

## 30m QRSS junkbox tx

Written by Hans Summers

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

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### 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

[READ MORE.](#)



**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

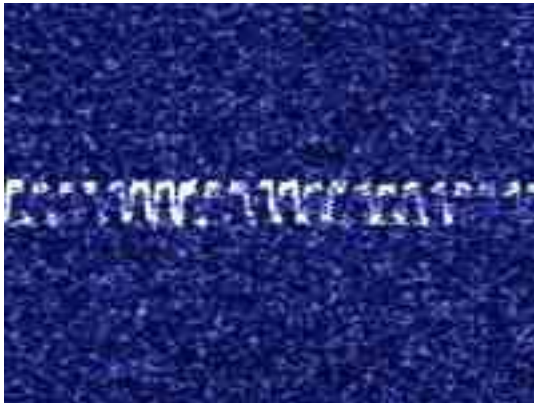
[READ MORE.](#)

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

David

[NQ](#)

[DL6JAN](#)

[VK6DI](#)

reported seeing a plain [VK6DI](#) that drifted back to the slowly [W6DA](#) together with [W6DA](#) and Chris

[READ MORE.](#)



**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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### [READ MORE.](#)



### 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. <a href="#">28-Feb-06</a>	<a href="#">VK6DI</a> David Isele	OF88CD		Mount Helena, Australia
2. <a href="#">28-Feb-06</a>	<a href="#">WB3ANQ</a> Larry Putman	FM19RC		Pasadena, Maryland
3. <a href="#">01-Mar-06</a>	<a href="#">DL6JAN</a> Christian Proehl	JO60KU		Chemnitz, Germany
4. <a href="#">01-Mar-06</a>	ZL4OL	Mike McAlevey	RE54GG	Waitati,
5. 6. <a href="#">01-Mar-06</a>	ON5SL LA5VNA	Pierre Steinar Aanesland	<a href="#">01-Mar-06</a> Aas, Norway	

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

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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 Benevento

[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](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](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](http://mail.cnts.be/mailman/listinfo/knightsqrss_cnts.be)

[QRSS Knights website](http://www.cnts.be/knights_qrss/) [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](http://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](http://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](http://www.dl5swb.de/html/mini_ring_core_calculator.htm)

[GQRP club guide to harmonic filters](http://www.gqrp.com) [www.gqrp.com](http://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](mailto:dl6nl@aol.com)

### Beacon keys:

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

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

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

