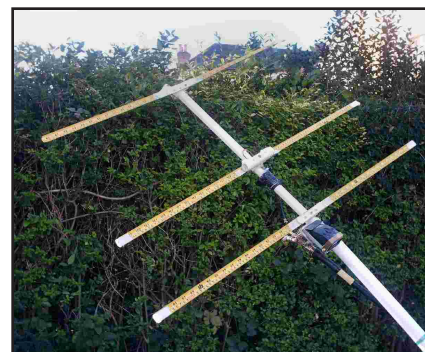
The SWR using the hairpin match was 1.2:1 without making any adjustments to the dimensions. A length of RG-58 was coiled round the boom as a balun and the boxes behind the reflector are a digital compass for taking DF bearings and a series tuned circuit for nulling signals when DFing close in to a transmitter. The nulling attenuator box was of course disconnected for these QSOs. The rest of my station was a FT-736 with 3SK97 preamp in the shack. I was running 400 watts output from a home-made amplifier using a pair of Russian GI-7b triodes. The feeder was a 17 metre length of Andrew LDF4-50. The yagi handles 400 watts without any problem.

I also heard and called KB8RQ and RU1AA with this antenna but only managed to get a QRZ from them. Sam RN6BN was an extraordinary signal peaking at -18dB and audible in the loudspeaker. He would have been easily workable but I had already made a QSO in the contest with him using my "big array" which is a 9 element Tonna! Gerald K5GW was also a great signal.

Thanks to Dave W5UN and Dmitry RA3AQ for building excellent EME stations which make this kind of fun QSO possible. Thanks also to WB2HOL for the original yagi design, to Dave G3ZOI for the modifications he has detailed on the Basingstoke ARC web site and of course to Joe K1JT for WSJT.

Email: paul.whatton@ntlworld.com

Editor's Note: GARA member Joe Leggio, WB2HOL, designed and built the tape measure yagi antenna and demonstrated it during a GARA meeting recently. Many GARA members own and use one of the antennas for "fox hunts." Thanks to Paul for a great article and Joe for a great antenna design.



Photos courtesy Paul Whatton, G4DCV

Paul's WB2HOL tape measure yagi antenna he used for his EME contact in November 13, 2005.

Next Meeting

The next meeting of the Greensboro Amateur Radio Association will be April 24, 2006 at the Golden Corral Steak House off Wendover Ave.

A program will be presented by Jim Allred, a POW during the Korean War."

A Spectrum Marker for 500 Kilocycles

Radio Buffs Lobby to Make Historic 500 kHz a 'Memorial Frequency'

by James Careless

For almost a century, 500 kHz was a lifeline for ships worldwide. Better known as 500 kilocycles, it was the spectrum reserved for ships and the shore stations that communicated with them in Morse Code (sometimes referred to as CW, for continuous wave).

If you're a real radio old-timer, you might refer to the frequency as 600 meters.

"To ensure that SOS calls were always heard, all ship and shore stations were required to monitor 500 kHz at all times," said Richard Dillman, secretary and chief CW operator of the Maritime Radio Historical Society. "At 15 and 45 minutes past the hour, all users were required to go silent, so that any weak SOS calls could make it through."

Over the years, countless distress calls were transmitted and heard on 500 kHz, including those from the Titanic. In fact, it was Titanic's loss that inspired the 500 kHz monitoring rules.

But even in recent times, 500 kHz has been a lifesaver. For instance, when the Holland America passenger ship Prinsendam caught fire and sank in the Gulf of Alaska on Oct. 4, 1980, it was Morse via 500 kHz that brought help. As for the Prinsendam's high-tech satellite radio system? It failed. Without Morse and 500 kHz, help would have arrived too late.

With the demise of commercial Morse traffic, 500 kHz - "we still call it 500 kc," said society President Tom Horsfall - has fallen mostly silent around the world. Exceptions are events such as the annual MHRs' "Night of Nights" Morse broadcasts from restored RCA shore station KPH near San Francisco, which is maintained by society volunteers and the National Parks Service.

"At least two - and soon three - historic ships that have valid ship station licenses

use 500 kc to communicate with each other and KPH and KSM," he said. As well, "Recently coast station KLB in Seattle restored operation on 500 kc."

Amateur radio operators are interested in the spectrum. But given the frequency's august history, Dillman, Horsfall and other society members are lobbying to have 500 kHz designated as a "memorial frequency." This, they say, would prevent the spectrum being reallocated by the International Telecommunication Union and keep 500 kHz open for future Morse events such the Night of Nights, which attract listeners around the world.

Dillman is not aware of any similar

"Sacrilege"

At first, the notion of preserving a piece of radio spectrum as a historic "site" might seem strange. After all, spectrum is not tangible, like a building or artifact, so how can one "preserve" it?

Dillman and Horsfall become passionate about the topic. Arguing that the actual amount of bandwidth removed from use would be "a tiny slice," they say reallocating 500 kHz to other uses would be "sacrilege."

"We've spoken to ship and shore radio operators around the world, and they generally agree that 500 kc is 'hallowed ground,'" said Dillman. "That's why they are hoping that the ITU will agree to setting 500 kc aside as a memorial frequency."

Some ham radio operators seem none



The KPH receive site on the Pt. Reyes peninsula north of San Francisco was built in 1929 for reception of RCA's point-to-point service. The KPH marine service moved in to share the building after World War II. The primary KPH medium frequency position is shown; it also operates on HF. The clock above the door is marked with silent periods at 15 and 45 minutes.

Photos courtesy Richard Dillman/Maritime Radio Historical Society

designation. "The concept of an International Memorial Frequency ... originated with the MRHS," he said. "While we can't speak for the ITU, I think we can say without fear of contradiction that no other frequency has been so designated."

too keen about setting 500 kHz off-limits. "This is going too far!" wrote one ham at www.eham.net. "History is important, granted, but the fact that many very talented old-timers are growing older and older does not justify turning the radio

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2006 GARA Membership Roster

4/14/2006

Call Sign	First Name	Last Name	Address	City	Zip	Home Phone	E-mail
K4ZKQ	W. D. "Al"	Allred	1408 Valleymede Drive	Greensboro	27410	336-299-7774	k4zq@bellsouth.net
KT4AT	J. B. "Arch"	Archinard	4100 Jeffrey Lane Point	High Point	27265	non-published	kt4at@compuserve.com
AK4RB	R. "Dick"	Battle	2501-D Patriot Way	Greensboro	27408	336-545-1892	djbattle-gboro@att.net
KG4PVY	Joseph "Joe"	Beeler	5609 Faye Drive	Greensboro	27410	336-643-5613	beelerj@gmail.com
KG4QGH	Deborah "Debbie"	Beeler	5609 Faye Drive	Greensboro	27410	336-643-5613	beelerj@gmail.com
WB4KOW	M.S. "Chip"	Block	6504 Portrait Drive	Greensboro	27410	336-294-0837	wb4kow@aol.com
KR4QH	Randy M.	Bowers	5200 Northforest Drive	McLeansville	27301	336-375-4360	kr4qh@arrl.net
N4AMP	Frank	Boyd	1105 Hickory Trace Drive	Greensboro	27407	336-852-4692	jboyd@bellsouth.net
N4CPV	George E.	Blosser	8 Baywater Lane	Greensboro	27408	336-282-2333	
KD4IUN	Allen J.	Bradley	5405 Garden Lake Drive	Greensboro	27408	336-292-8906	none
KD4TMD	Ryan A.	Bradley	5404 Garden Lake Drive	Greensboro	27408	336-292-8906	mabradle@uncg.edu
KE4SVJ	Madeline A.	Bradley	5404 Garden Lake Drive	Greensboro	27408	336-292-8906	mabradle@uncg.edu
KE4MOI	Don	Carter	602 N. Greensboro Street	Liberty	27298	336-622-4601	dmccarter@nuvox.net
KE4IAF	D. F. "Dave"	Collins	1905 Sheree Lane	Greensboro	27406	336-697-2970	ke4iaf@arrl.net
W8JFQ	R. E. "Bob"	Davet	2102 Smokeridge Lane	Greensboro	27407	336-855-1558	davet101@bellsouth.net
KI4BMS	John C.	Doggett	7962 Highfill Road	Summerfield	27358	336-843-1777	ki4bms@arrl.net
KG4ZQL	Mary J.	Doggett	7947 Highfill Road	Summerfield	27358	336-843-1927	none
KG4HOM	W. C. "Clark"	Doggett	7986 Highfill Road	Summerfield	27358	336-643-3236	kg4hom@arrl.net
KG4ZQK	Jane G.	Doggett	7986 Highfill Road	Summerfield	27358	336-643-3236	doggettja@bellsouth.net
KD4WQZ	Gerald	Donnelly	1819 Tiffany Place	Greensboro	27408	336-282-3453	gdonnelly@triad.com
WA4AXW	S.G. "Sharon"	Elosser	1548 Pine Land Drive	Kernersville	27284	336-841-2546	pde444@northstate.net
N4YBT	C.L. "Carl"	Fabian	5518 Robinridge Road	Greensboro	27410	336-632-0447	cfabian@mindspring.com
KA4KYA	C.A. "Carol"	Fabian	5518 Robinridge Road	Greensboro	27410	336-632-0447	cfabian@mindspring.com
W8CCW	John L.	Ferrell	6241 Phillippi Road	Julian	27283	336-685-9606	none
W4ONM	Grady	Fonville	1001 Sykes Avenue	Greensboro	27405	336-274-3984	fonvilleg@aol.com
N4GVK	J.T. "Tom"	Forrest	4994 Heritage Woods Drive	Greensboro	27407	336-294-6771	n4gvk@bellsouth.net
KA4DGS	Vashti P.	Forrest	4994 Heritage Woods Drive	Greensboro	27407	336-294-6771	ka4dgs@bellsouth.net
N7WWS	William H. "Bill"	Glaze	7004 Morganshire Court	Summerfield	27358	336-643-4132	billglaze@triad.rr.com
KG4EPQ	Bert A.	Goldman	1608 Ilchester Court	Greensboro	27408	336-292-6999	none
W4JLH	J.L. "Jim"	Hightower	6005 Siler Road	Greensboro	27406	336-674-6706	hightower@wmconnect.com
WD4MVM	C.R. "Ray"	Joyce	3912 Yanceyville Street	Greensboro	27405	336-621-5753	cjoyce007@earthlink.net
WD4AIE	W.A. "Beefy"	Lambert	6100 W. Friendly Avenue	Greensboro	27410	336-299-1925	none
KG4HCT	J.R. "Rudy"	Langley	3493 Hancock Drive	Greensboro	27410	336-294-4212	kg4hct@aol.com
WB2HGL	Joe	Leggio	5415 Ashbey Lane	Summerfield	27358	336-643-6088	jleggio@att.net
WB2PDV	Eileen	Leggio	5415 Ashbey Lane	Summerfield	27358	336-643-6088	
NT1J	Charles	Lyons	313 North Tremont Drive	Greensboro	27403	336-373-9517	NT1J@arrl.net

2006 GARA Membership Roster

4/14/2006

Call Sign	First Name	Last Name	Address	City	Zip	Home Phone	E-mail
N4JBM	Margaret D.	Mauldin	1010 Canonero Drive	Greensboro	27410	336-299-2005	none
WG4R	W. D. "Bill"	Mauldin	1010 Canonero Drive	Greensboro	27410	336-299-2005	bill@mauldin.net
N4RKU	W. D.	Mauldin Jr	1010 Canonero Drive	Greensboro	27410	336-299-2005	none
KE4MOW	R. F. "Bob"	Mays	3505 Lakefield Drive	Greensboro	27406	336-272-2494	ke4mow@att.net
AD4YB	E.M. "Ed"	Miller	103 Tatum Place	Greensboro	27455	336-282-0937	eddsad4yb@aol.com
KI4FI	W.D. "Bill"	Mullins	6320 W. Friendly Avenue	Greensboro	27410	336-852-4035	mullbill@aol.com
W4DGE	D.L. "Daniel"	McMillin	3200 Greenhollow Drive	Greensboro	27410	336-545-1989	dlim-01@bellsouth.net
N4DFA	F. Carlton	O'Rork	10 Windcrush Court	Greensboro	27455	non-published	n4dfa@att.net
N4DFB	Patsy B.	O'Rork	10 Windcrush Court	Greensboro	27455	non-published	n/a
W4NLP	Norman L.	Parrish	4707 Cricklewood Road	Greensboro	27407	336-294-4701	w4nlp@arri.net
KG4STP	Mark L.	Robertson	2122 New Garden Road	Greensboro	27410	336-545-3319	beowulfmr@att.net
KD4BQD	E.B. "Bert"	Rupert III	4703 Creekview Road	McLeansville	27301	336-621-6584	none
K3ZGA	R. J. "Bob"	Schwer	5505 Turtle Cove Court	Greensboro	27410	336-605-8025	k3zga@cs.com
KG4AYA	F.D. "Frank"	Shepard	2321 NC 62	Julian	27283	336-685-4698	fdshepard@aol.com
N4BYU	Roy G.	Smith	2740 Tabernacle Church Road	Pleasant Garden	27313	336-674-6131	n4byu@arri.net
KG4UQV	J.G. "Greg"	Spencer	2401 Ellington Street	Greensboro	27403	336-292-0974	kg4uqv@arri.net
WA4OBR	G.S. "George"	Stentz	514 N. Mendenhall Street	Greensboro	27401	336-875-3003	murphngeorge@mymailstation.com
N4RWS	R.W. "Roger"	Stout	2210 Ledford Road	Greensboro	27406	336-674-3398	n4rws@arri.net
KD4VGP	Jo Ann	Stout	2210 Ledford Road	Greensboro	27406	336-674-3398	none
NC4CT	C.A. "Clarence"	Tillery	1618 Milan Road	Greensboro	27410	336-288-4663	ctillery2@triad.rr.com
NC4EW	E. K. "Ernie"	Wall	8504 Bromfield Road	Oak Ridge	27310	336-643-6468	ewall@attglobal.net
W4TWZ	L.P. "Larry"	Willoughby	1 Cranwood Court	Greensboro	27455	336-282-2435	lpwill@mindspring.com
KI5V	D.C. "Chris"	Wing	5808 Cold Harbor Drive	Greensboro	27410	336-643-1356	KI5V@arri.net
N5SOC	Anita W.	Wing	5808 Cold Harbor Drive	Greensboro	27410	336-643-1356	none
N4ERL	Earle H.	Yeamans	105 East Newlyn Street	Greensboro	27408	336-854-2168	eyeamans@triad.rr.com

Web site:
www.w4gso.org

Greensboro Amateur Radio Association
Repeater Trustee & Control Operator, Roy Smith, N4BYU
Control Operators:
Carlton O'Rork, N4DFA
Tom Forrest, N4GVK
"Arch" Archinard, KT4AT

E-mail:
info@w4gso.org

Spectrum Marker from page 4

waves into a memorial. Gads! This is gross!"

(Made aware of this comment, Dillman replied, "Of course the fact that old-timers are old has nothing to do with our proposal.")

Another ham wrote, "I think they should just reallocate 500 kHz for amateur use and then these historical coastal stations can share it as secondary users under that same proposal. I do not agree that 500 kHz should be specifically allocated for historical station use only."

Other hams defend the society's idea. Wrote one ham, "These folks and their organizations are part of commercial maritime radio. They use 5-20 kW transmitters. None of their frequency allocations are in the Amateur Radio Service. In fact, in their proposal for the International Memorial Frequency they state: 'It is important to note that this proposal is not intended to establish a new frequency in the amateur radio service. In fact the aim is quite the opposite.'"

"We don't want anything to change," Horsfall emphasized to Radio World. "We would like all authorizations to stay the same, with the addition that each ITU



Photo shows an antenna selector switch for Receiver 3 at Position 1. Receiver 1 below is a Watkins-Johnson tuned to 500 kc.

signatory country could license legitimate historic marine radio projects to use 500 kc."

A decision whether to "memorialize" 500 kc would be made by the ITU. To this end, the MRHS is lobbying contacts within the international body, hoping that they will help turn the MRHS' dream into reality. Dillman said the concept of an

International Memorial Frequency has been presented informally to the ITU by a supporter of the idea who attends its meetings.

"At the moment the ITU has not expressed an opinion on the concept," he said.

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Ham Happenings NEWS briefs

Earl Yeamans, N4ERL, has been moved to Beacon Place Hospice, 2502 Summitt Ave., Greensboro. He is in room 5. Earl's condition is declining rapidly. He is up for a short visit. We will keep you updated.

Earl Fox, W4DWR's white blood cell count is now in the normal range, and he's feeling better. He'll be going to Moses Cone for rehab sometime this week, to build his strength back up. Might be there a week or so, then we hope he can come home. He's currently at Wesley Long in room 280, and he can have phone calls

832-1280. (updated 4/10). If you have any questions, you may e-mail his daughter, Debbie, at w4dwr@aol.com

GARA member **Tom Forrest, N4GVK**, was recently featured in a television feature on WGHP-FOX 8. The interview was by Brad Jones for his segment on "Brad's Old Stuff."

The story is about Tom's Dad, J. Tom Forrest, of Greenville, NC (1920-2005) and his script handwriting. Tom had his Dad's writing converted to a font for the computer by an Oregon company. Forms were completed for the project in 1994 and were found Tom's Dad's papers after his death. The company still was in business and was able to use the old forms.

For Sale

Radio Shack HTX-200 2M Mini Handheld Transceiver – 2W high/200mW low, RX 136-174 MHz, stores 30 freqs with offsets and tones, very small 2 _ x 3 3/8 x 1 1/16 4.2 oz, great little pocket size transceiver for local use. \$40, Frank Boyd, N4AMP,



n4amp@bellsouth.net or 336-207-1764.

GARA Meeting Minutes



Regular Meeting March 27, 2006

The regular meeting of the Greensboro Amateur Radio Association was held at the Golden Corral Restaurant Monday evening March 27 at 7:15 PM at the Golden Corral Steak House off Wendover Ave.

The meeting was called to order by President John Doggett, KI4BMS. The minutes of the previous meeting were approved as printed in the "Feed Line." Birthdays were noted with no singing. Members also noted the loss of Pete Wilson, K4CAV, and Clark Doggett's KG4HOM, sister. Earl Fox, W4DWR, was in the hospital.

There was no old business reported. Committee reports were presented.

Treasurer Ernie Wall, NC4EW, reported all was doing well.

Secretary/web master/news letter editor Tom Forrest, N4GVK, reported everything was going well and the web site was getting steady attention from non-hams and those wishing information about amateur radio in the Greensboro area. The Feed Line News Letter was also getting a lot of attention and we were receiving some great articles. Tom also requested more input from members.

Engineering Committee report was presented by Arch, KT4AT. Arch said his first priority is the LogPer Manual for his new antenna design software. Also he noted the controller ID will operate as "polite", which meets FCC requirements and further announcements will also be "polite." He's said there's still a problem with the meeting announcement and that this is a bug in the software. Other housekeeping issues: city has a new generator ready for installation, surge protectors are ready for re-installation along with the repaired UPS. Also a retuning when temperatures are warmer

Operations Chairman and Repeater Trustee Roy Smith, N4BYU, had no report. John Doggett, KI4BMS, reported about various events upcoming and Allen Bradley once again requested operators for the Natural Science center Ham station and also he needed volunteers for the upcoming soccer tournament in May.

The program for the evening was presented by Don Campbell, KG4IYH, Assistant Coordinator of Guilford County Emergency Management. Don gave a demonstration of the county's satellite phones and their operations. He said the phones were purchased with Homeland Security grant money and will be used during emergencies. The members thanked Don for a great program.

There being no further business, the meeting was closed at 8:14 pm

Respectfully submitted by Tom Forrest, N4GVK, Secretary

Emerging Technology :

New Heavy Metal Free Glass For LCD Panels

A heavy metal-free glass developed by Corning Inc. will trim production and recycling costs. This, at a time when prices for the super-thin screens used in liquid-crystal-display televisions are falling more sharply than ever.

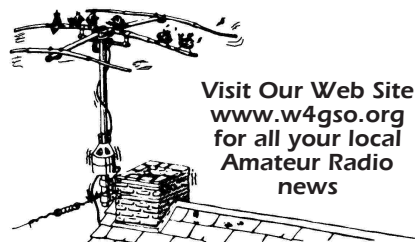
Corning uses a proprietary "fusion draw" process for making the unvaryingly flat, chemically stable glass. Two sheets separated by a layer of liquid crystals make for high-resolution monitors found in TVs, computers and digital phones as well as video cameras, Palm Pilots, watches, medical imaging devices and

aircraft navigation panels.

Corning says that its Eagle XG glass is the first in the LCD industry to be completely free of arsenic as well as other heavy metals such as barium and antimony and halides like chlorine and fluorine. Those can produce potentially harmful byproducts during manufacturing.

According to Peter Bocko, who is Corning's director of display-technology research, the new glass reduces the overall cost all the way from digging stuff out of the ground to the end of life of the display.

Corning, the world's largest maker of liquid-crystal-display glass, created the first LCD glass free of barium and antimony in 2000. (Corning - via AR Newsline)



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Remembering Pete Wilson . . .

by Bob Mays, KE4MOW

Approximately ten years ago, not long after I had entered the hobby of amateur radio, I had the need for technical



Pete Wilson, K4CAV

would be the greater challenge rather than the latter.

I found him to be extremely approachable and while I posed my project to him, he listened intently. He asked

several questions then offered alternative solutions and finally said, "If you want, I will work with you on it." I took him up on his offer and never regretted the decision. I was introduced to his small but productive "shop," tucked in the rear of his garage. Equipment wise, it contained a drill press, a metal turning lathe and an abundance of hand tools and power hand tools. In the garage proper, he had a radial arm saw, a band saw, a wire wheel buffer and a grinder.

For those of you who know me, the former

several questions then offered alternative solutions and finally said, "If you want, I will work with you on it." I took him up on his offer and never regretted the decision. I was introduced to his small but productive "shop," tucked in the rear of his garage. Equipment wise, it contained a drill press, a metal turning lathe and an abundance of hand tools and power hand tools. In the garage proper, he had a radial arm saw, a band saw, a wire wheel buffer and a grinder.

Starting with this visit and every one

thereafter, Pete never made light of my lack of technical skills. I did that to myself. He focused solely on that of sharing the wealth of his knowledge to improve mine. He never turned me down when I asked for help. During my visits, we discussed more than technical "stuff." Pete was never without an opinion on most anything including, but not limited to politics, religion, amateur radio, GARA and GAS.

Over time, I found myself gravitating towards Pete and his willingness to help. He seemed very content with the successes we enjoyed together and the meager reward of a "thank you Mr. Wilson" and the periodic delivery of a pecan pie.

Amateur radio will be the poorer with Pete not around; a resource untapped to its fullest.

I consider myself a richer person for having spent a small portion of time with him over the past ten or so years.

Making a Voice Contact with the International Space Station

Via ARRL Web Site
By Bob Varone, W4ETN
bvarone@bellsouth.net

The key to making a contact is knowing when the ISS is overhead.

I have been in Amateur Radio for over 42 years and have worked just about all modes and bands but I must say the biggest kick was having voice contacts with the International Space Station. Most would think this would be hard to do, but using standard 2 meter equipment and a modest antenna it can be done easily.

The first thing you will need a 2 meter radio that can be programmed to do a split frequency other than the normal up/down 600. The downlink frequency is 145.800 and the uplink is 144.490. I use an ICOM IC-706MKIIG, but most modern 2 meter FM transceivers can be programmed for odd splits.

I used a Comet dual band 2 meter 440 with about 6.5 DB gain. I have heard folks doing it from their mobile and even with handhelds.

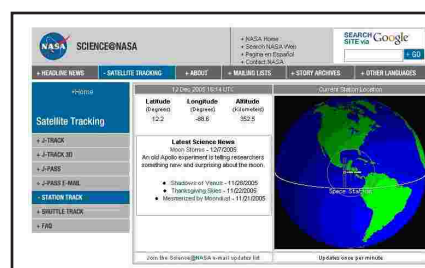
The key to making a contact is knowing when the ISS is overhead. I have found two Web sites the way to go. The first is the ISS Fan Club (www.issfanclub.com). After you have received your password and do an initial tracking of the ISS, putting in the city nearest you, it will remember when you sign in and show you when the next pass will be over you. See the tracking widow on the upper left corner.

You can also enter and see comments from other amateurs on recent contacts and passes.

After finding out when it will be overhead go to the Science @ NASA Web site(<http://science.nasa.gov/temp/StationLoc.html>). This will show the current ISS location with a circle around the Image of the ISS showing the area where a contact can be made.

I have made three contacts with the ISS so far and the current crew with Bill

McArthur have been very active calling CQ almost daily. After you make your contact be sure to send for your QSL card, the instructions are on the ISS Fan Club site.



Screen shot of
<http://science.nasa.gov/temp/StationLoc.html>

Area Activities

FOURTH MONDAY – at 6:30 PM, the **Greensboro Amateur Radio Association** has their regular monthly meeting at the Golden Corral on Landview Dr., off W. Wendover Ave. Please plan to gather at 6:30 PM for dinner. The meeting is scheduled to start at 7:15 PM

CLUB NETS:

SUNDAYS – weekly at 9 PM, the **GARA News and Information Net**. This net features NewsLine and is on the 145.150, W4GSO repeater. Roy Smith, N4BYU is always looking for net controls. Contact him if you would like to help.

THURSDAYS – The **Guilford County ARES Net** meets on the 145.150 repeater (100 Hz. tone) at 9 PM.

TUESDAYS – at 8 PM, the **2 Meter SSB Net** meets on 144.225 Mhz. USB. Chris Thompson, K4HC is the net control station.

WEDNESDAYS – The **Guilford Amateur Society** holds their weekly net on the 145.250, W4GG repeater with an 88.5 Hz. tone. Jim Hightower, W4JLH is the net control.

TUESDAYS – at 8:30 PM The **Triad SkyWarn Net** meets on the 147.225, K4ITL repeater, no tone required.

OTHER ACTIVITIES :

FIRST MONDAY – The **Guilford County A.R.E.S.** monthly meeting is held at 1002 Meadowood St. off W. Wendover Ave, in the EMS building, beginning at 7 PM.

THIRD MONDAY – at 6 PM The **Guilford Amateur Society** holds their monthly meeting at the Golden Corral on Landview Dr., off W. Wendover Ave. Dinner at 6:30 PM and the business meeting is slated to begin and 7 PM.

SATURDAYS – at the K&W Cafeteria on Big Tree Way, hams get together for **Saturday Breakfast** at 7:30 AM. Talk-in is on the 145.150, W4GSO repeater, with 100 Hz. tone.

MONDAYS & FRIDAYS – at 11 AM, Greensboro Hams get together for lunch. On Monday they meet at various locations. Check on the 145.15 repeater for current location and on Friday lunch is at the K&W Cafeteria off South Holden Road. Talk-in is on the 145. 150, W4GSO repeater with a 100 Hz. tone.

EVERY FRIDAY – at 8 PM (approximately) Greensboro Hams get together for coffee at Starbucks at Guilford College (winter location till Daylight Savings time changes)

Greensboro Amateur Radio Association
P.O. Box 7054
Greensboro, NC 27417



Web:
www.w4gso.org

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