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Advanced Propagation: Greenland FDTD Case Study and the Potential for Parabolic Equation Modeling [Time: 8+4]

Thursday, 8 April 2021 09:24 (12 minutes)

This talk covers two topics related to "advanced" radio propagation (i.e. not raytracing). The first describes the use of finite-difference time-domain (FDTD) modeling to describe a radio dataset from Greenland and the second describes the potential application of parabolic equation (PE) modeling for in-ice studies. Unlike FDTD, PE is tractable over larger scales, but still leaves much to be demonstrated for this application.

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