
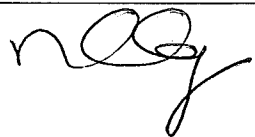


AWARE Quarterly Progress Report Project ID: Q7 Core Site: Slave Lake, AB, Canada Title: How can ALS LiDAR be used to assess product mix based on stem class distribution in mixed boreal systems?		Institution: University of British Columbia Project Supervisor: Dr. Nicholas Coops HQP Name: Chris Mulverhill
Report Period Year: 2019 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;"> S4 <input checked="" type="checkbox"/> S1 Jan- Apr </div> <div style="text-align: center;"> <input type="checkbox"/> S2 May- Aug </div> <div style="text-align: center;"> <input type="checkbox"/> S3 Sep- Dec </div> </div>		Committee Members <ul style="list-style-type: none"> <input type="checkbox"/> See Progress Report Year: 2018 S3 <input type="checkbox"/> Names: <u>Dr. Nicholas Coops, Dr. Peter Marshall, Joanne White</u>
		Number of Courses Left to Complete <div style="text-align: center; font-size: 24px;">0</div>
Research Progress During this Reporting Period <ul style="list-style-type: none"> - Completed data analysis from ground-based photogrammetric point clouds. - Completed paper on characterizing taper and volume from individual tree point clouds - Began work on analyzing patterns of structural regeneration following disturbance across species types in Slave Lake study area. The input data are over 7,000 photointerpreted burns and harvests covering the last 55 years, and wall-to-wall structural information representing the stem size distribution at a 20 x 20-meter grid cell level. The distribution in each photointerpreted stand polygon is used to determine the overall patterns by species and disturbance type. - Began paper investigating point above 		
Presentations Done NA		
Papers Submitted Mulverhill, C.; Coops, N.C.; Tompalski, P.; Bater, C.W.; Dick, A.R (2019). "The Utility of Terrestrial Photogrammetry for Assessment of Tree Volume and Taper in Boreal Mixedwood Forests". <i>Annals of Forest Science</i> . IN REVIEW .		
Annual General Meetings AGM1 <ul style="list-style-type: none"> <input type="checkbox"/> Attended <input type="checkbox"/> Reported results 	AGM2 <ul style="list-style-type: none"> <input type="checkbox"/> Attended <input type="checkbox"/> Reported results 	AGM3 <ul style="list-style-type: none"> <input type="checkbox"/> Attended <input type="checkbox"/> Reported results
Research Targets for next Reporting Period Complete analysis of ecological patterns of regeneration, write and submit paper		
HQP Signature:  Date: 04-18-2019	Project Supervisor Signature:  Date:	