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## **Airglow during ionospheric modifications by the sura facility radiation. Experimental results obtained in 2010**

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### **Abstract**

We present the results of studying the structure and dynamics of the HF-heated volume above the Sura facility obtained in 2010 by measurements of ionospheric airglow in the red ( $\lambda = 630$  nm) and green ( $\lambda = 557.7$  nm) lines of atomic oxygen. Vertical sounding of the ionosphere (followed by modeling of the pump-wave propagation) and measurements of stimulated electromagnetic emission were used for additional diagnostics of ionospheric parameters and the processes occurring in the heated volume. © 2012 Springer Science+Business Media, Inc.

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