A borderline insane 30m QRSS beacon project, completely independent of computer control and contain

- o 12 WPM ordinary CW
- o QRSS3 (CW with 3 second dot length)
- o QRSS10 (CW with 10 second dot length)
- o DFCW3 (dual frequency CW with 3 second dot length)
- o DFCW10 (dual frequency CW with 10 second dot length)
- o A type of slow-hellschreiber

{gallery}qrss/title{/gallery}

These very narrow bandwidth modes are decoded using a Fast Fourier Transform (FFT) program running on a PC. For more details of these modes visit ON7YD's Extreme narrow bandwidth techniques page.

This project was/is a long series of modifications, operation periods, reports, and endless expenditure of frustration, patience and sometimes jubilation. Eventually I received reception reports from all around Western and Northern Europe. Since I have a large quantity of material on this topic I have divided the page into a series of sub-pages, which are presented below in chronological order.

30m Transmitter:

At the heart ot the beacon is the 30m transmitter itself. It uses a 74HC240 octal inverter IC as a power a

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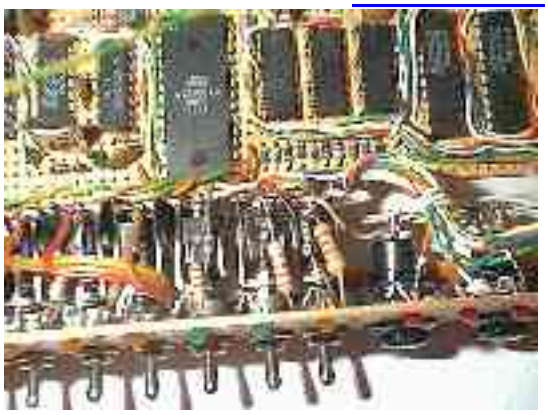

Beacon Controller:

The QRSS controller uses an Electrically Eraseable Programmable Read Only Memory (EEPROM) to s

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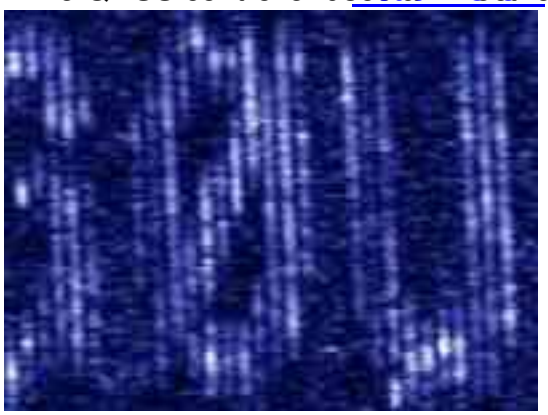

26-Mar-04 to 04-Apr-04:

Initial transmissions during Christmas 2003 had failed to produce even a single report. In March I tried a

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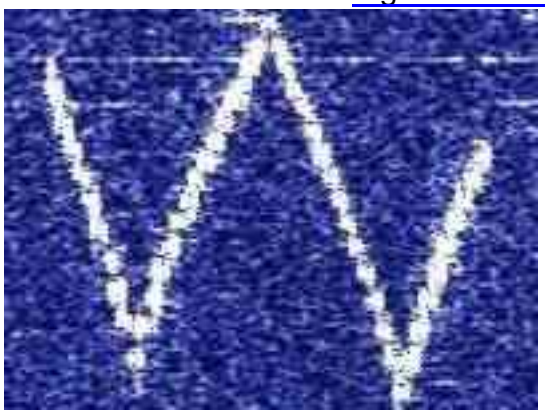

25-Aug-04 to 27-Oct-04:

Another round of beacon experiments later in 2004 produced a whole new batch of reception reports. A

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