

## HISTORY OF LF - BANDS

*It is very excellent stock of date for LF- Bands collected by Ed, RU6LA. Ed is well known as an enthusiast of the 1360kHz LF-Band, Ed is the first man who have made the First Asia-Europe QSO at 136-kHz, Ed is... well, I am afraid, there is no place enough to write up all that Ed have made for amateur radio. Just look at his new work for us, the History of LF-Bands.*

**RU6LA**



73! I.G.

Many facts are found in excellent LF news archives by [Dave G3YXM](#) Also TNX: [AMRAD](#), Marcus DF6NM, Geri DK8KW, Laurie G3AQC, Mal G3KEV, Peter G3LDO, John G3WKL, Reino OH1TN, Rik ON7YD, Dexter W4DEX.

Ed, RU6LA

### 2003

- 1.10-2.11.03** At the RSGB HF convention at Manchester, UK Laurence KL1X-GM4DMA received the Nevada Cup for his innovation and general helpfulness to LFRers in 2002-2003 season
- 25.07.03** First Alaska's WD2XDW beacon. Laurence KL1X (BP41XD) has started a beacon tests in 137.7738kHz at 2W ERP
- 30.06.03** RIP 73kHz and last QSO on this band (Peter G3LDO - Mike G3XDV)
- 15..25.06.03** First LF DXpedition to Africa (Laurence GM4DMA-KL1X to 9G Ghana)
- 15.05.03** FCC refuses 136kHz. The USA will not have a 136kHz allocation in the near future. Next WRC 2007?
- 14.03.03** First reception of Oceania signal in Asia (RU6LA@UA9OC RX ZL6QH)
- 13.03.03** First reception of Asia signal in Oceania (Bob ZL2CA RX RU6LA@UA9OC)
- 13.03.03** First 2-way QSO Europe - Asia (RU6LA@UA9OC - RU6LWZ QRSS & CW)
- 10..16.03.03** First LF DXpedition to Asia (RU6LA & UA9OC to Siberia)
- 15.02.03** First reception of Europe signal in Alaska (Laurence KL1X RX Laurie G3AQC)
- 3.01.03** First reception in South America on 136kHz (LU8EDR and LU8DYK RX Marcelo LW2ETU)

**2002**

- 18.12.02** First reception of Europe signal in North America on Jason (John W1TAG RX Jim M0BMU)
- Nov. 02** In first Dexter W4DEX takes regular plots of HBG(HB Switzerland) on 75kHz reception of Europe signal in North America
- Nov. 02** For a conference of 1-st region IARU in San-Marino for the first time is officially recommended Band Plan for the 136kHz band. Also there was an offer on amateur distribution about 500kHz. For this purpose the small Working Group was created with the purpose of consideration 10kHz of a site between 470 and 490kHz
- 4..5.11.03** First Indonesian CW beacon. YB3AQF in Surabaya has started 2-day's CW beacon tests in 137.0kHz
- 13.10.02** At the RSGB HF convention at Egham, Surrey, UK Jim M0BMU received the Nevada Cup for his innovation and general helpfulness to Lfers in 2001-2002 season
- 27.09.03** First reception of Europe signal in Asia (RA9MB RX RU6LWZ)
- 21.08.02** LU Argentina gets 136kHz band - 1W EIRP
- 17.07.02** PY Brasil gets 136kHz band
- 14.03.02** Rudolf Hell (the inventor of Hellschreiberdies) dies at Age of 100
- 19.01.02** First 2-way Jason QSO (Wolf DL4YHF - Dave G3YXM)

**2001**

- 1.12.01** First reception of Oceania signal in North America on 136kHz (Dexter [W4DEX](#) RX ZL6QH beacon)
- 1.12.01** First beacon test on 137.7898kHz in DFCW120 from ZL6QH
- 13-14.10.01** At the RSGB HF convention at Old Windsor, UK Alan G3NYK received the Nevada cup for his innovation and general helpfulness to Lfers in 2000-2001 season. Peter Bobek awards were presented to G3AQC, G3LDO and M0BMU (also to be sent to VE1ZJ, VA3LK and VE1ZZ) for their Trans-Atlantic successes
- 13.10.01** First repeater: RX 136kHz band to 145MHz USB TX. Crawley Club G3WSC - MB7LF
- Oct 01** First ZL New Zeland, ZL6QH has received permission to transmit in 136kHz band
- 17.09. 01** At 40th WG FM meeting (Corfu): Implementation of Recomendations 62-01(Info & Report)
- 1.08.01** First reception of Oceania signal in North America on 184.4kHz (Steve VE7SL RX ZL6QH beacon)
- 21.11.01** First reception of Europe signal in North America on 73kHz in QRSS (John W1TAG RX Laurie G3AQC)
- 15.03.01** DARC, RSBG and AMRAD - the sponsors of the Trans-Atlantic Challenge have decided to present awards to Larry VA3LK, Laurie G3AQC, Jack VE1ZZ, John VE1ZJ and Peter G3LDO for their contacts
- 9.03.01** First reception of Europe signal in North America on WOLF (John W1TAG RX Jim M0BMU) WOLF - A new mode developed by Stewart KK7KA is being tried on 136 at present

**5...19.02.01** Firsts 2-way QSOs North America - Europe (Larry VA3LK - Laurie G3AQC 5..19 Feb and John VE1ZJ / Jack VE1ZZ - Peter G3LDO 13 Feb)

**3.01.01** LA Norway gets frequencies below 9kHz

## 2000

**31.12.00** First 2-way narrow audio (Slow-Voice) QSO (Markus DF6NM - Geri DK8KW)

**27.12.00** Alberto I2PHD has started project FFT software "ARGO" Beta 1, build 110

**21.12.00** First reception of North America signal in Europe (Peter G3LDO RX Jack VE1ZZ)

**14-15.10.00** At the RSGB HF convention at Old Windsor, UK David G0MRF received the Nevada Cup for his innovation and general helpfulness to LFsers. David was also presented with a Peter Bobek award [REDACTED] for his trans-Atlantic crossband contact with VE1ZJ

**Sep 00** Wolf DL4YHF has started project FFT software "Spectrum Lab" or SpecLab

**15.09.00** In first Alan G3NYK takes regular plots of CFH (Halifax Nova Scotia, 137kHz) reception of North America signal in Europe

**10.09.00** First reception of Europe signal in North America (John VE1ZJ RX David G0MRF/p)

**17.08.00** EA Spain gets 136kHz band

**27.07.00** Brian CT1DRP has permission to operate in the CEPT band from both his QTHs until November 2001

**23.07.00** First 2-way QSO in North America (Mitch VE3OT & Larry VA3LK)

**1.07.00** Three German stations; DJ2LF, DF6NM and DK8KW have been issued with permits to operate between 8.9 and 9.0 kHz

**26.06.00** Petr OK1FIG has built a new front end for the Spectrogram engine "EasyGram"

**17.06.00** First beacon tests (176.5...184.5kHz) from VK / ZL [REDACTED]

**10.06.00** First TX Hell by Andy G4JNT [REDACTED]

**16.05.00** F France & other Fx gets 136kHz band official





**7.04.00** Larry VA3LK has a special permit to operate the 136kHz band from VO1. This is with a view to what he has called "Transatlantic II", an attempt at the first transatlantic QSO on amateur LF at Nov 2000 [REDACTED]

**Mar 00** First attempt 2-way QSO VK / ZL on 165-190kHz (ZL6HQ & special AX2TAR - VK7ZAL) Signals were heard both ways at various times but no QSO took place

**Jan 00** RadCom (RSGB) has published a Band plan in 136kHz band (in October 1999 Geri DK8KW has presented similar on RSGB HF Convention [REDACTED])

**1-2.01.00** First transmission the VLF radio station in Grimeton for HAMs. The frequency is 17.2 kHz and the call sign is SAQ

**1999**


- 5.12.99** First 2-way DFCW QSO (Rik ON7YD & Marcus DF6NM)
- 9-10.10.99** At the RSGB HF convention at Windsor, UK Dave G3YXM received the Nevada Cup (the RSGB Experimenters Award sponsored by Nevada of Portsmouth) for his innovation and general helpfulness to LFRers in 1998-1999 season.
- Aug 99** The first LF column written by Dave G3YXM in RadCom (RSGB)
- June 99** LF forum in Friedrichshafen (DL) has accepted the decision to found award for the first transatlantic QSO on LF in memory to Peter Bobek DJ8WL/DA0LF(SK Apr 99) , for his work on 160m and 136kHz
- May 99** F France gets 136kHz band
- 23.04. 99** OE Austria gets 136kHz band - A1A, A1B, 1W ERP
- 1.04.99** SM Sweden gets 136kHz band - 1W ERP
- 22.03. 99** First 2-way PSK31QSO on 137kHz (Reino OH1TN & Riso OH3LYG)
- 4.02.99** FCC has granted a one-year experimental license to the Amateur Radio Research and Development Corporation (AMRAD) to conduct tests on the frequency 136.75 kHz using the call sign WA2XTF..." 
- Feb 99** First commercial 136 rig by Nevada, now have stock of the "Ropex" 136 TX. It is crystal controlled, runs on 12V and produces 30 or 130W of RF. It costs less than £200.
- 15-18.01.99** First Transatlantic beacon tests (members of AMRAD are RX and europians HAMs are TX)  and foto 
- Jan 99** DL Germany gets 136kHz band
- Jan 99** First reception of Europe signal in Africa (Rik ON7YD/EA8 RX Marco IK1ODO in QRSS)

**1998**

- Nov 98** Rik ON7YD has started project software for TX QRS V 1.08
- Sep 98** At the RSGB HF convention John G3TDZ received the Datong Electronics Cup for his innovation and general helpfulness to LFRers
- 24.08. 98** First 2-way SSTV QSO on 136kHz (Reino OH1TN & Riso OH3LYG)
- 24.08. 98** First 2-way SSB QSO on 136kHz (Reino OH1TN & Riso OH3LYG)
- 29.06.98** UA Russia gets 136kHz band - A1A, 100W Output
- 13.06.98** S5 Slovenia gets 136kHz band - A1A, 100W Output
- Jun 98** PA Netherlands gets 136kHz band - A1A, 400W Output
- May 98** First LF DXpedition (Dave G3YXM to GM New Galloway, Scotland)
- Apr 98** I Italy gets 136kHz band

- Mar 98** ON Belgium gets 136kHz band - A1A, 2kW Output
- Mar 98** LX Luxembourg gets 136kHz band
- 30.01. 98** Gx United Kingdom to get 136kHz band
- Jan 98** EI Ireland gets 136kHz band
- 1.01. 98** HB Switzerland gets 136kHz band

**1997**

- Sep 97** At the RSGB HF convention Andy G4JNT received the Datong Electronics Cup (the RSGB Experimenters Award sponsored by Datong Electronics Ltd) for his innovation and general helpfulness to LFers
- 1.09.97** LA Norway gets 136kHz band - A1A, 100W Output
- 23.08. 97** First "DX" 2-way QSO on 73kHz. (Andy G4JNT& Peter G3LDO at 57km distance)
- 3.08.97** First 2-way QRSS QSO (Andy G4JNT & G3PLX on 72.09kHz., QRSS100 at 393km distance)
- 22.04. 97** First 2-way CW QSO on 137kHz (Reino OH1TN & Riso OH3LYG)
- Apr 97** Official CEPT/ERC Recommendation 62-01E (WGFM meeting in Mainz): "...band 135.7-137.8 kHz may be used with a maximum e.r.p. of 1 Watt on a secondary basis by the Amateur Service in CEPT countries" 
- 12.04. 97** First "DX" QSX QSO on 73kHz. (G3YGF RX Andy G4JNT at 100km distance)
- 1.04.97** OH Finland gets 136kHz band - 100W Output
- 14.02. 97** First 2-way QSO on 73kHz. (Mike G3XDV & Peter G3LDO/p at 175m distance, CW)

**1996**

- Dec 96** At the WGFM meeting: 135.7-137.8 kHz (one of channel of Trans-European electric power systems at 139kHz)
- Sep 96** WGFM-PT22 were summarised in the document FM(96)123 135.7-141.4 kHz to WGFM meeting
- July 96** Gx United Kingdom gets 73kHz (71.6...74.4) band
- Feb 96** At the WGFM (Working Group Frequency Management - of the CEPT-ERC) meeting the proposal was re-issued. The WGFM invited its monitoring sub-group PT-22 to search for an alternative in the 130-150 kHz area

**1995**

- Dec 95** At the WGFM (Working Group Frequency Management - of the CEPT-ERC) meeting (Sofia), the German administration referred to the IARU recommendation and announced the proposal for the European harmonised secondary amateur segment 142-147kHz

**199?**

- ???** VK Australia gets LF (165-190kHz) band - ?

**1990**

??? ZL New Zeland gets LF (165-190kHz) band - 5w EIRP

**1979**

??? Concluding the preparatory ITU-CCIR studies to WARC-79 the desirability of LF small secondary access was emphasised by SPM-WARC79 (Special Preparatory Meeting -of the ITU to WARC); however WARC-79 ran out of time and the subject was left unresolved

**1974**

Jan 74 The Long Wave Club of America (LWCA) "was organized in January, 1974 to promote both DXing and experimenting on frequencies below 550 kHz..."

**1965**

??? First? beacon on 187kHz under FCC part 15 (Dexter W4DEX)

**19??**

??? W United States gets LF (160-190kHz) band - beacons limited to 1w output and a 15 meter antenna under FCC part 15

**1901**

12.12.01 First Transatlantic reception (G.Marconi in St John's, Newfoundland, Canada RX Poldhu Cove in Cornwall, England) 3425km

**1895**

Guglielmo Marconi(25.04.1874-20.07.1937) and A.S.Popov(16.03.1859-31.12.1905) started with LF

**Credit Line:**

<http://136.73.ru/>

**136 kHz by RU6LA**

**Comments are welcome to:**

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