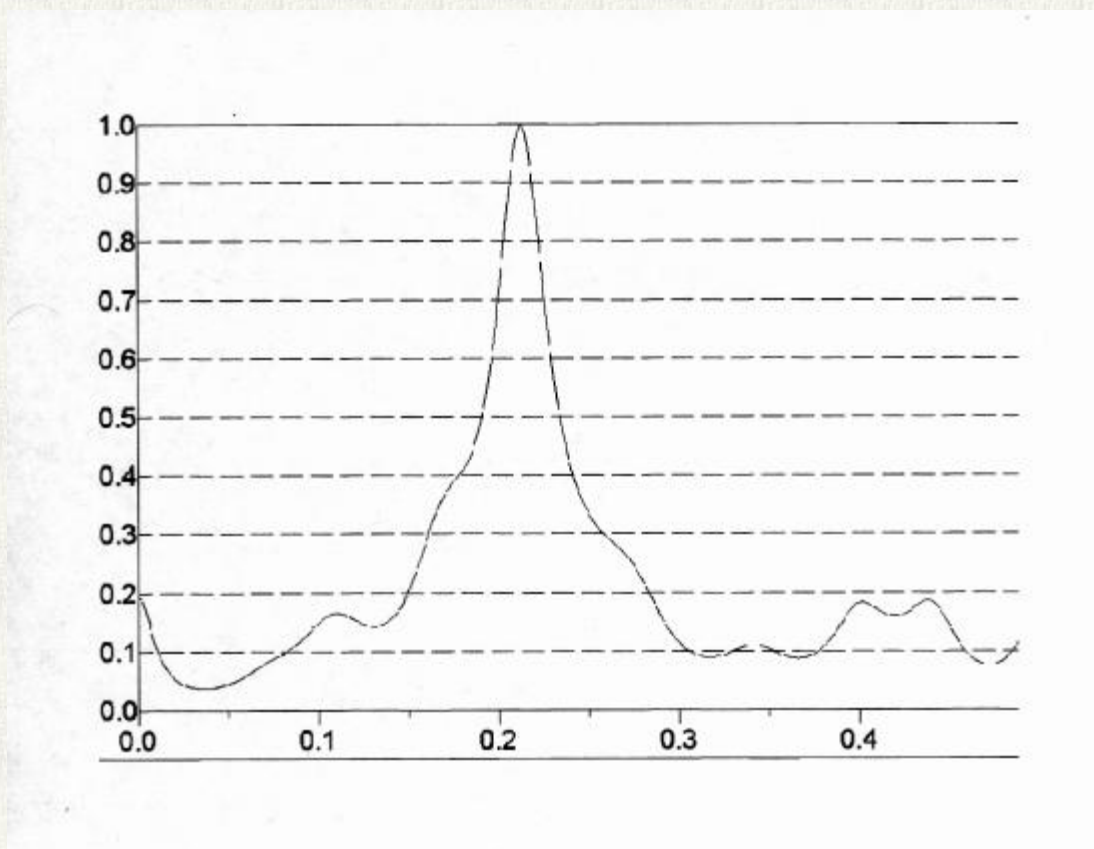


A 4TH PATTERN OBSERVED : PERIODIC PULSE AT 5 SEC. INTERVALS

Clifford E Carnicom

Mar 18 2003



Spectral Analysis of VLF Data Captured on 031803 at approx 2330.

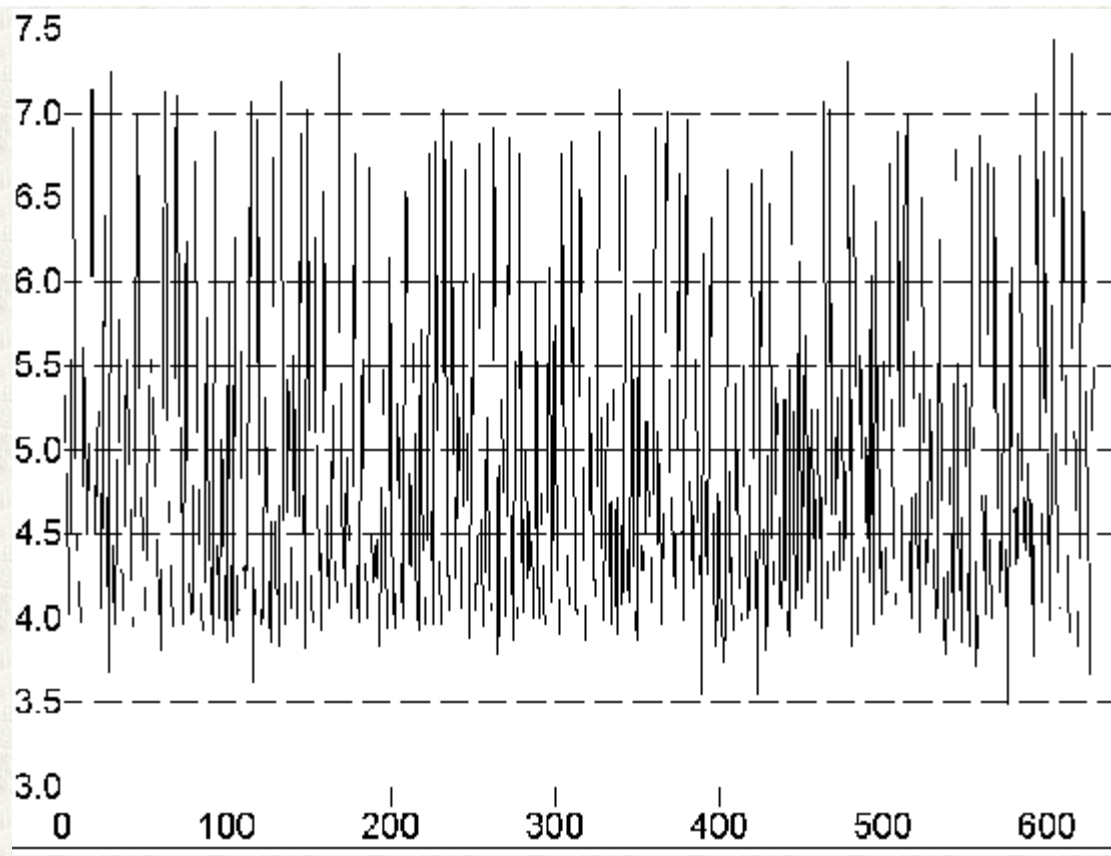
X Axis : Frequency

Y Axis : Power of Spectrum
(Maximum Entropy, Order 30)

A fourth unique pattern of ELF-VLF reception has now been logged. This data shows a periodic pulse occurring approximately every 4.75 seconds. The graph above presents a spectral analysis of the raw data, where the energy can be observed to be concentrated at a frequency of approx 0.21 seconds, corresponding to the pulses which occur approximately every 5 seconds. The reference value chosen for data logging was approximately 5kHz.

The data was captured with the ELF circuit as it is most recently described with the exception that the final commercial audio amplifier stage was not used. Output was captured at the common emitter stage of the circuit. The directional loop antenna was also used in the process, with a capacitor of 4nF used to establish a parallel resonant circuit at approx. 1.7kHz.

An additional change with this session was the tuning of the received signal with the use of an oscilloscope prior to logging of data. The signal was tuned with the potentiometers for maximum reception with no clipping of the waveform permitted. The periodic nature of the data was immediately evident during the logging process.



Raw VLF Data Logged 031803 at approx. 2330.
X Axis : Observation No. (1 per second)
Y Axis : Frequency in kHz.

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