

30m QRSS junkbox tx

Written by Hans Summers

Saturday, 20 June 2009 17:29 - Last Updated Tuesday, 23 June 2009 18:40

Transmission details:

QRP	360mW
QRG	10,140,060
QRV	23-Feb-06 1145 UT until 01-Sep-06 2000 UT
QTH	IO91VH, 15 miles south of London, UK
Ant	Attic Longwire
Msg	FSK, 3Hz separation, squarewave with 25 second cycle



Junkbox beacon construction

This simple 30m QRSS beacon is built entirely out of junkbox parts, the only component purchased spe

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Antenna and Attic installation

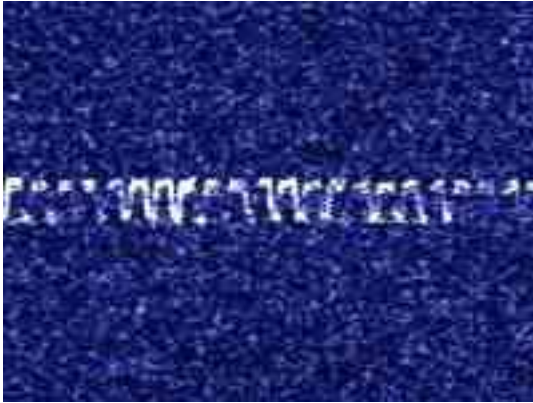
I use a full size half-wave dipole (14.2m) in my attic, taped to the roof at about 4 feet (1.3m) above the a

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First reports, 28-Feb-06 - 02-Mar-06

David

[NQ](#)

[DL6JAN](#)

[VK6DI](#)

reported seeing a plain [VK6DI](#) signal drift to the slowly [W6DA](#) together with
and Chris

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Reports, 03-Mar-06 - 01-Sep-06

On 02-Mar-05, 1800 UTC I added 2,200uF capacitances in parallel with each of the two 470uF period d

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Special Reports :

These are some unusual reports, showing interesting propagation conditions, unusual QRSS monitoring

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30m QRSS Receiver :

Don't miss this related project: a simple 2-chip 30m QRSS crystal controlled direct conversion receiver p

[READ MORE.](#)

{gallery}qrssjb/map{/gallery}

Reception map :

This map shows the worldwide reception of the G0UPL junk box beacon. Not all stations are shown on t

List of receiving stations

Currently reports have been received from **45** stations as follows:

Callsign	Name	Locator	Distance	Location
1. 28-Feb-06	VK6DI David Isele	OF88CD		Mount Helena, Australia
2. 28-Feb-06	WB3ANQ Larry Putman	FM19RC		Pasadena, Maryland
3. 01-Mar-06	DL6JAN Christian Proehl	JO60KU		Chemnitz, Germany
4. 01-Mar-06	ZL4OL	Mike McAlevey	RE54GG	Waitati,
5. 6. 01-Mar-06	ON5SL LA5VNA	Pierre Steinar Aanesland	01-Mar-06 Aas, Norway	

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7. 02-Mar-06	ON4LP	Erik Platteeuw	JO11OE	Brugge
8. 03-Mar-06	I1DFS	Paolo	JN54AC	Italy
9. 04-Mar-06	LA9BEA	Tj̄½rand Bauge	JO29OG	ĩ½kre
10. 05-Mar-06	IW0HK Andrea Borgnino	JN61FV	Rome, Italy	
11.	IOSKK Alex	Rome, Italy	14-Mar-06	
12.	OE5EEP Heinz Schnait	Seewalchen, Austria	16-Mar-06	
13. 30-Mar-06	I0CG	Giuliano	Rieti, Italy	
14. 31-Mar-06	IK4GBU	Valeri Bianchi	Casalecchio di Reno, Italy	
15. 10-Apr-06	G3VYZ	Les Thompson	IO95FB	Tyne &
16. 10-Apr-06	PA1SDB	Peter Knol	JO33KH	Apping
17. 20-Apr-06	IK4IDP Andrea Tommasi	JN54QL	Castenaso, Italy	
18. 21-Apr-06	IV3XYM	Alessandro Vitiello	JN65SU	Ronchi
19.	Giuseppe Bini	Italy	21-Apr-06	
20.	Giuseppe Bimbi	Italy	21-Apr-06	
21. 22-Apr-06	IK2JET	Alberto Scanzi	Lonato, Italy	
22. 23-Apr-06	G3GKI	Vic Kershaw	Scarborough, Yorkshire, UK	
23. 23-Apr-06	IZ1KGL	Giulio	Torino, Italy	
24.	Andrea Lawendel	Milan, Italy	23-Apr-06	
25. 24-Apr-06	I2NDT	Claudio Marega	JN45TQ	Italy
26. 26-Apr-06	DJ2LF	Walter Staubach	JN59NO	Erlange
27. 29-Apr-06	G0UPL Hans Summers	IO91VH	0.005km	
28. 29-Apr-06	IZ2KQP	Enrico	Mese, Italy	
29. 30-Apr-06	DK5NA	Michael Peters	JO42BH	German
30. 04-May-06	IK1ZYW	Paolo Cravero	JN35TC	Italy
31. 07-May-06	ON6RR	Staf Rans	Belgium	
32.	Hartmut Wolff JO52HP	Germany	07-May	

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[-06](#)

33.	IW3SGT	Alessandro Kosoveu	JN65VP	Trieste, NE Italy
08-May-06				
34.	IZ2EEQ	Matteo	Italy	
09-May-06				
35.	SM6LKM	Johan Bodin	Sweden	
11-May-06				
36.	M0AYF	Des Kostryca	IO93OJ	Gainsborough, UK
20-May-06				
37.	G6AVK	Colin Thomson	JO01HO	66km
23-May-06				
38.	G4KKI	Bill Stevenson	IO83TM	Swinton
23-May-06				
39.	IN3KLQ	Giuliano	JN56RG	Italy
15-Jun-06				
40.	G7IZU	Andrew Smith	IO70WK	Plymouth, UK
29-Jun-06				
41.	2E0KNJ	John Knott	Wells, Somerset, UK	
09-Jul-06				
42.	IZ8GFQ	Quirino Tirelli	JN71JD	Beneve
21-Jul-06				
43.	I2PHD	Alberto di Bene	JN45SL	Casirate, Italy
24-Jul-06				
44.	N3TFM	Todd Putman	EN72FH	Kalama
24-Jul-06				
45.	AA4XX	Paul Stroud	FM05QR	Raleigh
30-Aug-06				

Two maps from from Larry WB3ANQ showing the path between G0UPL and Todd N3TFM:
(click images for the full size versions).

{gallery}qrssjb/maps{/gallery}

QRSS WEBSITES

Knights webpages:

[VK6DI David](#) <http://www.users.on.net/~davroz/vk6di/index.html>

[WB3ANQ Larry](#) <http://www.wb3anq.com>

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[DL6JAN Christian](http://www.proehl-elektronik.de/qrss/qrss_e.html) http://www.proehl-elektronik.de/qrss/qrss_e.html

[IW0HK Andrea](http://mediasuk.org/iw0hk/qrss2.htm) <http://mediasuk.org/iw0hk/qrss2.htm>

[I0SKK Alex](http://www.eco-lavoro.com/i0skk/Beacon.htm) <http://www.eco-lavoro.com/i0skk/Beacon.htm>

[OE5EEP Heinz](http://members.aon.at/oe5eep/QRSS.html) <http://members.aon.at/oe5eep/QRSS.html>

[AK0B Stan](http://www.ak0b.com/) <http://www.ak0b.com/>

[G6AVK Colin](http://www.g6avk.demon.co.uk/qrss.html) <http://www.g6avk.demon.co.uk/qrss.html>

[G7IZU Andy](http://www.tvcomm.co.uk/radio/live_b.html) http://www.tvcomm.co.uk/radio/live_b.html

[I2PHD Alberto](http://www.weaksignals.com) <http://www.weaksignals.com>

[G4OEP Andy](http://g4oep.atSPACE.com/qrss/qrss.htm) <http://g4oep.atSPACE.com/qrss/qrss.htm>

[M0AYF Des](http://www.qrss.thersgb.net/) <http://www.qrss.thersgb.net/>

[IK0VVE Max](http://www.radionatura.it/ik0vve2/mept1.aspx) <http://www.radionatura.it/ik0vve2/mept1.aspx>

QRSS Information and QRSS Knights mailing list:

[QRSS Knights mailing list](http://mail.cnts.be/mailman/listinfo/knightsqrss_cnts.be) http://mail.cnts.be/mailman/listinfo/knightsqrss_cnts.be

[QRSS Knights website](http://www.cnts.be/knights_qrss/) http://www.cnts.be/knights_qrss/

QRSS Software:

[ARGO: the most popular QRSS viewer program](http://digilander.libero.it/i2phd/) <http://digilander.libero.it/i2phd/>

Propagation pages:

[Digisonde - current propagation](http://digisonde.oma.be/cgi-bin/latest.exe) <http://digisonde.oma.be/cgi-bin/latest.exe>

[Propagation theory pages by G4NSJ](http://www.g4nsj.co.uk/which.shtml) <http://www.g4nsj.co.uk/which.shtml>

[Earth Viewer](http://www.fourmilab.ch/cgi-bin/uncgi/Earth) www.fourmilab.ch/cgi-bin/uncgi/Earth

[Freeware propagation prediction program](http://www.its.blrdoc.gov/elbert/pc_hf/hfwin32.html) www.its.blrdoc.gov/elbert/pc_hf/hfwin32.html

Construction aids:

[Mini ring core calculator](http://www.dl5swb.de/html/mini_ring_core_calculator.htm) http://www.dl5swb.de/html/mini_ring_core_calculator.htm

[GQRP club guide to harmonic filters](http://www.gqrp.com) www.gqrp.com

Components:

[DB6NT crystal heater \(extra stability for your beacon!\)](http://www.kuhne-electronic.de/english/special/crystalheater.htm)

<http://www.kuhne-electronic.de/english/special/crystalheater.htm>

Peter DL6NL has a QRSS frequency HC49 crystals for sale. He has the following frequencies: 7.000, 7.020, 10.137 and 10.140. Price is 5 Euros for three crystals, including shipping. Email him at his AOL address:

dl6nl@aol.com

Beacon keys:

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<http://k1el.tripod.com/>

<http://www.expandedspectrumsystems.com/>

<http://www.proehl-elektronik.de/start.html>

