

## University of Calgary scatterometer specifications (C. Fuller, 2015)

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RF output frequency	5.5 GHz $\pm$ 2.50 MHz
Antenna type	0.61-m parabolic reflector, dual linear polarization
Antenna beamwidth	5.4 <sup>0</sup>
Cross polarization isolation	>30 dB, measured at the peak of the beam
Transmit power	12 dBm
Bandwidth	5–500 MHz, user adjustable
Range resolution	0.30 m
Polarization mode	Polarimetric (HH, VV, HV, VH)
Noise floor	Co $\sim$ $-36$ dBm, cross $\sim$ $-42$ dBm
External calibration	Trihedral corner reflector

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RF, radio frequency.

Fuller, M.C., Geldsetzer, T., Gill, J.P.S., Yackel, J.J., Derksen, C. (2014). C-band Backscatter From a Complexly-Layered Snow Cover on First-Year Sea Ice. *Hydrological Processes*, Vol. 28, pp. 4614-4625.