

# Enhancing Disaster Risk Reduction Capabilities with Multifrequency, Multi-polarization, Very high-Resolution SAR Information

\*Sheldon Dean Drobot<sup>1</sup>, Robert Taylor<sup>1</sup>, Paul Griffith<sup>1</sup>

## 1. Harris Corporation

The potential for wideband active/passive microwave satellite data could open a new era in water resources management as microwave signatures see through clouds (i.e., all-weather) and operate diurnally. Harris Corporation has led the development of a new instrument that provides co-aligned radiometric data at X-, K-, and Ka- bands and SAR data at X- and two Ku- bands for operational mapping of snow water equivalent. In this presentation, we will outline the current concept and provide experimental results from airborne field trials in 2018.

Keywords: SAR, snow, Remote Sensing