

Article – Supplementary material

# Single-Pass UAV-Borne GatorEye LiDAR Sampling as a Rapid Assessment Method for Surveying Forest Structure

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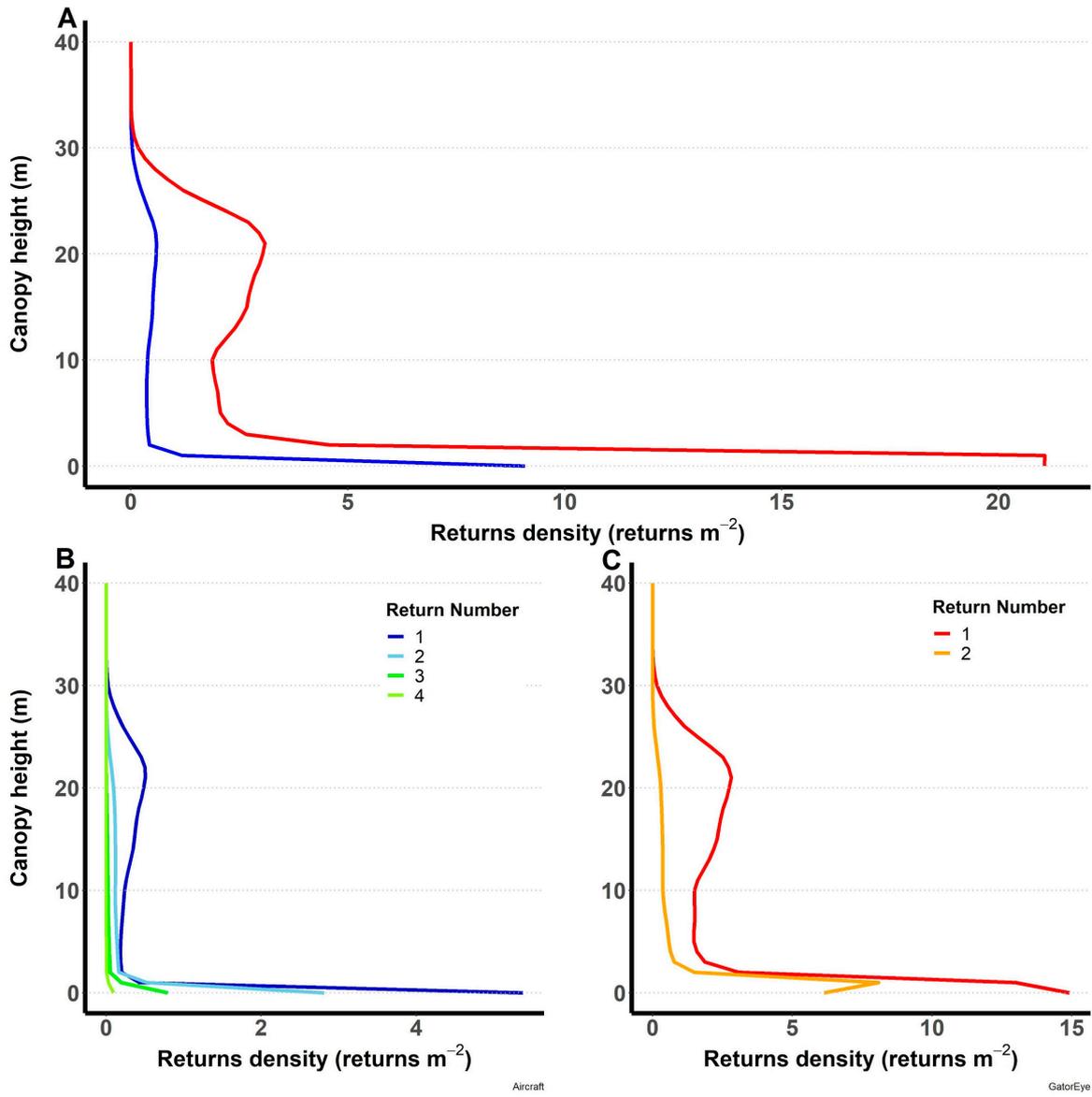
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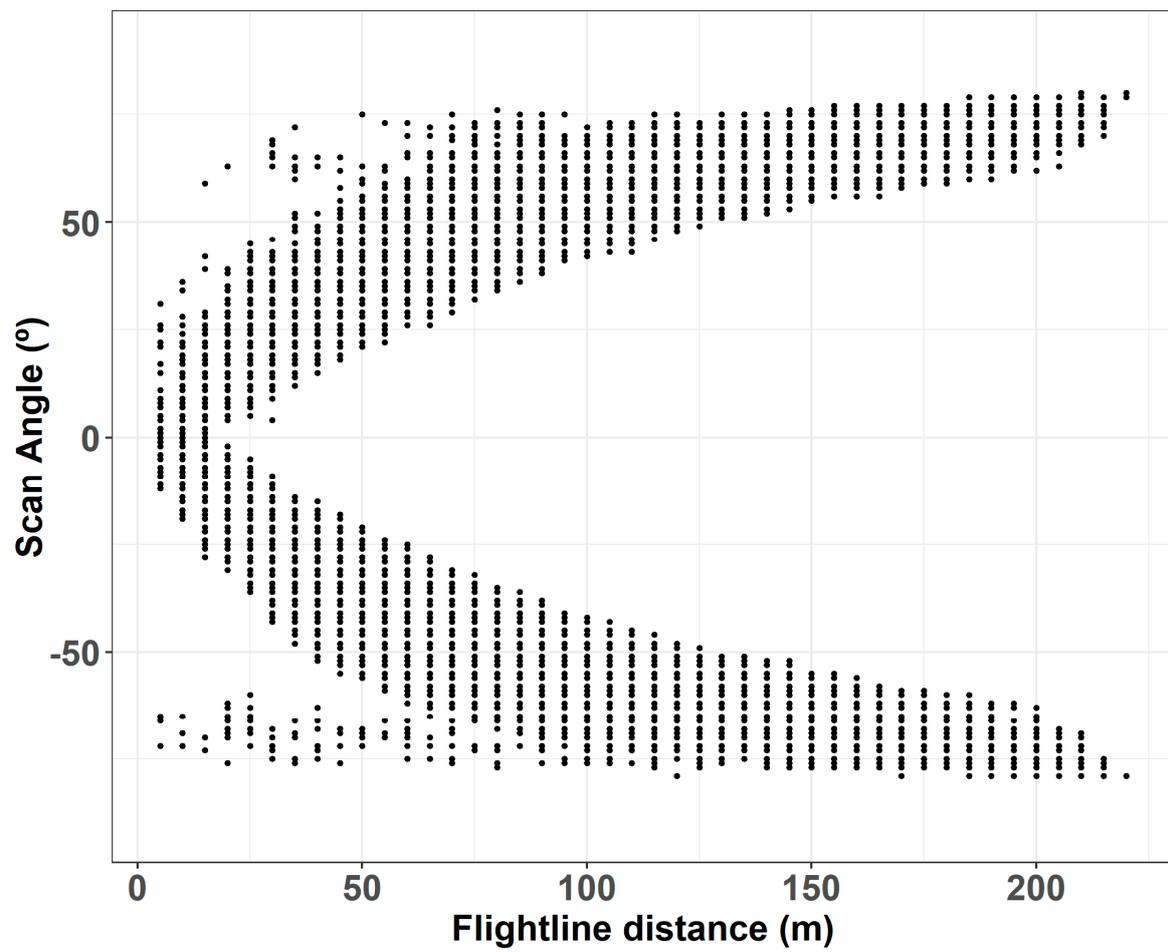
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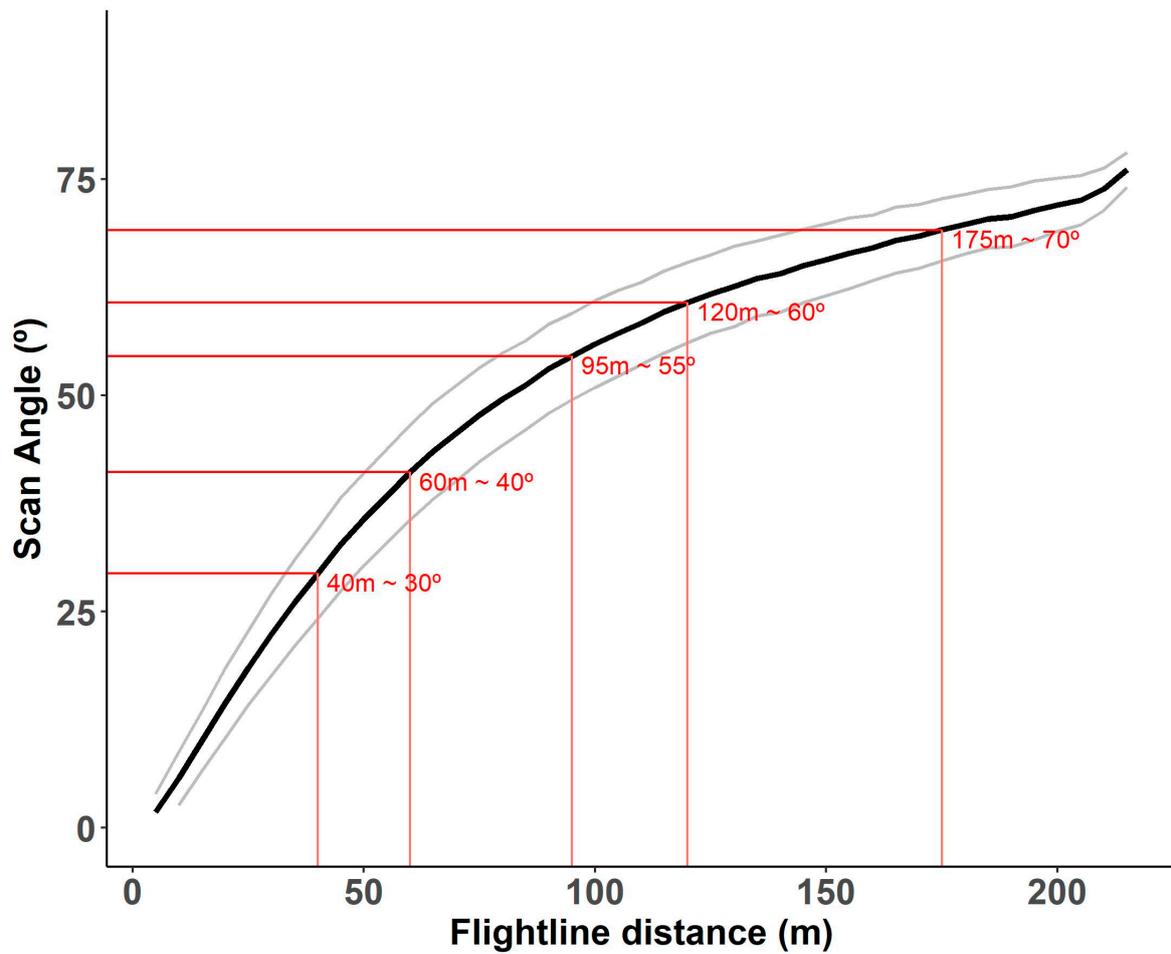
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**Figure S1.** A) GatorEye (red) and Aircraft (blue) LiDAR points density profile (pts m<sup>-2</sup>). B) Points density profile for all returns for aircraft (1-4) and (C) for GatorEye (2).



**Figure S2.** Relation between distance from flightline and scan angle, combining 10 thousand sample points from each of the 43 plots.



**Figure S3.** Relation between distance from the flightline and scan angle. Black line is the mean value of the observed angles and grey lines are plus and minus standard deviations. Red lines show the main thresholds found, at 40m, 60m, 95m, 120m and 175m, and the correspondent approximated angle, 30°, 40°, 55°, 60° and 70°, respectively.

**Table S1.** Thresholds for best quality GatorEye's products in the single-pass approach.

Product	Flightline distance	FOV(°)
DTM	195	145
CHM	95	110
ITD	160 to 180	140
Tree height	160 to 180	140
Crown delineation	40 to 60	60 to 80