

Remote Sensing Methods for Quantifying Snow Water Equivalent at the Bay of Quinte (Ontario) and for Lake Erie Watershed (Ontario)

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ABSTRACT

Remote sensing methods used to quantify snow water equivalent in two key priority areas: the Bay of Quinte and the Lake Erie watershed, will be presented. Different remote sensing products and methods have been used to map and identify snow cover. This remote sensing information is cross-referenced with field data and used in running our SNOWPACK model, which uses the following meteorology inputs: precipitation, humidity, wind, and solar radiations. The GIS aspect of the data acquisition and manipulation will also be discussed: spatial references, bandwidth operations, and data format conversions.

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