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Meet the QSL Mistress – KSM	Sep

AMERICAN BANDSCAN (even months)

FEB	The Disappearing Radio? Analog
	TV not dead yet? FCC Notes;
	Canadian notes; Mexican notes;
	Callsign weirdness; Shipboard
	DX

APR Money and Radio; Analog TV: maybe not dead yet? FCC notes; Canadian notes

JUN Ham Antennas and AM DX; Analog TV: maybe not dead yet? FCC notes; Canadian notes; AM Bandscan Station Report

- AUG And now a word from your local station . . .; HD Radio notes; Analog TV: dead, I think; Canadian notes
- OCT "Translating" AM and FM; Analog TV: Dead; Canadian Notes; AM Bandscan Station Report.

ANTENNA TOPICS

JAN	Impedance Matching for	
	Antennas and Feed Lines	
FEB	Antennas which neither	
	Communicate nor Broadcast	
MAR	The Many Faces of a Dipole	
APR	It's a wonder they work at all!	
	(antenna problems and solutions)	
MAY	Antennas for the Radio Amateur	
JUN	Antennas, Accidents, and	
	Astronomy	
JUL	Something very different in	
	Antennas (small antennas)	
AUG	Antennas and Resistors	
SEP	How to Deal with Received Noise	
OCT	A Noise that Improves Antenna	
	Performance	
ASK BOB		

- JAN How to find local broadcasters; calculate element lengths for scanner antenna; why are whip antennas tapered? Jump starting a dead battery; blocking RFI from neighbors' comms; will grounding prevent static?
- FEB H-800 Skymatch with Eton E-1? What causes global warming? Did QEII receive a WWII Morse code message intended for QE!? Adapter for older radios which have 3 posts?
- MAR CFL bulb wattage equivalent; rounded plug vs RF ground; erratic scale readings; converting 5-tube AM rx to receive SW; can unblocked scanners decode cellular signals? Can old TV antennas be used for scanner reception?
- APR Repeat of March column. Due to a layout error we repeated the March column. We apologize for this error.

MAY Hazard of the All American Fi Legality of using a ham HT fo	
other services; Power and frequency limits of Grove	
Scanner Beam for transmit; Receiver advantages of USB/LSB vs SSB; Protecting multiband portable from EMP	

JUN HT Antennas for NOAA weather reception; Does the FCC bust CBers with linear amps; How to improve an antenna for HDTV reception; Thermal switches in Uniden scanner battery packs; Spy number station harmonics in Europe on VHF low band; Receiving earth signals on the moon; What does Roger Wilco mean?

JUL Aircraft engine bird protection; Difference between dBd and dBi; Length of a Beverage antenna; Which scanner to use for airshows; GRE 3001 VHF preamp overload solutions; AC vs DC and can I roll my own DC

AUG Alternative energy sources; Jacob's ladder (climbing spark generator); Tuner help shortwave reception; How do I know if my coax is shorted; Are yellow fluorescent lamps still made?

SEP Radio with Digital TV audio capability; What does the RG-174/U coax letters mean?; Monitoring telephone calls by the government; How digital will effect shortwave listening; How to test stereo speakers; GRE PSR-500 narrowband filter.

OCT Battery chargers; Hearing lightning strikes; Neutral and earth ground voltage; Diversity reception; Are all gases invisible?

BEGINNER'S CORNER

- JAN Guide to Tuning the International Space Station
- FEB The Big DTV Switch & School Club Round-Up
- MAR Ten Meter Beacon Band
- APR The Allure of SW Radio
- MAY Jump Start Your New Ham Hobby
- JUN Beginners Guide to Baseball on the Radio
- JUL Shopping for a SW Radio, Useful Spam, Ham Radio Scholarships
- AUG Eight Common Beginning Ham Myths
- SEP Better Audio from Your Shortwave Radio
- OCT Complain, Complain, Complain (FCC Consumer Protection)

BELOW 500 kHz

JAN Let's Get Digital: QRSS FEB Mailbag & News: VLF on Your PC; LWBC Catches; Best antenna?; WiNRADiO on LF

- MAR Antenna Observations
- APR RDFs Revisited
- MAY LORAN-C Going QRT
- JUN Your Letters Addressed; Daytime loggings
- JUL No Sunspots? No problem; Tips for better LW reception; LF Propagation Site; SAQ 17.2 kHz Schedule; Mailbag
- AUG Summer Survival on LW; Mailbag; Loggings
- SEP LF Receiving Antennas, Part 1; Loggings
- OCT Underground VLF and Uncovering Noise; 500 kHz Experimental License; Deep Down VLF; Unplugging from the Grid, New Book: *Demystifying Radio Frequency Interference*; Loggings.

BOATS, PLANES, and TRAINS

- JAN BOATS: Cold Weather and Hot DX! Tuning in 2182; MultiPSK; Around the Bands; Going Digital; Boats for Beginners
- FEB PLANES: AirNav.com A Resource for Aircraft Listeners
- MAR TRAINS: Reception Range? It Depends...
- APR BOATS: Radio on the Waves
- MAY PLANES: DXing General Aviation UNICOM
- JUN TRAINS: The Best of Times, The Worst of Times
- JUL BOATS: Radio waves and water waves; Amateur radio; Summer DX; The world of communications is changing
- AUG PLANES: Handoffs and Simulcasting
- SEP TRAINS: Amtrak Photo PolicyL An editorial
- OCT BOATS: Marine VHF Winter Freeze-Up; Severe Weather; Marine Radio Historical Society; Lighthouses.

COMMUNICATIONS

- JAN ARRL says Nix to DRM on 40; City Forced to Buy BPL System; Kitty High Jinks on 40 Meters; Action on 600 Meters; DXpedition to Desecheo Island; Rolling Helicopter; CHP vs. Cell Phone Ops Revisited; Cell Phone Aids Boat Rescue; KGO-AM Goes Solar; WorldSpace in Chapter 11; Great White (space) Hope
- FEB 40 Meters, All Amateur All the Time; FCC Grants HF Renewals; FCC OKs Experimental Stations. Scanner Listener Saves Child's Life; Ohio Multi-Agency System Crashed; AM Info Channel Debuts in Skokie; IBM to Sink Millions into BPL. US MilSat Goes on the Blink; Nigerian Broadcast Satellite Defunct; \$14,000 for No Fence. Broadcast Radio's Worst Year since 1954; Internet Radio Changes; Tweeter Leads Circuit City to Oblivion; Broadcast Related Businesses Plummet.

- MAR BBC and DW launch MW DRM; Shrinking lonosphere; 2008 Sunspot Flop; Ham Antenna Victory; Boston Police Radio; Cleveland System Down (again); High-Tech Knuckleheads.; Disgruntled WRIU-FM Listeners; DTV Shambles; The Unemployment Channel; Downsized CES; Toys 'R' Us Radio Recall
- APR Hams Aid Storm Victims; FCC Names Hollingsworth Replacement; Vatican Radio in Local Health Flap; ARRL Seeks to Mold Legislation; DTV Switch Delayed: It's On, It's Off, It's Both!; OpenSky Woes in Milwaukee; Glitches Plague Aging Cleveland Radio System; NOAA-19 in orbit; Tales from the Monopoly Zone; Cable Companies Nationwide fined: L-P **College Station Flunks FCC** Exam; Radio Stations Win FCC Fines
- MAY ARRL: IBM's BPL Plans OK; Bomb Squad Blows Up Ham Gear; Indy Cops Gone Wild on 2M; Scanner Listener Helps Nab Crooks; Iridium and Russian Satellites Collide; Pollution Detecting Satellite Now Trash; Sirius/XM Saga: Last Second Reprieve; DTV Switch Lurching Ahead; Tallest Broadcast Tower Proposal; R.I.P. Muzak?; Incomplete Public Files? \$7,200;
- JUN Harris Corp to Buy M/A-Com; Allin-One Chip for DRM & HD; ARRL Skeptical of Rural Internet Proposal; LA Parish to rely on Hams; DTV Conversion (Finally!); Orange Co FL SWATs FM Pirate; FCC Gives 1st Responders 4.9 GHz; Brazilian Bootleggers Chased off U.S. Milsats; FL DoT to Use CB for Emergency Info: U.S. Military to Track 800 Satellites by October; Sirius to Augment its Signal; FM Pirate to FCC: "Not My Signal"; FM Station Loses in Contest with FCC; Consumer Corner (recalls): RS Light Rocker switch, Insignia 26" flat panel LCD TV sets, Best Buy's Rocketfish portable power supply
- JUL Navy-Marine Corps MARS to Disestablish; HR2160 Seeks to Help Hams; Poll Rates BBG "Worst Place to Work"; CA Student/Hams Sweep Science Awards; Windsor Silences Scanners: Cleveland's Unending Police Radio Quagmire; Boating this Summer? Be Prepared; FCC to reform Am & FM License Rules: HD Radio Lurches Forward; the Hidden Dishes of Cuba; Iran's Space Woes; Just What Iridium Needs: Competition; XM Board Smells the Coffee; FCC: WDTI-TV, Where are You?

- AUG U.S. Couple Charges with Spying for Cuba; DRM Portable Available; The "Don't Blink" Solar Cycle; GAO/GPS Report Causes Media Panic; Is Your Cell Phone Spying on You?; Appeals Court Backs LPFM Community; AT7T Launches CruiseCast; Rural BroadbandL FCC Priority; Smith Cracks Down on Bootleggers; "Destitute" AM Station Fined by FCC; Consumer Corner: Circuit City Rises from Grave, Fluke Digital Clamp Meters Recalled
- SEP Two New HF Stations Granted, WX4NHC's Amateur Radio Test, 15 Year-old YL Top Texter, Ulysses Shut Down After 18+ Years, DHS Nixes Domestic Spying Program, Sea Launch Bankrupt, Satellite/Cable Bills Buck Economy, DTV Switch No Pay-TV Payday, NYC Jazz Station to Draw One Million New Listeners, Midland Radio Fined \$21,000, GMRS License Fee vs Fine.
- OCT ARRL Nails FCC on BPL Issues; KY County Sponsors Ham Class; DRM-FM Tested in Paris; DTV Coupon Program R.I.P.; FL Reading Service Funding Victim; Recording Artists Seek FCC Help; ISS to De-orbit in 2016? ; New Satellite Finds Earth-like Planet; Satellite Messenger from Space; New In-Flight Wi-Fi Gets FCC OK; PA County Fed Up with "OpenSky," CTA Bootlegger Arrested; Mall Radio Jammer Busted; Companies Cited for Selling Illegal Gear.

COMPUTERS & RADIO

- JAN Trying Out RadioCom 6 (part 2); Goodbye Vista? Already?
- FEB Computer Password Security and Biometrics (Microsoft fingerprint reader)
- MAR An "Atom" Powered PC for Radio Enthusiasts
- APR Unfinished Business: RFPC running an SDR: The Problem with Windows versions
- MAY The Tiny USB Muzee
- JUN Two free and useful radio tower applications: FCCinfo and ZIPSignal
- JUL Touchatag: RFID for Home Use
- AUG What's All the Fuss about "Netbooks"?
- SEP Shortwave QSOs No License or Equipment Required

DIGITAL DIGEST

- JAN More on NATO Encrypted RTTY. Bandscan: 13000-13500 kHz
- FEB Marines on Exercise and Ecuador on HF: Exercise Red Reef; Mexican PEMEX Network; Another Ecuadorian Navy Frequency; Rogue US Coast Guard transmitter
- MAR Looking at the BEEs (BEE modem)

- APR Chilean Police and Swiss Diplo Service
- MAY May Mixed Bag (PEMEX voice; USAF Rockwell TE204 modem; Colombian Clover-2000
- JUN Listening in on the National Guard's Civil Support Teams JUL The Mexican "M42" Network;
- AUG US Civil Air Patrol ALE Network; Ecuadorian Navy using Mil-Std-188-110A; 10266 kHz Mystery
- Net SEP Digital Utility Mysteries Solved: The M42 Network Revealed and HF Transmissions from Cutler ME
- OCT Decoding Software and the Hobby Market; Ecuadorian Navy Update; Technical Handbook for Radio Monitoring HF.

EDITOR'S SOAPBOX

OCT Introducing First Person Radio

FIRST PERSON RADIO

OCT In the Right Place at the Right Time – Bob Heil, K9EID

THE FED FILES (odd months)

- JAN Feds Make the Slow Move to Digital: Federal NAC information; Regional P-25 Networks; New York FBI Lineup
- MAR A Cloudy Future for the IWN? Justice Communications Budget; DEA Situation; Arizona Fedcom

MAY Inauguration and Super Bowl Wrap-Up

- JUL A Fed Files Summer Vacation: Area reports from Asheville NC; Augusta GA; Boston MA; Chicago IL; Las Vegas NV; Lexington KY; Los Angeles CA; Miami FL
- SEP In Search of the Great White Whale

FIRST LOOK

- JAN Grundig G6 Aviator
- FEB AOR AR-Mini B scanner
- MAR ARRL Basic Antennas. AOR AR-STV Wireless Camera Detector
- APR Ultra-Rx1 Ultrasound Receiver Kit
- MAY Ham Antennas by Par Electronics
- JUN Uniden BCD396XT Handheld Scanner
- JUL Icom RX-7 Handheld
- AUG Grace Digital Audio: GDI-IR3020 WiFi radio (Internet Radio)
- SEP Perseus Software Defined Radio: A Whole Universe of Listening Possibilities
- OCT Degen DE1103/Kaito KA1103 A Second Look

GLOBAL FORUM

- JAN Romania becomes a major signal
- FEB Will Obama's Admin Reform US Int'l Broadcasting?
- MAR Utility Intrusions into the SWBC Bands

- APR Madagascar Uprising Disrupts SW
- MAY Gains and Losses for SWLs
- JUN Downsizing in Chile, Turkey... JUL China's Mixed Feelings about Shortwave
- AUG Save Shortwave Run Commercials
- SEP Sino-Swearing on Shortwave
- OCT Working for Radio Habana Cuba vs China radio International

GLOBAL NET

- JAN The search for something worth hearing
- FEB What's Happening "Down Under"? Internet radio in th palm of your hand. Reaching into the mailbag.
- MAR Los Sonidos de Bolivia! WiMax revolution.
- APR Storm Season in Tornado Alley
- MAY Hopping the Islands of Hawaii
- JUN Sounds from the "Emerald Isle"
- JUL Happy Birthday America: Guide to Streaming Washington DC
- AUG Mobile Internet Radio the Push for Portability; Cruising the Net, in your car?; Clear Channel gets help from artist; Performance royalty debate heats up
- SEP Want Your ITV?, A Webcaster Deal Struck
- OCT Internet Radio Gadgets Galore: My new portable radio – the iPhone 3GS (iHeartRadio, ooTunes, Radio Apps) ; Want a Blackberry Free from Slacker?; Wi-Fi Radio Options in the Home.

LETTERS

- JAN Happy New Year; A Life-Long Hobby; Memories of Mort WB2ZWI; On the Net; Finding Big Band Music; Radio Comparison
- FEB Busted for cheap cable amp; Alternative DTV antenna; MT a Great resource; Remembering WCC; Multi-Reader help needed; MT Express for Success
- MAR ODXA Discontinues Publication; Resource for Online Hobbyists; 9 Lives for Pirate Cat? Remembering RNI Sarah
- APR April Foolishness; Antenna tuner for longwaves; Aero performance of aviator?; US prices for Bonito software; Radio telescope clothesline?; Rebanding?; Unusual antenna; Alternate email address; Rob Harrington, N0POH SK; John Wrisley, Grove Enterprises Engineer SK
- MAY Corrections; Celebrating Amateur Radio; Contact with Extra Class, KS3P; Signals from Space-Kenneth Hill; Real Amateur Radio by John C. McGrath, N9AMI
- JUN Pacific Radio; Dissension in Paradise; Mobile Scanning in Kentucky; Mobile SW Listening
- JUL Narrowbanding; Finding Frequencies; Monitoring

Ultrasound; Streaming the Classics; Monitoring Monthly magazine folds; Hawaiian geography lesson; Remebering D-Day

- AUG You Speak, We Listen (MT Reader Survey)
- SEP MT Express Expands Language Coverage, Passport to World Band Radio in Limbo; New Features Editor, Farewell to John Catalano, Thanks for the Reviews, Preserving Maritime Morse Code, Exploring Newer Modes, Airshow Kudos, On Baseball, Get with MT Express.
- OCT MT Welcomes Ken Reitz to Its Editorial Staff; The Sky's the Limit; Global Forum Completes a Long Run; Coming Up: Foreign Languages; Perseus Review Update; Handheld J-Pole.

MILCOM

- JAN Change! Military frequencies are changing; Inter Squad radios; METRO freqs changing; DoD milair wideband freq changes; T-Bird VHF freq changes; DoD VHF LMR bands changing
- FEB Coast Guard / COTHEN Comms Merger?; US Navy Logistics Aircraft Change Callsigns; Some Air Force Callsigns Decoded
- MAR Airshow Demo Teams Airshow Schedule 2009
- APR The US Military on HF
- MAY Military Frequency Profile: Fort Benning and Associated Camps; Aeronautical Frequency Changes; Flight Service Stations
- JUN Monitoring the Defenders of the Homeland: NORAD
- JUL Monitoring the Nation's Capital on the 4th: Guide to 380-400 MHz DC trunk radio systems
- AUG Monitoring the Israeli Military SEP New 380-400 MHz Trunk System
- Discovered: MCAS Yuma AZ; 380-390 MHz Spectrum Holes; 380-390 MHz Aeronautical Assignments; Latest Milair Frequency Changes
- OCT European Military HF Communications: UK Tascomm, NATO AWACS Net, German Coast Guard HF Net; North American VHF/UHF military frequencies

MT REVIEW

- MAY Degen DE1123 AM/FM/SW Pocket Radio
- JUL Tivoli Audio's NetWorks Global Radio (Internet Radio)
- AUG Grundig AN200 Antenna Loop

ON THE BENCH

- JAN Antenna Tuner for the Long Waves
- FEB "Time's UP!" Ten-minute timer
- MAR A Simple Zener Diode Meter APR Monitoring Ultrasound
- MAY Hams Reaching out to Youth (Scout projects)

- JUN Working "RTTY"
- JUL MFJ-269 SWR Analyzer
- AUG A low frequency audio generator OCT "Sky-Wires & Inhalers" Part 1: Catching Photons

ON THE HAM BANDS

- JAN New Years Resolutions for the Ham Hobby
- FEB Thaw Out Your Kit-Building Skills; The Club Connection
- MAR Living Large on a Tight Budget
- APR Numbers Stations (numbers used in CW QSO): FISTS, QRPARCI, SKCC NR, QRP, keyer, 72; ARRL Handbook
- MAY Let's Build Something
- JUN The N2EI Power and Light Company
- JUL First Contact; On the Ham Bookshelf
- AUG Summer Solace; ARRL Triple Play; Have you walked your talkie lately: Hope for the future; Speaking of Elecraft rigs . . .; The ARRL Satellite Handbook
- SEP Time to Amp Things Up, 6 Metre Handbook review
- OCT 10th Month 10 Meters; *The ARRL Repeater Directory*, 38th edition.

OUTER LIMITS

- JAN Radio Euzkadi Returns? Boulder CO Pirate; Books
- FEB Clandestine and International Broadcasters Still Needed; Radio Morania
- MAR Pirates Week Podcast from Ragnar; 2009 Winterfest; Commando Transmitter; Clandestine QSLs; Numbers on 5882
- APR Pirate-Inspired Station Still Silent
- MAY The Corsette Transmitter JUN Clandestine Broadcasting
- JUN Clandestine Broadcasting Robust, but Changed; WEAK QSL; Major Pirate Bust JUL Radio Dr. Tim Raided in
- JUL Radio Dr. Tim Raided in Germany; Pirate Week; New Blandx; Johnny Guitarman RIP; Columbus NASWA Chapter, What are we hearing; QSL Pirates
- AUG Pirate Radio Movie Opens in August; NASWA Pirate Report; FBI Pirate Bust; What We Are Hearing, Pirate QSLs
- SEP Numbers Stations Puzzle National Press, What Your Are Hearing, QSLing Pirates
- OCT Thirty-Four Venezuelan Radio Stations Pirates; Expanded Band

PROGRAMMING SPOTLIGHT

- JAN Poland's Underrated Voice to the World
- FEB Money Makes the World Go 'Round: England, continental Europe, around the world. Widgets.
- MAR A Tour of the Black Sea: Bulgaria, Romania, Ukraine, Georgia, Russia, Turkey
- APR If it ain't Baroque, don't fix it!

- MAY Scandinavian Smorgasbord
- JUN Language Lessons Revisited; Rock and Roll Revisited
- JUL Health Matters
- AUG Toronto's SW Voice and Theater of the Mind (Radio Drama programs)
- SEP More Small Countries, Booming Voices: Croatia, Thailand, Vatican City, Vietnam, Next of Kim Kin
- OCT Be Afraid, Be Very Afraid: "Spooktacular," History Programs Revisited, Science Fiction

QSL REPORT

- JAN Tips on Follow-up Reporting
- FEB Tales of Tentative Reporting
- MAR QSL Tips and Contesting
- APR QSL "Bytes"
- MAY Fast Track to Amateur Radio JUN Vintage Receivers from Radio Romania; June Bits and Bytes
 - Holiday DXing for a Sizzling July
- JUL Holiday DXing for a Si AUG August QSL Closeout
- SEP Name That Tune!
- OCT Tis the Season... of the Witch

RADIO RESTORATIONS

- JAN The Earliest Vacuum Tubes FEB The Globe Scout: Limited
- Progress MAR The Globe Scout: Making RF at Last!
- APR Globe Scout: It's a Wrap
- MAY An Entry-Level Ham Receiver of 1939
- JUN "Extracting" the S-20R Chassis
- JUL Recapping the S-20R
- AUG August QSL Closeout
- SEP The S-20R Finds Its Voice
- OCT The S-20R: It's a Wrap

SCANNING REPORT

- JAN New Scanners for a New Year. Intermediate Frequencies. Interference. Location-based scanning with GPS. Aerostats.
- FEB Access Denied. ESK in Florida; Rockingham County, VA; Oakland County, MI. Radio Shack PRO-2045
- MAR "Unacceptable" for Public Safety Use. York County PA; New York Statewide Wireless Network; Cleveland OH. International Space Station.
- APR Why are US cellular frequencies blocked? Fairfax Co VA; Delaware; 700 MHz
- MAY Control Channel Scanning. Bearcat 250D; Project 25 Systems. Philadelphia Radio Systems; Milwaukee WS; Dayton Hamvention
- JUN Finding Frequencies: Gaston Co NC, Collin Co TX, York Co PA; Radio Refund
- JUL Scanning Rochester and San Diego
- AUG Internet Expertise and Mobile Data
- SEP "Open" and Shut Systems: York County SC, Suburban

Chicagoland" Aurora IL,

Naperville IL, Illinois Mutual Aid OCT Keeping Tabs on Your Community: Scanning San Francisco, Arvada CO.

SKYSURFING

OCT Radio Astronomy: VLF Detection of the Sun

UTILITY WORLD

- JAN Digital Utilities: The Absolute Beginner's Guide
- FEB British Numbers: Cherry Ripe is Alive! Keeping time; No NRD-555?
- MAR Will there EVER be sunspots again? Software Defined Radios
- APR Canadian Coast Guard Frequencies
- MAY Ham QRP: SW's Hidden Underground
- JUN XSL: Beating the "Slot Machines"
- JUL Demystifying STANAG 4285
- AUG Utility Broadcasting: Wireless Time and Power Control: Standard Time and Frequency Stations
- SEP "Spy" Numbers: The Global Intrigue Continues
- OCT Monitoring Mexico's "Green Angels"

WHAT'S NEW

Books, CDs, Software

2009 European/North American NE	ЪВ
Handbook/CD	Aug
Argos3 Plotter	Sep
ARRL Digital Tech for Emergency	
Communications course	May
ARRL General Class Course	May
ARRL Satellite Handbook	May
B'casting on the SW 1945-Today	Feb
Domestic Broadcast Survey	Sep
DXtreme Station Log	Jan
Free Navtex	Feb
Hamcalc v110 Now Available	Sep
Klingenfuss SW Freq Guide	Mar
Klingenfuss Utility Stn Guide	Mar
Klingenfuss Super Freq List	Mar
Listening on the SW 1945-Today	Feb
MT 10-year anthology on DVD	May
MT back issues sets	May
Multipsk to add Mil-Std 188-110a	Sep
New iPhone App Finds DX Openin	
	Jun
Passport to World Band Radio	Jan
Perseus databases	May
RadioReference Scanner database	
Sold on Radio	
	Jun
The ARRL Ham Radio License Ma	nual
	nual Oct
The ARRL Software Library for Har	nual Oct ns
The ARRL Software Library for Har v3.0	nual Oct ns Sep
The ARRL Software Library for Har v3.0 The Signal Analyzer	nual Oct ns Sep Aug
The ARRL Software Library for Har v3.0 The Signal Analyzer The World Listening Guide	nual Oct ns Sep Aug Jun
The ARRL Software Library for Har v3.0 The Signal Analyzer The World Listening Guide UCS Satellite Database	nual Oct ns Sep Aug
The ARRL Software Library for Har v3.0 The Signal Analyzer The World Listening Guide UCS Satellite Database VoIP: Internet Linking for Amateur	nual Oct ns Sep Aug Jun May
The ARRL Software Library for Har v3.0 The Signal Analyzer The World Listening Guide UCS Satellite Database VoIP: Internet Linking for Amateur Radios, 2 nd Edition	nual Oct ns Sep Aug Jun May Sep
The ARRL Software Library for Har v3.0 The Signal Analyzer The World Listening Guide UCS Satellite Database VoIP: Internet Linking for Amateur Radios, 2 nd Edition WRTH 2009	nual Oct ns Sep Aug Jun May
The ARRL Software Library for Har v3.0 The Signal Analyzer The World Listening Guide UCS Satellite Database VoIP: Internet Linking for Amateur Radios, 2 nd Edition WRTH 2009 Yesterday and Today – A 20 Year	nual Oct ns Sep Aug Jun May Sep
The ARRL Software Library for Har v3.0 The Signal Analyzer The World Listening Guide UCS Satellite Database VoIP: Internet Linking for Amateur Radios, 2 nd Edition WRTH 2009	nual Oct ns Sep Aug Jun May Sep

Equipment

Equipment	
FLEX-3000 SDR	May
Grundig passive antenna	May
Icom IC-7600 transceiver	May
JRC HF receivers gone	May
Ten Tec 715 RF Speech Processo	rJul
Uniden scanner update news	May
	-

Miscellaneous

Feb
Jul
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Jul