

In 1948 the FCC shifted FM up the spectrum to 88 through 108, which is how your radio is numbered today. It gave the remnants of television's Channel 1 to "land mobile," a class of radio users that included dispatchers and police.

Television was given pieces of what remained in VHF: Channels 2, 3 and 4 reside between 54 and 72 MHz. Channels 5 and 6 live just below FM radio, at 76 to 88 MHz. (My radio tunes in Channel 6.) Channels 7 through 13 occupy 174 to 216 MHz, far above FM territory.

The FCC also gave television lots of spectrum in the UHF, or Ultrahigh Frequency range, which is above 300 MHz. (Kable Kids: The UHF dial, separate from the main dial, tuned in channels 14 through 83, but it was usually empty. Broadcasters preferred VHF, and clustered there whenever it was available.)

TV LICENSING IN THE UK

A few weeks ago Mark, G7LTT presented a brief discussion on the fact that TV's have to be licensed if you live in the UK. Trucks scan the neighborhoods listening for the TV's local oscillator. When they hear one and don't have a valid license listed for that address they come a knockin! Recent changes now give the residents an advantage!

Here's the story!

Do you live in constant fear of the TV Licensing inspectors? Well panic no more, in fact sit back, relax and tune into your favorite programs - you're perfectly safe! Thanks to a 1987 House of Lords ruling, the licensing officers' powers are not so great as they appear to be. The ruling was brought in following the case of Jeremy Judd, a pirate radio DJ who was fined under the 1949 Wireless Telegraphy Act. Judd appealed against the confiscation of his equipment and the case ended up in the House of Lords. During the summing up, the Lords challenged the 1949 law which makes it an offence to 'use' a radio or TV without a licence, stating that the word 'use' had to be taken in its literal sense. This means that licensing officers have to find you actually watching a television that does not have a licence, simply having a television on in the house does not constitute using it. Not surprisingly, this ruling is relatively unknown. Also, they need to have a warrant to enter a house where they suspect an unlicensed television is in use. So there we have it, feel free to

watch your TV, just make sure that you walk away from it if a licensing officer happens to pop round for tea!



Trident TRX-100XLT

TRIDENT TRX-100XLT

<http://www.durhamradio.com/trident.htm>

A friend just alerted me to a new portable scanner that has not been receiving too much mention. Among it's many interesting features, it includes a built in phase inverted de-scrambler, wide band coverage from 100KHz to 2200MHz in AM, Narrow FM and Wide FM, a built in RS-232 interface, and turbo scan at 50 channels per second.

Durham Radio lists it at \$499 Canadian, I'd say that \$340 US sounds like it might be an interesting purchase!

Keep in mind that because Durham Radio is a Canadian Company, the wide band coverage previously mentioned will not be restricted!

INTERESTING SOFTWARE DOWNLOAD SITES

<http://www.gebhart-sbg.at/download/>

OP SAIL 2000

<http://www.OPSAIL2000.ORG/>

Over the 4th of Jult weekend, the New Yor Harbor will play host to OP SAIL 2000. If you live in the area its an excellent time to see many very impressive boats and listen to a very wide variety of marine radio communications.

New York Harbor will be the pinnacle of the OpSail 2000™ experience. Vessels that have traveled in parade from San Juan, Puerto Rico then to Miami, Florida, Norfolk, Virginia, Baltimore, Maryland, and Philadelphia, Pennsylvania will all join in the Grand Parade of Sail up the Hudson River July 4, 2000 before they head on their way to New London and then to Portland, Maine, OpSail 2000's™ final port.

The OpSail 2000™ Grand Parade and International Naval Review will commence one of the largest celebrations the City of New York has ever enjoyed. Vessels will be berthed for viewing by the public and crews will mingle with each other and the multi-cultural mix of New York City. OpSail New York is collaborating with the Intrepid-Sea-Air-Space Museum, the South Street, Seaport Museum, Pier A, the Port Authority of New York and New Jersey, the Maritime Association of New York and New Jersey and the New York Convention and Visitor's Bureau to plan a week long Millennium Festival that includes a Parade of Nations for the cadets and sailors, receptions, crew parties, military and maritime demonstrations and events, and numerous other outdoor events.

The City of New York, renowned for its ability to develop and manage great events, will roll out the red carpet and open her doors to welcome the world. OpSail 2000™ will be the greatest celebration of them all as it will both herald a new century and celebrate the world's embarkation into a new millennium.

Much of the information contained in this issue was taken from the following sites. I strongly advise you to visit these sites as there may be additional information that may be of interest to you.

<http://www.ci.nyc.ny.us/>

<http://www.southstseaport.org/>

<http://junior.apk.net/~mikef/>

Schedule of Events

3 July

4:00 pm Captains are picked up by vessel transport Sandy Hook Bay
 5:30 pm Captain's arrive at North Cove (World Finance Center). Private
 6:00 pm Reception Private. At Windows on

the World

8:30 pm Return to North Cove for transport back to ships

4 July

8:00 am The Reviewing Vessel begins the INR From the George Washington Bridge, going south

9:30 am **OpSail 2000 Parade of Sail**

1. The USCG Barque EAGLE, leading the PARADE OF SAIL, will pass beneath the Verrazano-Narrows Bridge at 10:00 am. All vessels will weigh anchor according to the prearranged schedule and take assigned positions in the parade.

2. All vessels will pass in review between the Statue of Liberty and the Reviewing Platform. They will proceed up the Hudson River to the George Washington Bridge. The vessels will then reverse course and proceed to assigned berths or anchorages.

3:30 pm At berth, vessels will be open for Public visits

Evening Macy's Fireworks in Salute to OpSail 2000

5 July

10 - 6 pm Tall Ships open for public visits

6 July

10 - 6 pm Tall Ships open for public visits

7 July

10 - 6 pm Tall Ships open for public visits

8 July

10 - 6 pm Tall Ships open for public visits

9 July

Vessels Depart for New London, CT.

LANT Channels

OP SAIL 2000 will require dozens of law enforcement agencies at the city, state, federal and military levels to communicate with the US Coast Guard. Since the US Coast Guard will be handling most of the action, and since their territory is adjacent to areas covered by all of the above agencies, they developed "LANT" channels. "LANT" is said to be derived from "Atlantic" which suggests

these are used primarily on the Eastern seaboard of the United States.

LANT channels are used for passing traffic that would not be intended for the general public. The frequencies, as you can see, contain many of the same frequencies we listen to. These may include local "HEAR" channels, SPEN 1,2,3,4, and other inter-agency frequencies. Internally, the channels in the 160-174 MHz region are normally used to communicate with other government agencies. These are generally scrambled using Motorola DVP. But, with an event as large as OPSAIL 2000, it would be wise to listen on these as some agencies may not be equipped with the necessary DVP equipment. Please take note that several LANT channels do not use the same transmit and receive frequency, suggesting that this may be a repeater operation. To be sure you hear all that's available, make sure you listen to both frequencies. See, there is a need for 1000 channel scanners!!

<u>LANT CH</u>	<u>RX FREQ</u>	<u>TX FREQ</u>
LANT 01	153.7850	153.7850
LANT 02	154.9950	153.7850
LANT 03	154.1600	154.1600
LANT 04	154.1300	154.3400
LANT 05	154.2800	154.2800
LANT 06	154.3700	154.3700
LANT 07	154.6950	154.6950
LANT 08	155.2800	155.2800
LANT 09	155.4750	155.4750
LANT 10	156.8000	156.8000
LANT 11	156.3750	156.3750
LANT 12	156.4500	156.4500
LANT 13	156.4750	156.4750
LANT 14	156.5000	156.5000
LANT 15	156.5250	156.5250
LANT 16	156.5500	156.5500
LANT 17	156.6000	156.6000
LANT 18	156.6500	156.6500
LANT 19	156.7000	156.7000
LANT 20	156.7250	156.7250
LANT 21	156.3000	156.3000
LANT 22	156.9000	156.9000
LANT 23	157.0500	157.0500
LANT 24	157.0750	157.0750
LANT 25	157.1000	157.1000
LANT 26	157.1500	157.1500
LANT 27	157.1750	157.1750
LANT 28	159.4800	159.4800
LANT 29	163.1750	162.0500
LANT 30	162.1250	162.1250

LANT 31	162.2500	162.2500
LANT 32	162.3250	162.3250
LANT 33	163.0500	163.0500
LANT 34	162.1250	163.0500
LANT 35	163.1750	163.1750
LANT 36	162.0500	163.1750
LANT 37	163.4125	163.4125
LANT 38	163.5375	163.5375
LANT 39	163.4375	164.2000
LANT 40	164.5500	164.5500
LANT 41	164.7750	164.7750
LANT 42	165.1375	165.1375
LANT 43	165.2375	165.2375
LANT 44	165.2625	165.2625
LANT 45	165.4625	165.4625
LANT 46	164.7750	165.9750
LANT 47	166.2250	166.2250
LANT 48	166.4375	166.4375
LANT 49	166.4625	166.4625
TREASURY COMMON		

LANT 50	166.5875	166.5875
LANT 51	165.2375	166.9375
LANT 52	167.9000	167.9000
LANT 53	165.2625	167.9000
LANT 54	164.5500	168.8625
LANT 55	171.3375	171.3375
LANT 56	173.5875	173.5875

US Coast Guard auxiliary vessels may also be using 143.280, 143.875, 148.305, 148.825, 164.200, and 164.300.

US Coast Guard helicopter frequencies: 232.100, 277.800, 282.800, 360.200, 381.700, 381.800, 383.900.

NY Harbor Port Operations: 156.275, 156.325, 156.675, 156.725, and 157.000

In addition US Park police will be very active in and around the areas of the Statue of Liberty (Liberty State Park) and other adjoining areas. Here are a few frequencies that will be active!

US Park Police

166.3250, 166.7750, 168.5500, 417.8250
 Justin also passes along these park department frequencies which have been active in NJ. Some or all of these will have activity.
 159.465, 163.450, 165.2125, 165.785, 168.05, 168.550, 168.975, 169.200, and 406.625

Statue of Liberty

34.790, 417.850, 417.925

Ellis Island

34.790, 414.825, 414.925, 417.850

Aero Frequencies

On the aero bands be sure to listen to the following frequencies:

- 122.850 Commonly used for sky writing aircraft
- 123.0500 Carries most of the Hudson River Aero traffic.
- 123.100 NYPD helicopters use this frequency quite often and USCG are often heard here communicating with same.

Possible Military Frequencies to Monitor

If there is a Navy Port Control facility, they will likely use UHF 385.0 or VHF marine channels 12 (156.60) or 13 (156.65) to coordinate vessel movement. UHF 359.4 has also been reported as a secondary Port Control freq, not personally confirmed. I would also monitor 273.8 & 277.8 which are commonly used Navy freqs, sometimes listed as "Atlantic Fleet Common" channels. These are more tactical in nature, with scrambling often heard. Also try 138.85 (FM) for Shore Patrol units.

- 36.53 NAVY SHIPBOARD PORTABLES
- 36.55 NAVY SHIPBOARD PORTABLES
- 36.57 NAVY SHIPBOARD PORTABLES
- 36.59 NAVY SHIPBOARD PORTABLES
- 36.61 NAVY SHIPBOARD PORTABLES
- 36.63 NAVY SHIPBOARD PORTABLES
- 36.65 NAVY SHIPBOARD PORTABLES
- 36.67 NAVY SHIPBOARD PORTABLES
- 36.69 NAVY SHIPBOARD PORTABLES
- 36.71 NAVY SHIPBOARD PORTABLES
- 36.87 NAVY SHIPBOARD PORTABLES
- 40.35 NAVY SHIPBOARD PORTABLES
- 40.55 NAVY SHIPBOARD PORTABLES
- 138.575 NAVY SHIPBOARD PORTABLES
- 138.725 NAVY SHIPBOARD PORTABLES
- 138.775 NAVY SHIPBOARD PORTABLES
- 138.95 NAVY SHIPBOARD PORTABLES
- 140.725 NAVY SHIPBOARD PORTABLES
- 140.76 NAVY HARBOR TUG NET NATIONWIDE

USS Yorktown & USS Pensacola

(Comms appear to be from Yorktown, all clear voice)

- 406.300 Trunked system control
- 406.675 Shipboard trunked system

- 407.025 Shipboard trunked system
- 407.800 Shipboard trunked system
- 408.975 Shipboard trunked system
- 416.8875 Input
- 417.300 Input
- 417.800 Input
- 419.0875 Possible input
- 419.100 Possible input

USS Enterprise

Shipboard trunked system
 Outputs, clear voice:
 406.150, 406.175, 406.475, 406.875, 407.200
 409.200 Trunked control channel

Inputs, clear voice:
 415.100, 415.400, 415.675

USN CVN CARL VINSON

System 1

CH	Output	Input	Tone
01	406.550	Unknown	128.1
02	407.350	Unknown	128.1
03	Unknown	Unknown	Unknown
04	408.950	Unknown	128.1
05	409.750	Unknown	128.1

System 2

01	406.350	Unknown	121.8
02	406.750	Unknown	121.8
03	Unknown	Unknown	Unknown
04	Unknown	Unknown	Unknown
05	Unknown	Unknown	Unknown

System 3

01	406.650	Unknown	121.8
02	407.050	Unknown	121.8
03	407.850	Unknown	121.8
04	409.450	Unknown	121.8
05	410.250	Unknown	121.8

Notification Groups

Jersey City Notification	463.550
NJ Metro	463.900
Camden NJ area	464.750
ECPS Radio NY/NJ	462.625
NYC Citywide Radio	461.650

Blimps / Air Shifts

I understand that there are three Goodyear Airships [Blimps] in operation in North America with a fourth in operation in Europe. The American blimps are stationed at three locations: one on each coast and

one in-between. The AMERICA, tail number N3A, is based in Pompano Beach FL [formerly in Houston, Texas], the COLUMBIA, tail number N4A, is based in

Los Angeles, and the ENTERPRISE, tail number N1A, which was in Pompano Beach, Florida, may now be stationed near Houston TX. Each blimp is accompanied by a three vehicle ground fleet consisting of a van, a tractor-trailer, and a Greyhound-like bus. The communications between the blimp and ground crew are normally held on **151.625 Mhz.**

The following additional frequencies have been heard and/or posted over the years:

GY = Good Year Blimp

123.025	GY Blimp to Ground [NY]
123.050	GY Blimp to Landing Area [NY] [port frequency]
123.050	Fuji Blimp
123.075	GY Blimp to Landing Area [NY]
123.250	Blimp to landing area [JFK-NY]
125.250	JFK to Blimp
132.000	Goodyear Tire & Rubber Company channel [NYC] N-1-A KCA-186 [1-ALPHA]
145.5500	2 meter used from Blimps
151.6250	Blimp Operations NBFM
GY to Ground Crew [NYC & Pompano Beach]	
151.6850	reported GY Blimp to Office
158.4600	GY
217.4500	GY
250.8000	GY Blimp to Pompano Beach Tower and another airship in Florida
461.8000	GY
462.2250	GY
462.2750	GY
462.4250	GY
463.0375	Metlife Blimp
463.7125	Metlife Blimp
464.0500	WIK-777
464.5500	Simplex DPL-172 GULF (Oil Corp) Pilots have British Accents.
464.5500	Gulf Blimp
465.8875	Metlife Blimp
465.9125	Blimp Operations NBFM - Low Power
465.9125	GY
465.9375	Blimp Operations NBFM - Low Power
465.9375	GY
465.9625	Blimp Operations NBFM - Low Power
465.9625	GY
466.0375	Metlife Blimp

ITAC Channels

In the past few days these frequencies have been active and will be used as local talk around channels at various locations.

866.0125	Calling Channel
866.5125	ITAC Ch1
867.0125	ITAC Ch2
867.5125	ITAC Ch3
868.0125	ITAC Ch4

Transcom

Transcom, an agency that coordinates traffic information for the Port of Authority and various media and law enforcement agencies operates on the following frequencies. This list also answers the question as to what frequency the traffic information signs operate on!

Call	Location	Frequency
WA9XCU	Jersey City	915.750
WB2XHL	Jersey City	915.750
WPEZ542	GSP, Mile166.25	915.000
WPEZ543	GSP, Mile 171.45	915.000
WPEZ544	NY Thruway 21.18	915.000
WPEZ545	NY Thruway 16.5	915.000
WPQC469	?	915.750
WPKG855	Ft Lee, NJ	461.400
		466.400
WPKI644	Cliffside Park,NJ	
WPKI664	Warwick,NY	
	Baldy Mountain	472.2625
		475.2625
WPLZ985	Clifton, NJ	
	77 Jay St	451.525
		456.525
		452.675
		457.675
WPOZ221	Ft Lee	451.300
		456.300
WPQB974	Cadman Towers	
	Brooklyn,NY	462.375
		467.375

**STOP THE PRESS!
LAST MINUTE FREQUENCIES!!
(We apologize for possible duplications !)**

Take data of frequencies and LCN order from my web pages at <http://www.n2nov.net>

Talkgroups on NYC DOITT trunked system to watch:

000-1	OEM ALERT (Interagency talkgroup)
8784	OEM EXEC (main activity)

000-13 OEM OPS (secondary activity) [FEMA heard here 6/29]

- 9968 REGROUP #1
- 9952 REGROUP #2
- 9936 REGROUP #3
- 9920 REGROUP #4
- 9904 REGROUP #5
- 8192 LOANER 4A
- 8208 LOANER 4B
- 8384 LOANER 4C
- 8400 LOANER 4D
- 8416 LOANER 4E

American Red Cross
47.420

Navy Port Control
385.000, 359.400, 273.800, 277.800, 138.850
Shore Patrol

The Urban DX'er would like to thank all those who contributed to this months issue!
Charlie - N2NOV, "R", **John**- N2XEW, Justin - KC2GIK,

NY State PD Trunked System to watch:
02-021 through 02-023 Troop NYC
07-141 NYS Park PD

Port Authority Trunked System to watch: 00-101 through 00-107 ITD groups (tunnels, bridges, piers, bus terminal) unknown uses of 00-001 through 00-007, 00-021 through 00-027, 00-041 through 00-047 and 00-061 through 00-067 PAPD Central Desk conventional 453.400/PL 110.9 USCG Freqs
163.175 - Law Enf. @ Floyd Bennet Field
162.325 - " " Tactical
165.3125 - " "
165.3375 - Intelligence
162.125 - Tactical F1
143.280 - USCG Auxiliary
143.875 - " "
148.305 - " "
148.825 - " "
381.800 - AM Mode
123.100 - " "
237.900 - " "
287.800 - " "
126.200 - " "
277.800 - " "
282.800 - " "
287.500 - " "
381.700 - " "
383.900 - " "
360.200 - " "
232.100 - " " (Cutters)
150.375 - Mystery Repeater output

Liberty State Park
159.465, 163.4875, 165.2125, 165.7875, 168.050
168.550, 168.975, 169.200, 409.625

FEMA Repeaters
138.225, 142.975, 143.000, 153.225, 164.8625
167.975, 168.075, 168.100, 168.400, 168.700

US COAST GUARD MARINE CHANNELS

Channel	Ship Xmit	Ship Rec	Use
01A	156.050	156.050	Port Operations and Commercial. VTS in selected areas.
05A	156.250	156.250	Port Operations. VTS in Seattle
06	156.300	156.300	Intership Safety
07A	156.350	156.350	Commercial
08	156.400	156.400	Commercial (Intership only)
09	156.450	156.450	Boater Calling. Commercial and Non-Commercial.
10	156.500	156.500	Commercial
11	156.550	156.550	Commercial. VTS in selected areas.
12	156.600	156.600	Port Operations. VTS in selected areas.
13	156.650	156.650	Intership Navigation Safety (Bridge-to-bridge). Ships >20m length maintain a listening watch on this channel in US waters.
14	156.700	156.700	Port Operations. VTS in selected areas.
15	156.750		Environmental (Receive only). Used by Class C EPIRBs.
16	156.800	156.800	International Distress, Safety and Calling. Ships required to carry radio, USCG, and most coast stations maintain a listening watch on this channel.
17	156.850	156.850	State Control
18A	156.900	156.900	Commercial
19A	156.950	156.950	Commercial
20	157.000	161.600	Port Operations (duplex)
20A	157.000	157.000	Port Operations
21A	157.050	157.050	U.S. Government only
22A	157.100	157.100	Coast Guard Liaison and Maritime Safety Information Broadcasts. Broadcasts announced on channel 16.
23A	157.150	157.150	U.S. Government only
24	157.200	161.800	Public Correspondence (Marine Operator)
25	157.250	161.850	Public Correspondence (Marine Operator)
26	157.300	161.900	Public Correspondence (Marine Operator)
27	157.350	161.950	Public Correspondence (Marine Operator)
28	157.400	162.000	Public Correspondence (Marine Operator)
63A	156.175	156.175	Port Operations and Commercial. VTS in selected areas.
65A	156.275	156.275	Port Operations
66A	156.325	156.325	Port Operations
67	156.375	156.375	Commercial. Used for Bridge-to-bridge communications in lower Mississippi River. Intership only.
68	156.425	156.425	Non-Commercial
69	156.475	156.475	Non-Commercial
70	156.525	156.525	Digital Selective Calling (voice communications not allowed)
71	156.575	156.575	Non-Commercial
72	156.625	156.625	Non-Commercial (Intership only)
73	156.675	156.675	Port Operations
74	156.725	156.725	Port Operations
77	156.875	156.875	Port Operations (Intership only)
78A	156.925	156.925	Non-Commercial
79A	156.975	156.975	Commercial
80A	157.025	157.025	Commercial
81A	157.075	157.075	U.S. Government only - Environmental protection operations.
82A	157.125	157.125	U.S. Government only
83A	157.175	157.175	U.S. Government only
84	157.225	161.825	Public Correspondence (Marine Operator)
85	157.275	161.875	Public Correspondence (Marine Operator)
86	157.325	161.925	Public Correspondence (Marine Operator)
87	157.375	161.975	Public Correspondence (Marine Operator)
88	157.425	162.025	Public Correspondence in selected areas only.
88A	157.425	157.425	Commercial, Intership only.