

## RadCom Data Column subject index

Date	Items Covered
Feb 2000	Introduction. Data comms. Fundamentals - ASK
Apr 2000	High speed data on microwaves. ALE, Slow data on LF. Fundamentals - FSK
Jun 2000	Transceiver control. Fundamentals - FSK continued, the Shannon limit.
Aug 2000	Bandplans and frequencies. Datamode contesting. DSP on Amsat Phase 3D. Fundamentals - error detection
Oct 2000	Latest trends in datacomms. Audio connection problems. Fundamentals - error correction
Dec 2000	High Speed packet. Ultra simple datacomms experiments. Fundamentals - error detection and correction
Feb 2001	The VE2IQ 'Coherent' BPSK mode
Apr 2001	Microwaves and EME data comms ideas. Spectrum analysis software. Fundamentals - BPSK
Jun 2001	BARTG, Wolf BPSK at LF. HF Email. Fundamentals - BPSK demodulation
Aug 2001	Replacement for the 56002EVM. The T7F UHF data transceiver. Fundamentals - clock recovery
Oct 2001	'Listening in'. T7F update. BARTG update. Multiple Data Modes compared. Windows programming
Dec 2001	Microwave data link update. Fundamentals - waveform shaping and bandwidth control.
Feb 2002	WSJT Package. DAT20 HF Data Transceiver. Fundamentals - signals in noise.
Apr 2002	Wireless LANs and amateur radio. LF Data comms update. JASON.
Jun 2002	Band planning for datacomms. Packet radio in the south. The DSTAR system
Aug 2002	Packet Radio. Digital voice at Dayton
Oct2002	The 5MHz experiment. Data on topband. Fundamentals - designing a data mode from scratch
Dec2002	Flexnet packet radio software. MIL-STD 110A Keep your Older Computers
Feb 2003	HF Band planning. More on topband data. Automatic PC time setting. Fundamentals - continued
Apr 2003	Tx watchdog timer. Fundamentals – MS mode continued
Jun 2003	Multiple soundcards. Multiple serial ports. Reverse beacon with digitisation
Aug 2003	G3RUH's Forward Error Correction note.
Oct 2003	PSK Reporting. GPS locked signalling
Dec 2003	PC Interference. Clock recovery basics.
Feb 2004	Five year anniversary - Data Column Feedback
Apr 2004	BARTG. MixW USB transceiver interface. Digital selective calling. Digital voice
Jun 2004	Windows XP. MultiPSK. Modern modem chips
Aug 2004	RTTY Beacon keyer. RTTY software. More on PC operating systems
Oct 2004	ON4KST / microwave chat. WLANs in contests
Dec 2004	Some corrections. Globalnet. Rejuvenating the packet network
Feb 2005	LF data modes update. Datamodes and DxPeditions. PIC programming
Apr 2005	Fourpak packet update. WSJT update – JT modes. PICs and WSJT coding.
Jun 2005	WSJT - the JT65 mode. PC command prompt and redirection
Aug 2005	New Wolf GUI. The Numerically Controlled oscillator
Oct 2005	Software Defined Radio basics. Doing it in a PIC
Dec 2005	Katrina and ALE. Chip64. Olivia multi FSK waveform
Feb 2006	MM wave exchanger. Signal averaging. Timing issues
Apr 2006	Soundcard Programming and DSP
Jun 2006	Soundcard Calibration. Pseudo Noise / PR sequences
Aug 2006	Remote Control
Oct 2006	USB Serial Port replacement, 2.4GHz Digital Voice, ALE On The Air Week
Dec 2006	Two Modern Datamodes – OFDM and MSK
Feb 2007	Interfacing a PC Keyboard, BBC Basic for Windows, PSK31 generation in a PIC/DDS
Apr 2007	Bluetooth Remote Control, IP Over Avian Carrier, IQ Waveform generation, Signal Decoding challenge
June 2007	QPSK Modulation and Coding – decoding challenge solution.
Aug 2007	Two or more soundcards. Virtual Audio Cable. PIC Bootstamp
Oct 2007	500kHz Data Experiments, Audio Tones without a PC, Simple FSK Demod, Soundcard Sampling Rates
Dec2007	G3PLX Digital Voice Experiments, DFCWi, Soundcard Interfacing,
Feb 2008	USB Host Module, Datamode Performance Summary, SDR Transmit Software
Apr 2008	Keyboard Modes for LF, Audio Triggered Switch, Detecting Signals in Noise Part.1

June 2008	Detecting Signals in Noise Part 2, WSPR and JT65, Speech Coding Module
Aug 2008	Detecting Signals in Noise Part 3, WSPR QSO Mode, Illinois Digital Ham Group
Oct 2008	?????
Dec2008	PSK Rumble Contest, BPSK and the Costas Loop, Mono Input and Audio Dongles
Feb 2009	Global ALE Marks a Record, SDR 'Back End' WSPR Updated
Apr 2009	Audio Phase Shifter, FLDIGI Software, WSPR Reporting database
June 2009	Choose the right Modulation. Forward Error Correction,
Aug 2009	Path Simulation, FEC Hamming and BCG codes
Oct 2009	Convolutional coding
Dec 2009	Soundcard sampling rates,timing and calibration
Feb 2010	More on Block error correction, Feedback, New MultiPSKversion
Apr 2010	ARPS Net, Novel DSP Transmitter architecture, some DSP maths
Jun 2010	ROS, Wideband data & Social issues,DDS Polar generation, COM port keying <b>Columns reformatted with shorter Data column, part transferred to Design Notes</b>
Aug 2010	Shannon and communications fundamentals.
Oct 2010	Feedback, Direct RTTY generation, NUEPSK Terminal
Dec 2010	More on the NUE Terminal, RTTY keyboard adapter, New modes and software
Feb 2011	ROS with I/Q out, Soundcard Tx/Rx Difference, SDR Transmitter, USB Codec
Apr 2011	Datamode Identification, Robust packet
Jun 2011	Data on Beacons, Whats new in the Digital World
Aug 2011	Data Comms vs. Internet radio, 30m band utilisation chart
Oct 2011	Pitfalls of Cheap USB adapters, another ROS update
Dec 2011	Spread Spectrum
Feb 2012	Combined with Design Botes – Direct Frequency Converters
Apr 2012	OPERA, PSK2k, Topband Data Group
June 2012	Opera Innards, S/N vs Bit Error rate