

Thirty years of investigations of ULF/ELF/VLF radio wave generation at Radiophysical Research Institute

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The brief review of main experimental results (from the first detection of the effect to the last experiments with super light source) on ionospheric ULF/ELF/VLF radio waves generation using powerful RF transmitters is presented. The more attention is focusing to generating experiments carried out during the last decade with ground based ULF generator and long power line as antenna as well as strictly to the generating facility.

The results obtained during several experimental campaigns including the last one held September 2001 are presented. The experimental confirmations of the efficiency of different methods of low frequency waves generation will be presented.