

C02: Agrometeorological and Satellite derived Decision Support Tools for Agriculture in a Changing Climate

Conveners: Andrew Nadler, [Manasah Mkhabela](#) and Yinsuo Zhang

Co-chairs: Andrew Nadler¹, Manasah Mkhabela² and Yinsuo Zhang³

¹Peak HydroMet Solutions, Campbell River, BC, V9W 8B6

Phone: 250-202-2031 E-mail: anadler@peakhydromet.ca

²Soil Science Department, University of Manitoba, Winnipeg, MB, R3T 2N2

Phone: 204-474-8153 E-mail: Manasah.Mkhabela@umanitoba.ca

³AgroClimate, Geomatics, and Earth Observations Division, Agriculture and Agri-Food Canada, Ottawa, ON, K1A 0C6

Phone: 613-715-5026 E-mail: yinsuo.zhang@agr.gc.ca

Session Description

Advanced satellite imagery and weather monitoring technologies have enabled the timely monitoring of crop and environmental conditions in near-real-time and to adopt decision support tools that assist with *crop management and environmental sustainability*. These tools are becoming more sophisticated as the industry continues to invest in the application of these tools, from precision agriculture at the farm level to yield forecasting at regional and global levels. This session will review the trends in technologies and tools that utilise agrometeorological and satellite (remote sensing) derived inputs for on-farm precision farming and decision making across all scales. The session will also cover/ demonstrate the use of these technologies and tools across all scales for crop growth monitoring/modelling, disease/pest prediction and monitoring and yield forecasting under extreme variable weather and a changing climate.

Primary Affiliation: CSAFM