Eu-P012 Time: June 8 17:00-18:30

Ray tracing studies of auroral hiss from polar region to near magnetotail

Toshio Matsuo[1], Kenichi Kawamura[1]

[1] Communications and Computer Eng., Kyoto Univ.

One of our concern is where does upward propagating auroral hiss propagate. As auroral hiss propagation paths are strongly governed by magnetic field and density structures, we used the distorted magnetic field model developed by Tsyganenko, and we made magnetospheric density model by using Strangeways method. By ray Tracing studies, we found that VLF waves start from night sisde auoral oval are possible to propagate to near magnetotail.