



MONITORING THE MILITARY

BY LARRY VAN HORN N5FPW, PRESIDENT TEAK PUBLISHING

MY WORLD OF MILCOM MONITORING

- I started my listening hobby in 1964 using a five tube Hallicrafters S-120 and a 40 meter dipole.



MY WORLD OF MILCOM MONITORING

While in the Navy I used a wide variety of radio receivers for my Milcom hobby including portables when I was on the ship.

When the scanner craze of the 1980s and early 1990s, I was in heaven. Imagine being on a Navy aircraft carrier with a programmable VHF/UHF scanner that covered the Milair UHF band.



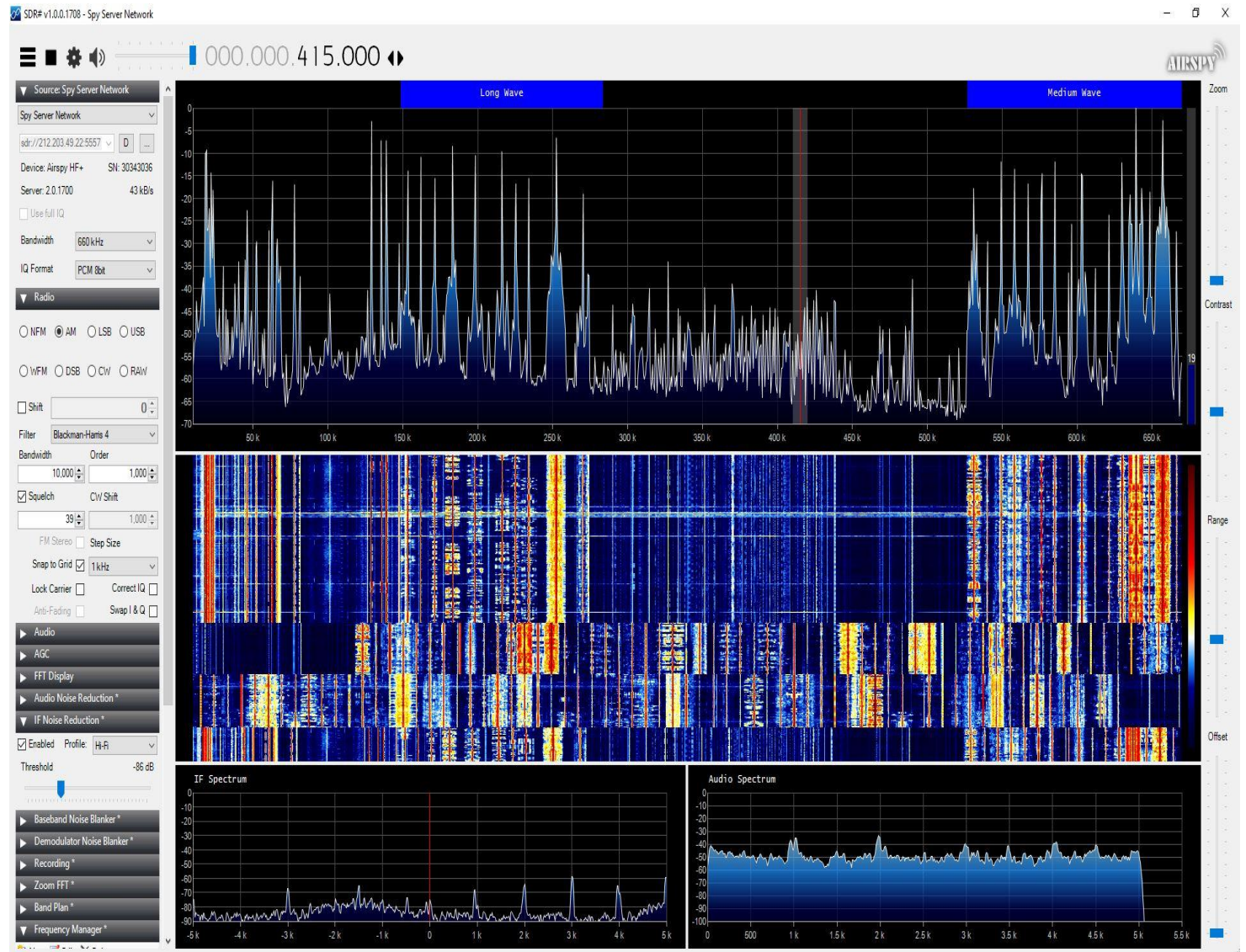
AND WHAT DO WE HAVE TODAY IN RADIO?

- The technology has leveraged the computer and now we have radio's the size of a small matchbox.



WHERE IS THE TUNING KNOB?

- Now it is a computer screen and a scroll mouse.



WHERE DO YOU LISTENING FOR MILITARY COMMS?

- Being simplistic 0 kHz to Light and beyond.
- But there are specific areas of the spectrum to hear military comms
- In the Longwave spectrum below 530 kHz to zero is the land of submarine communications and support aircraft
- Majority of the comms are encrypted, but ... you will find the occasional transmission in the clear.



HF MILITARY COMMS

- Fixed Service Bands: 1705-1800 2000-2065 2107-2170 2194-2300 2505-2850 3155-3200 4000-4063 4438-4650 5005-5450 5730-5900 6765-7000 7350-8195 9040-9400 9900-9995 10100-11175 11400-11600 13360-13570 13870-14000 14350-14995 15800-16460 17410-17480 18030-18068 18168-18780 19020-19680 19800-19990 20010-21000 21850-21924 22855-23200 23350-24890 25010-25070 25210-25550 26175-28000 kHz
- Aeronautical Band Routed: 2850-3025 3400-3500 4650-4700 5450-5680 6525-6685 8815-8965 10005-10100 11275-11400 13260-13360 17900-17970 kHz
- Aeronautical Band Off Route: 3026-3155 4700-4750 5680-5730 6685-6765 8965-9040 11175-11275 13200-13260 17970-18030 21924-22000 23200-23350 kHz
- Marine Bands: 2065-2107 2170-2194 4000-4438 6200-6525 8100-8815 12230-13200 16360-17410 18780-18900 19680-19800 22000-22855 25070-25210 26100-26175 kHz

VHF/UHF MILITARY COMMS

VHF Federal/Military LMR Low Band

30.000-30.560 MHz 10/15/25.0 kHz (FM/AM), 32.000-33.000 MHz 10/15/25.0 kHz (FM/AM), 34.000-35.000 MHz 10/15/25.0 kHz (FM/AM), 36.000-37.000 MHz 10/15/25.0 kHz (FM/AM), 40.000-42.000 MHz 10/15/25.0 kHz (FM/AM), 46.600-47.000 MHz 10/15/25.0 kHz (FM/AM), 49.600-50.000 MHz 10/15/25.0 kHz (FM/AM)

30.000-87.975 MHz 25.0 kHz SINCGARS (Single Channel Ground and Airborne Radio System) (FM/Encryption/Single channel/frequency hopping modes)

VHF Civilian Air Band

118.000-137.000 MHz 25.0 kHz (8.33 kHz in Europe) (AM)

VHF Federal/Military LMR High Band

138.000-144.000 MHz 12.5 kHz (AM/NBFM/Project 16/Project 25 Phases I/II), 148.000-150.800 MHz 12.5 kHz (AM/NBFM/Project 16/Project 25 Phases I/II), 162.000-174.000 MHz 12.5 kHz (NBFM)

UHF Military Air Band

225.000-380.000 MHz 25.0 kHz (AM/NBFM/Digital Modes/Encryption), 240-270 MHz Milsat subband MHz

UHF Military Air/LMR Band

380.000-400.000 MHz 12.5 kHz (AM/NBFM/Project 25 Phases I/II)

UHF Federal LMR Band

406.100-420.000 MHz 12.5 kHz (NBFM/Project 16/Project 25 Phases I/II)

HF AERO OFF ROUTE MILITARY FREQUENCIES

U.S. Air Force: 3026 3029 3032 3041 3044 3059 3062 3065 3068 3071 3074 3077 3080 3110 3113 3116 3134 3137 3140 3143 3146 4718 4721 4724 4727 4742 4745 5684 5687 5690 5702 5705 5708 5711 6685 6709 (Shared with CG) 6712 6715 6721 (Shared with USN) 6727 6730 6733 6736 6739 6751 6754 6757 6760 8965 8968 8986 8989 8992 9013 9016 9019 9022 9025 11175 11178 11181 11214 11217 11220 11223 11226 11229 11232 11235 11238 11241 11244 11247 11250 11271 13200 13203 13206 13209 13212 13215 13242 13245 13248 15010 15013 15016 15031 15034 15037 15040 15043 15046 17973 17976 17994 17997 18000 18003 18006 18009 18021 18024 18027 18030 kHz

U.S. Navy: 3035 3038 3047 3050 3083 3086 3089 3092 3095 3098 3101 3104 3107 3125 3128 3131 3149 3152 4700 4703 4706 4709 4712 4715 4736 4739 5699 (Shared with CG) 5714 5717 5720 5723 5726 6688 6691 6694 6697 6700 6703 6706 6718 6721 (Shared with AF) 6724 6745 6748 8971 8974 8977 8995 8998 9001 9004 9007 9010 9028 9031 9034 (Shared with CG) 9037 (Shared with CG) 11184 11187 11190 11193 11205 11208 11211 11253 11256 11259 11262 11265 11268 13224 13227 13230 13233 13236 13239 13251 13254 13257 15019 15022 15025 15028 15049 15052 15055 15058 15061 15064 15067 15070 15073 15076 15079 15091 15094 15097 17970 17979 17982 17985 18012 18015 18018

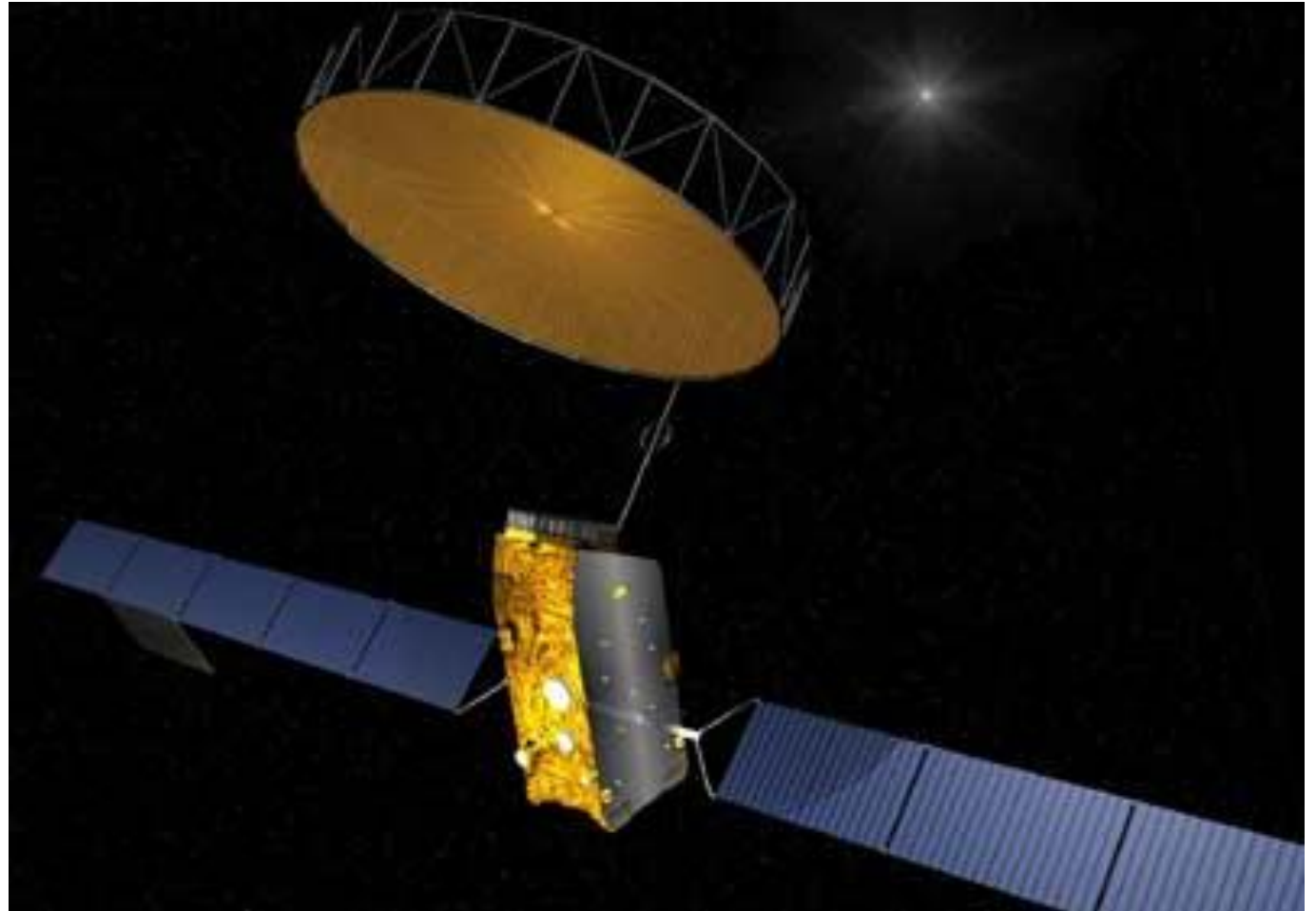
U.S. Coast Guard: 3053 3056 3119 3122 4730 4733 5693 5696 5699 (Shared with USN) 6709 (Shared with AF) 6742 8980 8983 9034 (Shared with USN) (Shared with USN) 11196 11199 11202 13218 13221 15082 15085 15088 17988 17991

ITU Region 1 Aero OR Assignments: 3900 3903 3906 3909 3912 3915 3918 3921 3924 3927 3930 3933 3936 3939 3942 3945 3948

ITU Region 1/3 Aero OR Assignments: 5451 5454 5457 5460 5463 5466 5469 5472 5475 5478

MISC MILITARY FREQUENCIES

- Inmarsat/Iridium Satellites:
1525-1559 MHz downlink,
1626.5-1660.5 MHz uplink



PLENTY OF MILCOM OPPORTUNITIES IN THE RADIO SPECTRUM

- You have a radio spectrum full of military activity.





THANK YOU AND 73

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