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Studies of Plasma Instability Processes Excited by Ground Based High Power HF ("Heating") Facilities

Authors: [Aleksander V. Gurevich](#); [LEBEDEV PHYSICS INST MOSCOW \(RUSSIA\)](#)

Abstract: This report results from a contract tasking P. N. Lebedev Physical Institute as follows: The contractor will investigate how high power HF radio waves interact with collisional plasmas, such as the earth's ionosphere. Specifically, the contractor will predict and measure the formation of field aligned small scale striations; and energization of electrons along with their relationship to excited optical emissions. AFRL/AFOSR & AFRL/VS workers (Dr Carlson and coworkers) will provide existing airglow and incoherent scatter radar (ISR) data, and background conditions for boundary inputs to a theoretical calculation. The contractor will perform quantitative comparisons between the parameter values calculated, and those observed.

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