

MAN EAVESDROPPED ON POLICE - AGENTS SAY HE POSTED COPS' INFO ON WEB SITE*By Hugo Kugiya. NEWSDAY STAFF WRITER*

The U.S. Secret Service and Nassau County police arrested an unemployed electronics enthusiast from Kings Park after he intentionally intercepted communication sent and received by the mobile data terminals installed in police cruisers, federal agents said.

Keith Knipschild, a former NYNEX employee, was arrested Wednesday in his home at 29 Amapola Lane for intercepting information and posting some of it on his Web site, <http://www.knip.com>, agents said. Police use mobile data terminals to check for outstanding warrants, review driving records and to send emergency information they might not want to broadcast across police scanners, such as details of an ongoing surveillance or a planned search.

An affidavit from a federal agent found that Knipschild's Web site had 93 pages of police transmissions from March 12, which included criminal histories and warrants, motor-vehicle checks, medical information about victims, and witness statements. Nassau police confirmed the information was transmitted by police on that day. Investigators say a confidential source led them to Knipschild, who could not be reached for comment yesterday.

Federal investigators said three satellite dishes, ranging in size from 18 inches to 12 feet in diameter, as well as a 40-foot radio tower were discovered on Knipschild's property. Calls to federal authorities seeking comment were not returned yesterday. Details about the disposition of the case were not available.

Federal documents indicate Knipschild's Web site includes information of interest to electronic enthusiasts, with links to Web sites about scanners, satellites and dishes, and amateur radio.

Federal investigators said Knipschild used an illegal

electronic device to intercept police communications. In a related case, the Secret Service have arrested a San Diego couple, **Bill and Cindy Cheek**, on a New York warrant charging they sold such illegal devices on the Internet to intercept police communications. The Secret Service said one of its undercover agents purchased a device from the Cheeks, who shipped it to New York. Details were not readily available yesterday.

Mobile data terminals send and receive information by radio frequencies, which are encoded into a digital or binary format, one that is not available to the public. Furthermore, these terminals are password-protected.

<Several days later we received this response from Bill Cheek himself!>

April 12, 1999

To my friends, associates, and well-wishers: Please forgive this form-response. So much e-mail has poured in that I can't possibly answer it all. I think it's better to offer some kind of an explanation than to just keep silent. You are receiving a "blind carbon copy" so that no one knows who is on my mail list.

Since our case is pending and there are any number of possible outcomes, I think it best for now to stick to the facts. Here they are:

At about 7:00am on Wednesday, March 31, 1999, Cindy and I were enjoying our first cup of coffee of the day when there came a loud banging on the door. We supposed it to be an early morning overnight FedX or UPS delivery, so I answered the door. A badge was shoved in my face with the announcement that there was a warrant for Cindy's and my arrests, and for a search of the premises. I stepped back and a dozen (or so) armed agents from the US Secret Service, FBI, Customs, Postal Inspectors, and even a local cop or two charged in. I was handcuffed and put on the couch. Cindy groggily wandered into the area wondering what the commotion was all about, and was handcuffed.

I have to leave out a lot of details for the sake of time and brevity, but the next two hours were a typical TV-style search & seizure situation. Then we were hauled off to be fingerprinted and jailed. That afternoon we were hauled into US District Court; given public defenders; and released on bail. We didn't actually get out of the slammer until about 9:30pm that evening. We have to appear back in court on April 13 for an "identity" and "removal" hearing.

We got home to find ten computers disconnected and gone; along with most of our business records; and a host of other stuff. The worst could be yet to come.....

Our arrest warrant was issued by a US Magistrate judge in Brooklyn, New York. The warrant specifically addresses a simple "data slicer", to wit (exact quote - misspellings are theirs; not mine):

US Code Title 18, Sec 2512(1)(a) and 371

"conspiring to send in intrastate commerce devices having reason to know that the design of such device renders it primarily useful for the purpose of the surreptitious interception of electronic communications, to wit: Mobile Data Terminal information broadcast by law enforcement agencies and emergency service organizations" I will leave it to you to interpret those charges, but as written, I can't imagine why companies like Optoelectronics and MFJ Enterprises weren't raided, too. They and dozens of others sell the same "device". In any event, the matter worsens. Since the warrant was issued by a judge in the Eastern District, Cindy and I apparently have to be tried there. It doesn't matter that we can't afford to travel to and fro, coast-to-coast; and that we have no peers in New York (I've never set foot in the state of New York and have no peers there.....) The fact is....we'll have to go to New York for the indictment hearing and for the trial, should it go that far. That's the bleak side of it; that coupled with the fact that we can't afford the travel nor to hire competent attorneys who are skilled in electronic communications law. On the lighter side: over the days since our arrest, all of our computers have been returned to us, along with copies of most of our business records.

We should get 90% of everything back by this coming week. I know almost nothing else at this point; at least nothing else that I am free to discuss. I can say that Cindy and I did not knowingly break any

laws...and at this stage, I'm not sure that we unknowingly broke any, either. At best, I think "they got the wrong man (and woman)", and at worst, they got a very tiny fish in a great big puddle.

I appreciate all the offers of help, though I can't suggest where help is needed most yet. I guess if the case goes to trial, it would be most helpful to have attorneys who are skilled in communications law. But that is far out of our reach and unless our financial picture changes, we'll have to accept the services of New York public defenders. Knowing that, if you know any attorneys who might be interested in this case, I guess we'd appreciate your mentioning it to them. Frankly, Cindy and I are rather demoralized and beaten down by this massive disruption in our lives, and it's probable that we don't know the best course of action to take.

Therefore, your suggestions and referral of our plight to others who might be qualified to know what's best, will certainly be appreciated by us. >I'll let you know more as we know more, if you remain interested. Thanks for your care and concern thus far.

Kindest regards,
Bill & Cindy Cheek
bcheek@comtronics.net
ccheek@comtronics.net

ID'ing THOSE DIGITAL MODES
<http://www.geocities.com/CapeCanaveral/Cockpit/2800/digital/index.htm>

<http://web2.airmail.net/lblant1/dfw/download.htm>

With all the talk of these digital modes, it's sometimes difficult to know what we are listening to. The above pages offers audio samples of over 20 different digital modes. In case you're wondering, this page is not offering the means of decoding any of these formats. Nevertheless, it's an easy way to identify all these beeps, buzzes and burps!

PROJECT ECHELON
<http://www.kmed70.freemove.co.uk/kmed70/otherstuff/echelon.htm>

" Within Europe, all email, telephone and fax communications are routinely intercepted by the United States National Security Agency, transferring all target information from the European mainland ... to [The headquarter of NSA] ... a global

surveillance system that stretches around the world to form a targeting system on all of the key Intelsat satellites used to convey most of the world's satellite phone calls, internet, email, faxes and telexes.

...unlike many of the electronic spy systems developed during the cold war, ECHELON is designed for primarily non-military targets: governments, organizations and businesses in virtually every country... Five nations share the results with the US as the senior partner ... Britain, Canada, New Zealand and Australia are very much acting as subordinate information services. "

EAVESDROPPING THE INMARSAT SATELLITES

<http://www.kmed70.freemove.co.uk/kmed70/otherstuff/inmarsat.htm>

Here's an interesting Web site that describes what can be done with a simple scanner and a moderately small antenna. Worthwhile reading!

NEXTEL WINS GSA PACT FOR WIRELESS

By Diane Frank

"The [GSA] last week awarded Nextel Communications Inc. a contract potentially worth several hundred million dollars to support wireless communications across the government. Under the contract, Nextel will provide integrated digital cellular and radio services and products for a two-year base period and three optional one-year periods..."

"The [GSA] Federal Technology Service offered the contract because of a large demand for this integrated technology from federal agencies..."

"...many agencies have already bought the Nextel service individually. FEMA has a large number of these units deployed already... The FBI and Defense Department also have several thousand units in place, and judging from agency response to the FTS contracting office's inquiries, many others likely will be taking advantage of the contract." "It's a good fit for anyone that has mobile team tasking...it allows the team to be in touch with each other and be in touch with their leaders at the same time, and we have a lot agencies that are working in those conditions."

FCC OPENS NEW ONLINE SEARCH ENGINE

FCC has opened a "streamlined" database search engine, which is probably sufficient for most scanner users. it's at:

<http://svartifoss.fcc.gov:8080/cgi-bin/ws.exe/beta/gnmen/index.htm>

that's "svartifoss" instead of "gullfoss" They say:

If you are experiencing extreme slowdown selecting data from the WTB LAND MOBILE database, try our new Alternate Site. This alternate site will query only on the WTB LAND MOBILE and WTB LAND MOBILE PENDING databases. Both sites report the same data.

ATLANTIC CROSSING AERO PAGE

If you're interested in monitoring transatlantic aero communications you might want to check out this page at <http://www.iol.ie/~markzee/atlantic.htm>

Among the links featured, you'll be about to see and learn about Shanwick Radio at Ballygireen, near Shannon, Ireland.

NYPD UPDATES

As of 0700 hrs on 3-25-99, the 1, 5, & 7 pct. Will transfer their radio operations to the Manhattan South boro freq. Then at 0700 hrs, on march 29th, the 1, 5, & 7 pct. Units will switch to their new zone 1 freq. Apparently the 6 & 9 pct's have already switched to the new zone 2 freq. NYPD is expanding their patrol freq's from 24 to 35 channels. Just some late breaking news for you all. Ken

HUDSON RIVER TRAFFIC

Some of the commuter ships use channel 13 VHF 156.65 (I believe) for port operations and ship to ship commercial. Otherwise, you can sometimes hear the captains conversing on ch 68 or 78 VHF marine. In the air, listen to 123.05 for the sightseeing helicopters! Good listening, N2NOV

TALLEST TREE ON THE GSP?

Its located at mile 135, near the Clark/Westfield exit of the Garden State Parkway, stands a majestic looking 100-and-something foot tall sequoia. But wait just a minute - this is New Jersey after all, home of the scrub pine. So what, you might be asking yourself, is this giant redwood doing growing here?

The answer is that it isn't growing at all, it's broadcasting! That's right, this mighty pine tree is actually a cleverly disguised cellular phone antenna tower.

Dwarfing the indigenous foliage of the area, this tree-like tower can be seen for miles in either direction by motorists traveling on the Parkway in the vicinity of the Madison Hill rest area. Its antennas are disguised as branches, complete with



a garland of green plastic pine needles. What really shatters the illusion though, is the stairway at the tree's base, which leads up to a small doorway in the timber transmitter's trunk.

The Parkway Pine is not the first electronic evergreen to take root in our state though. A similar tower was erected in Ringwood last year. There is also a 144-foot cell phone antenna at St. John the Baptist Convent in Mendham, which is disguised as a bell tower. In actuality it is a Bell Atlantic tower. In Franklin Lakes there is a phony flagpole, and some Sparta residents are currently fighting a proposal to conceal an antenna inside the 52-foot steeple of the Shepherd of the Hills Lutheran Church in that town.

Still more of these cleverly disguised transmitters will undoubtedly be springing up around the New Jersey landscape in the future. It's all part of a plan to relieve the eyesore of cellular towers that have been sprouting like weeds in the Garden State since the cell phone has become standard issue equipment in the communications revolution.

The thing that really seems to have commuters driving by exit 135 baffled though, is that the

Parkway Pine seems to have just grown there overnight. Many of them have told us that they never noticed it being built, then one morning there it was - bigger than life!

Personally I think that the Parkway Pine is an awesome achievement in subterfuge, but rather than try to disguise it as an inconspicuous tree, (which really isn't working anyway) I think that we should draw more attention to it. Just look at all of the fuss people make every year over the lighting of that puny Rockefeller Center Christmas tree. Then a couple of weeks later they just mulch the thing. Imagine if New Jersey was the first state to decorate the world's largest artificial Christmas tree! Now that would be something to phone home about.

CONNECTICUT GOES DIGITAL - MOTOROLA GETS THE \$\$

SCHAUMBURG -- Motorola will design and install a new \$36 million 800 MHz ASTRO® digital trunked simulcast radio system and wireless data system for the State of Connecticut, replacing a communications system originally designed and installed in the 1940s.

The new systems include a Motorola 800 MHz ASTRO SmartZone™ simulcast trunked digital voice radio system and a 19.2 Kbps RD-LAP Motorola Private DataTAC™ wireless data system, both the most advanced systems available today. The Connecticut State Police will be the primary user of the systems.

"With the addition of this new 800 MHz radio system, including mobile data terminals, our troopers will be equipped with a vital 21st century crime fighting tool," said Dr. Henry C. Lee, Commissioner of the Department of Public Safety. "I know that I speak for the entire Department when I declare that we are extremely excited to enter the next millennium with the security and support of our comprehensive statewide telecommunications system."

Once the infrastructure is installed, Motorola will supply Connecticut State Police with 1,200 Motorola's ASTRO XTS 3000' portable radios and 1,200 Spectra™ mobile radios and communications control stations. Radio dispatchers in each of the state's 12 dispatch centers will use ergonomically designed CENTRACOM™ Gold Elite™ consoles to communicate with officers in the field.

The new system's simulcast configuration is designed to permit State Police officers to reliably communicate with each other and dispatch centers throughout the entire coverage area. Under the contract, Motorola will provide a system that meets a standard of 98% voice coverage of the total state landmass in all seasonal conditions, as measured on a troop by troop and statewide basis.

Motorola will design and install the system over the next 18 months using the existing state-owned microwave network and licensed FCC frequencies. Its major components include radio base stations, repeaters, controllers, mobile and portable radio units and mobile computer terminals.

The data system provides the state real time access to law enforcement databases. Squad cars will be equipped with laptop computers connected to high-speed modems for instant access to public safety information.

The voice system uses 42-tower locations to provide more comprehensive radio coverage than is currently available, including seamless roaming for continuous communication. That capability is critical to certain public-safety operations, such as a State Police pursuit encompassing several jurisdictions.

"The Department of Information Technology has helped negotiate a contract putting the best proven technology available into the hands of our law enforcement officers. This technology meets an urgent need and supplies critical support to our state troopers. It will enable the swiftest possible response for their safety and that of the public," said Rock Regan, Chief Information Officer for the Connecticut Department of Information Technology.

"The ASTRO wireless systems were designed with the capacity to grow and meet the State of Connecticut's needs well into the 21st century," said Ken Denslow, Motorola corporate vice president and general manager of sales for the northern division. "We are pleased to have the opportunity to support the state's goal of upgrading and enhancing its ability to provide critical services for citizens."

Announcement of the new statewide system is the latest milestone in Connecticut's long tradition of innovative public safety communications. In 1939, the Connecticut State Police installed the nation's first statewide two-way radio communications

system. This system was the first in the world to use FM technology.

The range and clarity of that original system influenced other public-safety agencies to switch from AM to FM two-way radio systems. Daniel E. Noble, a Connecticut professor who designed the system, later became the vice-chairman of Motorola and founded the company's semiconductor business.

The state of Connecticut joins a growing number of public-safety agencies to install digital a radio system that complies with the Project 25 Common Air Interface standard for digital radio communications systems. Common Air Interface is the industry's term for the digital signaling format and digital voice coding technology that ensures one Project 25-compliant radio will communicate with another. Project 25 is the functional and technical standard for digital two-way radios created and adopted by a consortium of two-way radio user groups.

Motorola is a global leader in providing integrated communications solutions and embedded electronic solutions. Sales in 1998 were \$29.4 billion.

HCJB UPDATE

Some time ago I was contacted by a customer seeking assistance with one of our professional DAT decks. After a few exchanges of E mail I discovered he was in the production department at HCJB. Over the last year I've been able to help him with several problems. When he discovered that I was an HCJB listener lots of windows opened up! Mal recently provided this update on the on going antenna situation at HCJB.

"Hey, what a surprise and encouragement for us to know that someone up there listens to HCJB!! I doubt if you would have heard any of DAT problems on our English shortwave releases - that side of our operations still uses reel to reel tape mainly (although within a few months, the English department should be going completely digital on a Dalet system). DAT is used mainly for local FM and ALAS satellite programming. Plans for relocating the antenna farm at Pifo are still slowly simmering. The government still hasn't awarded the contract to construct the airport - it is supposed to happen in June, but with all that is happening, who knows when it will happen. There has also been a thought

that the economic viability of the project is going to be reviewed again.

In any case, our broadcasts to North and South America will still continue even after the "move". HCJB is considering how to broadcast our European releases from sites in or close to Europe, but North and South America will continue to be sent from Ecuador. At the moment, the Pifo staff are looking for suitable land around Ecuador. The most promising sites at the moment are down on the coast - a long way from Quito and very hot and humid.

IF by any chance you are looking for a holiday with a difference, HCJB offers tours of Ecuador, the HCJB installations and work, originating from Miami. Or even come down as a working visitor for a few weeks ... a real experience of Latin America! Mal Pfeffer.

KOSOVO UPDATE

"R"

We often mention the multi page letters we receive from "R" in CT. If you've listened to our net or the Long Island Scanner net on 146.805 than you know the quality and quantity he contributes. In one of his last letters he passed along some interesting information related to the situation in Kosovo. At this point, I'll turn the newsletter over to "R"....

"I've recently gotten a second party communique from a gal pal who is in the media and currently working on some writing and coverage of the affected areas in Serbia.".....

"The US government is using airborne transmitters aboard aircraft much like it did over Haiti and Iraq and broadcasting programming to Serbia and Albania in languages of Serbo-Croatian, Slovenian, Macedonian, Albanian and English. There are two stations underway. One is on AM, the other on FM 106.4. My friend has to tune to 106.5 to hear it well. There is soon to be a broadcast on 87.9. The US is setting up an FM network that will broadcast out of neighboring countries to the affected areas. One already is working into Beograd (Belgrade) on 106.5. It airs VOA, RFE (Radio Free Europe) and Radio Swoboda (Liberty) in local languages and English. It's an alternative to the news and commentary from the state run stations in the affected areas. The FM stations will transmit from -mountain sites. This is curious because FM can be easily jammed and it's tough to penetrate mountain areas with its signal unlike AM / MW on SW." He goes on to say, "I've

been told that FM is much more popular than AM radio in the former Yugoslavia.. much like FM's preference here stateside. There is quite a bit of interest in SW, but not in VOA, RFE or Radio Liberty. Most of the people listen to BBC and other stations. BBC, Deutsche Welle among others have increased their programming service to the affected areas. V.O.R. (Moscow) is also stepping up its service to boost morale and lend support to its allies. The well to do, the elite and the well educated in Serbia have satellite dishes. They remain hidden during the day. There's fear of confiscation and problems with the lower classes. Some 1-12% of the population are dish heads. About half of them view CNN. There have been a number of aerial missions dropping leaflets with frequencies and schedules of broadcasts for the people to tune into for views from the outside and why the NATO forces are involved. All of you have since received an 11.5"x14"list of HF pertaining to the military and the ongoing events in former Yugoslavia. There's always plenty of good listening. I understand the I-Net is full of pages and pages of loggings and hundreds of active frequencies."

"I hope all of you have noticed the **change** for Radio "Yugoslavia". Without much publicity they've changed their schedule to east and west coast North American Service English half hour transmissions. The frequency remains the same. They made this change a few days after the 3/28 change. Now, they are 0000 UTC instead of 0100 UTC to East Coast. daily **except** Sundays and **daily** to the West Coast. at 0430 UTC, instead of 0530 UTC. Both on 9.580 MHZ.

When they weren't showing up at 0100 and 0530 UTC, I among others thought that the NATO bombing campaign either took out the studios or the feedlines or the power company. Their SW transmitter sites are not targets because they are located off limits.

I found the change when I heard them transmitting in non-English languages. I simply checked an hour earlier. There they were!

There's some disappointment regarding their programming. They are going through a lot of rhetoric and lectures that are a throw back to the Cold War and Radio Moscow of the SOs through mid BOs. Naturally they are upset at NATO and the US. But, little is being said about the human issue there.

Prior to the weekend of 4/10, a member of the press asked a NATO military honcho about targeting the Serbs radio and television system. This officer certainly was expecting the question to arise and he read from a prepared statement. The radio and TV system is considered a viable target sometime soon.

It is attached to the military system. NATO would also like to silence the Serbian propaganda machine and what the Allies call the lies, deception and one-sidedness told to the masses.

However, as I've told many of you, the SW system should survive. The SW transmitter sites are located at the borders which are not involved in the campaign. The studios of Radio "Yugoslavia" in Belgrade can be a target. Their feeders can be targeted. The power company can be targeted. I'm sure, however, a portable studio can be set up to continue the SW foreign service, as well as, their domestic AM & FM. Milosevic needs to speak to his people and keep his control alive.

"R"

COMMUNICATING WITH US

During the net each Wednesday night we announce our E mail address (nydxa@hotmail.com)

where listeners who aren't licensed amateurs can ask questions and contribute information. In addition to E mail, ICQ users can contact the net via my ICQ # 8923040. If you see me on line, say hello! We're also looking for some pictures of you and or your listening post. For those of you who don't have the capability of scanning your photo, please drop us an e mail and we'll arrange to have it done and return your photo within a few days! Why not print up a copy of this newsletter and share it with a friend. Better yet, leave a few copies at your local Radio Shack. The store managers love it as it helps sell scanners! The net meets each Wednesday night at 8:00 pm on the 147.360 repeater in Manhattan. The repeaters input is +600 khz and uses a PL of 107.2 Scanner listeners need only program in 147.360
Bob, WA2SQQ

INTERESTING E MAIL

The NYDXA E mail received this the other day. I thought it might be of interest to readers, along with my reply.

"Our neighbor has a baby monitor and she monitors all my phone calls. I did not know this until the police went to my neighbor on the other side of the baby monitor home and told that she could over hear our entire phone conversations. I live on one side of the monitor and my good friend lives on the other side. Of course the woman in between is what you would call the problem neighbor in the area. What can we do to get our privacy back and she can't hear us? We have no idea what type of monitor she has and will not be able to find out. I am planning on going to my lawyer this week as she is making up tales about what we are saying and calling the police with false reports. I am really upset that these monitors are allowed."

"Mary B."

Negaunee, MI

<REPLY>

Dear "Mary B"

Mary Beth:

There are several issues here; I'll do my best to address each one.

1.Cordless devices such as baby monitors and cordless phones have to be used with the understanding that their use does not insure any privacy. In fact, I looked at the bottom of my phone and there is a label affixed to the bottom that states just that.

2.Both cordless baby monitors and cordless telephones share the same frequencies, typically in the 46 - 49 MHZ frequency range. These are the two primary uses for the frequencies, but I'm certain that other devices use these frequencies. As such, it would be unavoidable in many cases for adjacent families to use these devices without the expectation of some sort of interaction or interference occurring. This is especially true in neighborhoods where many people live in a close proximity.

3.Given these facts, any lawyer with even a fundamental knowledge of the laws governing these issues would point out that the act of intercepting your calls was probably coincidental. And while you are aware that this is going on, the act in itself is not illegal. Most of the radio transmissions that go across the airwaves can be monitored easily with receivers you and I can buy in your local Radio Shack. Virtually all signals can be legally monitored provided that the contents are not publicly discussed or disseminated. Strengthening the fact that your neighbors initial reception of your calls was probably coincidental is that fact that cordless baby monitors typically use one of two channels while cordless telephone have about 20 channels. The likelihood of your neighbor being able to go out and purchase their monitor specifically for this act is very unlikely.

4. And just as you can go to a lawyer on the grounds that your "assumed privacy" was breached, your neighbor can counter, claiming that while you were using the telephone, the use of their baby monitor was taken away. This could be construed as contributing to the possibility that their child could have sustained an injury and Mom and Dad didn't hear the cries for help. Do you see where I'm coming from?

5. I have a lawyer friend of mine that I once asked what his ratio of won cases to lost cases was. His response was that "he's never lost a case... but some of my clients have. I always get paid for what I do!"

This will undoubtedly cost you lots of \$\$ with little chance of doing anything except making an attorney a bit richer and increasing the tension between you and the neighbor. And if you loose they will be sure to gloat and publicize the fact that you wasted all that money. My advice is to go out and buy one of the new 900 MHZ digital phones that use "spread spectrum technology." These are not capable of being monitored as the human voice is converted to digital data that at best can only be received as a "buzz." Both V-Tech and Tropez offer several models at about \$150-200. I've used them and they are secure.

SPECTRUM CHANGES

In case you haven't been tuned in, the long running radio program "Spectrum" has changed their schedule. "Spectrum" can now be heard on Saturday's at 11:00 pm Eastern time on 5.070 Mhz. This change went into effect on 4/24. Tune it if you've never listened. It's an interesting show that covers many different aspects of the radio hobby.

WELCOME!

The Urban DX'er welcomes new readers **Mike Agner**, KA3JZZ, and **Dickson**, and **Ivan, KC2CHE**.

Mike recently discovered us and commented "Yes, indeed I have downloaded the latest newsletter and have looked it over. Quite a piece of publishing-you guys should be proud. I'll be looking forward to future editions; you might have guessed I've bookmarked the site. Thanx es 73s Mike"

The Urban DX'er would like to thank all those who contributed to this months issue!

Charlie - N2NOV, "R", "Agent "R", KC2AYC, Warren Silverman, N2RAH