

# Monitoring Times 1999 INDEX

## FEATURES:

### Broadcast:

Around the World by Radio DEC  
 Behind the Mic at Columbia Square MAR  
 Radio Australia looks to the Future FEB  
 Radio Canada Intl SEP  
 Song of the Coconut Is (Indonesia) OCT  
 The New VOA AUG  
 TIS - Original Microbroadcasters NOV  
 Turning Point for Intl Broadcasting JAN  
 1998 Shortwave Year in Review MAR  
 193rd Special Operations Wing JUN

### Human Interest:

Alone on the Pacific (Mick Bird) MAY  
 A Volunteer for the CG Auxiliary APR  
 Eyewitness at the Solar Eclipse OCT  
 My First Radio SEP

### Miscellaneous:

A Common Date/Time Standard JAN  
 Compliance Enforcement at FCC MAY  
 Privacy Bill Resurrected APR

### Satellites

GPS and ITS MAY  
 Join the Search for ET JUN  
 Live Pictures from Mir JUN  
 Tuning in to Radio via Satellite MAR  
 Weather Satellite Primer JUL  
 Whispers from the Cosmos JUN

### Scanning:

DXing the VHF Low Band OCT  
 Guide to Aerial Refueling MAR  
 How to Identify FM Skip FEB  
 MD State Police Helicopters AUG  
 San Diego Regional Comm Sys OCT  
 Scanning across the Pond JUL  
 Scanning in Las Vegas JUL  
 Tracker Tips SEP  
 Tuning in to the Power Grid DEC  
 Vacation Scanning at Yellowstone JUL

### Technology and Technical:

Aerial Magic APR  
 Aiming Your HF Antenna DEC  
 Alternative Power Set-up JAN  
 Build Your Own Wx Station AUG  
 Back Yard Beverage APR  
 Construct an L-Band Feedhorn APR  
 Filters - the Critical Element DEC  
 Hey, hey, hey - It's Y2k OCT  
 Improvements to the Sony 2010 AUG  
 Monitoring Strategies for Y2k NOV  
 OptoCom receiver review MAY  
 Quadraform LF Loop Antenna NOV  
 Radio Propagation and the Sun FEB  
 Random Length Wire Antenna APR  
 Tape Recording from the Radio SEP

### Utilities:

DXing Latin America by Air SEP  
 Homing in on LF Beacons NOV  
 Monitoring the Crisis in the Balkans JUN  
 The Rise and Fall of WCC DEC

Time Standard Stations JAN DEC The Popular Half-Wave Antenna

## AMERICAN BANDSCAN

JAN Bits and Pieces  
 FEB DXing on the Road; expanded band news; bits & pieces  
 MAR TLsA (three letter acronyms) and other annoyances; applicants for CBC AM channels; expanded band map  
 APR Beaming In (directional arrays)  
 MAY Domestic DXers Abroad; expanded band news; harmonics  
 JUN Book reviews of *AM Broadcast Stations*, *AM Radio Log*, *FM Atlas*; Expanded band news  
 JUL FCC Online; bits&pieces  
 AUG IDing that unID  
 SEP New and Improved; operational expanded band stations  
 OCT Fading - is it inevitable?  
 NOV Y2k and Broadcasting; US-Mex agreement on expanded band  
 DEC Crystal Ball; digital TV DX; other services on 1610

## ...AND MORE!

JAN Maxon's Full-Featured FRS-214  
 FEB Cherokee's Potent FR-460  
 MAR Motorola's New TalkAbout TA280  
 APR Motorola's TalkAbout Distance GMRS  
 MAY Cherokee's FR-465plusVW FRS; 47 CTCSS tone table  
 JUN Cobra's Formidable Line of MicroTalk FRS Radios  
 JUL Drake FRS Sport 110 Raises the Ante  
 AUG GMRS Rule Changes  
 SEP Maxon's High Quality GMRS 21X  
 OCT First Alert WX-67  
 NOV Oregon Scientific WR-102 Wx radio  
 DEC Cobra's Innovative MicroTalk Weather FRS radio

## ANTENNA TOPICS

JAN The Half-Square Beam; *Antennas and Technique for Low-Band DXing*  
 FEB What difference does a dB make?  
 MAR Handy Tool for Antenna Work (MFJ 259B)  
 APR What Does an Antenna Do?  
 MAY Direction Finding Techniques and Antennas  
 JUN Repeaters and their Antennas, cavity resonators  
 JUL Vacation with an Antenna  
 AUG Antennas Designed for Reception  
 SEP What is a "DX Antenna"?  
 OCT Remote-Control of Antennas  
 NOV The many faces of lightning

## BEGINNER'S CORNER

JAN Around the World Yet Again  
 FEB Getting Started in Amateur Radio  
 MAR Indoor Antennas and More  
 APR Great Radio Reads  
 MAY Setting up a monitoring post  
 JUN Kit Building the Uncle Skip Way  
 JUL Special Summer Listening (weather events, circus and fairs, sports, special event stations and DXpeditions, random tuning)  
 AUG Radio Tools from the Office Supply Store  
 SEP Listening 101  
 OCT Developing Logging and Confirmation Skills  
 NOV That Pesky Propagation  
 DEC Keep on Having Fun!

## BELOW 500 kHz

JAN Nipping the Noise; Beacon directory  
 FEB Lower Update; GWEN gone; new LF band?; hunting for S118  
 MAR Voice BCs on Low Freqs; active TWEB and AWOS stns; DX camp results  
 APR Longwave towers; West Coast net  
 MAY Longwave Online; loggings  
 JUN Ham Band Update; Euro-Beacon Guide; logs  
 JUL Your FAQs Answered  
 AUG Surfin' for LW Sites  
 SEP Natural Radio - An Introduction  
 OCT Natural Radio - The Hardware  
 NOV Did you know? IDs; call assignments; FAA beacons; splinter freqs; harmonics; homebrew natural radio  
 DEC A Look Back (letter from a former ship radio officer)

## BOB'S TIP OF THE MONTH

JAN Spool Antenna for Portable SWLing  
 FEB Converting an AM/FM for aircraft/public safety reception  
 MAR Hint by the Handful (24 hr time on 12hr watch; check Uniden for RS cost savings; custom cataloging MT articles; dust your radios  
 APR Synchronous detection and Digital RF signal generator for the technically adept  
 MAY Better reel antenna/Memory keep-alive while changing batteries  
 JUN Roll your own NiCds  
 JUL More on the Fat vs. Thin Antenna Wire; More on License-Free Wireless Mike; More on Sony Memory Battery Replacement

AUG Two radios, one antenna; one radio, two antennas  
 SEP Pocket organizers and PDAs, Reducing circuit noise in used rcvrs; Using your car stereo for scanner/sw sound  
 OCT More Sony ICF-2010 Audio Improvements (better audio, better bandwidth); circuit correction for August feature  
 NOV More earphone audio on BC scanners  
 DEC Fixing Intermittent Sony 2010 Battery Operation

**CLOSING COMMENTS**

JAN The Millennium Dilemma: Myth or Monster?  
 FEB Bits and Pieces (ridiculous regulation; Leonid meteor storm; hobby rebound)  
 MAR Great Wailing and Gnashing of Teeth (The Right to Listen; A New Ham Test?)  
 APR Radio Waves and the Human Body  
 MAY The FCC on the Hot Seat  
 JUN Scanner Listeners and the Law  
 JUL The Frequencies, They are a'Changin'!  
 AUG In Opposition to "Technospeak"  
 SEP The Results are In - How Do You Measure Up?  
 OCT Y2k - Myth or Monster? You decide.  
 NOV Looking Back as We Move Forward  
 DEC Greetings from the MT Staff!

**COMPUTERS & RADIO**

JAN A Reflection on Computers & Radar  
 FEB 3.4 Million freqs (Grove FCC database) and the COMDEX Report  
 MAR AirNav 2.10  
 APR DXtreme Software's SWRLgold V3.0  
 MAY Software radio prospects / SkySpy ACARS decoding program  
 JUN Interfacing with the Icom IC-R2 (website to build or buy interface, R2 utility program)  
 JUL Get the Picture with RadioCom 3.52  
 AUG Seeing is Believing with VisualRadio  
 SEP Flight Databases Plus v4.0 ACARS Add-on  
 OCT AirNav 3 - NOT Just a Revision!  
 NOV The Duality of Life on the Internet  
 DEC The Better Side of the Internet (Jet Radio)

**DIGITAL DIGEST**

JAN Who's on Where?  
 FEB Who Uses What? Part 2

MAR Twinplex - SITOR ARQ on the Double; new sequential duplex ARQ system?  
 APR Catch Coquelet-8 before it's too late  
 MAY Gearing up for complex decoding  
 JUN Old systems going strong (Havana, Cairo embassies)  
 JUL Computerized Monitoring Aids (NSK PC Freq Manager)  
 AUG Robust Romania  
 SEP Piccolo  
 OCT Two's Company, Thirty Six is a CROWD; Chinese diplo moving to PSK  
 NOV PSK - HF Digital's Brave New World  
 DEC PSK - Part 2

**EXPERIMENTER'S WORKSHOP**

JAN Mastering the Grove FCC Database  
 FEB Data Decoder Interface for Trunk Following  
 MAR Soup up your Computer for Radio  
 APR Dual Polarity Power Supplies  
 MAY 4-Level FSK data decoder interface  
 JUN Modifying the Sony WaveHawk - baseband audio, data decoding, S-meter, AM and WFM baseband taps, tape recording, backlight, extended memory  
 JUL Computer Update: Trends & Features  
 AUG Tools & Techniques (building and equipping the workbench)  
 SEP Update on Computer Networking - II  
 OCT Computer Tools, Utilities, and Tips for Radio  
 NOV Electroluminescent Panels  
 DEC The End of an Era

**THE FED FILES**

FEB Where have all the fed freqs gone? (Standard Federal Trunked land mobile systems); 163-163.9875 allocations  
 APR Nat'l Disaster Medical Sys; more on 120.375 MHz; 164-164.9875 MHz allocations  
 JUN Monitoring in W. Arkansas; DEA in San Diego; FF updates from readers; 165-165.9875 MHz allocations  
 AUG US Fish and Wildlife Service; 166-166.9875 allocations  
 OCT Fed Files mailbag: NC Feds, More FBI Freqs, US Fish and Wildlife update, Blue Ridge Pkwy; 167-167.9875 MHz allocations  
 DEC Monitoring Y2k the Government Way (by-agency and by-freq listings)

**GLOBAL FORUM**

JAN Update on HCJB's Pifo Problem

FEB "Anything Goes" Gone  
 MAR France Snubs Western English Speakers  
 APR Sunspot Peak; BBC Comes Clean about 3-year plan  
 MAY Antarctica's Archangel on the Air  
 JUN Find it on the web (IBB; SEC)  
 JUL China Sneaks in Cuban Relay  
 AUG Arne Skoog 1913-1999  
 SEP Thanks to Cuba and China, Jamming Continues  
 OCT Deutsche Welle Faces Radial Cutbacks; Don't Miss this Radio St Helena Day  
 NOV WBCQ Celebrates One Year  
 DEC CIDX SW Listener Survey

**HOT NEWS**

JAN Program Changes in a new BCing Season (R Prague, R Vlaanderen, R Netherlands, WRN, Polish R Warsaw, R Australia, R Taipei Intl, BBC America, WRN-1  
 MAR Radio Waves, VOA to Africa, views of earth from space on internet, Art Bell update  
 APR BBC Singapore; DAB portable receivers; ODXA Milestone; EDXP electronic newsletter; Hard-Core DX emailing list; Mac using SWLs on the increase; WRN selected programming  
 MAY DW Radio Worlds; Grove free stuff; WWCR DX block; ODXA Radio Fest; Internet radio; sunspot webpage; NOAA radio; selected programs  
 JUL Kosovo Crisis  
 SEP BBC World TV  
 OCT Radio Republik Indonesia  
 NOV SWL Programs  
 DEC BBC, RN highlights; new SW WTJC, Newport, NC

**K.I.S. RADIO**

JAN "Doomsday Radio"  
 MAR Restoring the Hallicrafters S-38  
 MAY More Mobile Station Solutions  
 JUL Kits to Keep it Simple  
 SEP Audio Enhancing Devices (DSP)  
 NOV Bringing Hidden Treasures to Life

**LAUNCHING PAD**

JAN Is this Mess Necessary?  
 FEB Let's Accessorize!  
 MAR Putting it all together  
 APR Prosat DVB Digital Receiver  
 MAY Satellite Launch Update; mailbag  
 JUN Multi-Satellite Reception with a Fixed Dish; Mail bag  
 JUL Touring the Atlantic Satellites  
 AUG Zinwell DVB Satellite Receiver; joys of digital reception; Bob Cooper  
 SEP Uniden's SQ-590: Last Chance for a Talented Receiver  
 OCT Hot Tips on Cold LNBS  
 NOV Your DVB Questions Answered

DEC DBS Update: The Latest on Small Dish TV

#### MAGNE TESTS

(Reprints of Magne Tests reviews are not available.)

JAN Grundig Platinum Traveller Portable; Drake no longer servicing older models  
MAR RS DX-397 Compact Portable  
APR Emergency Radio: Info-Mate 837; Sony introduces ICF-SW07  
MAY Sony's ICF-SW07 ROM-tuned portable  
JUN Luke DP-976 Emergency Radio  
JUL Latest Version of Japan Radio's NRD-545; Grundig Yacht Boy 300PE being introduced  
AUG Grundig Yacht Boy 300PE  
SEP Icom IC-R75  
OCT WinRADIO 1500e PC Receiver  
NOV Virtual Radio: Icom IC-PCR1000  
DEC Kachina's Proposed KC-105CRX Receiver (a look at Kachina KC-505 tx)

#### MILCOM

JAN Monitoring the E-8 Joint Stars; Spectrum holes; NJ mil freqs  
MAR The 1999 Air Show Season, Blue Angel and Thunderbird skeds and freqs; US Army MARS freqs and designators; midwest air-to-air loggings  
MAY The Hidden Military Aircraft Band; What's on 138.925?; midwest monitoring; Coronet and HF refueling freqs; N. Fla milair freqs  
JUL USS Enterprise; MCAS Yuma; NG Y2K Exercise; Naval tailcodes & callsigns  
SEP New HF Zulu Freq Found; Mystic Star Update; Randolph AFB; 442nd Fighter Wing presets; Wright Patterson TRS  
NOV The Civil Air Patrol; Des Moines Intl and midwest logs; Have Quick Freqs; MacDill AFB; Military trunking systems survey

#### ON THE HAM BANDS

JAN You can bet on this Bob-tail; *Building and Using Baluns and Ununs*  
FEB Restructuring; Radio Shack repeater; *Hiram Percy Maxim*; email  
MAR Let's Talk about Ham Radio; The Internet and the Michigan Mighty Mite QRP transmitter  
APR W6SAI HF Antenna Handbook; QST archive projects - Pitchfork antenna, checkers on the air  
MAY SWLing for hams; Flight of the Bumblebees  
JUN Adventure Radio Society; Light House Day and other special events; Hamcalc Ver 38; ARRL web site and Ike's Soap Box

JUL A Different Antenna (Hentenna)  
AUG Is It High Enough?  
SEP Clandestine Radio (compact and hidden antennas); 6-m FM  
OCT Cutting Your Losses (transmatch); Mosley antennas; entertaining hams  
NOV Ike's Santa List  
DEC Hamming on the Internet; AM freqs

#### OUTER LIMITS

JAN Four SW Pirates Busted by FCC; Joe Mama killed; Metallica tx  
FEB SW Pirates adjust to FCC Busts; R Cochiguaz; Stoneham maildrop closing  
MAR Pirate Radio at Winter Fest; R Free Vermont vs. FCC; new S American address; bust update  
APR New editors at Free Radio Weekly; New ACE address; Europirates audible; clannie news  
MAY Jimmy the Weasel bust; *Radio World* endorses LPFM; W807; Europirates still heard  
JUN Radio Free Berkeley Returns; Radio Caroline; Serb Clans?; S Am Pirates  
JUL ANARC Net on Summer Vacation; Schoech QSL page; FCC embarrassed; Radio Eclipse wins Poll  
AUG Jimmy the Weasel Denies Bust; WBCQ schedule; Radio San Miguel  
SEP Numbers Station CD Available (Smolinski); Finn web page; Radiodifusora Paraton  
OCT La Voz de Alpha 66 Founder Dies; South American Pirates; Another micropirate bust; Zantow web site  
NOV South American Pirates; Berkeley Liberation Radio  
DEC Winter Prop Boost Europirates; Clandestine Radio Watch

#### PCS FRONT LINE

FEB Protection against cellular fraud (authentication, RF fingerprinting; wireless telephone protection act, subscription fraud, insider fraud, network intrusions); 220 MHz auction  
APR Touching Bases: Iridium, Globalstar, AT&T, Sprint PCS, AirCell; Sony phone warning  
JUN Surfing the Web on a Mobile Phone -- wireless apps, smart phones, GPRS, Bluetooth, Ricochet  
AUG Who Pays for that Cellular Call?; new area codes; new spectrum allocations; Global System for Mobiles  
OCT Iridium Woes; FBI Stalls Satphone Licenses; Dial 911 Anywhere

DEC The Evolution of PCS, Globalstar, Orbcomm

#### PLANE TALK

JAN More HF Control Frequencies  
FEB Monitoring Accessories and Activities; western hemisphere MWARAs  
MAR March Madness (humor); ATC separation standards  
APR ATCC simulation; Murphy's Law; Delta map and Salt Lake City freqs, Minn/St Paul freqs  
MAY Enhanced Traffic Management System; Airport surveillance radar  
JUN A Toast to Air Traffic Controllers  
JUL Shanwick Radio; Airport Movement Area Safety System (AMASS)  
AUG Travel with the Flying Pig (videos); A visit to Poland's ATC  
SEP Stockholmradio; SF Bay Tower freqs; transponder code assignments  
OCT Airport Hopping - Balt-Wash Intl, Wash Reagan Natl, Dulles Intl, Chicago Midway, St Louis KS, Kansas City Intl; Light Humor  
NOV Florida Freqs; Chicago O'Hare; Wash DC; Murphy's Law  
DEC Forth Worth ARTCC; book review *Five Miles and a Thousand Feet*; LAX video available from Flying Pig

#### PROGRAMMING SPOTLIGHT

JAN Learning to Fish - 1  
FEB Learning to Fish - 2  
MAR The Literate Listener  
APR OK, Where do I start?  
MAY One for the Veteran Listener (quiz)  
JUN Down Memory Lane (answers)  
JUL Traditional Life  
AUG Summer Heat: Sport and (BBC) Controversy  
SEP Music on SW - Evening Prime  
OCT Music on SW - Morning Prime  
NOV Music on SW - Foreign  
DEC Charting a Future for Int'l Broadcasting

#### PROPAGATION CONDITIONS

JAN Worldwide Broadcasting Conflicts  
FEB Sounding the Ionosphere  
MAR Causes and Effects of Ducting  
APR Bibliography of the Sun  
MAY Bibliography of the Sun - II  
JUN Knife Edge Refraction  
JUL ELF/VLF/LF Prop Modes - I  
AUG ELF/VLF/LF Prop Modes - II  
SEP - ELF/VLF/LF Prop Modes - III  
OCT Where to Listen in 1999  
NOV How to Use This Page  
DEC Santa Claus - a Man of Many Modes!

#### QSL REPORT

JAN Nordic SW Center Website

FEB Double Dutch Treat  
 MAR Sign of the Times? (changing QSL policies)  
 APR Signs of the Times - Part Deux?  
 MAY The SWL QSL card museum  
 JUN You Asked for It (all-reports)  
 JUL Summer Grab Bag  
 AUG Hot August QSLs (RTBF)  
 SEP September, and the DXing is Easy!  
 OCT QSL VHF Low Band Stations  
 NOV DXing India  
 DEC Special QSL Cards for DXers(R Australia and German Maritime Radio)

**SCANNER EQUIPMENT**

JAN AOR AR7000 Wide Coverage Receiver  
 FEB Radio Shack PRO-2066 Mobile Trunking Scanner; Improved feel for Drake R8B tuning knob; Download Uniden user manuals  
 MAR ICOM RS-8500 Software; PRO-34 discriminator output  
 APR Icom IC-R2 Portable Scanner; ITT Mackay Marine 3031A rcvr  
 MAY Remote Scanner Monitoring; Longer MX-4000/4200 battery life; PRO-7A repair  
 JUN Mini-Circuit's ZFSC-4-1 Splitter; more notes on Icom IC-R2; new Electra Corp scanner?; Batteries Plus; Skyway aircraft band converter  
 JUL Racing Electronics RE2000 Alpha Portable Scanner; May column correction  
 AUG AOR AR16 portable scanner; Harris RF-590 receiver  
 SEP Uniden BC245XLT TrunkTracker II  
 OCT Plectron R700 Monitor Receivers  
 NOV Uniden BC278CLT Scanner  
 DEC Uniden BC248CLT Scanner

**SCANNING REPORT**

JAN Flying and Scanning by GPS  
 FEB A Lesson from Boston PoliceRadio; morals about messing with the media; Police Call 1999  
 MAR Future Railroad Scanning (trunking debate); scanning antennas & Nil-Jon antenna review; Massachusetts Monitoring (part 2, completed)  
 APR CES 99 Report; (BC-245XLT announcement) and no-shows; CT state police update; scanner repair (G&G Comm); Ft Worth, TX, public safety sys; Savannah / Chatham Co / Tybee Is., GA, trunked repeater system  
 MAY Scanner MARKeting-You tell us; Disaster monitoring in Canada; Utah Co, UT, trunking; Montgomery Co, PA, trunking; Ericsson plans in N Calif

JUN CT SP on the Move; Nil-Jon antenna follow-up; contributions & queries from readers; Trends in pub safety comms; news & notes  
 JUL The Digital Dilemma; open airwave policy in Las Vegas; Longview, TX, trunking; NWS computer-generated voice  
 AUG The Bearcat 245XLT - What's it all about?; Palm Beach Co Fla sheriff, fire/rescue, W Palm Beach trunked system  
 SEP The Good Old Days (LAPD comms on Adam-12); Scanner Marketing follow-up; Busch Stadium, Halifax, Portland, trunked systems  
 OCT Canadian Digital Scanners; Groton CT Fire Dispatch; Promoting Scanners; Consolidation Continues; Wash State Ops; Southern Linc Blues; Wilmington NC Trunking  
 NOV Big Changes in the Big Apple; scanner marketing follow-up; Wash Co, OR, trunking; new CA business licenses  
 DEC Uniden's SmartScanner (how service works); Trunking Report (Pinellas and Pasco Co, Fla); Police Call excerpt Vol 8

**SERVICE SEARCH**

MAY Marine Radio Monitoring  
 JUN Civil Aero Assignments  
 JUL Gearing up for a Revolution (refarming); Stat e Law Enforcement Agency Allocations  
 AUG Emergency Medical Allocations  
 SEP Forestry Conservation (state & local)  
 OCT Police Service Allocations  
 NOV Highway Maintenance Service  
 DEC Fire Frequency Allocations

**UTILITY WORLD**

JAN Rescue Coordination 1999  
 FEB Listen for USAF Salinas Global (GHFS)  
 MAR More Israeli Intelligence Freqs  
 APR Sunspots (solar cycles and how to interpret solar indices reports)  
 MAY Monitor the Y2K Countdown  
 JUN More Maritime Changes; Numbers update; HWK7 not French Navy  
 JUL Are Planes Going Digital? HF ACARS; More New Star  
 AUG Globe Wireless jumps the Morse ship, Global Radio Network  
 SEP Updated CG Wx Sked; drug war leaves Panama; web ute resources; bogus numbers BCs  
 OCT Spooks around the Clock; More Cuban Strangeness; Spook Radio Schedules  
 NOV US Armed Forces on HF?  
 DEC Y2k, the Witching Hour Approaches - likely activity ,

freqs, dates, agencies, callsigns, nets

**VIEW FROM ABOVE**

JAN Wild and Woolly Weather (WXSATs; RESURS; GOES-8; STS Orbit plus; Kepler element sources)  
 FEB Using Primary Data formats  
 MAR Watching Iraq; operational Wesats; Polar Wesat status; SICH-1 and OKEAN-4; GOES Y2K tests; GOES-L; solstice images  
 APR Scanning the Weather Sats  
 MAY So GOES the weather; DMSP image; new products  
 JUN Storms over Yugoslavia; NOAA-15 Chan 3A,B; NOAA APT Calibration markers; NOAA-15 data drop-outs; Using NOAA data  
 JUL Beauty and the Beast - antennas, computer upgrades; operational wesats; new Chinese wesat; new Landsat launched; new Indian imaging sat; first pics from Insat-2E; correspondence from India  
 AUG Seasonal Satellite Viewing; FengYun-1C; Free tracking software; WxSat launches; GOES-L launch delayed  
 SEP WeSats Here to Stay: GOES Wefax; WXSAT emailing list; GOES-L launch delay; more software and updates; images of hot weather  
 OCT Way to Go, GOES! NOAA information sites; sources of current Kepler elements  
 NOV More on GOES-East; operational WXSATs; short-term outages from GOES  
 DEC T Build or to Buy?; Operational WXSATs; Iceberg Imaged; EMWIN; GOES-East

**WASHINGTON WHISPERS**

JAN FCC Curbs Violations  
 FEB renter's antenna rights; new WTB bureau chief; Sony recall; HDTV future  
 MAR FCC agenda for 1999; coalition petitions FCC to let market determine high speed Internet;; e-commerce and reforming FCC on Congress agenda; low power FM NPRM on FCC website; 19 pirates shut down; equipment approval system privatized and streamlined; real estate alliance appeals satellite dish ruling  
 APR FCC Proposes Low Power FM Service  
 MAY NR514 passes House; Tauzin opposes LPFM; taxing internet coming; Fcc shuts down Vibes 89.1 FM , Grizzly Peak repeater, ham operators  
 JUN Amateur Satellite(was) to Promote Commercial Venture

JUL	From Information Superhighway to Super Speedway!	CAIG catalog, new address	APR	Cutting Edge HAM-Pack	APR
AUG	EAS vs EBS; Israeli ATC vs pirates; reduced Morse code requirements worldwide; area code shortage; FCC investigating 10-10 services; FCC reconsiders slamming; annoying email violate US law?	ComBox has US office	APR	Cutting Edge PocketPRO pouch	JUN
SEP	Low Power BCing Creates Uproar	Computer Intl new website	DEC	Cutting Edge Quick Draw holster	OCT
OCT	LPFM Broadcasting not RFI Threat	Counter Spy Shops	JAN	Damark CellGuard/Safe Guard	OCT
NOV	The Migration to Digital Radio	DataFile's PROBE Ver 5.0 soft	JUL	Electronic Spec modem protection	FEB
DEC	Reply Comments Pour in on to Low Power FM Broadcasting	Drake manuals online	MAY	Everhardt AM/FM/Wx antenna for RVs	
		Due Diligence 2000 (soft)	OCT		NOV
		DW Radio Worlds brochure	JUN	Garmin GPS III Plus (Grove)	JAN
		Electronics Engineers Master catalog on disk and on line	MAR	Garmin NavTalk Cellular/GPS	AUG
		Fisher metal detector newsletter	MAY	GoTalk II FRS radio (Grove)	JAN
		Flightracking via internet	MAY	Grundig Satellit 800 (G)	NOV
		FreeTracker support pulled	JUN	Icom R-2 scanner (Grove)	FEB
		Hamco antenna catalog	FEB	Icom IC-R75 preview	APR
		IC Master on CD-ROM	SEP	Interference filters, AM & FM (G)	JUN
		Guide to Fed Govt Sales	MAR	Kaito Self-Powered Multiband (G)	DEC
		Hamcalc software disk	MAY	KVH secure Tracphone	FEB
		HamCalc 40	OCT	KVH TracVision LM	JUL
		Hammall.com	JUN	MetroWest Rapid Rechargers	DEC
		IC Master online	MAR	MFJ-8121 21 band receiver	JUN
		Icom promotions	DEC	MFJ Atomic Clock,monster display	JUL
		Icom repairs: MalcolmTech Support		MFJ field strength meters	SEP
			JUL	MFJ Helping Hands kit tools	OCT
			JUL	MFJ Jim Handy Interface	MAR
			AUG	MFJ Ni-MH Batteries	OCT
			JUL	MFJ RuffRider mobile antennas	APR
			JUL	MFJ 24-Hr clocks	JUN
			JAN	MFJ shack clock	NOV
			SEP	Milestone Tech TA-1 CW paddle	DEC
			MAR	NCT ClearSpeech Speaker	APR
			DEC	OptoCom available from Grove	MAR
			JUL	Optoelectronics MiniScout (G)	JUN
			NOV	Pelican computer case	JUN
			JUL	PowerSafe 2000	NOV
			SEP	Radio Shack PRO-92, -94, -2052 (G)	OCT
			FEB	RadMan RF field monitor	JAN
			NOV	Receivers for dogtracking (G)	MAY
			FEB	RF Bug	OCT
			NOV	RSM shortwave loop	JAN
			MAY	Sangean SR-2 AM/FM (G)	AUG
			DEC	SETI package from Grove	JUN
			JUN	Snap-Trak, Inc GPS chip	AUG
			APR	Sperryspectrum analyzer (G)	SEP
			OCT	TERK clip-on TV antennas	JUN
			AUG	TrackMaster Arrow Tracking Sys	MAY
			JAN	Triplite Super10 surge protectors	APR
			SEP	Trudell Dish-pod	MAR
			OCT	Uniden BC245XLT (G)	JUL
			NOV	Uniden BC278CLT, 248, 244	AUG
			FEB	Wavecom W40PC DSP card	AUG
			DEC	WorldSpace receivers unveiled	MAR

## WHAT'S NEW

### Books:

AM BC Stn Antenna Systems	MAY	IC Master online	MAR	MFJ Atomic Clock,monster display	JUL
Antenna Site Operating Guide	APR	Icom promotions	DEC	MFJ field strength meters	SEP
ARRL Wire Antenna Classics	OCT	Icom repairs: MalcolmTech Support		MFJ Helping Hands kit tools	OCT
BeaconFinder	JUN		JUL	MFJ Jim Handy Interface	MAR
Buying a Used SW Receiver	FEB	IC-R2, IC-Q7A software on line	AUG	MFJ Ni-MH Batteries	OCT
Collectors Guide to Vintage TVs	AUG	Inmarsat mini-M for aircraft	JUL	MFJ RuffRider mobile antennas	APR
Compendium of RR Freqs	JUN	JPS Comms, leaving ham sales	JUL	MFJ 24-Hr clocks	JUN
Cop Talk!	AUG	Magellan Geographix website	JAN	MFJ shack clock	NOV
A DXer's Technical Guide	FEB	Magellan S@tellite Modem	SEP	Milestone Tech TA-1 CW paddle	DEC
FM Atlas (18th)	NOV	Marbian Productions changes	MAR	NCT ClearSpeech Speaker	APR
Govt Radio Systems: CA	JUL	Midland Consumer Radio recall	DEC	OptoCom available from Grove	MAR
Hiram Percy Maxim	JAN	MFJ acquisition of Hy-Gain Ant	JUL	Optoelectronics MiniScout (G)	JUN
Home Video	MAR	MT Express debut (G)	NOV	Pelican computer case	JUN
Insanely Great Software WinWeather		Oak Hills Research bought by Milestone Technologies	JUL	PowerSafe 2000	NOV
	JUN	Optocom utility v 2.1 on line	SEP	Radio Shack PRO-92, -94, -2052 (G)	OCT
Int'l Satellite Directory	SEP	Parnass' RadioMaps	FEB	RadMan RF field monitor	JAN
Klingenfuss books:		Police Call on CD (G)	NOV	Receivers for dogtracking (G)	MAY
SW Freq Guide, Guide to Utilities, Radiotelex Messages, Super-Freq List on CD (G)	APR	QSLs by W4MPY	FEB	RF Bug	OCT
Klingenfuss Guide to Wx Services	AUG	Quebec Freq Dir on disk	NOV	RSM shortwave loop	JAN
Ladder Crystal Filters (MFJ)	SEP	Radio HF email newsletter	MAY	Sangean SR-2 AM/FM (G)	AUG
Mahlon Loomis, inventor of Radio	MAR	Radio Mali on CD	DEC	SETI package from Grove	JUN
McGraw-Hill Electronics Books	MAY	Radio Shopper magazine	JUN	Snap-Trak, Inc GPS chip	AUG
MT Express Debut	NOV	Rarities-Exchange.com via sat	APR	Sperryspectrum analyzer (G)	SEP
NRC AM Radio Log	DEC	Relm discontinues scanners	OCT	TERK clip-on TV antennas	JUN
NRC AM Station Map Book	JUL	Rich Wells dealer survey site	AUG	TrackMaster Arrow Tracking Sys	MAY
On the Short Waves	JUN	ScanCat supports TenTec RX320	JAN	Triplite Super10 surge protectors	APR
Police Call 1999 (Grove)	FEB	SESCOM catalog and give-away	SEP	Trudell Dish-pod	MAR
Radio Happy Isles	DEC	Skyvision catalog	OCT	Uniden BC245XLT (G)	JUL
S Fla Trunking Guide	MAY	SmartScanner service now available		Uniden BC278CLT, 248, 244	AUG
SW Guide to SE Asia	APR		NOV	Wavecom W40PC DSP card	AUG
The Covert Catalog	AUG	Swagur-Timestep agreement	FEB	WorldSpace receivers unveiled	MAR
Trunked Radio Systems (Calif)	JAN	Swezey DSP filter for SW	DEC		
Trunked Radio Systems (Calif)	OCT	TDP available on line	AUG	<b>Reviews:</b>	
Voices in the Purple Haze	SEP	Timestep PROsat for Windows i	APR	Active Duck for HH (G)	DEC
Weathering the Storm	AUG	Traffic Radar Handbook on line	NOV	Alpha Delta speaker / Icom Q7A Tx	JAN
WRTH 1999 (Grove)	FEB	Ultimate TIS Digest online	NOV	AVCOM SDM42A SDU	APR
Xtal Set Society, Vol 8	JUL	Uniden closures	JUN	Bose v. Zenith Challenge	MAR
Your Guide to Propagation	MAR	Uniden BC-245 manual online	SEP	Crane/Sangean CCRadio	FEB
		WinRadio software upgrades	DEC	E-Trax software utility	SEP
		WUN Frequency Guide CD (G)	MAY	EXP-1750 LF transceiver kit	JUN
		Yaesu buys Standard	AUG	JRC NRD545 with VHF/UHF converter	MAY

### Software, Videos, Services, etc.

Agrelo DF ing distributor SWS	MAY	<b>Equipment:</b>		Kachina 505DSP	OCT
AirNav tracking software	FEB	AOR Pocket receiver AR16B (G)	JUN	Klockit clock kits	NOV
Alinco DJ-195T & DJ-V5T HTs	JUL	AOR SDU5500 SDU	JUL	Kloss Model 88 AM/FM radio	JUL
aRFive AR5000 software control	FEB	BayGen lantern (Grove)	JAN	MFJ Deluxe Noise Canceling Signal Enhancer MFJ-1026	AUG
AR7030 improved	SEP	BayGen Global SW rx (G)	DEC	OptoCom receiver (feature)	MAY
Atlantic Ham Radio taken over by Radioworld, Inc	JUL	Bearcat bonanza (G)	APR	Radio Shack Tuner Control Cleaner	
Australasian SW Digest (sub)	AUG	ComBox SatStream PC	JAN		
BetaSphere beta testing	FEB	Craftsman digital multimeter	SEP		

& Lubricant	AUG
Sony ICF-B200	MAR
Tigertronics BP-2M digital modem	DEC

MONITORING TIMES. November 1994. Rocky Beginnings May 6, 1931. was a most important clay in the history of French shortwave broadcasting. November 1994. MONITORING TIMES. 11. FIGURE 2. "PopCom m INDEX1~1~T. (" 1 111 1:: ""11~ 1m. " :Urin'. Suite 27.,;J San I>ici:o. CA 92122 . Sampling strategies Monitoring involves qualifying pollutant behaviour in both space and time. A good network design should therefore seek to optimize both spatial and temporal coverage within the constraints of available resources. The previous section focused on maximizing spatial coverage and the representativity of measurement. Fixed monitoring stations poorly describe exposure for a short time period. However, personal exposure is better related to ambient levels when 8-hour or longer time averages are used. Emission data and the location of the most important sources give valuable information on the hot spots for the siting of monitors.

