C-3 Report on Intensity Values

The USGS Lidar Base Specification Version 2.1 states: "Intensity values are required for each multiple discrete return. The intensity values recorded in the LAS files shall be normalized to 16 bit, as required by the LAS Specification version 1.4-R13 (ASPRS, 2011). Intensity normalization should be strictly linear. Common image stretches (minimum-maximum, standard deviations, percent clip, histogram, and so forth) are expressly forbidden."

The purpose of this section is to report on the presence and quantities of lidar intensity in the LAS data.

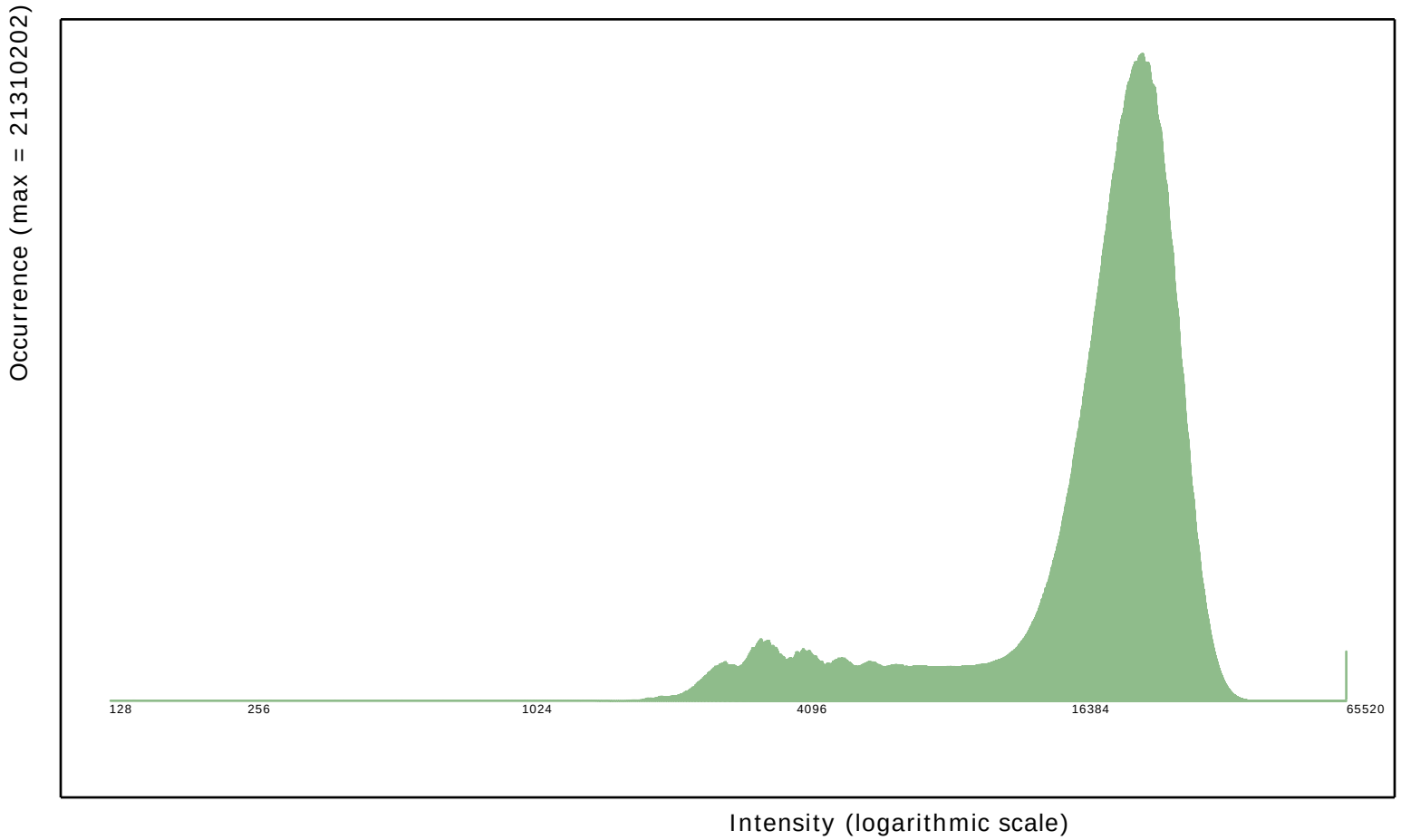
Data Source - Y:\Mapping\Projects\65220554_NE_Northeast\Production\Final_Client_Deliverables\Block3_Surdex\point_cloud\Swaths

File	Minimum	Maximum	Mean	Median	Mode
CS_00004.las	144	65,520	24,730	25,328	25,728
CS_00006.las	128	65,520	21,602	22,256	22,496
CS_00008.las	144	65,520	23,176	23,472	23,472
CS_00010.las	128	65,520	21,690	22,432	23,248
CS_00014.las	304	65,520	24,107	24,496	24,944
CS_00016.las	144	65,520	22,800	23,184	23,424
CS_00017.las	144	65,520	21,818	22,224	23,536
CS_00018.las	144	65,520	24,325	24,736	24,944
CS_00019.las	144	65,520	23,937	24,432	24,832
CS_00020.las	128	65,520	21,333	21,936	22,496
CS_00022.las	144	65,520	21,118	21,632	22,192
CS_00028.las	128	65,520	22,331	22,928	23,424
CS_00030.las	128	65,520	21,849	22,016	21,744
CS_00031.las	256	65,520	20,573	21,072	21,536
CS_00032.las	128	65,520	20,800	21,552	22,352
CS_00035.las	128	65,520	24,504	25,040	25,568
CS_00038.las	144	65,520	25,107	25,456	25,648
CS_00043.las	144	65,520	23,496	24,320	24,880
CS_00045.las	128	65,520	21,326	21,904	22,480
CS_00047.las	128	65,520	20,908	21,744	22,288
CS_00054.las	128	65,520	24,395	24,960	25,712
CS_00055.las	144	65,520	22,826	23,104	23,280
CS_00056.las	144	65,520	21,623	21,920	21,760
CS_00057.las	144	65,520	23,409	23,696	24,224
CS_00061.las	128	65,520	21,400	22,208	23,376

C-3 Report on Intensity Values - continued

File	Minimum	Maximum	Mean	Median	Mode
CS_00067.las	128	65,520	20,659	21,264	21,152
CS_00077.las	144	65,520	23,734	24,176	24,928
CS_00079.las	144	65,520	22,179	22,512	22,784
CS_00080.las	144	65,520	21,549	21,808	21,808
CS_00086.las	288	65,520	22,387	22,816	23,344
CS_00090.las	128	65,520	25,046	25,488	25,616
CS_00091.las	144	65,520	21,807	22,048	22,656
CS_00093.las	144	65,520	24,751	25,344	25,760
CS_00094.las	544	65,520	22,722	23,184	24,176
CS_00095.las	144	65,520	20,742	21,248	21,776
CS_00097.las	128	65,520	21,673	22,080	22,704
CS_00099.las	144	65,520	21,491	21,600	21,120
CS_00105.las	144	65,520	24,973	25,424	25,712
CS_00106.las	1,472	65,520	23,562	24,016	24,048
CS_00107.las	144	65,520	23,049	23,488	24,128
CS_00112.las	128	65,520	21,181	21,872	22,464
CS_00113.las	272	65,520	20,060	21,088	22,368
Overall Statistics	128	65,520	22,512	22,960	23,456

C-3 Report on Intensity Values - continued

The purpose of this section is to show a frequency distribution chart of intensities throughout all of the lidar files.

Data Source - Y:\Mapping\Projects\65220554_NE_Northeast\Production\Final_Client_Deliverables\Block3_Surdex\point_cloud\Swaths