

INICEMC MEETING - C++ MODULE FOR RF PROPAGATION THROUGH ICE AND FIRN

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CCAPP @ OSU

- I. A C++ Module for RF propagation in ice - Why?
 - A. Class structure and functions
 - B. How Propagator.h works
- II. Physics questions
 - A. Measured firn profiles and channeling
 - B. Reaching the surface
 - C. Reflecting layers
 - D. Air to firn propagation (new)
 - E. RFRay.h distance and loss tracking (new)
- III. What's next?
 - A. Diffuse reflection (Geoffrey)
 - B. Verify with Mathematica (Spoorti)
 - C. Channelling with no explicit reflection layer

CLASS STRUCTURE AND FUNCTIONS

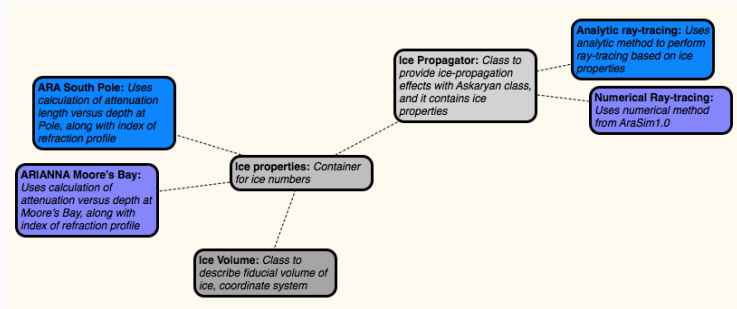


Figure 1: The original RF propagation class structure from AraSim2 outline.

CLASS STRUCTURE AND FUNCTIONS

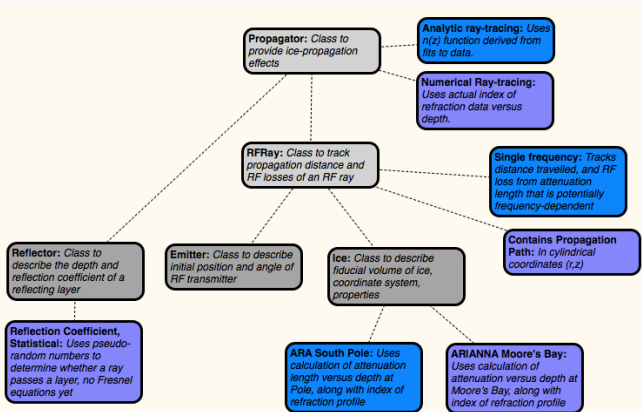


Figure 2: The current RF propagation class structure.