

Vol.11 No4

May, 2006

[NYDXA@yahoo.com](mailto:NYDXA@yahoo.com)**MORE REQUESTS FROM NEXTEL**

The U.S. Federal Communications Commission (FCC) should set aside 30MHz of radio spectrum scheduled to be auctioned off to commercial users in 2008 for a new multibillion-dollar wireless public safety network, Nextel co-founder Morgan O'Brien said Thursday.

O'Brien's new company, Cyren Call Communications Corp., filed a proposal Thursday with the FCC calling for the agency to cordon off a 30MHz chunk of spectrum in the 700MHz band being vacated as U.S. broadcaster's move from analog to digital broadcasts by 2009. The spectrum, which would be held in a "public safety broadband trust" at the FCC, would be used for commercial purposes after police, fire and other public safety agencies' needs are met.

This trust would negotiate terms for long-term access to this spectrum with private companies that would agree to build and maintain a nationwide, next-generation network for public safety. In exchange, the private sector entities would gain the right to share the network and sell excess capacity for commercial purposes, according to the Cyren Call proposal.

A new approach for public safety spectrum is needed, and the spectrum would provide a nationwide voice and data network for police, firefighters and other public safety workers, O'Brien said at a press conference. "There isn't the funding available [in the U.S. government] to support new public safety needs," he said. "There are too many competing needs."

The Cyren Call plan would take away spectrum slated for commercial auction in early 2008. Those auctions are expected to raise between US\$10 billion and \$30 billion, some of which is targeted to help cut the U.S. government's budget deficit. O'Brien said he expects a great deal of debate over his plan.

"We are not proposing that the spectrum be ... lost to commercial operations," he said. "It's going to

# THE URBAN DX'ER

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continue to have a major contribution on the commercial side."

Public safety agencies have long encountered difficulties communicating with each other because they use small chunks of spectrum scattered across the spectrum band. Agencies in adjoining cities may use radio devices that operate on different frequencies.

The U.S. Congress has looked more deeply at public safety spectrum needs after the Sept. 11, 2001, terrorist attacks on the U.S. The 9/11 Commission investigating the attacks and their aftermath recommended additional radio spectrum for first responders after reports of police and firefighters on the scene not being able to communicate with each other or with rescue helicopters.

In February, Congress approved legislation that requires U.S. broadcasters to abandon channels in the 700MHz range and move to digital, or DTV, broadcasts by 2009. Congress targeted 24MHz of that spectrum to be used for public safety communications, and another 30MHz to be auctioned in early 2008 for commercial uses. U.S. tech and wireless companies see the spectrum as optimal for long-range wireless networks.

Each tower transmitting in the upper 700MHz spectrum band being abandoned by broadcasters can cover four to five times as large a geographic area as a tower transmitting in a higher frequency band, according to the High Tech DTV Coalition.

**PILOTS FLYING ON A WING AND A PRAYER**

DUBLIN (Reuters) - Irish Catholic priests illegally broadcasting Mass over the radio to housebound parishioners are suspected of creating a safety hazard for trans-Atlantic jets, officials said on Tuesday.

Irish communications regulator ComReg has spoken to three churches in central Ireland to warn them that their unlicensed transmission of daily and Sunday services might be creating problems for airliners as they flew overhead.

"I knew it was sort of a grey area but I didn't know we were breaking the law," Father Brendan Quinlan, a Dublin parish priest, told the Irish Independent.

The Irish Aviation Authority (IAA) said that pilots on trans-Atlantic flights have complained to air traffic control for more than a year of hearing static on their radios.

"We believe that (the Mass broadcasts) are possibly the source of the interference. I understand that ComReg are closing down the priests for want of a better term," IAA spokeswoman Lilian Cassin said.

### **PREPARING FOR HURRICANE SEASON**

As the 2006 hurricane season approaches, it's never too late to start preparing. Please make note of the recently updated Passaic County Skywarn net frequencies.

Passaic County NJ SKYWARN Net Primary Repeater Frequencies:

- 2 Meters:** 146.490 Mhz with a Positive 1 Mhz Input Offset and a PL of 107.2 (WA2SNA/R)
- 1.2 Meters:** 224.060 Mhz with a Negative 1.6 Mhz Input Offset and a PL of 107.2 (K2EE/R)
- 70 cm:** 440.950 Mhz with a Positive 5 Mhz Input Offset and a PL of 97.4 (WX2KEN/R)

**Passaic County NJ SKYWARN Net Alternate Repeater Frequencies:**

- 2Meters:** 145.190 Mhz with a Negative 600 Khz Input Offset and a PL of 141.3 (N2NOG/R) - Northern Passaic County Linked with 70 cm 440.400 Mhz Repeater (N2NOG/R)
- 2 Meters:** 146.700 Mhz with a Negative 600 Khz Input Offset and a PL of 141.3 (W2PQG/R)
- 70 cm:** 446.175 Mhz with a Negative 5 Mhz Input Offset and a PL of 107.2 (WA2SNA/R)
- 70cm:** 448.875 Mhz with a Negative 5 Mhz Input Offset and a PL of 151.4 (W2UHF/R) Southern Passaic County
- 70cm** 440.400 Mhz with a Positive 5 Mhz Input Offset and a PL of 141.3 (N2NOG/R) Northern Passaic County linked with 2 Meter 145.190 Mhz Repeater (N2NOG/R)

### **LISTENING TO THOSE EYES IN THE SKY!**

Several times we've mentioned listening to the low orbiting weather satellites operating in the 137-138 mhz part of the spectrum. The signal is quite strong and can easily be heard on any hand held scanner. Decoding it isn't terribly difficult, but it will require a receiver that has an FM bandwidth of 30-50 khz. Older scanners can easily be modified with relatively good results. Several software packages are available, some free of charge, that use your PC's sound card as the hardware interface.

We could easily devote an entire issue to this topic, and we may in a future issue. For now, those who are interested may wish to check out these very informative web sites.

Software:

<http://www.wxtoimg.com/hardware/#comms>

G7LTT's Web site with daily WxSat photos!:

<http://www.g7ltt.com/wxsat/>

Additional Photos:

<http://www.qsl.net/n8imo/APT/>

Receivers:

<http://www.df2fq.de/produkte/Catalog-Engl.pdf>

<http://www.hamtronics.com/r139.htm>

[http://www.emgola.cz/www\\_fa/meteosat\\_englisch.html](http://www.emgola.cz/www_fa/meteosat_englisch.html)

Antennas

[http://homepage.ntlworld.com/phqfh1/qfh\\_diy\\_guide.htm](http://homepage.ntlworld.com/phqfh1/qfh_diy_guide.htm)

<http://www.askrlc.co.uk/>

Frequency List

<http://mdkenny.customer.netspace.net.au/emitters.html>

### **AND WHILE WE'RE LOOKING SKYWARD...**

<http://eyeball-series.org/sor-eyeball.htm>

When we were kids we read about death rays, ray guns and wrist radios. Wrist radios are real and although the government doesn't talk about it, so are the death rays! Rod, N2RVM came across a very interesting web site that shows one such installation in action.

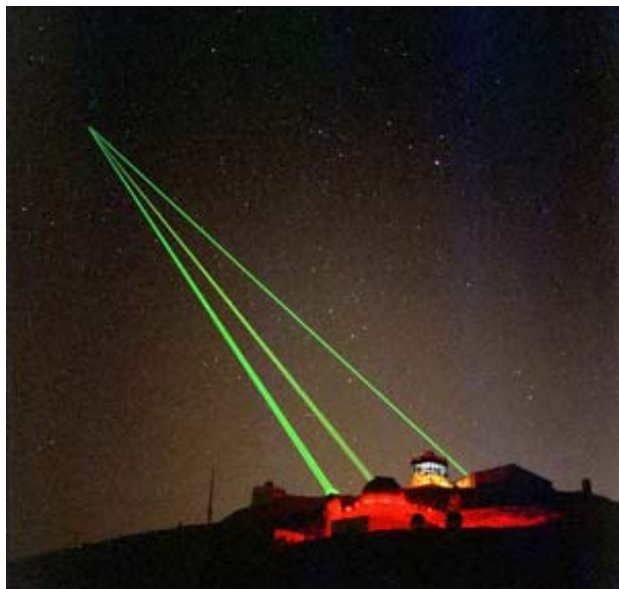
The Bush administration is seeking to develop a powerful ground-based laser weapon that would use beams of concentrated light to destroy enemy satellites in orbit.

The largely secret project, parts of which have been made public through Air Force budget

documents submitted to Congress in February, is part of a wide-ranging effort to develop space weapons, both defensive and offensive. No treaty or law forbids such work.

The laser research was described by federal officials who would speak only on the condition of anonymity because of the topic's political sensitivity. The White House has recently sought to play down the issue of space arms, fearing it could become an election-year liability.

Starfire Optical Range on Kirtland Air Force Base, New Mexico—is used with deformable optics to help eliminate atmospheric distortions when gathering images of objects in space.



**A SIGN OF THE TIMES - SCANNER PROGRAMMING**

We've all used the excuse that we don't have time to play with our scanners. Too many "honey-do" chores, too busy at work and God only knows what other excuses. Well Uniden can help you! Uniden will be happy to program your scanner for you – for a fee!

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**Uniden Service Inc.**

**4700 Amon Carter Blvd.**

**Fort Worth , Texas 76155**

**Attn: Repair - Scanner Programming** (Very Important)

**FLEET WEEK UPDATES**

On May 24-30 NYC will hold its annual Fleet Week Celebration. The event presents excellent opportunities to monitor routine military communications not normally within listening range. Many of the vessels now utilize trunked system in the 406-420 mhz range in addition to the 457 / 467 band. While your trunk tracking scanner may not be able to track some of these systems, scanning or searching this range will result in a wide variety of communications. At this time the following vessels are scheduled to visit.

- USS Kearsarge (LHD 33) \*\*
- USS Anzio (CG 68)
- USS San Antonio (LPD 17)
- USS Shreveport (LPS 12)
- USS Nitze (DDG 94)
- USS Mason (DDG 87)
- USS Ramage (DDG 61)
- USS Klakring (FFG 42)

RV Starfish (YP 679)

**\*\*** The Kearsage uses a 406 Mhz Motorola Trunk [sysid 740e]

New York harbor and the adjacent port in Hoboken, NJ also play temporary home to dozens of cruise ships. The following link provides an extensive list of frequencies used by the major cruise ship lines. [http://home.earthlink.net/~ecps92/cruise\\_ships.htm](http://home.earthlink.net/~ecps92/cruise_ships.htm)

### **MOTOROLA MESH GAINS POPULARITY**

During February's Super Bowl game Detroit police monitored activity at Ford Field via an event-management solution featuring a Motorola MotoMesh 4.9 GHz network at the site.

Real-time video from mesh-enabled cameras-part of Motorola's Intelligent Video Surveillance and Control solution-deployed in key areas around the Super Bowl venue was transmitted to three mobile command posts and police officers securing the perimeter of the site. Security personnel viewed the video on ruggedized Motorola ML 900 laptop computers, which also could access criminal databases and deliver multimedia e-mail over the MotoMesh network, according to Motorola.

"With the stadium being in the heart of downtown Detroit, and not surrounded by parking lots like many other stadiums, we needed a solution that would boost officials' situational awareness at the entrances and exits to the grounds," City of Detroit Chief Information Officer Derrick Miller said in a prepared statement. "This solution allowed the officers to monitor a large area and population from their laptops while remaining in their dispatched areas."

Rick Rotondo, director of marketing for Motorola's mesh networks product group, said the MotoMesh solution was deployed in just a week. The city of Detroit did not pay to use the system during the Super Bowl, but it has the option of buying it in the future.

"This is the first time we've done strategic event management for an event like the Super Bowl,"

Rotondo said. "We thought it was a good opportunity to see what MotoMesh could do on a moment's notice ... and it performed extremely well."

MotoMesh nodes include four radios-two operating at 2.4 GHz and two operating in the 4.9 GHz band dedicated to public safety. Detroit only used the mesh-enabled 4.9 GHz radios for the Super Bowl, but Mayor Kwame Kilpatrick said it is easy to envision using the infrastructure for other purposes.

"The MotoMesh network was the only solution that allowed us to leverage the interference free 4.9GHz public safety band and provide enough bandwidth to support the high quality mobile video surveillance that we needed," Kilpatrick said in a prepared statement. "It is also exciting to know that, with MotoMesh, there is the potential to expand this network citywide in the future and address the needs of multiple agencies, as well as our citizens."

### **MONITORING LBI**

As the summer months approach many of us will travel to the Jersey shore. One popular area is Long Beach Island, or "LBI" as native Jerseyans call it. At the end of this document we're including a document prepared by John Burricelli. For those of you in CT and Long Island, it would not be uncommon to be able to hear signals across the water, especially during times where propagation enhancement is taking place.

### **CHANGES AND APOLOGIES!**

As many of you may know, the past few months have presented Charlie and me with many challenges. Prior commitments, other responsibilities and simply a lack of time have kept us from delivering the updated scanning news you've all be used to. As of this evening, it appears that most of our "obstacles" are behind us and hopefully we can resume a schedule similar to what you've been accustomed to. For the benefit of those who weren't aware:

- **Our Web Site:** If you've tried to access our web site you may have noticed that our URL was hijacked. Accidentally the URL

registration expired (for just a few days). It was quickly snatched up by a company whose only motive is to hold it hostage for some ridiculous amount of money. Charlie and I discussed it and decided to register [www.nydxa.info](http://www.nydxa.info)

- **Hard Drive Failure:** In addition to the URL issue, our server also suffered a hard drive crash. Fortunately, all files were backed up!
- **Newsletter:** Over the past two months my personal schedule has been nothing short of total chaos. What spare time I had was being consumed with trying to fix a bug in my PC that caused it to lock up each time I tried to use MS Word. (The newsletter is produced with MS Word) A few days ago I lost a hard drive which ironically was probably the best thing that happened. That drive held my printer drivers. It turns out that the updated drivers fixed the lock-up bug!

The numerous e-mails we received inquiring about the newsletter certainly convinced us that people do look forward to receiving it. The positive comments were certainly appreciated!

**Urban DX'er would like to thank all those who contributed to this month's issue!**  
**Charlie - N2NOV, KC2GIK, Thomas Canole**

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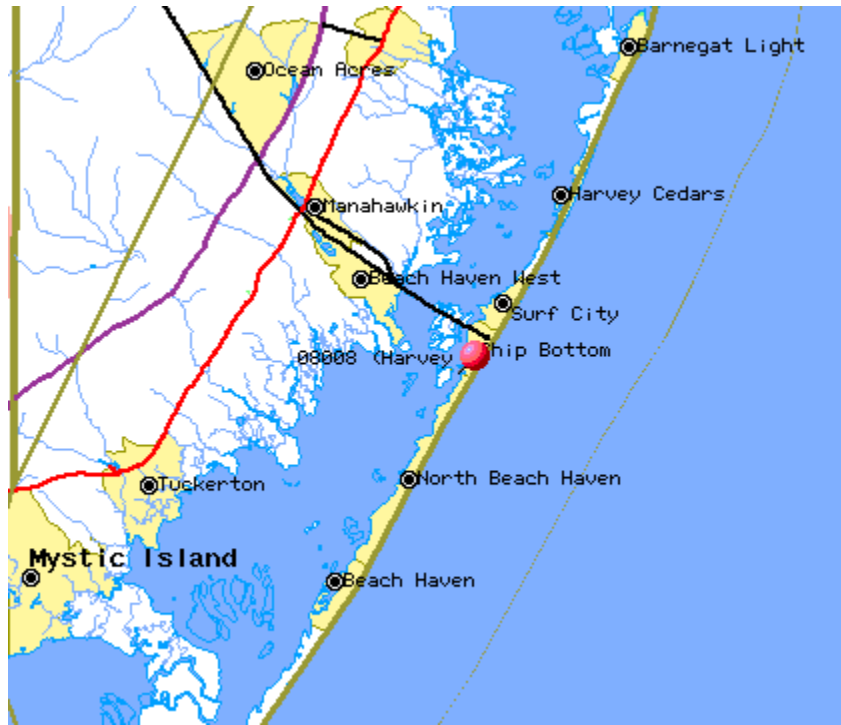
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# Long Beach Island Scanning Guide



By John Burricelli  
KC2KZZ

## Long Beach Twp. Regional Police Dispatch

Freq.	Input	Use	Tone
<b><u>Long Beach Twp. &amp; Harvey Cedars</u></b>			
460.3000	(465.300)	Ch. 1 Dispatch	123.0
453.4500	(458.4500)	Ch. 2 North (Ch. 1 Simulcast)	D412
458.6375	(simplex)	Ch. 3	123.0
460.3000	(simplex)	Ch. ? Talk-Around	123.0
<b><u>Ship Bottom &amp; Surf City</u></b>			
460.2500	(465.2500)	Ch. 1 Dispatch	D503
460.2500	(simplex)	Ch. 2 Talk-Around	D503
460.2250	(simplex)	Ch. 3 Ship Bottom	D503
458.0125	(simplex)	Ch. 3 Surf City	
<b><u>Beach Haven Borough</u></b>			
460.3750	(465.3750)	Ch. 1 Dispatch	D503
460.3750	(simplex)	Ch. 2 Talk-Around	D503
453.2375	(458.2375)	Ch. 3	D503
<b><u>Long Beach Island Police Common</u></b>			
460.6375	(simplex)	Ch. 10 Island Wide	
460.3375	(simplex)	Ch. 11 Island Wide	

## Long Beach Island Fire & EMS

Freq.	Input	Use	Tone
158.7525	(153.7400)	Fire Island-wide 1 (Dispatch)	D243
158.8350	(153.9950)	Fire Island-wide 2 (Response)	D243
155.2350	(simplex)	Fireground - North Common	186.2
155.3550	(simplex)	Fireground - South Common	71.9
153.7850	(simplex)	Fire Police Operations	CS
159.7650	(simplex)	Fire Mutual Aid (Off Island Ops)	CS
158.7300	(simplex)	Barnegat Light Fire Patch	D306
158.7300	(simplex)	Barnegat Light Fireground	D503
155.3850	(150.790)	Beach Haven EMS Ops	D503
155.3550	(150.775)	Barnegat Light FAS	71.9

## Long Beach Island Misc. Government

Freq.	Input	Use	Tone
46.000	(simplex)	Long Beach Twp. Beach Patrol	114.8
460.1250	(465.1250)	Beach Haven Beach Patrol	192.8
453.7500	(458.7400)	Ship Bottom OEM & Beach Patrol	186.2
453.7750	(458.7750)	Harvey Cedars OEM & Beach Patrol	123.0
462.9500	(467.9500)	Surf City Beach Patrol	
158.895	(simplex)	Barnegat Light Beach Patrol	D503

## Southern Ocean County Police Dispatch

Freq.	Input	Use	Tone
460.4500	(465.4500)	Barnegat Twp. Police	123.0
506.8625	(509.8625)	Little Egg Harbor Police 1	203.5
506.5875	(509.5875)	Little Egg Harbor Police 2	D306
460.2750	(465.2750)	Stafford Twp. Police 1	123.0
460.2750	(simplex)	Stafford Twp. Police 2	123.0
460.0500	(465.0500)	Stafford Twp. "Bravo"	ENC/D503
506.6375	(509.6375)	Law Enforcement Interoperability	192.8

\* Also NJSP Troop C, 3 Comm Dispatch, Garden State Parkway & NJSP Marine Police Stafford Twp. recently moved dispatching to "Bravo". It is not known if this is temporary.



## Southern Ocean County Fire & EMS

Freq.	Input	Use	Tone
508.1875	(simplex)	Fire Paging	71.9
511.1875	(simplex)	Ch. 6 - Fireground 1	127.3
465.5875	(simplex)	Ch. 7 - Fireground 2	192.8
506.7125	(509.7125)	Ch. 11 - Tuckerton Rpt.	D445
506.7375	(509.7375)	Ch. 12 - Barnegat Rpt.	D223
506.7625	(509.7625)	Ch. 13 - Toms River Rpt.	D445
506.7375	(509.7375)	Ch. 14 - New Egypt Rpt.	D445
506.7125	(509.7125)	Ch. 15 - Lakewood Rpt.	D223
33.7800	(simplex)	Fire 1 - Dispatch	146.2
33.6400	(simplex)	Fire 2 - Command	146.2
33.4400	(simplex)	Fire 3 - Fireground Ops	146.2
33.9800	(simplex)	Fire 4 - Zone 1 Central	146.2
33.5800	(simplex)	Fire 5 - Zone 2 South	146.2
33.0200	(simplex)	Fire 6 - Zone 3 North	146.2
33.0400	(simplex)	Fire 7 - Zone 4 West	146.2
154.2650	(simplex)	South Jersey Fire Net	CS
154.9650		Fire Marshall/EOC Ch. 1	127.3
154.9650	(simplex)	Fire Marshall/EOC Ch. 2	127.3
155.8800	(simplex)	Fire Marshall/EOC Ch. 3	127.3
853.5625	(808.5625)	Office Of Emergency Management	103.5/156.7
155.2050	(simplex)	EMS 1 - Dispatch	186.2*
155.2800	(simplex)	EMS 3 - Statewide EMS	varies
153.8150		Stafford Twp. EMS Ch. 6	186.2
462.9500	(467.950)	MONOC Ops	210.7
462.9750	(467.950)	MONOC Ops (Simulcast)	210.7
461.8000	(467.950)	MONOC Ops (North County Simulcast)	210.7
502.0875	(simplex)	MONOC Tactical 1	D412
501.3875	(simplex)	MONOC Tactical 2	D412

\* Seaside Heights uses PL 131.8

# Ocean County Trunk System

## System Information

Type: Motorola UHF Type 2

Base Freq: 505.000

Offset: 12.5

Spacing: 380

## Frequencies

508.4375 - Control Channel

506.6875 - Control Channel

506.8375 - Control Channel

506.8125

508.0875

506.6625

508.0625

508.1375

506.7875

506.6125

508.1625

## Talkgroup Information

### Public Safety Interoperability

32 Disaster Common

64 Public Safety Common

### Emergency Management

160 Office of Emergency Management 1

192 Office of Emergency Management 2

### Emergency Medical Services

4128 EMS Zone 1

4160 EMS Zone 2

4192 EMS Zone 3

4224 EMS Zone 4

4256 EMS Operations

24768 EMS Coordinators

4288 EMS Coordinators (Old)

928 MONOC Control – MICU Dispatch

## Ocean County Trunk System Continued

### Fire Service

20512	Fire Zone 1 – North Central
20544	Fire Zone 2 – South
20576	Fire Zone 3 – North
20608	Fire Zone 4 – West
20640	Fire Zone 5 – South Central
20672	Fire Tac 1
20704	Fire Tac 2
20736	Fire Tac 3
20768	Fire Coordinators
20800	Fire Marshal

### Municipal Police

288	North Dispatch
352	North Mobile
320	South Dispatch
384	South Mobile
512	Central Dispatch – Island Heights & Lakehurst
544	West Dispatch – Plumstead Twp.
416	Tactical 1
448	Tactical 2
5920	Detective 1
5952	Detective 2
128	Police Interoperability

### Sheriff's Dept.

800	Channel 1
832	Channel 2
864	Channel 3
896	Channel 4
992	Mobile
960	Radio Repair

### Prosecutor's Office

1312	Channel 1
1344	Channel 2
1376	Channel 3
1408	Mobile/Task Force

## Ocean County Trunk System Continued

### Misc. County

1824	Corrections
96	Public Works Common
2336	Security (County Parks and Buildings)
2368	Security Supervisors
9504	Roads North
9536	Roads Paving Division
9568	Roads South
9600	Roads Staff/Administration
10016	Bridges
10528	Engineering Department
10560	Engineering Supervisors
10624	Mail Service
12576	Parks
12608	Parks Administration
13088	Solid Waste
13344	Administration
13600	Ocean Ride (County Transport)
14112	Building and Grounds 1
14144	Sprinklers
16672	Vehicle Maintenance 1
16704	Vehicle Maintenance 2

## U.S. Coast Guard, Marine, Rescue

Freq.	Use
156.450	Marine Ch. 9 - Calling
156.800	USCG Ch. 16 – Distress
156.850	Marine Ch. 17 – NJSP Marine Police
157.050	USCG Ch. 21A
157.100	USCG Ch. 22A
157.150	USCG Ch. 23A
157.075	USCG Ch. 81A
157.125	USCG Ch. 82A
157.175	USCG Ch. 83A
345.000	USCG Primary Ops
237.900	USCG Secondary Ops
326.150	USCG Primary Air-Ground
379.050	USCG Secondary Air-Ground
353.900	USCG Patrol
148.150	Civil Air Patrol Primary
148.125	Civil Air Patrol Secondary
123.100	Search & Rescue
121.500	EPRIB
243.000	EPRIB

### Credits:

Long Island Scanning Resources – <http://www.fordyce.org/scanning/>

Radio Reference – <http://www.radioreference.com>

FCC – <http://www.fcc.gov>

Yahoo Groups: njj-scan, ScanCom & PhillyScanner

This document may be used freely for personal, non-profit and public safety use only.

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