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Application of Autoscala to the ionograms recorded by the new ionospheric station of Warsaw: First Results

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A new ionosonde VISRC2, built at the Space Research Center of Warsaw, Poland, was installed at Warsaw (52.2N, 21.1E) in march 2007. The main characteristics of this ionosonde are: transmitted power 10 kW, pulse duration 100 μ s, sampling period 5 μ s, frequency resolution 25 kHz, and capability to distinguish ordinary and extraordinary reflections.

This ionosonde, able to record the sounding only as a binary file, was not equipped with a tool to perform an automatic scaling of the recorded trace. This work describes the application of Autoscala to the ionograms recorded by this ionosonde and the first results, in terms of ionograms and autoscaled characteristics, are presented and briefly discussed.