



<b>AWARE Quarterly Progress Report</b> <b>Project ID:</b> Q7 <b>Core Site:</b> Slave Lake, AB, Canada <b>Title:</b> How can ALS LiDAR be used to assess product mix based on stem class distribution in mixed boreal systems?		<b>Institution:</b> UBC <b>Project Supervisor:</b> Dr. Nicholas C. Coops <b>HQP Name:</b> Chris Mulverhill	
		<b>Committee Members</b> <input type="checkbox"/> See Progress Report Year: _5_, Q_1&2_ <input type="checkbox"/> Names: Dr. Nicholas C. Coops, Dr. Joanne C. White, Dr. Peter L. Marshall	
<b>Report Period</b> Year:		<b>Number of Courses Left to Complete</b>  0	
<input type="checkbox"/> Q1 Apr- Jun		<input type="checkbox"/> Q2 Jul- Sep	
<input type="checkbox"/> Q3 Oct- Dec		<input type="checkbox"/> Q4 Jan- Mar	
<b>Research Progress During this Reporting Period</b>  <ul style="list-style-type: none"> <li>- Completed data analysis on patterns of structural regeneration following disturbance across species types in Slave Lake study area</li> <li>- Completed paper on characterizing these patterns and determining differences between species and disturbance types</li> <li>- Began work on using digital terrestrial photogrammetry (DTP) for deriving plot-level forest inventory information. First, I needed to determine the best means of automatically processing and developing the data for this use. Next, I needed to find the best means of data preparation and combination of detected trees at multiple locations before outputting a result – in this case, a stem map showing the location and size of each tree on a sample plot.</li> </ul>			
<b>Publications</b> Mulverhill, C., Coops, N. C., White, J. C., Tompalski, P., & Marshall, P. L. (2019). Structural development following stand-replacing disturbance in a boreal mixedwood forest. <i>Forest Ecology and Management</i> , 453, 117586.			
<b>Presentations</b> <i>None during reporting period</i>			
<b>Annual General Meetings</b>			
AGM1 <input type="checkbox"/> Attended <input type="checkbox"/> Reported results	AGM2 <input type="checkbox"/> Attended <input type="checkbox"/> Reported results	AGM3 <input type="checkbox"/> Attended <input type="checkbox"/> Reported results	
<b>Research Targets for next Reporting Period</b> Finalize work using DTP for deriving forest inventory data and begin writing paper			
HQP Signature:  Date:		Project Supervisor Signature:  Date:	