

# HIPAS Observatory

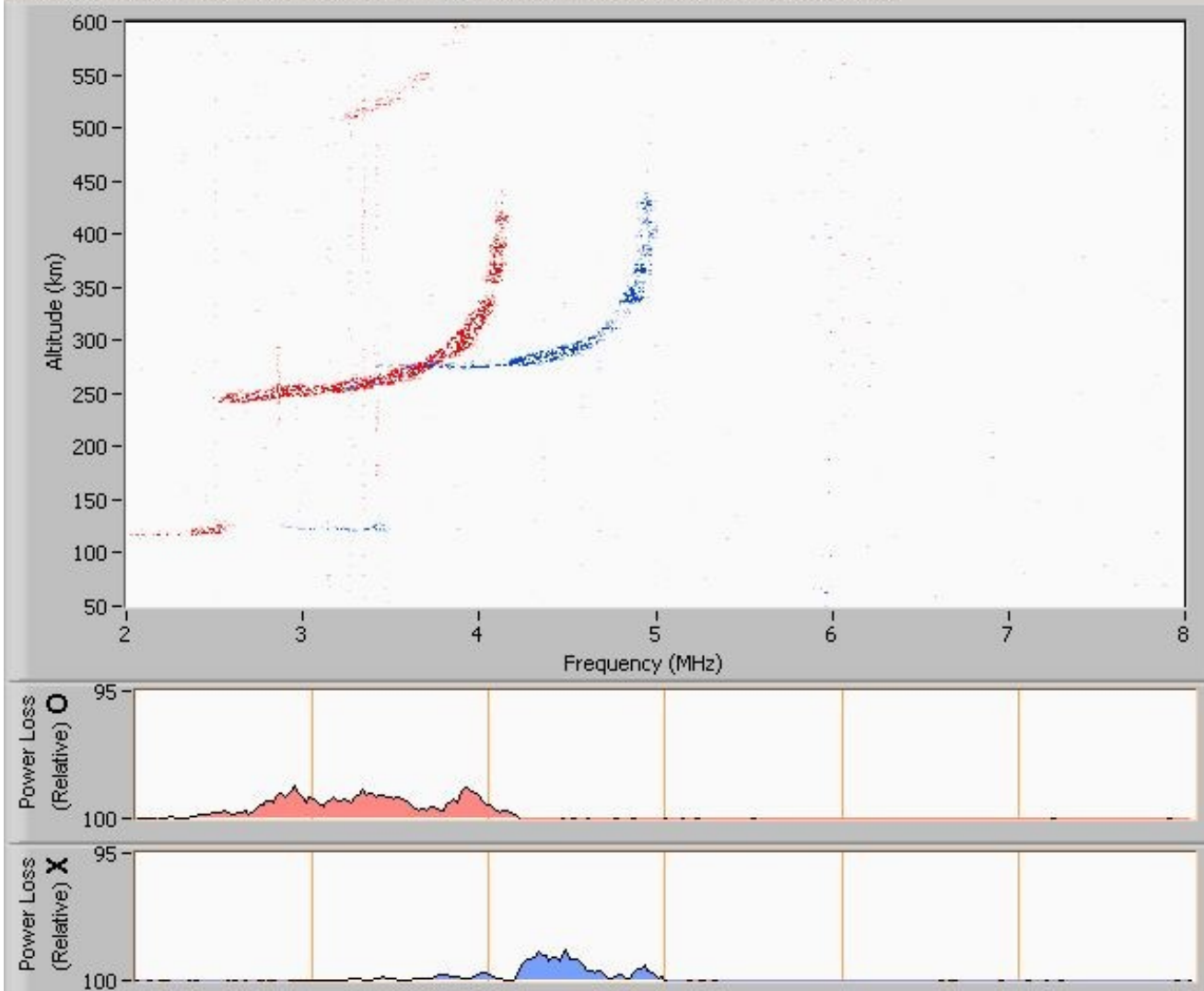
## High Power Auroral Stimulation



### HF (High Frequency) Doppler/Ionosonde

The Doppler-Ionosonde will "sound", or resonate, the ionospheric layer and record the delay times of the returned signal. The collected data is averaged and plotted showing graphically, the density and behavior of the ionosphere.

O Ionogram (2006/8/15 05:06:03 UT) and X Ionogram (2006/8/15 05:06:36 UT) (Red=O; Blue=X)



to have seasonal stability, but is extremely sensitive to atmospheric changes. There is intense interest in and the communications world regarding what conditions cause the layer to form.

This phase-sensitive ionosonde will also record signals bounced back from Noctilucent Clouds which are only during the Arctic summer. This is something that is of great interest to atmospheric scientists.

[HIPAS Ionosonde](#)

[College Ionosonde <2>](#)

[HAARP Ionosonde](#)

**[BACK](#)**

Contact: [Webmaster@hipas.alaska.edu](mailto:Webmaster@hipas.alaska.edu)